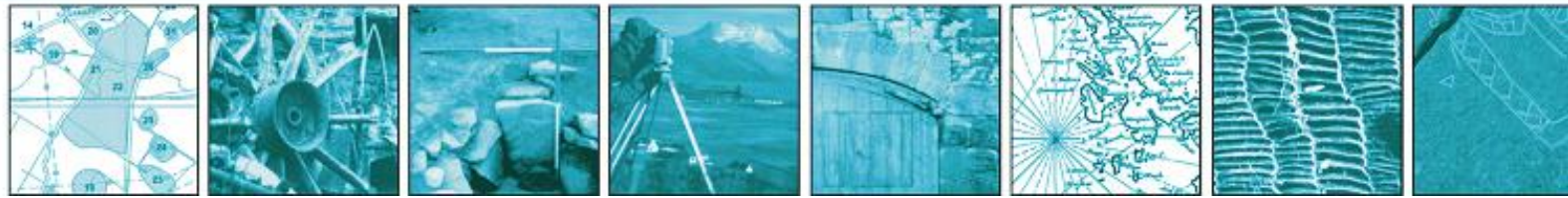


Project Code: EERR09/003
Date of Report: December 2010
Client: Farrans and I. & H. Brown



RESULTS OF AN ARCHAEOLOGICAL EXCAVATION AT RUTHERGLENBRIDGE COTTON MILL, BRIDGETON, GLASGOW

Sophie Nicol
MA(Hons) AIfA

PROJECT SUMMARY SHEET

Client FARRANS AND I. & H. BROWN

National Grid Reference NS 607 632

Council GLASGOW CITY COUNCIL

Project Manager MARK ROBERTS

Text SOPHIE NICOL

Illustrations ANNA SZTROMWASSER

Typesetting ANNA SZTROMWASSER

Fieldwork KIRSTY DINGWALL, CALUM HENDERSON, NUALA MARSHALL,
SANDRA MULLIGAN, SOPHIE NICOL, DAVID SWAN

Specialists

Finds Assessment JULIE FRANKLIN

Schedule

Fieldwork JULY 2010

Report DECEMBER 2010

Signed off by:

Mark Roberts BA(Hons) MJA, Project Manager

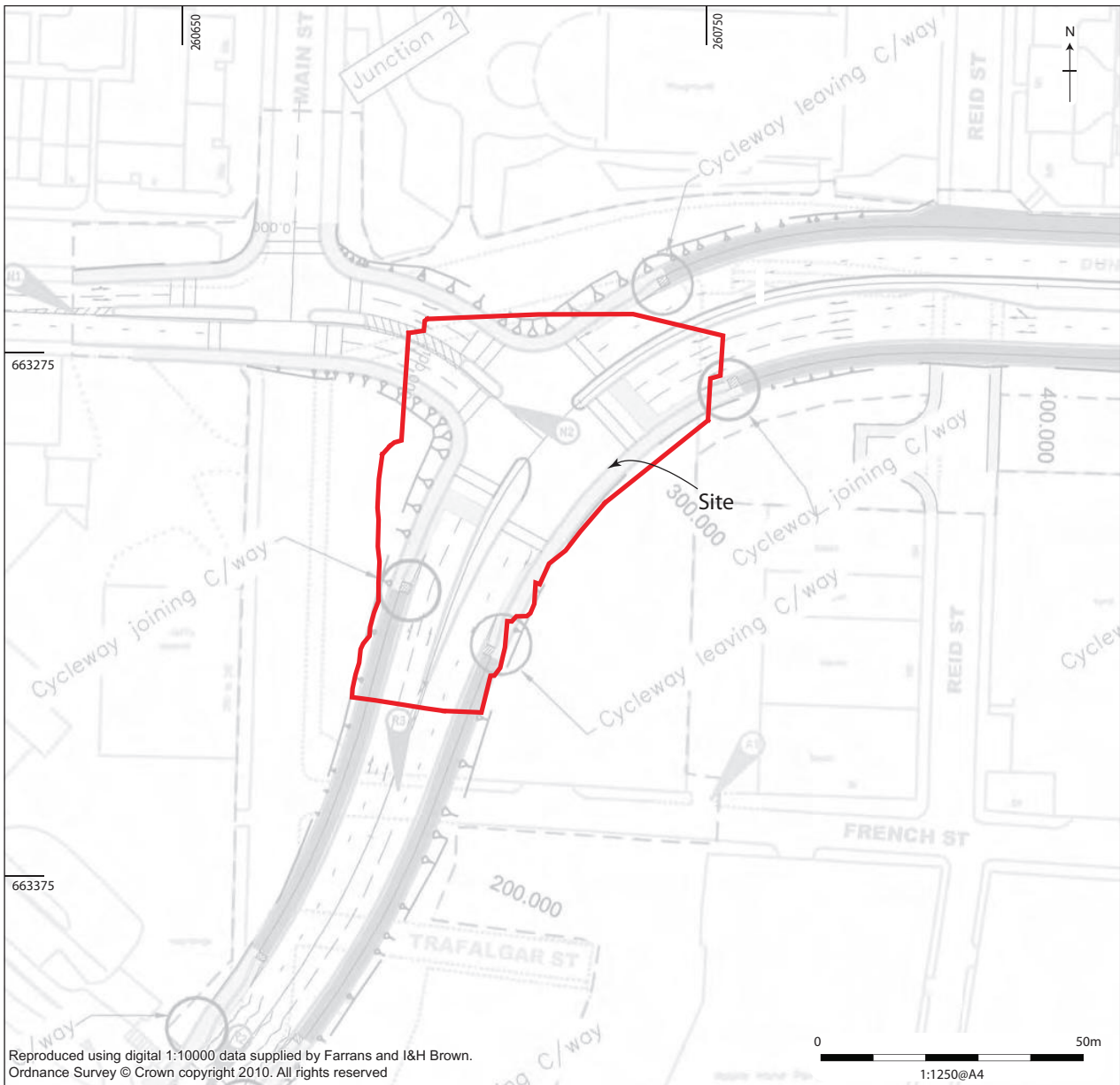
Date:.....

