

Discovery and Excavation in Scotland

Updated on 15/06/2007

LOCAL AUTHORITY:	West Dunbartonshire
PROJECT TITLE/SITE NAME:	Dumbarton Castle: French Prison
PROJECT CODE:	HSCO-90107-2007-01 & HSCO-90107-2007-02
PARISH:	Dumbarton
NAME OF CONTRIBUTOR:	Alan Radley
NAME OF ORGANISATION:	Kirkdale Archaeology
TYPE(S) OF PROJECT:	Watching brief
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START DATE (this season)	6 November 2006
END DATE (this season)	9 March 2007
PREVIOUS WORK (incl. <i>DES</i> ref.)	Stewart, D (2005 k) 'Dumbarton Castle, West Dunbartonshire (Dumbarton parish), evaluation; watching brief', Discovery Excav Scot, 6, 2005, 141-142,
MAIN (NARRATIVE) DESCRIPTION: (May include information from other fields)	<p>A small excavation and assessment took place over four days at Dumbarton Castle during November 2006. The French Prison had been deteriorating badly and this was particularly evident in the badly cracked west wall of the east ground floor room and east wall of the small room at the base of the stairs. To investigate these problems two trenches were opened - one to investigate the wall foundations in the east room, and the other to examine the base of the stairs. The excavations revealed an earlier floor level, probably dating to the first half of the 20th Century, and also deposits associated with levelling for, and the construction of, the French Prison (1795). The north part of the trench in the east room was excavated as far as bedrock and it was discovered that only the north wall as built directly onto bedrock, with the other walls built onto imported levelling material. This appeared to be the cause of the slumping and subsequent cracking of the walls.</p> <p>These trenches showed evidence of the installation of a timber floor and confirmed the sloping or terraced nature of the bedrock, dropping steeply from N to S. Levelling material up to 1.5m deep was imported towards the S of the trench to form a platform for the late 18th-century building campaign.</p> <p>A further visit comprising excavation and assessment took place outside the French Prison during February and March 2007. Trenches were excavated along the length of the S wall and W wall. The former was dug to a depth of 800mm and revealed evidence of medieval industrial activity. The other trench was dug to a depth of 700mm and revealed traces of a toilet block apparently demolished before 1928 on the basis of photographic evidence.</p>
PROPOSED FUTURE WORK:	
CAPTION(S) FOR ILLUSTRS:	
SPONSOR OR FUNDING BODY:	Historic Scotland
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Discovery and Excavation in Scotland

Updated on 15/06/2007

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ARCHIVE LOCATION (intended/deposited)	Archive to be deposited in NMRS

Dumbarton Castle (French Prison): Archaeological Excavation and Assessment, November 2006

Figure 1 consists of three panels. The top-left panel is a detailed archaeological site plan of the excavated area, oriented with South (S) at the top and North (N) at the bottom. The plan shows various features labeled with numbers: 011, 012, 013, 014, 015, 016, 017, 018, 019, 020, 021, 022, 023, 024, 025, 026, 027, 028, 029, 030, 031, 032, 033, 034, 035, 036, 037, 038, 039, 040, 041, 042, 043, 044, 045, 046, 047, 048, 049, 050, 051, 052, 053, 054, 055, 056, 057, 058, 059, 060, 061, 062, 063, 064, 065, 066, 067, 068, 069, 070, 071, 072, 073, 074, 075, 076, 077, 078, 079, 080, 081, 082, 083, 084, 085, 086, 087, 088, 089, 090, 091, 092, 093, 094, 095, 096, 097, 098, 099, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200. The plan also shows a large rectangular feature labeled 011, a smaller rectangular feature labeled 012, and a large circular feature labeled 013. The bottom-left panel is a photograph of the excavated site, showing a large rectangular pit with a wooden crosshair and a vertical measuring rod placed inside. The bottom-right panel is a photograph of the site plan, showing the layout of the site with various features labeled with numbers.

1 March 2007
Kirkdale Archaeology

<u>Site</u>	Dumbarton Castle (French Prison)
<u>N.G.R</u>	NS 3996 7453
<u>Project Description</u>	Archaeological excavation and assessment
<u>Project code</u>	HSCO-90107-2006-02

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SUMMARY: A small excavation and assessment took place over four days at Dumbarton Castle during November 2006. The French Prison had been deteriorating badly and this was particularly evident in the badly cracked west wall of the east ground floor room and east wall of the small room at the base of the stairs. To investigate these problems two trenches were opened - one to investigate the wall foundations in the east room, and the other to examine the base of the stairs. The excavations revealed an earlier floor level, probably dating to the first half of the 20th Century, and also deposits associated with levelling for, and the construction of, the French Prison (1795). The north part of the trench in the east room was excavated as far as bedrock and it was discovered that only the north wall was built directly onto bedrock, with the other walls built onto imported levelling material. This appeared to be the cause of the slumping and subsequent cracking of the walls.

1.0 INTRODUCTION

Under the terms of its call-off contract with Historic Scotland, Kirkdale Archaeology was asked to undertake a small excavation in the French Prison at Dumbarton Castle in order to investigate the deterioration of the foundations of the W wall in the E room (Trench 1) and the base of the stairs (Trench 2). The excavation was carried out in advance of work to repair or replace the foundations to prevent further deterioration. This work was carried out 6-9 November 2006.

Although there has been a fortress on Dumbarton Rock since 450AD the French Prison was constructed much later. In 1795 the N gate to the castle was blocked and replaced by the Duke of York's Battery and the French Prison was erected. The military left the castle in 1865 but returned in 1914 with the onset of the First World War.

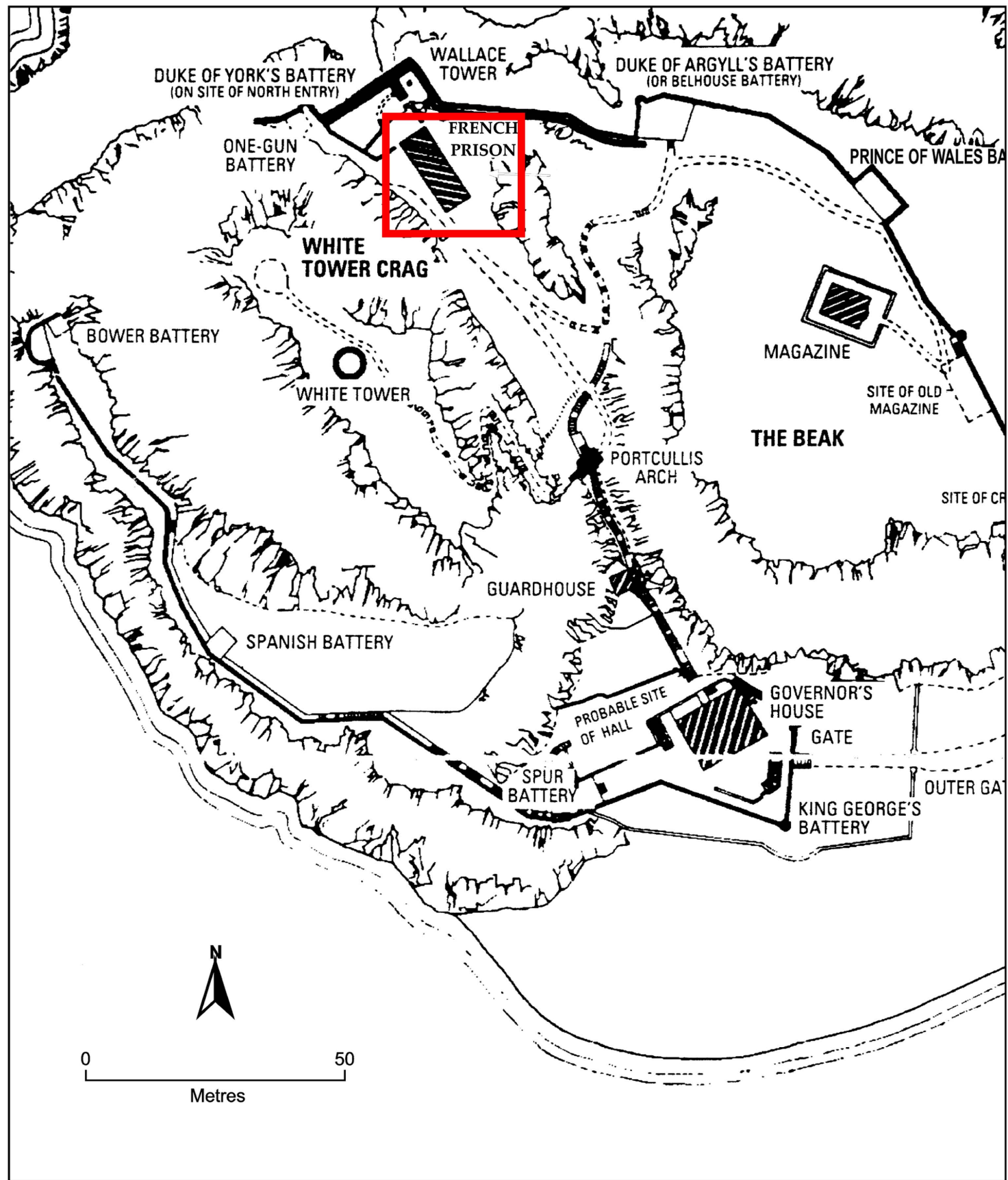


Fig. 1 : Plan of Dumbarton Castle showing location of French Prison

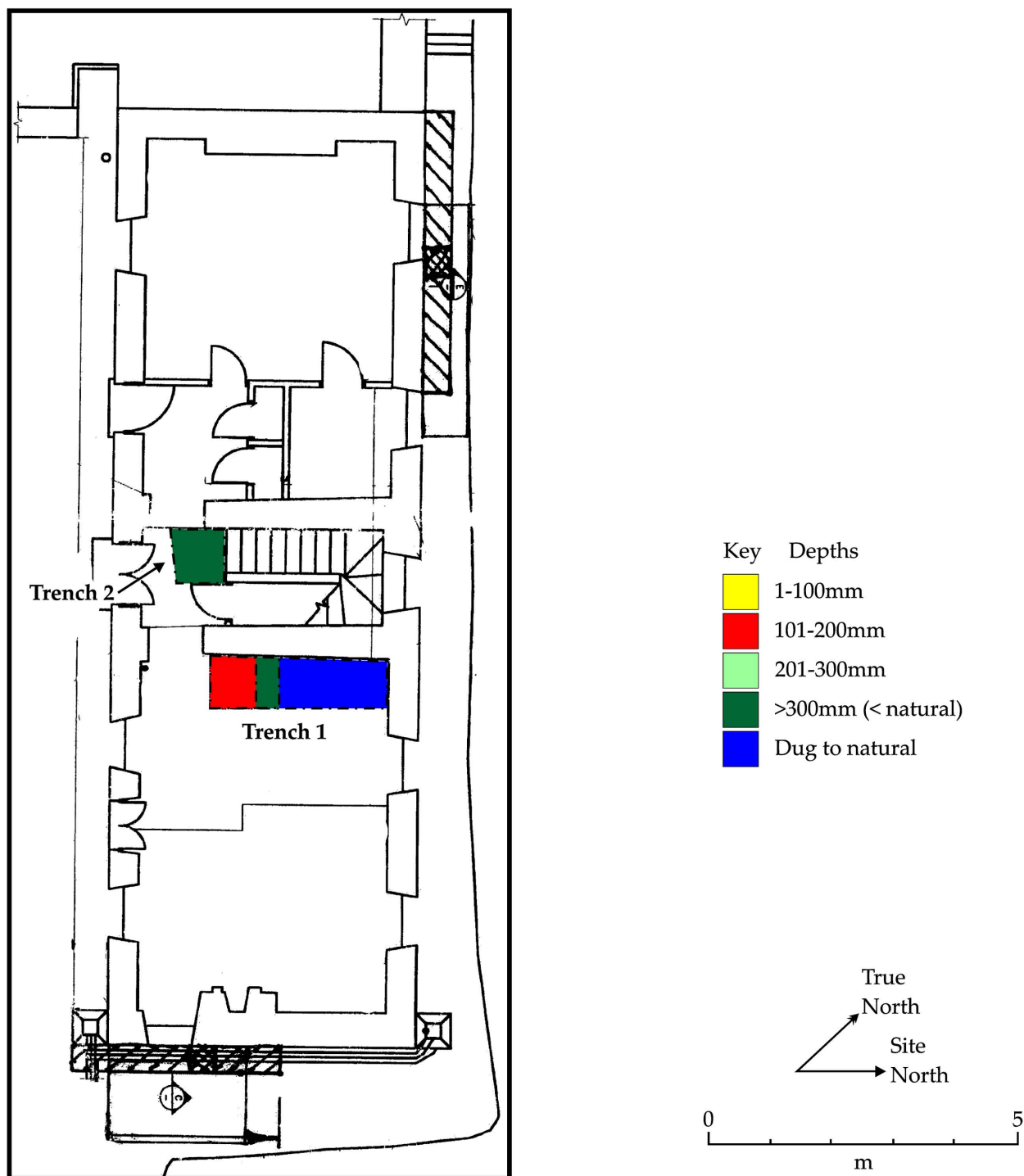


Fig. 2 : Plan of French Prison showing location and depth of Trenches 1& 2

2.0 DESCRIPTION

2.1 Trench 1

Trench 1 was parallel to the W wall of the E room and measured 3.30 m N-S, 800 mm E-W and up to 1.50 m deep. Prior to excavation the stone slab floor was removed. Only in the northernmost 1.50 m of the trench were all of the deposits excavated; elsewhere the excavation was only to a depth where the bottom of the wall structure was revealed.