CONTENTS

1.	INTRODUCTION	1
2.	SITE DESCRIPTION	1
	2.1 Historic background	1
3.	RESULTS	2
	3.1 Methodology	2
	3.2 Results	2
	3.3 Phase 1 – Mill	5
	3.4 Phase 2 – Mill demolition	13
	3.5 Phase 3 – Tenements	13
	3.6 Discussion	13
4.	FINDS ASSESSMENT	15
	4.1 Finds summary	15
	4.2 Discussion	15
5.	SOURCES	15
	5.1 Bibliography	15
	5.2 Maps	15
	5.3 Internet sources	15
	APPENDICES	16
	Appendix 1 – Site registers	16



Reproduced using 2005 OS 1:50000 Landranger Series no 64
Ordnance Survey © Crown copyright 2005 All rights reserved. Licence no AL 100013329



Reproduced using digital 1:10000 data supplied by Farrans and I&H Brown.
Ordnance Survey © Crown copyright 2010. All rights reserved

Illus 1
Site location

RESULTS OF AN ARCHAEOLOGICAL EXCAVATION AT RUTHERGLENBRIDGE COTTON MILL, BRIDGETON, GLASGOW

by Sophie Nicol

Headland Archaeology was commissioned by Farrans and I. & H. Brown to undertake a programme of archaeological works, in accordance with an Environmental Statement, along a section of the proposed East End Regeneration Route. This report forms the results of an archaeological map, strip and record undertaken across site 33 in order to provide a comprehensive record of any archaeological remains. This work was undertaken from the 14th June to the 2nd July 2010, within the agreed three week timetable.

1. INTRODUCTION

This report contains the results of an archaeological map, strip and record as commissioned by Farrans/I. & H. Brown as a part of a contract issued by Glasgow City Council in accordance with an Environmental Statement for the new East End Regeneration Route at the site of Main Street/French Street, Glasgow. The work was originally outlined by an Environmental Statement, with a Heritage Chapter written by AOC Archaeology (2004, EERR Environmental Statement, Appendix 5). Additionally, an evaluation was undertaken (Headland Archaeology, 2010) which highlighted the archaeological potential of the area. In order to define and mitigate any adverse affects the development may have a second phase of archaeological work (map strip and record) was commissioned which this report documents.

The results of the evaluation suggested that some evidence of Rutherglenbridge Cotton Mill (site 33 AOC numbers, NS 607 632) remained in situ. As part of the Environmental Statement further mitigation was required and a map strip record of the excavation area of the road footprint was undertaken, followed by map and documentary research of the mill. The fieldwork was carried out in three weeks from 14/06/2010 until 2/07/2010 with a team of approx 6 archaeologists. The excavation covered an area of approx 3200m² and followed the land take surveyed in by the client.

2. SITE DESCRIPTION

The excavation area comprises of an area designated for the new road as part of the East End Regeneration Route. This is located within the Rutherglen Bridge to Biggar Street landtake area, as part of Phase 2 of the works.

2.1 Historic background

The area of Bridgeton has a rich historical background, as the site on which the late 18th century village was founded belonged to the Barrowfield estate, hence its use of name in the area to this day (Glasgow History, 2010). A bridge has also long crossed the Clyde where the current Rutherglen Bridge is situated (current bridge built at end of 19th century). This crossing is thought to have originally replaced the old Glasgow Bridge which was the main route from Rutherglen to Glasgow.

As an area relatively undeveloped and in close proximity to Glasgow it became a popular choice for industries such as cotton and dye works to become established. The Cotton Industry was one of the forefront industries in Glasgow, and as one of the major employers in the city in terms of capital and labour (Fraser & Maver, 1996). From the 1830s the industry was strong but unfortunately began to decline and by the end of the 19th century the majority of mills had ceased to operate. As other industries were in the same predicament due to the economic downturn a large proportion of industrial buildings were demolished in Glasgow to make way for residential buildings such as late 19th Century tenements. As a result of this much of Glasgow industrial heritage lies under buildings still standing today. Although in many cases the comprehensive First and Second Town Plan Ordnance Survey maps show detailed outlines of buildings many of their functions remain unknown.

The importance of the close vicinity of the River Clyde to the site, and many others that line its banks, was the good export trade links with the colonies (Clydeport, 2010) enabled via deepening work undertaken on the river in the late 18th Century in order for sea faring vessels to come straight to Glasgow. Shipping products and servicing clients across the world was on the doorstep of Glasgow's industries, providing bigger business and economic growth.



Illus 2
Working shot of site

Rutherglenbridge Mill itself appears in detail on the 1st Edition Ordnance Survey Map (1857). The Glasgow Reform Act Plans and Reports (1832) depict several buildings in the area, which may relate to the very early stages of the mill, or are completely unrelated. Further map regression identified that the plot of land for the mill was probably not developed prior to the 1820s/1830s and Fleming's map of 1807 shows a blank area of land.

By the time of publication of the 2nd Edition OS (1894) the mill had been completely demolished and replaced with tenement housing. This corresponds with the huge decline in the cotton industry by the 1850s across Glasgow.

3. RESULTS

3.1 Methodology

The objectives of the archaeological map strip and record was to further characterise, locate and interpret any remains encountered, preserving a record prior to its removal. In particular, the aim was to discover the cotton mill building's functions, modifications over time, changes in drainage/services, character, boiler types (through any boiler bases) in order to provide a rich insight into this period.

The excavation and recording system employed during fieldwork was based on the single context recording system and pro-forma context cards. A full list of context numbers is available in Appendix 1.

Site survey was carried out digitally using a Total Station Theodolite linked to a Tough-Note computer, in relation to the Ordnance Survey National Grid, although in addition all contexts were sketched and annotated on the reverse of their relevant context card. All sections were drawn by hand at a scale of 1:10 and located digitally. A photographic index was maintained on site of colour prints and slides. The full index of photographs is available in Appendix 1.

The machine excavation of the site began in the south west corner and moved north. All features and deposits were cleaned and recorded as the machining progressed. A second machine was used from week 2 which excavated the northern half of site in order to meet the deadline. Both machines were constantly monitored and directed by an archaeologist.

3.2 Results

In order to differentiate between areas on site the structures encountered that were associated with the mill build have been given building numbers 1–4 (Illus 2). For full context information please see the context register in Appendix 1.



Illus 3
1st Edition OS and site survey



Illus 4

Tenement concrete foundations

3.3 Phase 1 – Mill

The primary phase on site was the construction of the early 19th Century mill, as seen on the First Edition Ordnance Survey Town Plan.

Building 1

Building 1 includes the L-shaped structure seen on Illus 3 and any structure remnants at its west. Excavation of this area revealed a section of northwest wall of Building 1 – [116], which was constructed from header bonded red brick with stepped foundation. This wall abutted Building 2 wall [142] which continued north at the east of chimney [109]. Possibly an interior feature/inner structure related to [116] was a U-shaped section of wall [118]. This feature was constructed of similar unmarked red brick and had been reduced to a maximum of four courses as the concrete tenement foundation can be seen truncating this feature at its northern and eastern limits. (Illus 4)

Also within this area, just east of [118] a single skin stretched brick wall, orientated E-W, was recorded. Two smaller sections of wall, [120] and [125] were also recorded south of [118], aligned E-W. A stone capped culvert was located south of these features, at the southern limit of excavation. Similar in construction to those noted in Building 1 these are likely to be contemporary with the Mill build on site. Interestingly, although tenement remains were expected within this section of site, the deposits removed by the machine above these features comprised of modern backfill and demolition waste.

On the 1st Edition OS a circular structure can be seen in plan on the west side of Building 1. During excavation

this was revealed as a series of blonde sandstone slabs [121] arranged in a circle which structurally appeared to be the base of a stairwell. Directly west of this feature a section of blonde sandstone wall [130], orientated N-S, was identified. This matches with the rectangular structure seen on the 1st Edition. At its north a truncated area of tar surface [104] was revealed, within which the impressions of floor struts remain. This surface type is typically found on 19th century mill excavations, although its location of the survey appears to coincide with an external part of the mill. Unfortunately, due to the limits of excavation no more evidence could provide further information to this feature's function and relationship.

Services within Building 1 comprised of a red brick drain [108] and a stone capped culvert [107]. It is likely that both of these features were stone capped originally and either through the buildings demolition or the construction of the tenements some of this has been removed. Stone culvert [107] had been truncated by the tenements and only a 1m section of this feature was exposed. It ran approx. N-S, and roughly hewn blond sandstone slabs were located on top of a red brick (unstamped) culvert.

Building 2

Building 2 covers a small area, including a circular structure [109] and several walls. On the 1st Edition OS this area is a small cluster of buildings that bridge the gap between the main building (Building 3) and the southern building (Building 1).

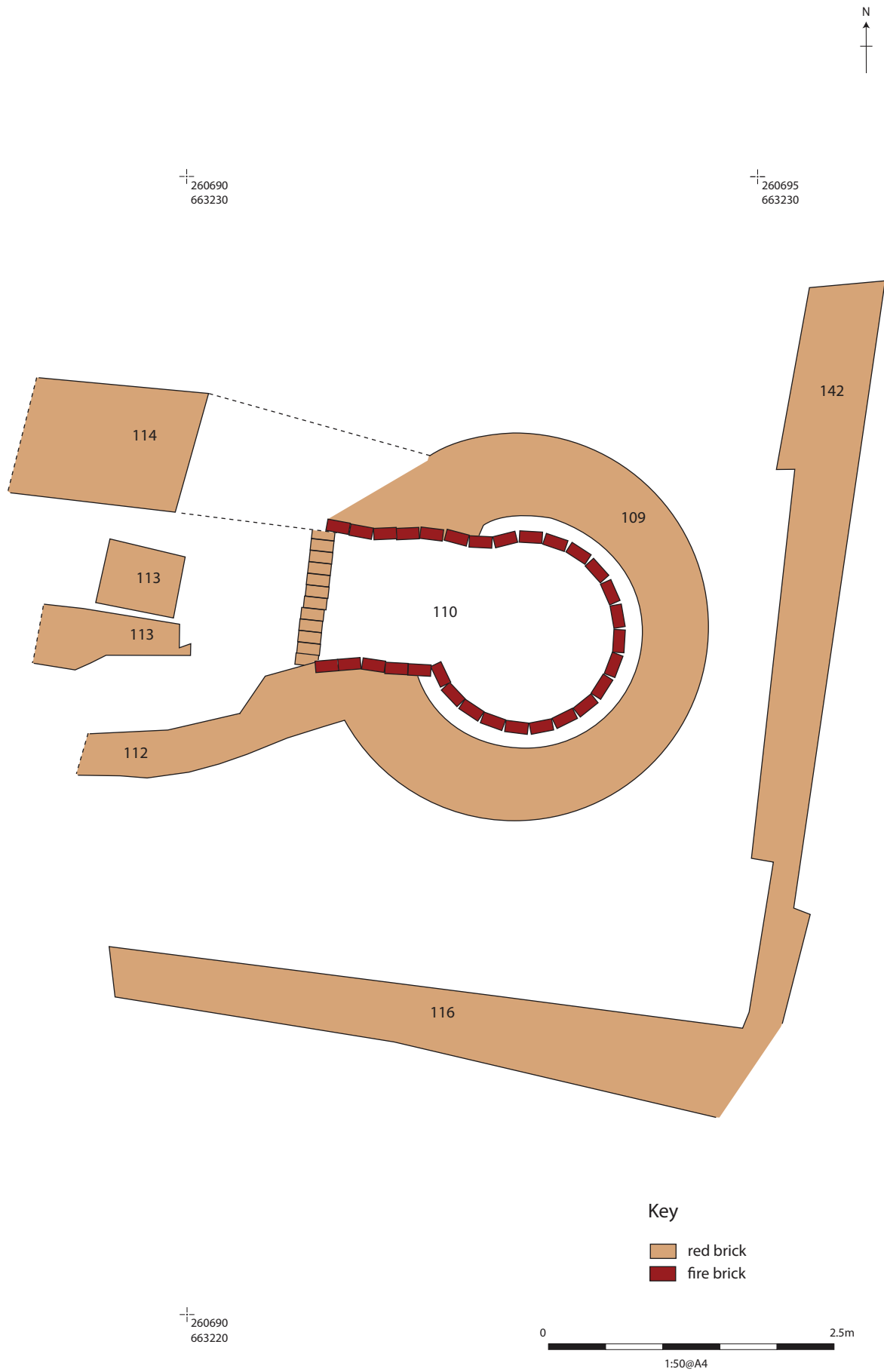
The circular feature, similar in size as [121] next to Building 1 was revealed and immediately interpreted as a chimney. The chimney base was located 1.5m north of wall [116] and had associated flues [109], [112], [113], [114]



Illus 5
Tar floor [104] in mill



Illus 6
Aerial view of chimney



Illus 7
Plan of chimney [109]

running west. These appeared to divert into two separate channels, perhaps indicating two separate destinations/ associated buildings. The feature is mainly constructed from red brick, some of which are marked with 'Patent Williamson Glasgow'. The chimney structure has been lined with white firebrick, as have the flues in order to withstand the extreme temperatures. Unfortunately due to the limits of excavation the area to the west was not fully exposed, therefore its direct relationship to any Engine House/other structure is unknown.