The upper deposit, **(101)**, was loose, light-mid brown, gritty sand with 5-10%, 20-60 mm diameter, stones. Below **(101)** was **(102)**, loose, yellow/brown mortar and stones (30% stones measuring 60 mm by 40 mm on average) with some brick fragments.



Plate 1 : Trench 1 - showing deposits below W wall, taken from E

Toward the S end of the trench **(104)** was an E-W aligned wall formed with rectangular sandstone blocks at the base with a single line of two courses of bricks over them, 120 mm wide by 200 mm wide at the base. The pointing in **(104)** was hard, sandy cement. Immediately E of and parallel to the W wall **(106)** there were two courses of bricks **(105)** pointed with hard, grey, sandy cement. **(105)** measured 2.30 m N-S, was not present in the N end of the trench, and ended at cut **(122)**. Cut

(122) measured 140 mm N-S, 130 mm wide and 270 mm deep. The loose, dark grey, silty fill was removed with silt (107). There were also two courses of red bricks pointed with hard, grey, sandy cement (124), aligned E-W along the N end of the trench, against the N wall, and an area of red bricks bonded with light brown, gritty, mortar (112) on the northernmost 800 mm of the wall up to a maximum height of c 2.0 m. Each brick measured 230 mm by 90 mm thick and the outer face of (112) was whitewashed. At the S edge of the junction of (112) and (113) there was a void (109) measuring up to 650 mm high, 400 mm N-S and 150 mm deep.

The bottom part of the W wall face, (106), was formed from roughly rectangular, basalt blocks measuring 120 mm by 80 mm thick on average. The pointing in (106) was hard, pale grey, sandy mortar. Approximately 300 mm above the present ground surface and extending up a further 900 mm was an area of the wall face (110) coated with a 20 mm thick layer of smooth plaster. The upper 1.60 m of the wall face, (111), appeared as rectangular stone blocks and lumps of plaster that were coated with whitewash. On the upper part of the N end of the wall there was an area of the wall face (113) coated with the same plaster as seen at (110). (113) measured 1.10 m high and 750 mm N-S. At the base of the N end of the trench, against the bedrock, there were roughly rectangular, basalt blocks (123) cut by (122) to the S. Between 300 mm and 500 mm above the current ground surface, (108) was a band of dark green painted decoration over (110). Cut by (104) and sealed by (105) there was a 20-30 mm thick deposit of compact, yellow/brown, gritty mortar (103). (105) formed a flat surface in the S part of the trench; the N edge was ragged.

In Trench 1, all of the earliest deposits were seen in the deeper part of the trench that extended 1.50 m S from the N wall which was excavated to a depth of 1.50 m. Bedrock was reached in all but the southernmost 300 mm of the deeper part of the trench. Below (106) and (123), (107) was a deposit of loose, dark grey, sandy silt with many stone grits, some small stones and occasional flecks of mortar and charcoal. (107) was up to 350 mm thick and sealed (115). Deposit (115) was a 200 mm thick, loose mix of orange-brown clay and mid-dark brown, slightly silty clay. Sealed by (115), loose, grey-brown, clayey silt (121) included 15-20% small stones and some lumps of coal. (121) measured up to 250 mm in thickness and sealed (117). (117)

comprised coal lumps and charcoal (60-70%) with mid-grey, silty clay and measured up to 60 mm in thickness. Immediately under (117) was a mix of sub-rectangular stones (116) measuring 80 mm by 50 mm on average (70%) and mid-brown clay with charcoal and coal flecks throughout. (116) was up to 200 mm in thick.

At the base of the S part of (116) was a 20 mm thick, fairly loose deposit of sticky, mid-dark brown, clayey silt (119). Sealed by deposit (119) was a stone free deposit of red-brown, sandy clay (118) measuring up to 140 mm thick. (118) sealed (120), waterlogged, sticky, dark brown/black, silty clay and this bottomed onto bedrock (114) to the N. 150 mm to the S (120) was removed but it was not bottomed. The bedrock was seen at the current ground level immediately inside the N wall dropping 1.50 m, in two rough steps, 1.50 m to the S.

2.2 Trench 2

Trench 2 was located in the small vestibule to the S of the base of the stairs and measured 900 mm N-S, 900 mm E-W by up to 1.10 m deep.

The bottom step of the stairway (209) measured 900 mm E-W and was 200 mm thick, formed with a single stone that had cracked toward the E end and was very worn in the middle, dipping down up to 80 mm from the sides. The uppermost deposit excavated, immediately under (209), was a deposit of stones and very loose, dark brown, clayey silt (201) (60% sub-rectangular stones 80 mm by 60 mm on average) up to 100 mm thick. At the base of (201) was a patchy deposit of yellow/brown mortar (202) with small fragments of brick and occasional coal and charcoal flecks.

At the W edge of the trench there were two courses of stone (208), measuring 500 mm high, bonded with yellow/brown mortar. The upper course in (208) comprised neatly cut slabs measuring 800 mm N-S and 200 mm thick on average and the lower ones were roughly rectangular and up to 600 mm by 400 mm thick. Below (208) and (202), there was a compact, dark brown/black, silty clay (203) with abundant coal dust and lumps as well as fragments of brick, plaster and flecks of mortar, and beneath this in the N half of the trench was a 10 mm thick deposit of orange-brown mortar (204). (204) was directly over (205) in the N half of the trench. (205) was a very compact deposit of ash, coal, brick fragments and charcoal measuring 25 mm

thick. Below (205) and also in the N part of the trench, was an 80 mm thick deposit of very compact, red-brown, gravelly silt (206) with flecks of charcoal, coal and mortar. The primary fill of the trench was loose, dark brown, clayey silt 207 with many (approximately 30%) sub-angular stones, up to 200 mm by 150 mm and 100 mm thick. This deposit measured 670 mm in thickness, and was not bottomed, and the majority of the stones were in its upper half.



Plate 2 : Trench 2 - showing E facing section, taken from E

3.0 INTERPRETATION AND OBSERVATIONS

3.1 Phase 1 - Bedrock and natural deposits

(118) and (120) were probably natural deposits. The basalt bedrock, (114), was seen up to floor level at the N end of the excavation and the N wall was built directly on it. (114) drops 1.50 m in two steps continuing down below the excavated level to the S.

3.2 Phase 2 - Soil build up prior to construction of French Prison

This phase saw the build up of deposits (under the W wall) in order to create a level surface immediately prior to the 1795 construction of the French Prison. (115) was a

loose mix of clays and may have been re-deposited subsoil. Of the other deposits, (107) included many stone grits, some small stones and occasional flecks of mortar and charcoal. (121) included small stones and some lumps of coal. (117) was mostly coal lumps and charcoal. (116) is a mix of sub-rectangular stones, mid-brown clay with charcoal and coal flecks throughout. These deposits look to be domestic waste - perhaps mixed with demolition or construction debris. This may indicate activity in the vicinity prior to this construction, and may be waste from the Wallace Tower which was located immediately to the W. (119) may be trample over the natural (Phase 1) deposits.

Deposit (207) filled the majority of the trench but it was difficult to get much light into this area and it is likely that it included more than one infill, the differences in the amount of stone in the top and bottom suggests at least one division. The context was not bottomed during the excavation of Trench 2. However it is likely that this is one phase of infilling, imported as levelling material immediately prior to construction.

This was a large scale levelling exercise with a depth up to c 1.5 m of material imported in the area seen. The area to the S of the excavated area is likely contain an even greater depth of deposits.

There were pottery sherds and fragments of clay pipe recovered from the features in this phase.

3.3 Phase 3 - Construction of the French Prison (1795)

(103) looks to be the remains of a flat surface. It is equally possible that it was trampled onto the Phase 2 deposits during the Phase 3 construction or that it is a remnant of the base for an earlier floor. (106), the bottom part of the W wall face, comprises unfaced stone blocks above which (110) is coated with smooth plaster. Most of the upper 1.60 m of the wall face, (111), appeared as rough stone and lumps of plaster. The exception to this was at the N end of the wall where (113) is smooth plaster, and (112) is a later (Phase 4) disturbance. Between (106) and (110) there was a band of dark green, painted decoration (108) - although the date of this decoration was unclear it seems most likely to belong to this phase. (123) forms part of the wall

foundations in the NW corner. There may have been fittings over (106) and (111), perhaps a skirting board and a bunk bed or cupboard. (103), attributed to Phase 4, could also have been a remnant of the base for a stone slab floor in this phase. (209), the bottom step of the stairway up to first floor showed a lot of wear suggesting it has been *in situ* for a significant period. Immediately under (209), (201) and (202) were thought to be make-up for the stair and trample during its construction. (208) forms a step up into the W ground floor room and (203) is thought to be bottoming for it. (202) is probably material trampled in during the construction. Deposits (204), (205) and (206) were only seen in the N half of the trench and there was speculation during the recording whether these deposits might be infill for where another step down was removed. This would suggest a floor level c 200 mm lower than the one currently seen, roughly at the level of (103).

3.4 Phase 4 - The wooden floor c 1914 – 1945

The brick built walls (104), (105) and (124) are thought to be dwarf walls to carry a wooden floor. There is a wooden floor in the room to the W. Cut (122) may be where another of these dwarf walls has been removed. At the N end of the W wall there was a 2.00 m high area of red bricks (112) which appeared to be blocking or repair, perhaps re-facing after the removal of a structure. It may be that there was a fitting, perhaps a cupboard, or more likely, a structure such as a doorway or a toilet.

3.5 Phase 5 - The later stone floor 1960s/1970s

(101) and (102) are infill deposits put in as a base for the floor that was removed immediately prior to these excavations. The floor was inserted in the 1960s or 1970s.

4.0 CONCLUSION

The fact that the N wall was built on bedrock and some, and possibly the rest, of the French Prison was built on top of imported levelling deposits probably accounts for the structural deterioration of the building. The S end of the W wall, at the N edge of the doorway, has probably slumped a little while the N wall stands solidly. This has probably caused much of the damage at aperture (109), although there may already have been a weakness with part of the structure removed and the aperture blocked.