Building 3

Building 3 comprises one of the main mill buildings uncovered on site, located directly north of Building 2. It was revealed as substantial yellow sandstone foundations, located at both west ([136]), north ([198]) and south ([196]) of the building. In order to fully record the construction within this structure two trenches were excavated by machine, one orientated N-S, the other E-W. The building was built using large roughly hewn sandstone blocks (1.4m by 0.9m approx.) laid long side by side, stepped out (0.4m) from the main wall elevation. The wall elevations were constructed in one sandstone block width laid head to head, with some sections made up of two separate blocks. The internal sub floor space contained 3 support walls ([197], [203] & [240]) each running parallel with exterior walls at north and south. These were constructed from pink sandstone but were built in an identical fashion to the exterior. No floor remains were discovered within this section of the building.

The west end of the structural remains differs from the main, as the western perimeter wall [136] has a parallel wall 3m to its east, both running approx. N-S. These are a contemporary build with the other walls, with yellow sandstone used for the external and pink for the internal. Directly east of walls [136] a solid sandstone machine base was revealed, running parallel to walls. This roughly hewn block (2m x 0.7m x 1.1m) was deeply founded and had the marks of four metal fixings/ pegs used to attach the machine to the base.

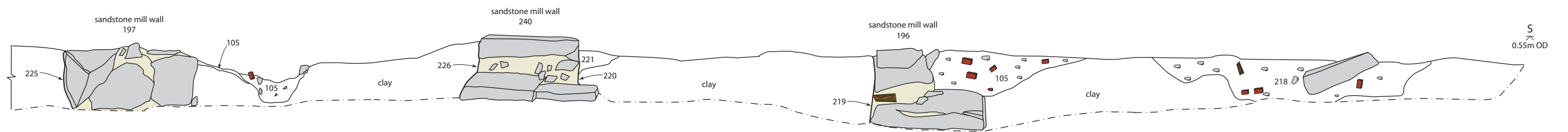
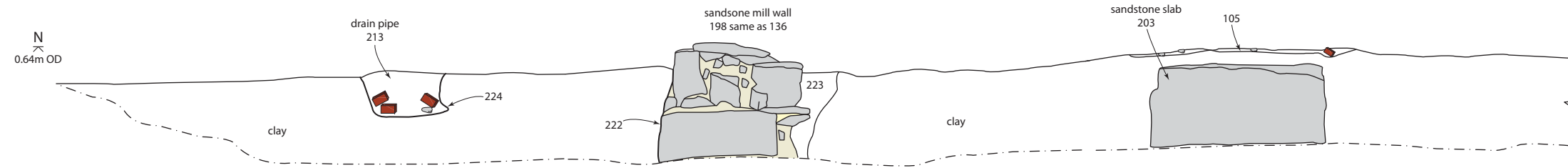
After the construction of the main walls the void areas were in-filled with a series of make-up deposits, including rubble material and re-deposited sand. Fragments of a rough tar floor were found above this at the east end of the structure, interpreted as a working surface at this end of the building. In addition to the main machine base a linear row of metal pegs [117] were excavated, rooted into the make-up deposits just east of the western perimeter wall [136].

Building 4





When looking at the First Edition OS Building 4 is the long narrow structure, located at the north west of site, orientated approx N-S. The archaeological remains in this area comprised of two brick thick red brick walls, running parallel. Several small sections of internal walls (contexts [166], [167] & [168]) were identified that are likely to be contemporary with this building phase, perhaps as floor supports. On the east side of Building 4 a small rectangular base [211] was uncovered which



Illus 8
South facing section through [156] & [158]

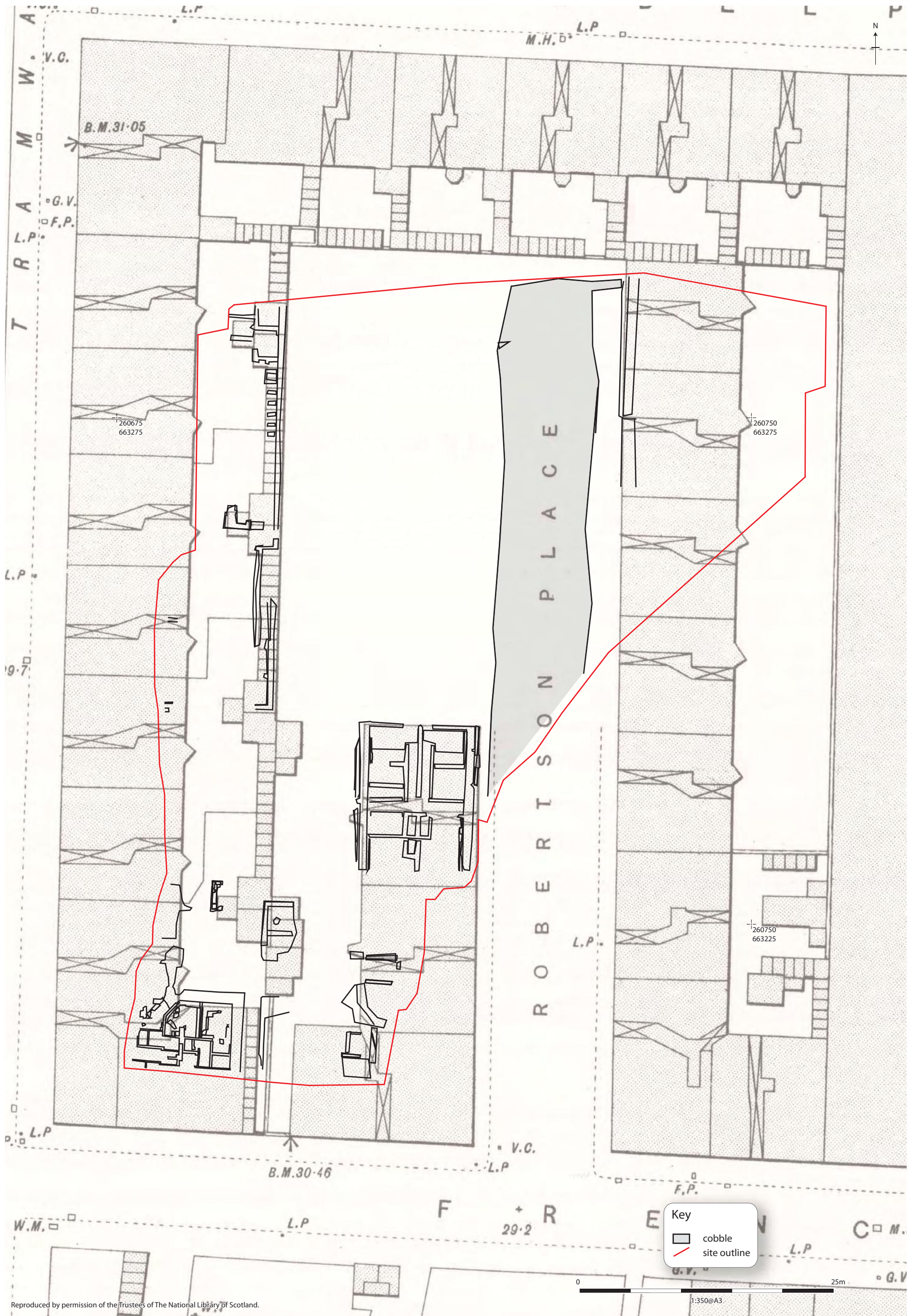


Key

-  brick
-  stone
-  wood
-  mortar



Illus 9
West facing section through mill



Reproduced by permission of the Trustees of The National Library of Scotland.

1:350@A3

Illus 10
2nd Edition OS and site survey



Illus 11
General view of Building 3 & 4

corresponds well with the 1st Edition OS. This feature was likely to have provided additional support to the east wall. It may not be part of the original build and with the level of preservation this is difficult to conclude. Perhaps as this structure deteriorated/aged the east wall was in need of additional support. The original red brick wall build seems unsubstantial for a building of such length, and although single storey perhaps the machinery within/vibrations etc caused it to lose structural integrity.

3.4 Phase 2 – Mill demolition

During Phase 2 it is unclear how much of the mill was demolished, due to the severity of the tenement destruction. It is possible that some of the main mill walls may have remained and been incorporated into the tenement build. However, the practicalities and likelihood of this remain unclear. The archaeological evidence is difficult to interrogate as across the site it has been reduced to one level. It is possible that this reduction occurred prior to tenement construction. However, on the most eastern tenement [195] there were no physical signs of the original mill sandstone foundations (at the

same level as concrete) having been built on (*i.e.* no staining, no mortar/concrete.)

3.5 Phase 3 – Tenements

Any evidence pertaining to the tenement build of the site in the late 19th century was not the focus of the archaeological map strip and record. However, all remains encountered were recorded and fully photographed.

Two main well preserved tenement buildings were encountered on the site, the first of which [101] was located at the southwest corner of site, fronting onto French Street. This comprised of an L-shaped rough concrete foundation [102], with a series internal red brick walls forming the subfloor structure of the building. The second [195], located at the southeast, was more completely exposed, with a full concrete grid. It is interesting that a lot of these walls clearly respect the mill walls and may have been shuttered against them during construction.

The tenement structures are visible on the 4th Edition Ordnance Survey and were therefore demolished. Demolition of structures at south east limit of excavation were thorough, hardly any remains survived. The overburden in this area was full of modern material and demolition waste. There were several

robber cuts in this area, which appeared roughly circular shaped in plan but this is probably due to the ‘tree bowl’ effect of removing large pieces of masonry/concrete – contaminating the natural.

Some evidence pertaining to the back garden walls/bin houses were discovered. Feature [156] was the best preserved, showing the individual compartments for each flat’s bin. Constructed of grey sandstone and orientated approx N-S this structure extended approx. 10m. A continuation of this feature ([174] & [205]) continued north up site, but was less well preserved.

3.6 Discussion

Overall, the site is relatively simple in terms of typical urban stratigraphy. After the initial build of the mill structures (Phase 1), the demise of the cotton industry led to the large sandstone structures being demolished (Phase 2). This was to make way for residential tenement houses that were constructed across Glasgow in the late 19th century (Phase 3).

Perhaps one of the most interesting parts of the site is the way in which the mill remains have in some ways added



Illus 12

Southwest tenement foundations – [102]

strength to the tenement build. For example, on the west wall of structure 3, the concrete foundation for the tenement abuts and runs the length of mill wall [136]. This respect of the earlier builds footprint is seen in several places across site, where tenement and mill meet. Due to the size and weight of the materials used to construct the mill it is no surprise that a large proportion of it remains *in situ*.

The 1st Edition Ordnance Survey combined with the archaeological remains provides two different views of certain features on site, allowing us to fill in a more comprehensive interpretation across the site. For example, the circular sandstone feature [121] at the south of site on the 1st Edition looks identical to the chimney base found just north [109]. The archaeological strip, map and record have enabled us to discern between these two features, as the former is typically a sandstone staircase. The possible stairwell, in the area of Building 1 helps indicate the use of space within the buildings of this area. In particular, a stairwell suggests that either Building 1 itself or the rectangular building to the right may have been at least two storeys high. Further comparisons of this and other similar structures would give a comprehensive view of spatial organisation of 19th century cotton mills.

The services ([107] & [108]) within Building 1 suggest that this area perhaps housed some of the industrial processes associated with the mill.

The chimney and associated flues at Building 2 could be furthered with comparison to other mills of this type.

Unfortunately, as the site boundary did not extend further west a large amount of possible information was missed that could tie in the chimney to the other structures. However, the information retrieved suggests that this area was the heart of the complex, and was likely to have a boiler house nearby.

Building 3 is perhaps the most interesting structure uncovered on site, partially as a large proportion of the building was revealed during the excavation. The solid sandstone construction and size of the materials used clearly portrays how prominent and working these complexes were. When looking into Building 3 (Illus 9) it is clear that some of the internal arrangement of the structure can be seen by examining the foundations on site. The pink sandstone internal walls are likely to represent ‘bays’ which would have supported cast iron pillars. This frame would have allowed horizontal beams to be fitted across the floor space, for fixing machinery or moving materials around. The majority of the structure is divided E-W, apart from the western section where a N-S divide occurs. The machine bays and pegs related to machinery suggest that this area held either power for the factory or large looms/cotton machinery.

The least well-preserved area of mill on site is that at the northwest, with the long thin structure reduced to 1 or 2 courses of brick (Building 4). The function of this shed like structure was possibly as storage, as the internal dimensions of the room do not provide adequate room for

machinery. It is possible that it was constructed for weaving or as an addition to the main complex but this is difficult to conclude from the evidence presented.

The process of map strip and record has enabled some insights into cotton mill buildings of this area, and gives more information to the general knowledge of the industry within Glasgow. Unfortunately, the level of demolition was severe in places and the site extents have limited our understanding of the site and related processes. It does show the typical scenario within industrial cities; as industrial complexes ceased to function they now lay buried underneath tenement and residential buildings, many of which still stand today. The importance of recording this site now is in preserving our history for future study.