Fig. 3 : Elevation of
W wall and W section
(E facing) of Trench 1

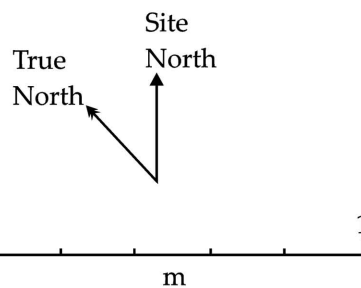
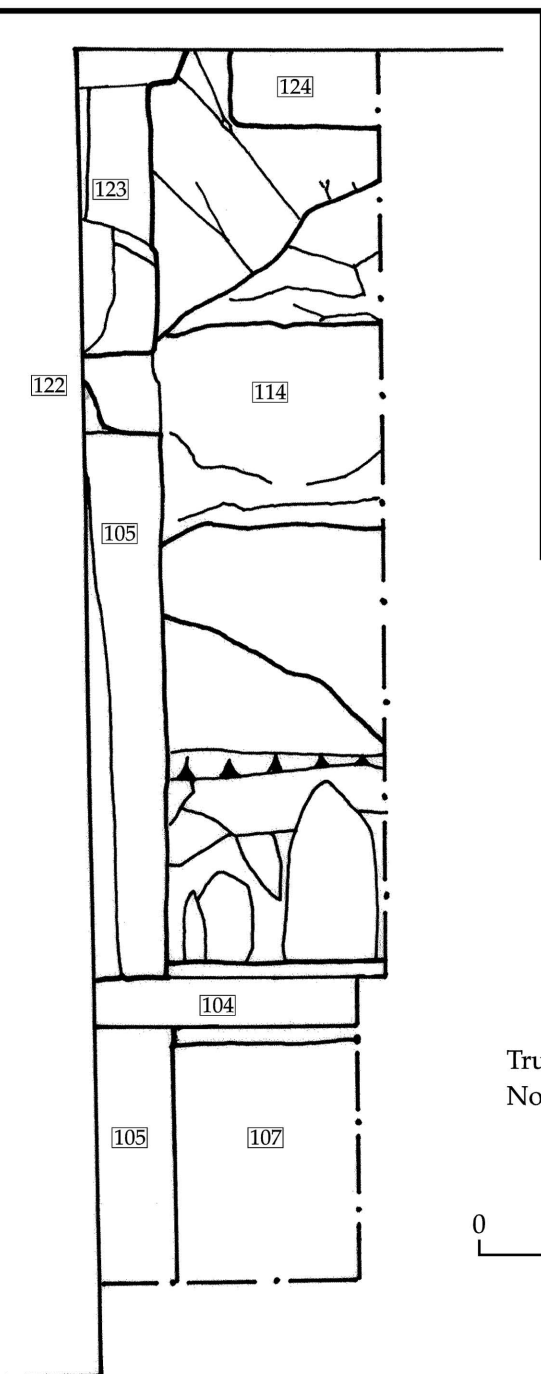
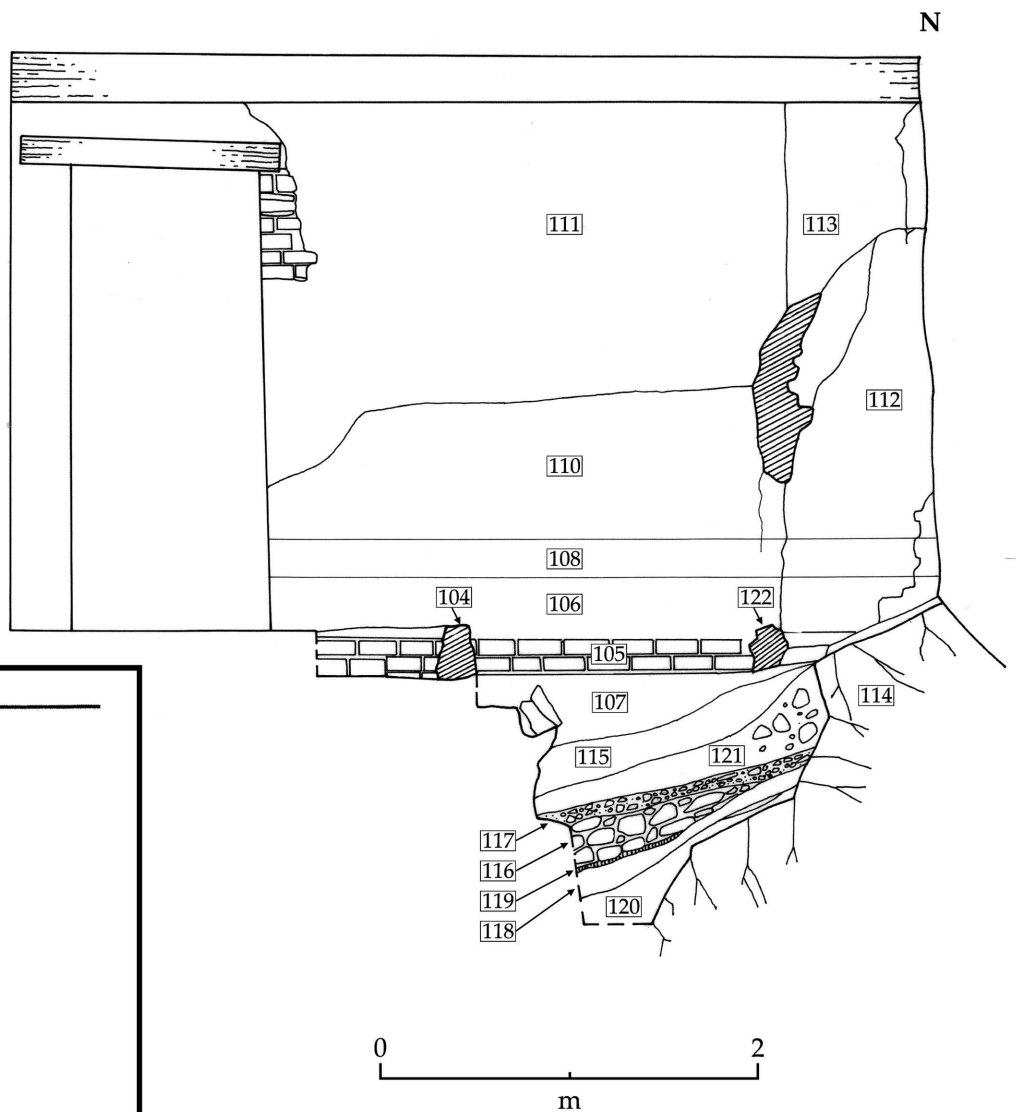
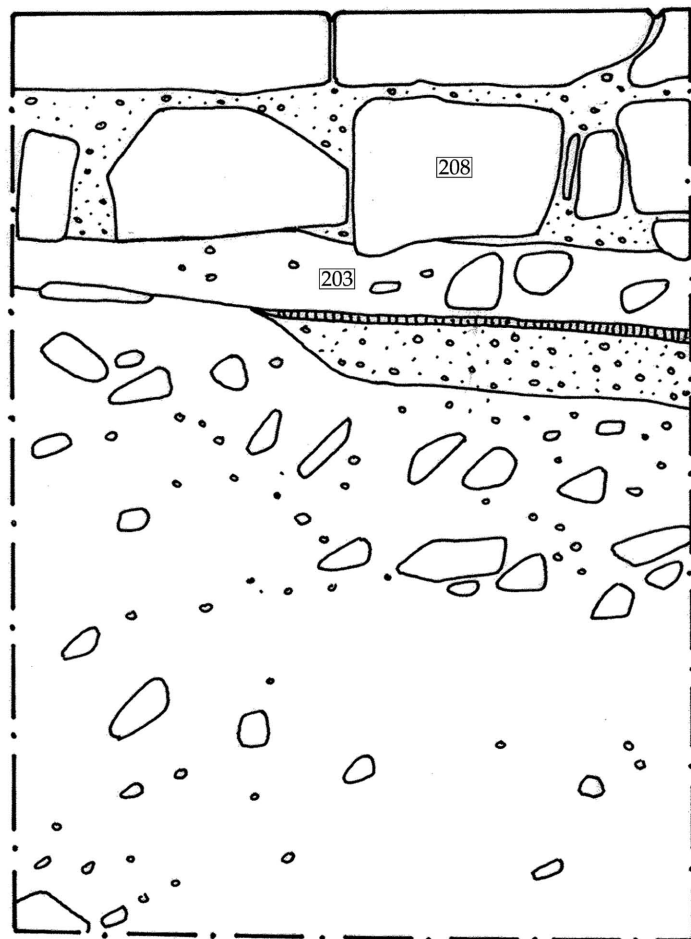


Fig. 4 : Plan of Trench 1

0 500
mm

S

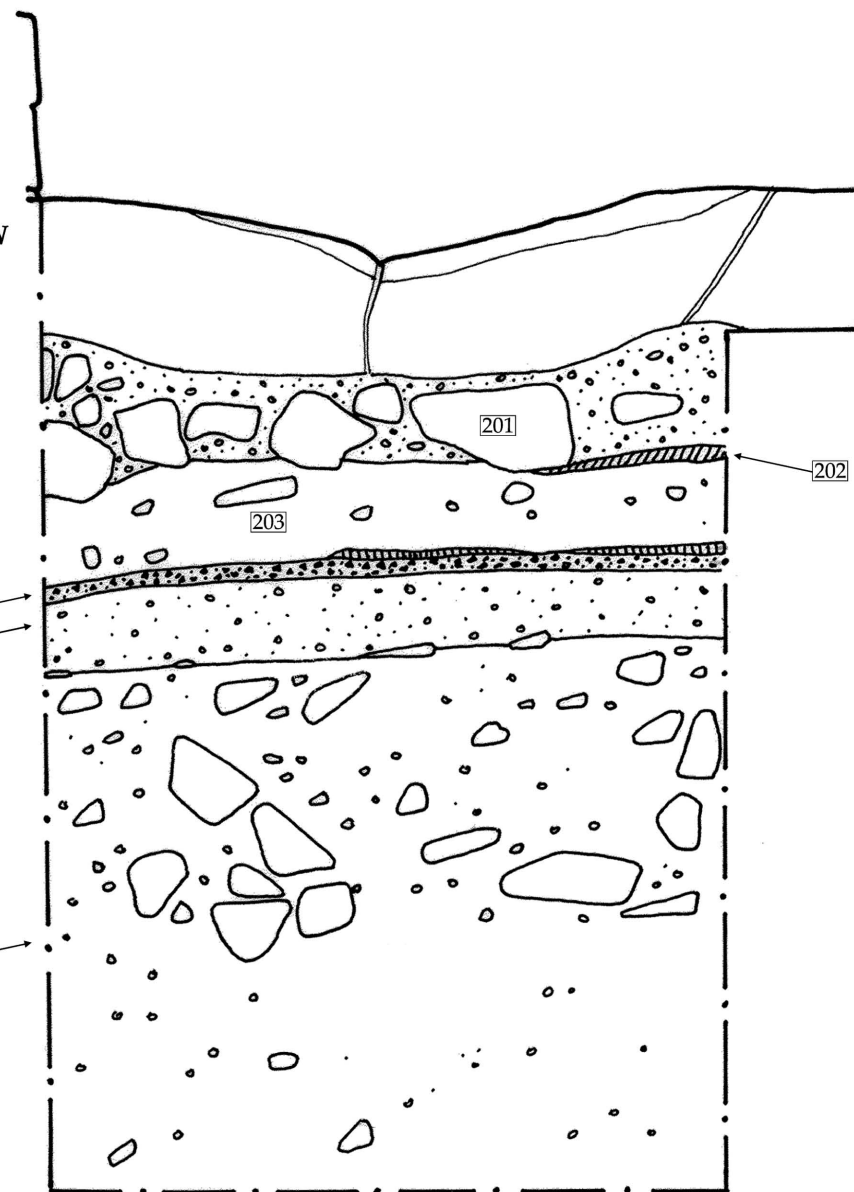
N



W section (E facing)

W

E



N section (S facing)

Fig. 5 : Trench 2 sections

#	Phase	Description	Date
101	5	Loose light-mid brown gritty sand, topsoil.	07/11/06
102	5	Loose yellow/brown mortar and stones.	07/11/06
103	3	Very compact yellow brown gritty mortar.	07/11/06
104	4	E-W aligned brick walling.	07/11/06
105	4	Brick footings under F106.	07/11/06
106	3	Bottom part of the W wall of the E room.	07/11/06
107	2	Loose dark grey sandy silt.	07/11/06
108	3	Line of dark green painted plaster on the W wall.	07/11/06
109	4	Aperture in the North end of the W wall.	07/11/06
110	3	The E wall above F108.	07/11/06
111	3	Upper part of the W wall.	07/11/06
112	4	Area of red bricks within the N end of the W wall.	07/11/06
113	3	Dark green painted plaster top of N end of wall face.	09/11/06
114	1	Bedrock.	09/11/06
115	2	Mix of orange brown clay and brown slightly silty clay.	09/11/06
116	2	Fairly compact mid brown clay and stones.	09/11/06
117	2	Mid grey silty clay.	09/11/06
118	1	Quite compact red brown sandy clay.	09/11/06
119	2	Fairly loose and sticky mid-dark brown clayey silt.	09/11/06
120	1	Wet and sticky dark brown/black silty clay.	09/11/06
121	2	Loose grey brown clayey silt.	09/11/06
122	4	N-S aligned cut parallel to F105.	09/11/06
123	3	Roughly rectangular stone blocks at the N end of the trench.	09/11/06
124	4	Brick foundations for the N wall.	09/11/06
201	3	Loose mid brown silty loam.	07/11/06
202	3	Loose patchy deposit of yellow/brown mortar.	07/11/06
203	3	Fairly compact dark brown/black silt.	07/11/06
204	3	Thin deposit orange-brown mortar in the N part of the trench.	07/11/06
205	3	Compact mix of coal, ash and brick fragments.	08/11/06
206	3	Compact red brown gravelly silt.	08/11/06
207	2	Loose dark brown sooty silt.	08/11/06
208	3	Step up into W room.	09/11/06
209	3	Bottom step.	09/11/06

A2.0**APPENDIX 2: LIST OF DRAWINGS**

#	Type	Scale	Description	Date
1	Plan	1:20	Post excavation and location plan.	08/11/06
2	Section	1:20	West section, wall face and the deposits below it.	08/11/06
3	Section	1:10	North section, bottom step and the deposits below.	07/11/06
4	Section	1:10	West elevation, foundations and the deposits below.	08/11/06
5	Plan	1:20	Location plan of trench 2	08/11/06

A3.0**APPENDIX 3: LIST OF PHOTOGRAPHS****HSCO-90107-2006-02-CD1**

#	Trench	Description	From	Date
1	1	Remains of mortar "surface" F103.	SE	07/11/06
2	2	Mortar surface F203.	S	07/11/06
3	2	Mortar surface F203.	E	07/11/06
4	2	Mortar layer F204.	S	07/11/06
5	2	Ash layer F205.	S	07/11/06
6	1	Walls F104 and F105.	E	08/11/06
7	1	Detail of phase 2 deposits F107, F115 and F121.	E	08/11/06
8	1	Wall F105 and the phase 2 deposits.	SE	08/11/06
9	1	Wall F105 and the phase 2 deposits.	NE	08/11/06
10	2	Trench 2, post excavation.	W	09/11/06
11	2	Trench 2, post excavation.	E	09/11/06
12	1	Detail of wall F105.	E	09/11/06
13	1	Detail of wall F105.	E	09/11/06

Box No.	Bag No.	Material(s)	Quantity	Ctxt
1201	1201-001	Pb Object	1	107
1201	1201-002	Clay pipe stems	8	107
1201	1201-003	Clear vessel glass	2	107
1201	1201-004	Bone/teeth	3	107
1201	1201-005	Fe nail	1	101
1201	1201-006	Vessel glass	4	101
1201	1201-007	Plaster fragment	1	115
1201	1201-008	Green glaze pottery (inc. 1 burnt sherd)	2	115
1201	1201-009	Clay pipe stem	1	115
1201	1201-010	Burnt bone	1	115
1201	1201-011	Green glaze pottery	3	118
1201	1201-012	Window glass	1	118
1201	1201-013	Plaster fragment	1	207
1201	1201-014	Slag	1	207
1201	1201-015	Pottery	3	207
1201	1201-016	Clay pipe stem	4	207
1201	1201-017	Butchered bone	26	207

Site	Dumbarton Castle: French Prison
HS PIC Index no	90107
Kirkdale Project no	HSCO-90107-2006-02
Date(s) of site work	6-9 November 2006

Report files submitted on CD:

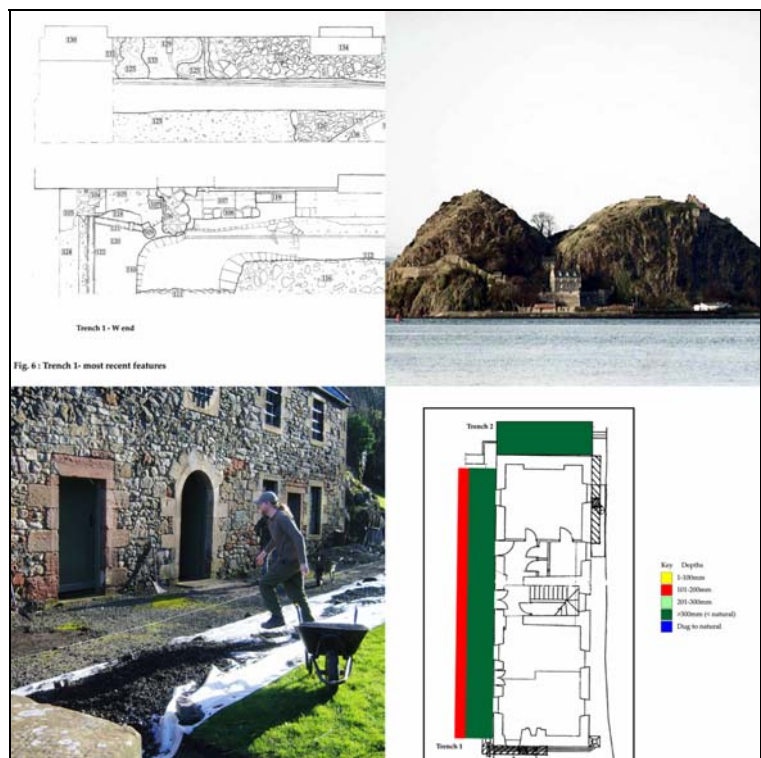
Report in MS Word	HSCO-90107-2006-02-Report.doc
TIFFs	HSCO-90107-2006-02-Report Figs 1-5.tif(s)
PDF (Report inc. Figs)	HSCO-90107-2006-02-Report.pdf

Other files submitted on CD:

Photo scans	HSCO-90107-2006-02-CD1- 1-13.jpg(s)
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Dumbarton Castle (French Prison): Archaeological Excavation and Assessment, February - March 2007

HS PIC Index number: 90107
Project code: HSCO-90107-2007-01



25 March 2007
Kirkdale Archaeology

<u>Site</u>	Dumbarton Castle (French Prison)
<u>N.G.R</u>	NS 3996 7453
<u>Project Description</u>	Archaeological excavation and assessment
<u>Project code</u>	HSCO-90107-2007-01

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SUMMARY: An excavation and assessment took place at Dumbarton Castle French Prison during February and March 2007. Trenches were opened by the north and west walls. Evidence was seen of possible structural features pre-dating the French Prison, with signs of burning suggesting a forge or other industrial site - although the limited size of the excavation did not allow any meaningful dating or interpretation of these features.

1.0 INTRODUCTION

Under the terms of its call-off contract with Historic Scotland, Kirkdale Archaeology was asked to undertake excavation by the N and W walls. The excavation was carried out in advance of work on the foundations.

Although there has been a fortress on Dumbarton Rock since 450AD the French Prison was constructed much later. In 1795 the N gate to the castle was blocked and replaced by the Duke of York's Battery and the French Prison was erected. The military left the castle in 1865 but returned in 1914 with the onset of the First World War.

Trench 1 was against the S wall and measured 10.1 m E-W and 2.0 m wide initially, but after the upper 200 mm was removed it was decided that the width could be reduced to 1.5 m and the narrower trench was excavated to a depth of 800 mm. Trench 2 was against the W wall and measured 5.2 m N-S and 2.0 m E-W; it was excavated to a maximum depth of 700 mm.

This work was carried out between 19 February and 9 March 2007.

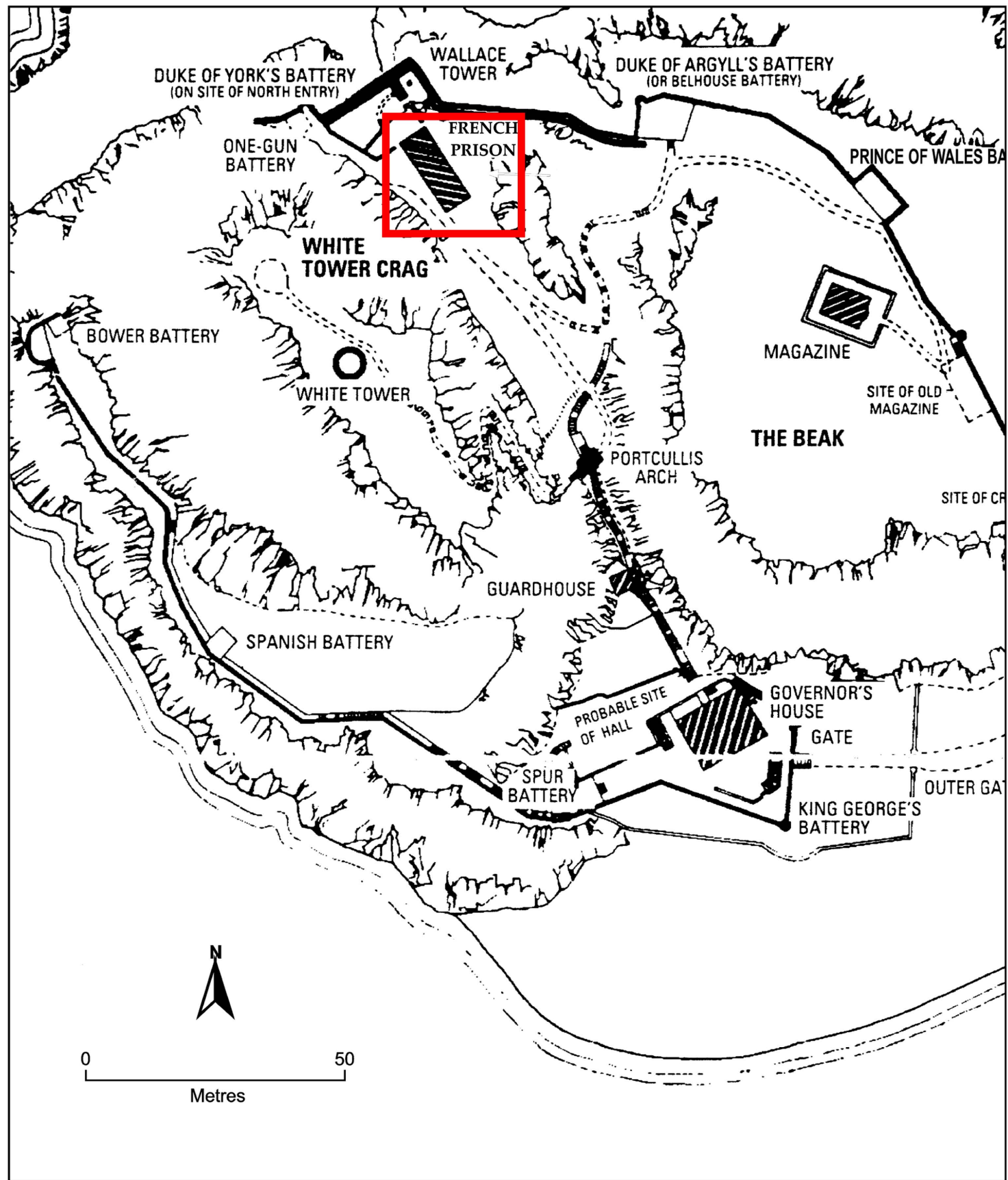


Fig. 1 : Plan of Dumbarton Castle showing location of French Prison

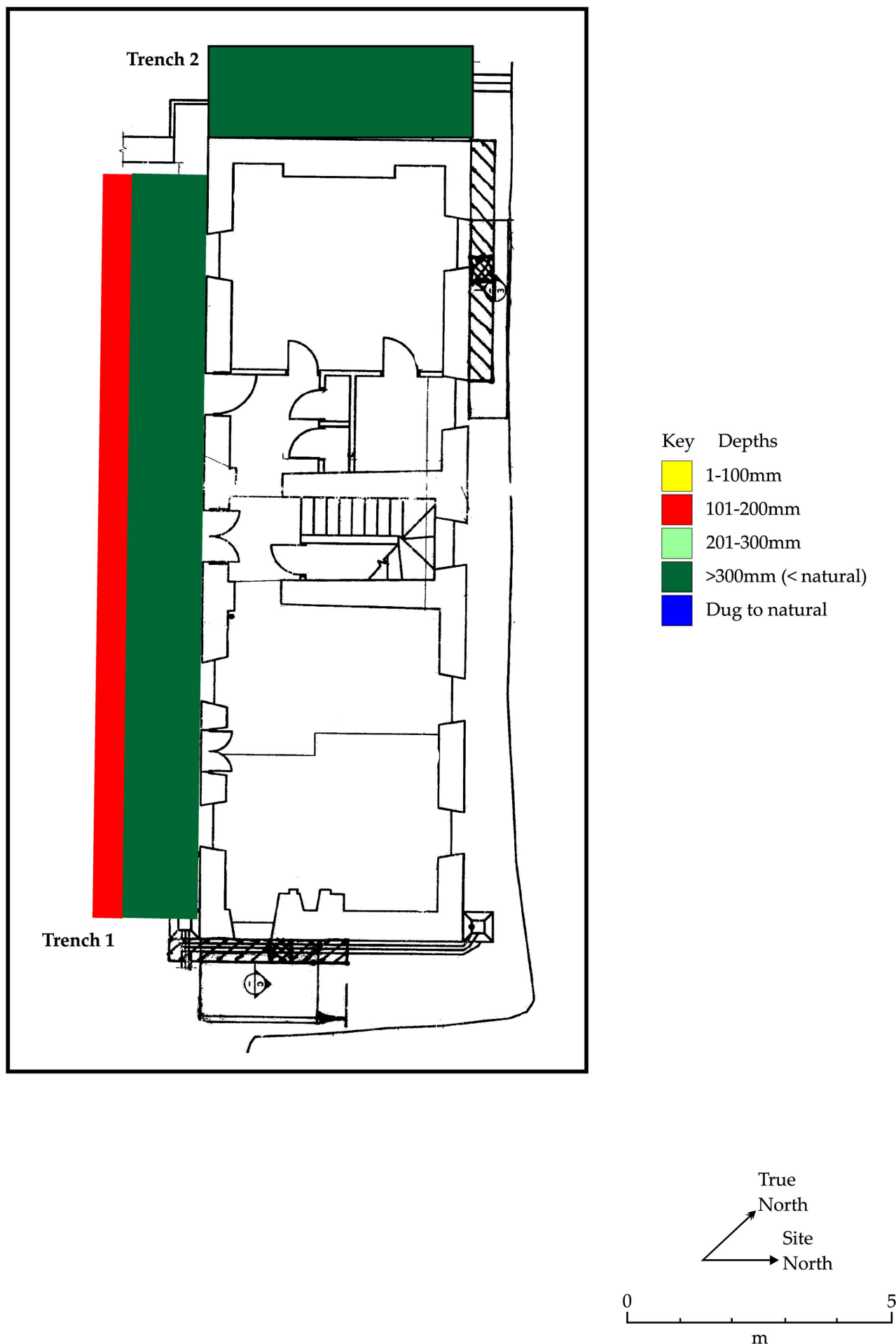


Fig. 2 : Plan of French Prison showing location of Trenches 1& 2

2.0 DESCRIPTION

2.1 Trench 1

2.1.1 *Phase 10 features*

The ground surface at the start of the excavation, **101**, was formed with sub angular stone chips measuring 30 mm by 20 mm on average. Below **101** there was an 80 mm thick deposit of compact mid-dark brown clayey silt with 15%-20% small (30 mm by 20 mm on average) stones, **102**.

Along the N side of **112** (**phase 7**) in the E half of the trench **128** is a, 50 mm diameter, plastic coated cable. Roughly 1.00 m E of the central doorway **128** turns N and enters a 120 mm diameter red ceramic pipe, **129**. **129** continues into the base of the South wall of the French Prison. Around **129** there is a large pit (measuring 1.10 m E-W at **129** and narrowing to 600 mm to the S of it and 650 mm deep), **132**. The fill of **132**, **133**, comprised 60% large stones (up to 300 mm by 200 mm and 150 mm) with the remainder being grey/brown slightly clayey silt. The excavation of **112** and **128** was with pick and shovel and after it was established that **128** cut **112** they were removed together.

In the NE corner of the trench, **145** is a concrete block (measuring 800 mm E-W and 600 mm N-S within the trench) with an iron grate set in the centre. Below **145** and extending SW across the trench, **135** is a 10 mm diameter, red ceramic pipe. Over the SW end of **135** there was a cement slab measuring 860 mm NE-SW, 500 mm wide and 80 mm thick, **136**. Immediately under **135** there was a 50 mm thick deposit of fairly loose grey/brown sandy silt, **183**. The steep-sided cut for **135/136**, **137**, measured 800 mm in width and was 600 mm deep. **137** cut **112**. The fill of **137**, **138**, was sandstone rubble, pieces up to 250 mm by 200 mm, and mid grey sandy silt. Rubble formed 60%-70% of **138**.