4. FINDS ASSESSMENT

Julie Franklin

4.1 Finds summary

The assemblage numbered 16 sherds of pottery, two of glass, two coins and four sherds of clay pipe. Most of the finds are modern but for four sherds of post-medieval pottery. Highlights include two coins and a complete stoppered decorative perfume bottle still with a faint smell of perfume discernible inside.

4.2 Discussion

The earliest finds were unfortunately un-stratified. These were four sherds of locally made pottery dating to the 16th or 17th centuries.

Stratified finds came from three contexts. The majority were from context [105] and were possibly deposited the 19th century. The pottery, glass, clay pipe and coin all point towards the second half of the 19th century, the coin giving a *terminus post quem* of 1861. The finds from contexts [104] and [145] were of 20th century date, a 1936 penny and an Avon perfume bottle respectively.

5. SOURCES

5.1 Bibliography

- Fraser, W.H. & Maver, I., 1996, *Glasgow* [vol. II: 1830 to 1912], Manchester University Press.
- Headland Archaeology Ltd, 2010, *Results of an archaeological evaluation at Main Street, Bridgeton, Glasgow*. Unpublished client report.
- Hume, J.R., 1974, *The Industrial Archaeology of Glasgow*. Blackie & Son Limited.
- Hume, J.R., 1976, *The Industrial Archaeology of Scotland. The Lowland and Borders*. Butler & Tanner Ltd.
- Hume, J.R., 1990, *Scotland's Industrial Past National Museums of Scotland*.
- Small, S., 2008, *Greater Glasgow. An illustrated Architectural Guide*.

5.2 Maps

- 1807, Fleming, *Map of the City of Glasgow and suburbs*. Glasgow: s.n.
- 1832, Great Reform Act Plans and Reports, *Map 29*.
- 1858, Ordnance Survey, *Ordnance Survey First Edition Large Scale Town Plan*. Glasgow, VI.15.19, scale 1:500.
- 1893, Ordnance Survey, *Ordnance Survey Second Edition Large Scale Town Plan*. Glasgow, VI.15.20, scale 1:500

5.3 Internet sources

- Clydeport, 2010, <http://www.clydeport.co.uk/cms_uploaded/CP_down_History_clyde.pdf>, November 2010
- Glasgow History, 2010, <<http://www.glasgowhistory.co.uk/Books/Bridgeton/BridgetonChapters/HistoricalBackground.htm>>, November 2010

APPENDICES

Appendix 1 – Site registers

Context register

Context no.	Area	Description
101	A	Brick tenement foundations
102	A	Concrete tenement foundations
103	A	Sandstone wall foundations, very loose
104	A	Tar surface
105	A	Overburden in Area A
106	A	Brick wall foundations – mill
107	A	Stone culvert slabs
108	A	Brick flue? – probably mill
109	A	Chimney of mill
110	A	Demolition material filling [109]
111	A	Stone slab surface/yard E of [109]
112	A	Curved brick wall running W from [109]
113	A	Brick built flue for [109]
114	A	Brick wall
115	A	Sandstone wall N-S next to [109]
116	A	Brick wall – mill buildings
117	A	Machine base
118	A	Red brick wall – probably mill, same as [106]
119	A	Sandstone slabs
120	A	Red brick wall – probably mill
121	A	Sandstone slab surface
122	A	Sandstone surface
123	A	Tenement foundations
124	A	Square brick/sandstone feature
125	A	Red brick wall
126	A	Tenement brick wall foundation
127	A	Red brick floor
128	A	Drainage/sewer pipe
129	A	Deposit layer under red brick floor [127]
130	A	Mill sandstone floor surface
131	A	Red brick wall
132	A	Red brick floor surface
133	A	Red brick floor surface
134	A	Concrete floor surface/foundations
135	A	Stone brick floor surface
136	A	Sandstone wall with entrance way

Context no.	Area	Description
137	A	Red brick built feature
138	A	Foundations for mill
139	A	Slabbed surface W of wall [141]
140	A	Brick surface to W of [136]
141	A	Wall running E-W to W of [136]
142	A	N-S running wall of mill to E of [109]
143	A	Concrete foundations
144	A	Tar surface
145	A	Overburden over mill remains (rubble <i>etc.</i>)
146	A	Floor surface under tar
147	A	Foundation wall/divide in [136]
148	A	Single stone slab in N area [136]
149	A	Brick foundations of [148]
150	A	Concrete deposit S end of [136]
151	A	Sandstone wall/surface
152	A	Tar surface
153	A	Red brick wall – probably mill
154	A	Red brick wall running N-S, probably mill
155	A	Two large sandstone slabs, floor/surface
156	A	Sandstone blocks alongside [154] – probably mill
157	A	Sandstone wall abuting [136] running E-W
158	A	Machine base (sandstone)
159	A	Sandstone block
160	A	Concrete surface/foundations
161	A	Concrete surface/foundations
162	A	Red brick wall
163	A	Red brick wall S of [165]
164	A	Red brick wall S of [165]
165	A	Red brick wall foundations
166	A	Brick wall off N side of [165]
167	A	Brick wall off N side of [165]
168	A	Degraded concrete surface
169	A	Small concrete machine base
170	A	Small concrete machine base
171	A	Surface
172	A	Surface connected to [160]
173	A	Post hole feature
174	A	Wall running N-S
175	A	Red brick wall of mill
176	A	Cut of large modern pit

Context no.	Area	Description
177	A	Demo backfill of [176]
178	A	Cut of modern pit
179	A	Demolition backfill of [178]
180	A	Cut of modern pit
181	A	Demolition backfill of [180]
182	A	Brick wall
183	A	Large sandstone slab/block
184	A	Red brick wall
185	A	Degraded modern surface
186	A	Large concrete slab
187	A	Red brick wall
188	A	Concrete foundations for tenements at N
189	A	Tar surface
190	A	Cobbled road running N-S along Robertson Pl.
191	A	Surface area
192	A	Surface area
193	A	Large tenement construction/demolition cut on west of site
194	A	Cobbled road surface
195	A	Tenement foundations
196	A	Mill wall
197	A	Mill wall
198	A	Mill wall
199	A	–
200	A	Brickwall running E-W, west of [160]
201	A	Brickwall running E-W, west of [160]
202	A	Brickwall running E-W, west of [160]
203	A	Mill foundation wall
204	A	Crushed brick wall running N-S
205	A	Sandstone mill wall foundations
206	A	Red brick foundations
207	A	‘Soot’/mixed deposit within chimney [109]
208	A	Red brick foundations (see [206])
209	A	Red brick foundations (see [206])
210	A	Red brick foundations (see [205])
211	A	Rectangular sandstone slab associated with [206]/[208]/[209]
212	A	Truncation cuts within [193]
213	A	Drain pipe running E-W
214	A	Surface near cuts [212]
215	A	Brick wall near [212]