Entering the trench at the E baulk and running 2.40 m W and then 1.20 m N, **139** is a 30 mm diameter plastic coated pipe. Jointed to the N end of **139** and running 1.50 m E to **146**, **140** is a 30 mm diameter blue plastic pipe. **146** is a wooden box, measuring 250 mm E-W and 150 mm N-S, in the NE corner of the trench. To the W of the N-S part of **139**, **141** is the W side of the cut for that pipe and it measured 400 mm in

depth. The S edge of the cut for the E-W part of **139** was numbered **149**. The fill of **141** and **149, 142**, was grey/brown sandy silt with 30% stones measuring 120 mm by 80 mm on average.

2.1.2 *Phase 9 features*

Located immediately E of **103 (phase 7)**, **104** is an area of broken sandstone slabs. Immediately under **104** there was a brick built box, **162**. **162** was built against the S wall of the French Prison and formed with single lines of bricks, two courses high, at the E, S and W sides. **162** measured roughly 300 mm square internally and 240 mm in depth. 120 mm diameter cast iron pipe, **122**, ran S from **162**. The steep sided cut for **122, 123**, measured 500 mm E-W and 350 mm deep.

In the W part of the trench **109** was a circular iron grate that ran down 230 mm in to a pipe the once ran away to the NW but had been removed prior to the excavation. Around and to the N of **109, 118** is a fairly irregularly shaped steep sided cut that was not bottomed in the current excavation. The fill of **118, 105** was loose mid-dark grey sandy silt and stones with mortar flecks throughout. Extending W from the base of **109, 121** is a 120 mm-diameter cast iron pipe.

At the W end of the trench **110** was a fairly large steep sided pit measuring 1.80 m E-W, 1.20 m N-S and 650 mm deep within the trench but the S edge and base were not seen. The fill of **110, 111**, was a mix of large stones (up to 350 mm by 200 mm and 150 mm), small (20 mm diameter) gravel and mid brown silty clay.

Along the N side of the full length of **112, 117** was a 30 mm diameter rusting iron pipe.

At the E end of the trench **147** is a cut, with slightly curved and sloping sides, measuring up to 800 mm E-W, 700 mm N-S and 450 mm in depth. **147** was cut by **137 (phase 10)**. **148**, the fill of **147**, was fairly loose mid grey/brown silt with 40% angular pieces of basalt (80 mm by 60 mm on average) and occasional mortar flecks.

2.1.3 *Phase 8 features*

Throughout the E side of the trench and in the N part of the W end, **150** was a deposit of fairly loose mid grey silty clay and stones, approximately 50% angular pieces of sandstone measuring 80 mm by 60 mm on average. There were patches

and lenses of mortar throughout **150** and it usually measured 200 mm in depth although it thickened to the E.

In the E part of the trench, surviving under **135**, there were traces of deposits **185** and **186**. **185** was compact red brown slightly silty clay and overlay a patchy mix of coal, charcoal and mid brown clay, **186**. The upper deposit measured a maximum of 50 mm in thickness and **186** varied from 20 mm-100 mm in thickness.

In the S side of the W end of the trench, **116** was stone and brick fragments in mid-dark grey sandy silt. The upper face of **116** comprised approximately 70% stone or brick and was fairly flat and even.

In the E part of the trench, W of **137** and S of **112** (**phase 7**), **126** comprised stones, with occasional brick fragments, in mid-dark grey sandy silt. The upper face of **126** comprised approximately 70% stones and was fairly flat and even.

Also in the E part of the trench, N of **112**, **127** comprised stones in mid-dark grey sandy silt. The upper face of **116** was mostly stone and it was flat and even. When the baulk at the doorway into the French Prison was removed stones the same as **127** were numbered **131**.

Immediately under **116**, **126** and **127**; **125** was an 80 mm thick compact deposit of small stones and mid-dark brown sandy silt.

At the W end of the trench deposit **124** was a, 80 mm thick, mix of fine red sand and yellow/light brown mortar.

Seen in an area in the SW part of the trench **120** is a deposit of compact mid grey silty sand with many stone grits.

In a small area to the E of the trench, under pipe **135** (**phase 10**), **184** was a deposit of fairly compact mid-dark grey sandy silt with 30% small (20 mm diameter) stones and occasional charcoal flecks.

Cut by the E side of **118**, **106** was an area of grey sandstone setts with a very flat upper face, between the setts there was mid grey mortar pointing. **106** ran under the blocking of the (unrecorded) W door of the French Prison.

In the NW corner of the trench **103** is a sandstone slab measuring 650 mm N-S, 350

mm wide and 90 mm thick.

2.1.4 *Phase 7 features*

Within drain **107** two slabs (**119**) were different to the other ones seen. These slabs were red sandstone and had 20 mm-40 mm margins at the N and S sides and a central channel that was 140 mm wide and 50 mm deep. **119** was over (the **phase 7**) cut **157**.

Running E-W through the centre of the majority of the trench, **112** is a steep sided cut measuring 500 mm N-S and approximately 800 mm deep. The fill of **112**, **113** was a fairly even mix of rubble (stones up to 400 mm by 350 mm and 250 mm in size) and grey brown silty clay with stone grits and brick fragments throughout. There were also fragments of dressed stone like those seen in **108** in the fill.

To the W of the door into the French Prison and N of **112**, **114** is a pit measuring 600 mm E-W and 700 mm deep. The fill of **114**, **115**, was the same material as that seen at **113**.

The slab forming the threshold at the current doorway into the French Prison, **130**, was formed with concrete and measured 1.40 m E-W, 650 mm wide and 70 mm thick.

At the E end of the trench, **143** is a 50 mm diameter lead pipe that has been cut away in **112**. The cut for **143**, **144**, measured 700 mm in width and was 600 mm deep.

Roughly halfway along the W half of the trench, running from the N edge of **112** to the S wall of the French Prison, **155** is a cut with a fairly steep E side and sloping W edge. **155** measured 700 mm in width and was 550 mm deep. The fill of **155**, **156**, is loose and a mix of grey sandy silt and light brown mortar with (roughly 30%) angular stones measuring 60 mm by 40 mm on average. Within **156** there were two 30 mm diameter lead pipes, **157**. Pipes **157** have been cut where they run into **112**.

The W limit of the trench was formed by an upstanding N-S wall, **159**, formed with coursed sub rectangular sandstone blocks that are pointed with very hard and very gritty, grey, concreted mortar. The coping stones **159** is capped with are rectangular sandstone blocks that extend 50 mm inside (E of) the wall face. The wall stood 980 mm above the surface at **101**.

2.1.5 *Phase 6 features*

Alongside the S wall of the French Prison in the W part of the trench, **107** was a drain formed with rectangular red sandstone slabs. Each slab has a groove cut roughly 80 mm S of a margin along the N edge, the groove is roughly “U” shaped and measures 80 mm N-S and 20 mm deep. **107** has been cut away by **114** to the E and **118** at the W end of the trench. In areas against the S edge of **107** there were sub rectangular red sandstone cobbles, **108**.

Below **107** and **108** there was a deposit of fairly loose light brown sand, **158**. **158** formed a fairly level surface and measured up to 30 mm in depth.

In the E half of the trench, alongside the S wall of the French Prison, **151** was a deposit of very compact grey silt with occasional small stones. **151** was patchy and varied in depth from 10 mm to 50 mm.

In the E end of the trench, and seen in the section under **135**, **187** was a deposit of yellow brown mortar and gravel with roughly 50% stones measuring 60 mm by 30 mm on average.

2.1.6 *Phase 5 features*

The threshold into the E door of the French Prison, **134**, was a single, fairly worn, sandstone slab. The wear had formed a groove in the centre of the stone.

E of **134**, **153** is a fairly straight sided, E-W, cut measuring between 200 mm and 400 mm in width and 450 mm in depth. **153** is cut by **144** to the E and runs under the baulk left below **134** to the W. The fill of **153**, **154** comprised loose mid grey/brown silt with 40%-50% sub angular pieces of basalt, up to 90 mm by 70 mm, and occasional mortar flecks.

To the E of and cut by **147** (**phase 9**), **194** is a straight sided E-W cut measuring 300 mm in width and excavated to a depth of 200 mm but not bottomed. The fill of **194**, **195**, comprised fairly loose mid grey/brown silt with roughly 40% sub angular pieces of basalt, up to 80 mm by 60 mm, and occasional mortar flecks.

In the W half of the trench **192** was an E-W trench with a steep S edge, it measured up to 300 mm in width and 500 mm deep. **192** was cut through **152** and was very hard to distinguish from that deposit and the two features were only excavated

roughly in order. The fill of **192, 193**, was mid grey silt with occasional large, up to 250 mm by 150 mm, pieces of basalt and 15% small (60 mm by 40 mm) pieces there were mortar flecks throughout.

The foundations of the S wall of the French Prison, **180**, were mainly basalt (a couple of red sandstone) blocks that extended up to 100 mm S of the wall face. The pointing at **180** is yellow/light brown sandy mortar.

2.1.7 *Phase 4 features*

Below the **phase 6** drain and cut by the **phase 5** foundation trench(es), **152** was a deposit of mid grey brown slightly clayey silt with approximately 20% stones measuring 80 mm by 60 mm on average. There were coal and charcoal flecks, lenses of red/brown and yellow/brown clay and grey silt in **152**. **152** was seen throughout the trench and measured up to 500 mm in depth.

2.1.8 *Phase 3 features*

Under and Extending E from **159**, the upstanding W wall, **160** was N-S walling constructed with (mainly red) rectangular sandstone blocks and pointed with hard yellow/light brown sandy mortar. It was noted that the upper face of **160** was flat. This wall had been cut away at the excavated level in the NW corner of the trench by various **phase 9+10** features.

To the W of **160**, **161** was a deposit of fairly loose, mixed red/brown and yellow/brown gravel with 40%-50% stones measuring 40 mm by 30 mm on average.

2.1.9 *Phase 2 features*

The phase 2 features were only seen in the E half of the trench.

To the W of the **phase 1** features **169/170**, **171** is an area (800 mm E-W and 400 mm N-S) of sub rectangular rubble. Between and over the stones of **171** there was clean grey clay.

Immediately E of the **phase 1** structure **191**, **182** is a deposit of loose mid grey silt with many charcoal flecks.

Over **182**, **176** is an area of sub rectangular basalt blocks measuring 250 mm by 150 mm on average.

To the E and N of over the **Phase 1** features **179** and **173** respectively, **181** is an area of sub rounded pieces of basalt measuring 80 mm by 60 mm on average. **181** was seen in an area of 1.00 m E-W and 600 mm E-W it was cut away by **147** to the E and **144** to the N.

S of **173**, **190** is basalt rubble sitting over deposit **163**.

In the E part of the area, under the **phase 3** and **4** deposits **152** and **187**, **188** was a 50 mm thick deposit of loose dark grey/black silt. **188** sealed **189**, mid grey sandy silt with occasional charcoal flecks and small stones. **189** measured up to 200 mm thick and sealed the **phase 1** structure **174/182**.

2.1.10 *Phase 1 features*

The phase 1 features were only seen in the E half of the trench; none of the deposits were excavated.

Seen alongside the S baulk, **163** is a fairly loose deposit of coal and coke (approximately 70%) with mid grey silt. **163** was seen in an area approximately 6.00 m E-W and 700 mm N-S.

To the N of **163**, **164** comprised fairly compact mid brown slightly silty clay with some charcoal flecks and approximately 25% sub angular stones measuring 80 mm by 60 mm on average. **164** looked to be under **163** but neither was excavated.

To the N of **163**, **164** comprised fairly compact mid brown slightly silty clay with some charcoal flecks and approximately 25% sub angular stones measuring 80 mm by 60 mm on average. **164** looked to be under **163** but neither was excavated.

At the W end of the junction of **163** and **164**, **165** is a rectangular area (measuring 850 mm E-W and 350 mm N-S) of yellow sandstone that is fairly badly crumbled. **165** looked to be over **163** but this relationship was not investigated.

Seen alongside the S baulk, **163** is a fairly loose deposit of coal and coke (approximately 70%) with mid grey silt. **163** was seen in an area approximately 6.00 m E-W and 700 mm N-S.

Immediately W of the E doorstep, **166** is a deposit of fairly compact, clean, mid grey clay with a few charcoal flecks. **166** measured 1.20 m E-W and 300 mm N-S and the

S boundary was formed with **168**, a group of four sub rectangular basalt blocks forming a rough E-W line at the S edge. **168** measured 800 mm E-W and 400 mm N-S.

To the S and W of **168**, **167** is a compact deposit of red/brown clay and rotted red sand mixed with lumps of stone, along the S edge of this feature there was decayed stone. **167** was seen in an area 1.50 m E-W and 400 mm N-S, it looked to be under **163** but its relationship with **164**, **168** and **172** to the W, N and E respectively was not established.

E of **167** and N of **172**, **179** comprised angular pieces of basalt (80 mm by 60 mm on average) and light-mid grey slightly silty clay, roughly 60% stones.

To the E of **167**, **172** is an area of three roughly rectangular basalt blocks that area roughly on line with **173** but have a more ragged N edge and are sited 80 mm lower down than that feature.

173 is a line of four large (largest is 650 mm by 300 mm), sub rectangular basalt blocks extending 1.60 m E from **172** until they run into the baulk left under drain **135**. The N edge is fairly straight and there is mid-dark grey silty clay between the blocks.

Emerging from the E side of the baulk under **135**, **174** comprises two very large (larger is 580 mm by 450 mm) irregularly shaped basalt blocks that roughly continue the same N edge as **173**, although not as neatly.

To the S of **173**, **191** comprised a mix of basalt and sandstone blocks although the sandstone had decayed to the extent of crumbling away. **191** measured 1.10 m E-W and ran S from **173** into the S baulk; both the E and W edges are straight. Forming much of the W edge of **191** and seen elsewhere between the stones **175** is sticky yellow/light brown clay.

Immediately W of **191** there was a mixed deposit of coal and mid grey sandy clay, **177**. **177** looked to be deposited against **173** and **191** but without further investigation it was difficult to be sure.

Against or over the S end of **191**, **178** comprised a mix of coal and mid grey sandy clay.

Emerging fairly centrally from the S baulk dressed yellow sandstone block **169** runs N 320 mm then turns W at right angles for 380 mm, it has 80 mm wide and 30 mm high raised edges. Inside the angle of **169**, **170** is a yellow sandstone block measuring 340 mm E-W and the W edge was notably ragged. **170** sloped down quite steeply so that the W end is 100 mm lower than the E.

2.2 Trench 2

2.2.1 Phase 10 features

Over most of the trench **201/210** comprised a mix of 80% rubble; including pieces of sandstone, broken brick and red ceramic drainpipe, and 20% grey brown silt.

At the N end of the trench, against the French Prison, **203** is a concrete surface measuring 1.20 m E-W, 900 mm N-S and 80 mm thick. Also against the French Prison, in the middle of the trench, **204** is a similar concrete surface that measures 800 mm E-W, 1.00 m N-S and 80 mm thick.

Seen in the area between **203** and **204** and continuing below these features, **202** is an area (approximately 900 mm square) of broken brick mixed with grey/brown silt.

2.2.2 Phase 8 features

In the NE corner of the trench there are remains of a structure formed with **207**, **208**, **214** and **223**.

Just inside the N section and measuring 1.40 m E-W, 240 mm wide and 450 mm high **207** was formed with red bricks and pointed with hard, grey, cement. **208** ran 2.30 m S from the E end of **207**, measured 250 mm in width and up to 450 mm high. The base for **208** was an 80 mm thick deposit of cement extending up to 150 mm E of that wall. **223** extended W 500 mm from the S end of **208** to **214** and measured up to 200 mm wide and 300 mm in height. The N end of **223** was very ragged. At the W end of **223** and extending N and W, **214** was a rectangular box formed with single lines of brick at three sides and against the W baulk on that side. The E wall of **214** measured 900 mm N-S, the N and S walls were 650 mm long; all the walls measured 90 mm in thickness and 200 mm in height. These features formed a structure with

internal dimensions of 2.00 m N-S and over (continues W of the trench) 1.20 m E-W with **214** forming a 720 mm N-S and over 550 mm E-W box in the SW corner.

Set against the W side of **208** and extending N-S along the N half of it, **211** is an enamel urinal set in stone and concrete, **212**. **211** was constructed in two sections that curved down to meet in the middle, the S side of the E section was missing and only the central part of the W side survived.

Below **212**, **207** and **214**, **213** is a mix of fairly large stones (up to 300 mm in diameter, red sandstone slabs, brick fragments and lumps of concrete.

In the SW part of the trench, running S from an outlet in the SW corner of **214**, **219** is the E side of a fairly steep sided N-S aligned cut for orange ceramic pipe **222**. **222** extended S from the box **214** within the toilet. The fill of **219**, **221** was a loose mix of grey silty sand with fragments of concrete brick, stone rubble, ash and mortar.

In the W section alongside **222**, **224** comprised crudely laid, unbonded bricks with some concrete and brick fragments.

Roughly half way across the trench at the S end **209** is a wall, measuring over 2.00 m N-S (continues to the S of the trench) 360 mm wide and 250 mm high, formed with red bricks. At the N end of the wall the N 440 mm of the E face steps W 120 mm forming a niche. The base for **209**, **220** was light grey concreted cement. **220** extended 300 mm W of **209** and was up to 80 mm thick.

In the SE corner of the trench, against the French Prison, **217** is a red brick wall that was one brick (90 mm) wide and four courses (420 mm) high. There was 1.30 m N-S of **217** visible within the trench and it continued S, under the stairway. At the base of **217**, **218** was a red brick footing.

The N limit of the trench was at **206**, an upstanding stone wall.

2.2.3

Phase 6 features

225, mid-dark brown clayey silt with some small stones and mortar flecks, was seen against the N end of **205** (**phase 5**). The relationship between, the unexcavated, **225** and **215** was not clear but **225** was sealed by the **phase 8** structure.

2.2.4 *Phase 5 features*

The West face of the W wall, **205**, of the French Prison formed the W limit of the trench, it was not recorded in detail. The foundations of **205**, **215** were sub angular basalt blocks with some red sandstone, pointed with yellow/light brown gritty mortar. **215** projected out up to 100 mm from **205**.

3.0 DISCUSSION

3.1 Trench 1 - Phase 1 features

The features assigned this phase were uncovered but not excavated making interpretation of them difficult. This phase pre dates the French Prison but by how much is not known.

At the E end of the trench **191** looks to be remnants of a wall with **175** the original clay bonding. It is unclear whether or not **191** continues in the area of coal and grey sandy clay, **178**, or if this is a hole within the structure.

174 at the N side of **191** is either part of the same structure or placed over it when it stood only to this level. **173** and then perhaps **172** continue the line of **174** W but all three of these features are only a single stone wide, whereas **191** measures 1.10 m in width.

168, just to the W of central in this area is a small group of stones forming a rough E-W line at the S edge. This may also be a structural remnant. S of **168**, **166** was a fairly compact, clean, clay deposit that may be remains of bonding material.

167, to the S of the E doorstep is red/brown clay and rotted red sand mixed with lumps of stone, along the S edge of which there was burnt out sandstone.

E of **167** and N of **172**, **179** comprised angular pieces of basalt and light-mid grey slightly silty clay, this may have been a remains of a rough surface associated with the surface.

Perhaps **191** is part of a significant building and **172-174** represents a boundary wall or revetment tacked onto it. Other possibilities are that these structural elements are remains of what always was a rather flimsy structure rather than a substantial

building, or that they are features within a structure. **167** looks to continue W on roughly the same line as **172-174** and includes burnt stone along the S edge and **168** at the W part of the N one, this may once have been an open area for burning later filled in with the clay and sand.

At the S section **169** looks to be a structural feature and **170** is part of the same thing. It was not possible to tell if **169** and **170** were parts of the same stone but if not they were very well jointed. The W end of the feature has been disturbed by **171** (**phase 2**). This looked like some sort of chute, perhaps a flue. It was considered that this might have been infill deposited with **171** but if so it had been placed very carefully and that seems unlikely.

At the W end of the area **165** is a rectangular area, 850 mm E-W and 350 mm N-S, of yellow sandstone that has been burnt causing it to crumble away. Speculation about this badly decayed feature is difficult, it could conceivably be remains of a flue (based mainly on size and shape) or simply the base of an area where there was a lot of burning.

Deposits **163** and **164** were seen in the W and central part of the area of the **phase 1** features. It was thought that **164** was under **163** but neither were excavated.

Of the deposits assigned this phase **163**, **177** and **178** all included significant amounts of coal. **164** and **179** were clay and stones. **166** is clean, mid grey clay with a few charcoal flecks.

These deposits seem likely to have originated in an area where there was a lot of burning and added to the large number of burnt stones seen in other features of this phase it seems likely that **phase 1** is part of an industrial structure. Whether this has been a kiln, forge or something else cannot even be guessed at yet. There were no debitage found in the deposits and although this is slightly surprising it must be remembered that none of the **phase 1** features were excavated.

3.2 Trench 1 - Phase 2 features

The **phase 2** features were only seen in the E half of the trench. This phase is thought to see the demolition, whole or part, of the **phase 1** structure.

171 is an area of rubble that looks to be infill where the W of the **phase 1** features

169/170 have been broken.

182 is infilling against the E side of the **phase 1** feature 191 and 176 is collapse over 182. 176 has probably fallen from 191.

181 is an area of sub rounded pieces of basalt that look to form a surface. It looked like 181 had been placed against 173 to the S, to the N it is cut away by the foundation trench for the French Prison. It was considered that 181 may be tumble but it formed a consistent flat surface, making this unlikely. As likely as a surface is that this is a base or platform of some sort, but the trouble with interpreting this feature is that it is not known how much of the original feature is now seen. The fact that it is so well blended into 173 suggests the two features in use together; this implies either that 173 never stood any higher or that the partially demolished remains were reused with 181.

S of 173, 190 looks like tumble, perhaps from that feature.

In the E part of the area 188 and 189 was thought to be re-deposited waste derived from **Phase 1** burning.

3.3 **Trench 1 - Phase 3 features**

At the W end of the trench 159 was either a remnant of earlier structure or foundations for the upstanding W wall, the former suggestion is favoured. In the NW corner of the trench at the excavated level 159 has been cut away by various **phase 9+10** features. To the W of 160, 161 may be construction debris.

This phase is very difficult to suggest a date for as the structure is not seen in the area of the French Prison and is only cut by **Phase 9** and **10** features. The feeling is that this phase pre-dates the standing structure but there is no evidence to confirm or contradict this.

3.4 **Trench 1 - Phase 4 features**

152 was material imported as infill, raising the ground level through all of trench 1 by approximately 500 mm. It seems likely that the ground-works were in advance of construction and the building of the French prison is suggested. 152 was very mixed and may have included re-deposited material from **phase 1**.

3.5 Trench 1 - Phase 5 features

This phase sees the construction of the French prison and dates to 1795.

134, the threshold into the E door of the French Prison, was a sandstone slab that showed a fair bit of wear, particularly where a groove had formed in the centre of the stone. The wear indicated that the stone had been in situ for some time, it is probably the original threshold.

E of **134**, **153** is the foundation trench for the S wall of the French Prison. **194** is the foundation trench at the E end of the trench. The area between **153** and **194** has been disturbed by **phase 10** cuts and there was no trace of the foundation trench seen.

In the W half of the trench, **192**, the foundation trench was seen to cut the **Phase 3** deposit **152**. It was noted that the fill of **192**, **193**, was very similar to **152** and perhaps this is, and the large number of service trenches in that area, are the reasons that the foundation trench was not seen to cut **152** in the E of the trench.

180, were the foundations of the S wall of the French prison and the height they were seen at varied.

There is some confusion as to whether the foundation trench was cut through **152** or sealed by it. The fact it was seen to cut it in one area strongly suggests that this relationship simply was not seen elsewhere. The likelihood is that **phases 3** and **4** are of similar date and whether the whole area was infilled and the construction started or the final infilling took place after the construction is of little importance, although the former seems more likely.

3.6 Trench 2 - Phase 5 features

205 is the W face of the W wall it was not recorded in detail as part of this work. **215**, was the foundations of **205**.

3.7 Trench 1 - Phase 6 features

This probability is that this phase is close in date to **phase 5** but the drain does seal the foundation trench for the S wall, perhaps this is simply building order within the same phase.

Stone drain **107**, in the W part of the trench, was constructed against the S wall of the

French Prison, it has been cut away by **114** to the E and **118** at the W end of the trench. Red sandstone cobbles **108** were seen against the S edge of parts of **107** and these were probably to straighten the S edge of the drain rather than an indication of a surface extending S, although the latter is possible. **158** was sand put in to lay **107/108**.

151, in the E half of the trench, alongside the S wall of the French Prison may have been bottoming for a surface that has been removed. Further S in the E end of the trench **187** may have been construction debris.

3.8 Trench 1 - Phase 6 features

Deposit **225** was not excavated and has been assigned this phase tentatively, it may well be filling a foundation trench for **215** and therefor belong in **phase 5**.

3.9 Trench 1 - Phase 7 features

This phase is thought to date to early in the 20th century, possibly around 1914 when the military returned to the castle. The water pipes are put in and a repair is made to, the **phase 6**, stone drain showing the earlier ground level still to be in use.

Slabs, **119**, were replacements within **107**. These slabs had been replaced over **119** was over the phase 9 cut **157**.

Running E-W through the middle of most of the trench, **112**, is a steep sided cut. Fragments of stone from **108** were in the fill. Just to the W of the central door, **114** was thought to be a branch off **112**. At the E end of the trench, **143** is a disused lead water pipe that has been cut in **112**.

Running N from the N edge of **112** to the S wall of the French Prison, **155** is the trench for two 30 mm diameter lead pipes, **157**.

The fact that replacement slabs **119** have been put in shows that the ground level was still at that of the **phase 6** stone drain during this phase.

The current threshold slab at the doorway into the French Prison, **130**, was thought to be a fairly late replacement, perhaps put in when the ground level was raised.

Wall **159** stood at the W limit of the trench, it was most likely constructed soon after the demolition of the barrack block to the W.

3.10 Trench 1 - Phase 8 features

This phase involves a further raising of the ground level, probably almost to the current level, the **phase 6** drain is out of use and it's remnants are covered over.

This surface is thought to date to the Second World War and it is likely that it covered the whole trench with later disturbance leaving it in a fragmented state.