Context no.	Area	Description
216	A	Backfill of [212]
217	A	Red brick wall of mill [217]
218	A	Spread of black demolition effected clay
219	A	Robber cut of [196]
220	A	Cut for wall [240]
221	A	Fill of construction cut [220]
222	A	Construction cut for wall [198]
223	A	Fill of construction cut [222]
224	A	Construction cut for [213]
225	A	Robber cut for wall [197]
226	A	Red brick foundation/drain?
227	A	Backfill of cut [219]
228	A	Natural redeposited clay underlying [156]
229	A	Cut of drainage ditch (section # 7)
230	A	Natural clay
231	A	Black tar deposit
232	A	Brick wall (Gable end)
233	A	Backfill in drain cut [229]
234	A	Black tar, fine gravelly deposit under [228]
235	A	Redeposited natural (under [231])
236	A	Crushed red brick underlying [235]
237	A	Construction cut for [158]
238	A	Modern infill of [237]
239	A	Brickwork at east of [136]
240	A	Internal mill wall – similar to [197]
241	A	Black demolition deposit

Photo register

Photo no.	Direction facing	Description
001	E	General shot, south end of excavation
002	S	General shot SW excavation
003	N	General shot SW excation – working shot
004	N	General shot SW excavation
005	SW	Working shot
006	S	Tenement excavation
007	N	Working shot
008	N	Working shot
009	E	Working shot
010	E	Shot of tenements [101] – see dwg # 001
011	N	Shot of tenements [101] – see dwg # 001

Photo no.	Direction facing	Description	Photo no.	Direction facing	Description
012	S	Shot of wall underlying concrete wall	047	N	Detail shot of foundation wall [123]
013	N	Sandstone slabs next to tenements	048	SSW	General shot of sandstone slab floor [121]
014	N	Shot of cut for service pipe	049	W	General shot of sandstone block surface [122]
015	S	Shot of cut for service pipe	050	N	Tarmac surface W side excavation extent
016	N	Shot of tenements [101] – see dwg # 001	051	S	Red brick wall [125]
017	S	Shot of tenements [101] – see dwg # 001	052	W	Red brick and cement tenement wall foundation [123]
018	S	Tar surface [104]	053	W	Red brick floor [127]
019	E	Sandstone wall	054	E	Drainage pipe [128]
020	N	Sandstone wall	055	N	Deposit [129]
021	E	Demolition [110] in chimney [109]	056	W	Sandstone slab surface Building 1 [130]
022	W	N-S section showing chimney/cut to N of [109]	057	E	Tarmac surface and sandstone wall W end of excavation
023	N	Chimney and drainage pipe	058	S	Sandstone structure with entrance and floor
024	S	General shot of Area A (inc. floor)	059	W	Red brick surface W half of Building 1 [132]
025	W	Shot of floor extent (Area A)	060	S	Red brick surface W half of Building 1 [133]
026	N	General shot Area A with chimney to left	061	N	Red brick wall [131]
027	E	Working shot taking down tenements	062	W	Foundations [134]
028	S	Working shot taking down tenements	063	W	Brick floor [135]
029	N	General shots of area to southern extent of site	064	S	Red brick built feature [137]
030	N	General shots of area to southern extent of site	065	S	Tenement foundations [138]
031	E	Shot of pegs/machine base [117]	066	–	Working shot to use film
032	NE	Shot of pegs/machine base [117]	067	–	ID shot – Film 5
032a	W	Flue [113], Area A	068	E	Shot of [136] and concrete deposit [150]
033	SW	Wall [112] and flue [113], Area A	069	E	Shot of tar surface [152]
034	N	Side of wall [114] showing soot from flue	070	S	Shot of sandstone blocks [155]
035	–	ID shot – Film 4	071	N	Red brick wall running N-S [154]
036	W	East facing elevation wall [115]	072	W	Detail shot of part of S half of brick wall [154]
037	E	West facing elevation wall [115]	073	W	Detail shot of part of N half of brick wall [154]
038	SE	Oblique shot of wall [116] showing construction	074	S	Shot facing south of red brick wall [154]
039	W	General shot of area to southern extent of site	075	S	Shot of sandstone block surface/wall [156]
040	S	General shot of area to southern extent of site	076	S	Shot of southern half of surface [156]
041	W	General shot of area N of SE extent of site	077	E	Shot of west facing side of sandstone surface/wall [156]
042	S	Working shot of brick surface	078	N	Wall [157]
043	W	Detail shot of brick wall [118]	079	W	Wall [157] and [136]
044	N	Detail shot of sandstone drain [119]	080	W	Machine base [158]
045	N	Detail shot of brick wall [120]	081	E	Machine base [158] and walls [136] + [156]
046	W	General shot of square brick(sandstone feature [124])	082	E	Finds collection (Fe) associated with [138]