Seen in the E side of the trench and in the N part of the W end, **150** was infill raising the ground level by approximately 200 mm in most areas.

In the E end of the trench, surviving under drain **135**, deposits **185** and **186** were also thought to be makeup material from this phase. There was only a small area of these deposits surviving as service trenches had cut them away elsewhere.

116, **126**, **127** and **131** were thought to be remnants of the same rough surface, surviving best at **126**. **125** was bottoming for **116**, **126**, **127** and **131**. **124** may have been another remnant of bottoming and **120**, in the SW part of the trench, and **184** in the E of the trench, under pipe **135** were further remnants of makeup.

Cut by the E side of **118** (phase), **106** was an area of grey sandstone setts that ran under the blocking of the (unrecorded) W door of the French Prison. This shows the door being blocked after or during the raising of the ground surface to its current level.

103, in the NW corner of the trench is part of the stair construction to the W of the trench.

A photograph dated 1928 shows two doors, unblocked to the W of the one now used. This shows that the blocking post dates that photograph and is not part of a conversion of the building to accommodate French prisoners.

3.11 Trench 2 - Phase 8 features

207, **208**, and **223** form three sides of a toilet in the NW corner of the trench, the W side is outside the trench. The walls survived to a maximum height of 450 mm. In the corner of the toilet **214** formed a separate area, perhaps a tank, in the NW corner of the toilet where the walls stood to 200 mm high. **213** is levelling of demolition material used as bottoming for the construction of the toilet.

Against the W side of **208**, **211** is an enamel urinal.

Extending S from an outlet in the SW end of **214**, orange ceramic pipe **222** is to take waste away from the toilet.

In the W section **224** may have been remnants of structure at the W side of the cut, **219**, for the pipe.

The walls in the S end of the trench, **209** and **217** are red brick constructions continuing the line of the stairway immediately to the S of the trench. These structures are thought to be part of the stair construction, perhaps carrying it across to the toilet. At the base of **217**, **218** may be a remnant of a brick floor.

At the end of the trench wall **206** may have been constructed in this phase although the only stratigraphical evidence was that it pre-dated **207** so it is possible that it could be earlier.

The structure is therefore a toilet with a urinal at the E end with a tank of some sort in the SW corner feeding into a pipe running off to the S. There may have been toilet pans in the N part of the structure but if so there is no trace of them surviving.

On a photograph dated 1928 the stairway has not yet been constructed and there is no sign of the toilet. It is possible that the toilets have already been demolished, but it is more likely that the toilets and stair are contemporary and have not yet been constructed.

3.12 Trench 1 - Phase 9 features

These are thought to be Second World War services.

At the W end of the trench, **104** is an area of broken sandstone slabs. Immediately under **104** was a service box, **162** and **104** the capping for it. Cast iron pipe, **122**, took waste away from the base of **162**. **104** takes water from a down pipe in the SW corner of the roof with **122** taking the water S.

SE of **104**, **109** is an iron drain cover below, which fed into, **121**, a cast iron drainage pipe extending W.

110 was a large steep sided pit in the SW part of the trench, it may have been a sump but as part of it is S of the trench interpretation is difficult.

117 was thought to have been a gas pipe, it was certainly out of use. It was later than **112**.

147, toward the E end of the trench was probably a service trench although there was no longer a pipe within it.

3.13 Trench 1 - Phase 10 features

This phase comprises modern services and laying the current gravel ground surface; it is likely to date to the third quarter of the 20th century.

The current gravel ground surface, **101**, and the bottoming for it, **102**, are fairly recent features.

Seen in the N side of **112**, **128** is the (in use) electricity cable. Ceramic pipe **129** forms a sleeve in the S wall of the French Prison taking **128** inside.

145 is the drain that the down pipe taking water from the E side of the French Prison roof runs into. Red ceramic pipe, **135** carries the drain water away to the SW. **183** is bottoming for **135**.

At the E end of the trench **139** is the plastic coated pipe taking water toward the wall of the French Prison. **140** is a blue plastic pipe jointed to the N end of **139** and running 1.50 m E to **146**, an upright wooden box NE corner of the trench. What appears to have happened is that the tap has been re-sighted at the SE corner, from the junction of **139** and **140** of the building, necessitating the addition of **140** onto the original pipe.

3.14 Trench 2 - Phase 10 features

In trench 2, this phase sees the destruction of the **phase 8** structure.

201 and **210** looked to be demolition from the **phase 8** structures. **203** and **204** are areas of a concrete surface, probably finishing the area after the demolition. **202** is thought to be bottoming for the surface seen at **203/204**, possibly reusing demolition debris.

Phase 1 comprises structural remains and burnt and clay deposits. The structure does not look to be remains of a large building and the burning is thought to be indicative of its use, perhaps a forge. None of the deposits in this phase were excavated so there is no dating evidence has been gathered that way but it is seen stratigraphically that it pre-dates the construction of the French Prison. The fact that no reference to a structure here has been seen may suggest that it is relatively early.

The **phase 2** features seem to comprise waste from **phase 1**. There looks to be demolition material here, presumably from the earlier phase suggesting that the building is no longer in use. It may be that the nature of the building/the burning that took place meant that it needed periodical repairing and maybe this could be where some of this phase derives. It is also possible that some of the features, the deposits in particular, are simply **phase 1** waste.

The wall in **phase 3** is impossible to date or even phase with confidence. There is a possibility that it is a remnant of the barrack block seen on an 1827 print and should there be after **phases 4-6**..

The **phase 4** deposit is imported to raise the ground level by 500 mm probably in preparation for the, 1795, construction of the French Prison in **phase 5**.

The main feature in **phase 6** is the stone drain; there are also various deposits thought to be remnants of bedding material for this and other surfaces.

In **phase 7** the **phase 6** drain is repaired, showing it to still be in use and at ground level. The first services are put in these are lead water pipes. The upstanding wall at the W limit of the trench may have been constructed in this phase; this wall is seen on the 1928 photograph.

Phase 8 is thought to date to the Second World War and sees the ground level raised 200 mm, almost to its current level, and a rough stone surface is laid. The bottom part of the doorways through the South wall is blocked with the exception of the central one, which is still in use. The bottom half of the doorways are blocked with stone, the upper part is used as windows.

The stairs to the W of trench 1 are constructed and run down into the area of trench

2, where a toilet is built.

Phases 9 and **10** probably date to the 1950s and 1990s respectively they mostly involve getting services to the building. In trench 2 the **phase 8** building is demolished.

- **Period 1:** Before the French prison, (**Phases 1 and 2**)
- **Period 2:** The W wall, uncertain date, (**Phase 3**)
- **Period 3:** The French Prison 1795, (**Phases 4, 5 and 6**)
- **Period 4:** Early 20th century, (**Phase 7**)
- **Period 5:** 1939-1945, (**Phase 8**)
- **Period 6:** 1945-2002, (**Phases 9 and 10**)

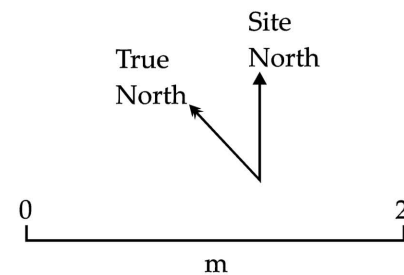
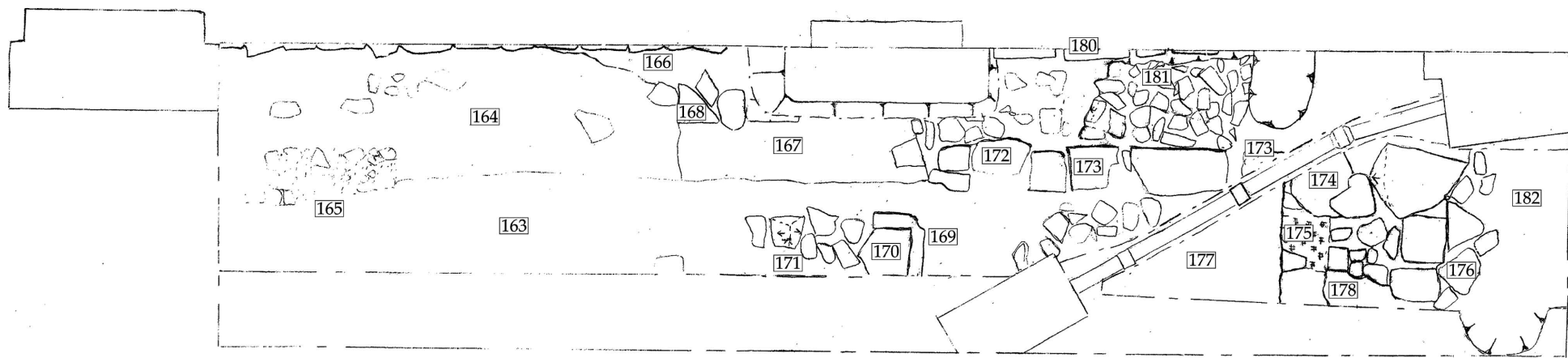