Photo no.	Direction facing	Description	Photo no.	Direction facing	Description
083	N	Concrete surface [160] + sandstone block [159]	119	NEE	Shot of sandstone wall overlying chimney
084	E	Showing shuttering of concrete surface [160]	120	N	Shot of cobbled road surface [194]
085	W	Concrete surface [160] + [161] with red brick features [162] + [172]	121	S	Shot of cobbled road surface [194]
086	S	Degraded surface and base [168] + [169]	122	E	Shot of buildings/demolition along route of road
087	NE	Working shot	123	E	Shot of buildings/demolition along route of road
088	E	Walls [163] + [164], N side of [165]	124	NW	General shot of tenement flats [195] foundations
089	N	Walls [163] + [164], N side of [165]	125	S	General shot of tenement flats foundations [195]
090	S	Walls [166] + [167], S side of [165]	126	E	General shot of tenement flat foundations [195]
091	S	Walls [166] + [167], S side of [165]	127	N	General shot of western half of tenement foundations [195]
092	N	Post hole type feature [173]	128	N	General shot of western half of tenement foundations 195
093	W	Tar surface [171]	129	W	Shot of mill wall [196]
094	W	Machine base [170]	130	E	Shot of mill wall [196]
095	E	Sandstone wall [178]	131	W	Shot of mill foundation walls [197]
096	W	Red brick wall of mill [175]	132	E	Shot of southern half of mill foundation walls [197]
097	E	Red brick foundations [165]	133	E	Shot of N half of mill foundation walls [197]
098	N	Red brick foundations [165]	134	E	Shot of mill wall 198 same as [136]
099	S	Overburden relating to tenements and some surface, N of site	135	S	Shot of mill wall 198 same as [136]
100	SE	General shot, N of site.	136	W	Shot of mill wall 198 same as [136]
101	–	ID shot	137	–	General working shot
102	NW	Modern cut of pit [176]	138	–	General working shot
103	NNW	Working shot – Tenement foundations	139	–	ID shot – Film 7
104	SW	Working shot	140	E	Shot of west section of mill wall foundation [203]
105	S	Small modern cut [178] southern extent of site	141	E	Shot of mid section of mill wall foundation [203]
106	E	Small modern cut [180] SE extent of site	142	W	Shot of east section of mill wall foundation [203] incl. drainpipe
107	SW	Crushed brick tenement wall foundation [182]	143	N	Shot of redbrick/concrete wall [204]
108	E	Long rectangular sandstone wall foundation [186]	144	E	Detail shot of red brick/concrete wall [204]
109	N	Small red brick wall [187]	145	–	General areial photograph
110	WSW	Modern surface area SE extent of site [191]	146	N	Shot of road [194] + [136]
111	S	Modern surface area SE extent of site [192]	147	N	Shot of road [194] + [136]
112	N	Large sandstone block [183]	148	S	Shot of road [194] + [136]
113	S	Red brick walls [184]	149	S	Shot of road [194] + [136]
114	W	Modern deposit [185]	150	E	Shot of chimney [109] with soot deposit [207]
115	SE	General shot of southern extent of site			
116	NE	Working shot of northern extent of site			
117	W	General shot of S extent of site			
118	NNW	General shot of S extent of site			

Photo no.	Direction facing	Description	Photo no.	Direction facing	Description
151	E	Shot of chimney base [109] with soot deposit [207]	182	E	East facing section through mill walls orientated E-W [136]/[198]/[197] <i>etc.</i>
152	W	Shot of chimney base [109] with soot deposit [207]	183	E	East facing section through mill walls orientated E-W [136]/[198]/[197] <i>etc.</i>
153	NNW	Shot of wall [112] and chimney [109] with brick 'make up'	184	E	East facing section through mill walls orientated E-W [136]/[198]/[197] <i>etc.</i>
154	NNW	Shot of wall [112] and chimney [109] with brick 'make up'	185	W	Wall [198]/[136] running E-W, mill wall
155	-	ID shot - Film 8	186	W	Wall [203] extended eastwards
156	E	Shot of drain pipe [213]	187	NW	General shot of wall [198]/[136] and [203]
157	W	Sandstone plinth [211]	188	N	South facing sections through [136], [158], [156] at east end
158	S	Sandstone wall at north end of site [205]	189	N	South facing section through [136], [143] at west end
159	S	Red brick walling [206]/[208]/[209]	190	-	ID shot - Film 9
160	E	Red brick walling [206]	191	S	North facing section of E-W sondage through [136]
161	E	Red brick walling [208]	192	S	North facing section of E-W sondage through [136]
162	E	Red brick walling [209]	193	S	North facing section of E-W sondage through [136]
163	E	Chimney of mill [109]	194	N	General shots of south facing section through sondage 2
164	W	Flue [113] of chimney [109]	195	N	General shots of south facing section through sondage 2
165	E	Detail of flue [113] and chimney [109]	196	N	General shots of south facing section through sondage 2
166	W	Detail of flue [113]	197	S	North facing section through [205], [208], [211]
167	W	Return wall of [205]	198	S	Red brick foundations north of [213]
168	S	Wall [171] running N/S	199	NW	Drain [213]
169	W	East facing section through mill walls orientated E-W [136]/[198]/[197] <i>etc.</i>	200	W	[197] post-ex shot
170	W	East facing section through mill walls orientated E-W [136]/[198]/[197] <i>etc.</i>	201	W	[157] post-ex shot
171	W	East facing section through mill walls orientated E-W [136]/[198]/[197] <i>etc.</i>	202	W	196 post-ex shot
172	W	East facing section through mill walls orientated E-W [136]/[198]/[197] <i>etc.</i>	203	-	General site working shots
173	W	East facing section through mill walls orientated E-W [136]/[198]/[197] <i>etc.</i>	204	-	General site working shots
174	W	East facing section through mill walls orientated E-W [136]/[198]/[197] <i>etc.</i>	205	-	General site working shots
175	W	East facing section through mill walls orientated E-W [136]/[198]/[197] <i>etc.</i>	206	-	General site working shots
176	W	East facing section through mill walls orientated E-W [136]/[198]/[197] <i>etc.</i>	207	-	General site working shots
177	W	East facing section through mill walls orientated E-W [136]/[198]/[197] <i>etc.</i>	208	-	General site working shots
178	NW	Working shot	209	-	General site working shots
179	E	East facing section through mill walls orientated E-W [136]/[198]/[197] <i>etc.</i>	210	-	General site working shots
180	E	East facing section through mill walls orientated E-W [136]/[198]/[197] <i>etc.</i>	211	-	General site working shots
181	E	East facing section through mill walls orientated E-W [136]/[198]/[197] <i>etc.</i>	212	-	General site working shots
			213	-	General site working shots
			214	-	General site working shots

Photo no.	Direction facing	Description
215	–	General site working shots
216	–	General site working shots
217	–	General site working shots
218	–	General site working shots
219	–	General site working shots
220	–	General site working shots
221	–	General site working shots
222	–	General site working shots
223	–	General site working shots
224	–	General site working shots
225	–	General site working shots
226	–	General site working shots
227	–	General site working shots
228	–	General site working shots
229	–	General site working shots
230	–	General site working shots
231	–	General site working shots
232	–	General site working shots
233	–	General site working shots
234	–	General site working shots
235	–	General site working shots
236	–	General site working shots
237	–	General site working shots
238	–	General site working shots
239	–	General site working shots
240	–	General site working shots
241	–	General site working shots
242	–	General site working shots
243	–	General site working shots
244	–	General site working shots
245	–	General site working shots
246	–	General site working shots
247	–	General site working shots
248	–	General site working shots
249	–	General site working shots
250	–	General site working shots
251	–	General site working shots
252	–	General site working shots
253	–	General site working shots