Fig. 3 : Plan showing earliest features in Trench 1

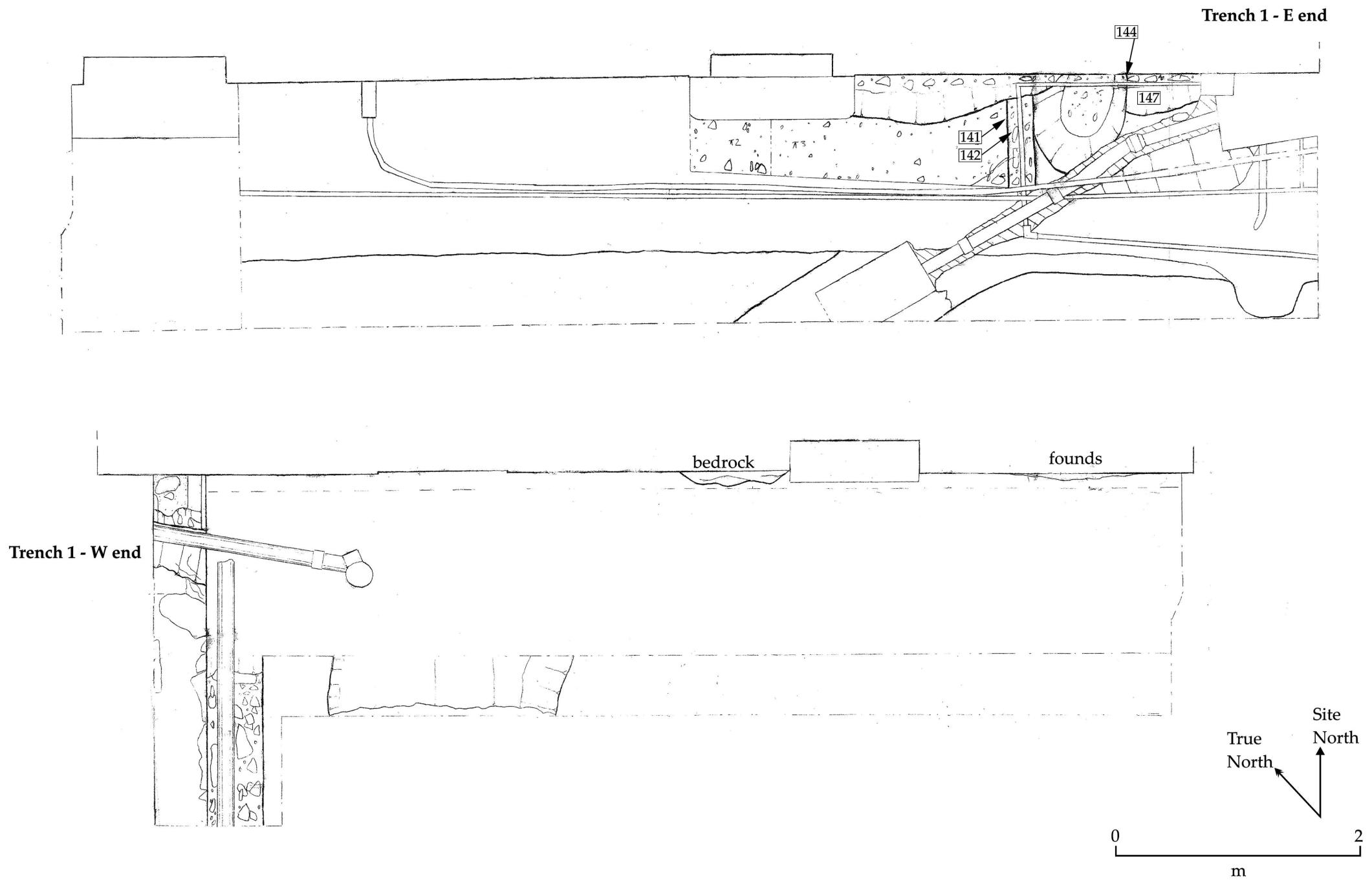


Fig. 4 : Trench 1 after excavation

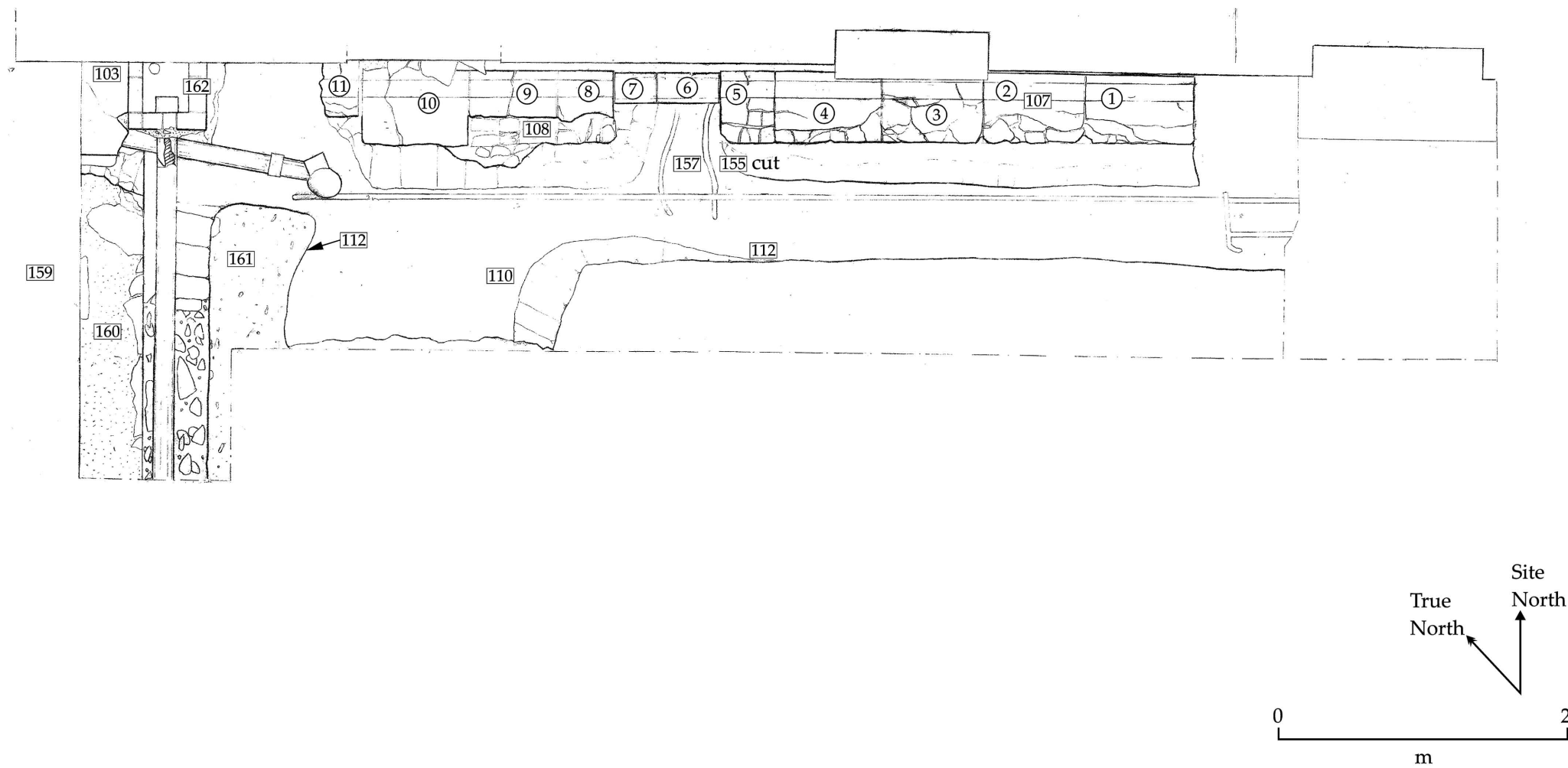
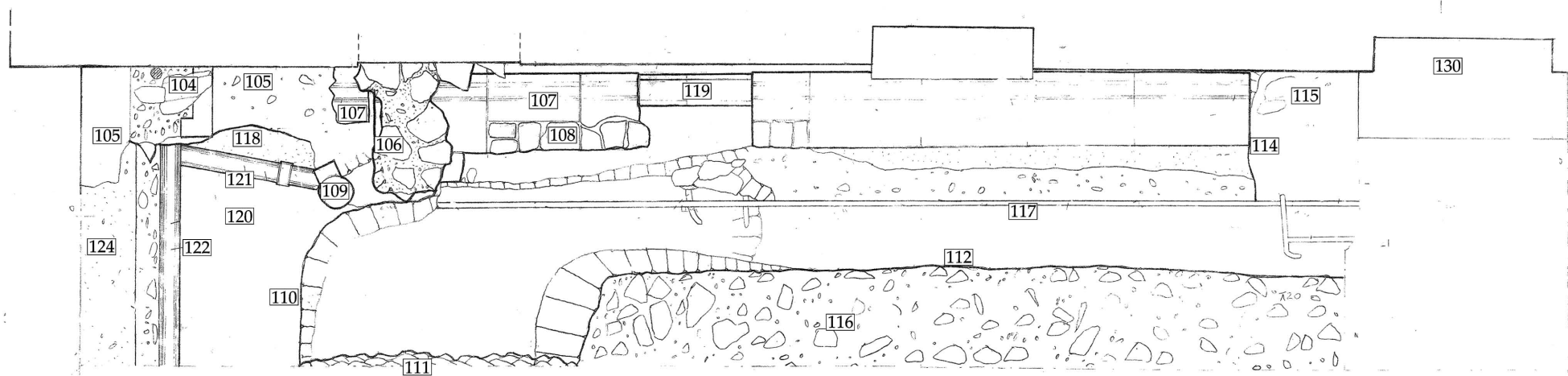
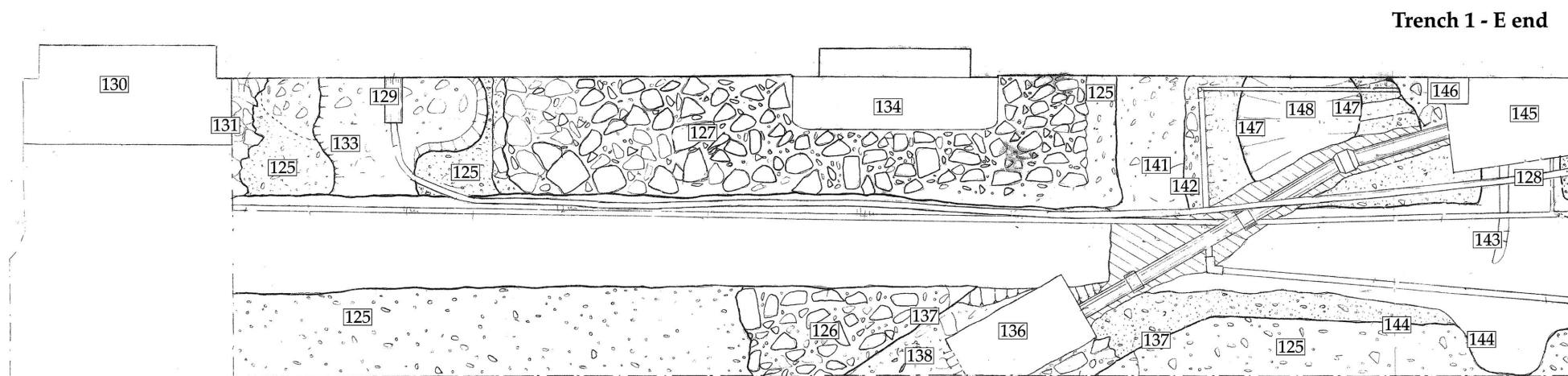


Fig. 5 : Trench 1, W end



Trench 1 - W end

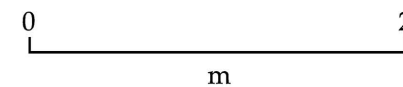
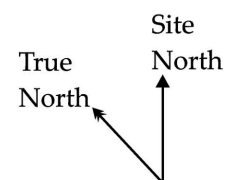
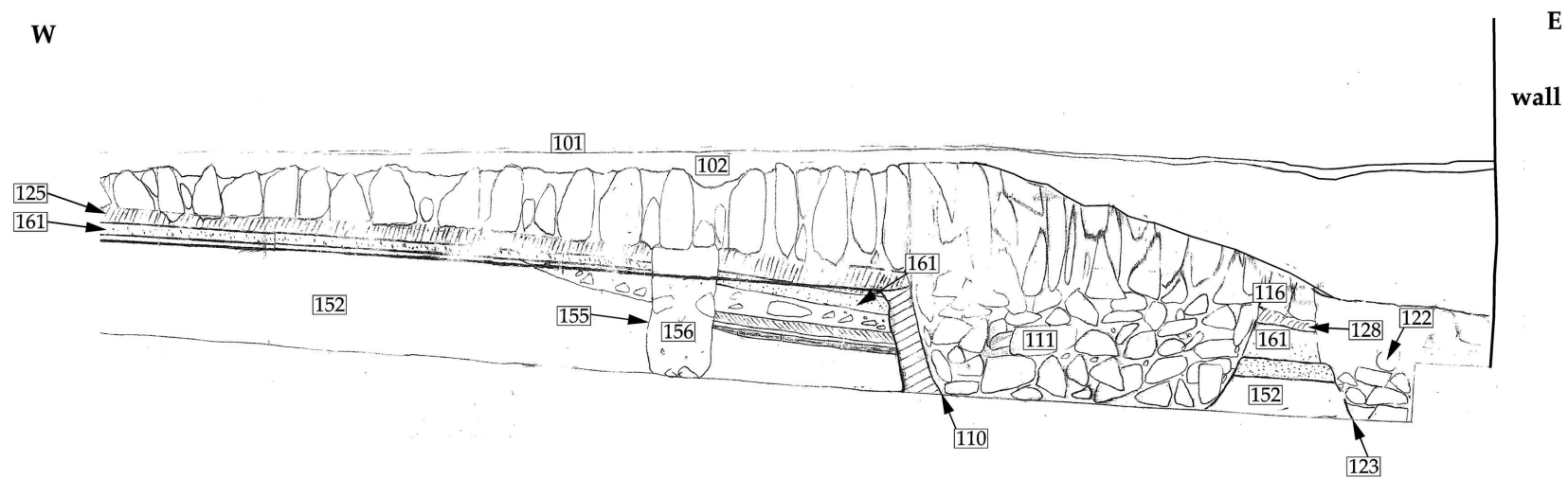


Fig. 6 : Trench 1- most recent features



0 2
m

Fig. 7 : Trench 1- N facing section, W end

Trench 1

#	Description	Phase
101	Current ground surface, sub angular stone chips.	10
102	Bottoming for 101 .	10
103	Sandstone slab in NW corner of the trench.	8
104	Broken slabs E of 103 .	9
105	Mid-dark grey sandy silt and stones, fill of 118 .	9
106	Flat area of grey sandstone slabs, part of blocking of the W doorway.	8
107	Drain formed with rectangular red sandstone slabs that have a "U" shaped groove cut near the N edge.	6
108	Red sandstone cobbles seen at the S edge of 117 .	6
109	Iron drain cover with a pipe running off the base.	9
110	Large straight sided cut at the W end of the trench. Possibly a sump.	9
111	Mix of large stones and mid brown silty clay, fill of 110 .	9
112	E-W aligned cut running through the trench.	7
113	Mix of rubble and grey brown silty clay, fill of 112 .	7
114	Steep sided cut immediately W of the central doorway.	7
115	Mix of rubble and grey brown silty clay, fill of 114 .	7
116	Stones and brick fragments forming a rough surface in the S end of the W half of the trench.	8
117	Iron pipe along the N side of 112 .	9
118	Cut for 109 and 121 .	9
119	Two red sandstone replacement slabs within 108 .	7
120	Compact mid grey silty sand deposit.	8
121	E-W aligned iron pipe running W from 109 .	9
122	Iron pipe aligned N-S along the W edge of the trench, within 162 .	9
123	Cut for 122 .	9
124	Deposit, mix of fine red sand and yellow/light brown mortar.	8
125	Deposit of small stones and fairly compact mid-dark brown sandy silt.	8
126	Stones and brick fragments forming a rough surface.	8
127	Stones and brick fragments forming a fairly good surface in the N end of the E half of the trench.	8
128	Plastic coated cable along the N side of 112 in the E half of the trench.	10
129	Ceramic pipe jointed to 128 .	10
130	Slab at threshold to main door.	7
131	Stones and brick fragments forming a fairly good surface at 130 .	8
132	"T" shaped cut for 129 .	10
133	Fill of 132 , large stones and grey/brown silt.	10
134	Fairly worn sandstone slab forming the threshold into the E door.	5
135	Red ceramic drainpipe.	10

#	Description	Phase
136	Slab over the W end of 135 .	10
137	Cut for 135/136 .	10
138	Fill of 137 , sandstone rubble and mid grey sandy silt.	10
139	Plastic coated pipe.	10
140	Blue plastic extension on 139 .	10
141	E side of N-S cut for 139 .	10
142	Fill of 141 , grey brown sandy silt and stones.	10
143	Lead water pipe.	7
144	Cut for 143 .	7
145	Iron drainage grate and cement setting for it.	10
146	Wooden box covering water tap.	10
147	Cut E of 141 .	9
148	Fill of 147 , grey brown sandy silt with some stones.	9
149	S edge of E-W cut for 139 .	10
150	Mixed deposit of fairly loose mid grey silty clay and stones with mortar patches and lenses throughout.	8
151	Very compact grey silt, may be remnants of a surface.	6
152		4
153	Possible foundation trench in the W side of the trench.	5
154	Fill of 153 , loose mid grey/brown silt and stones.	5
155	Cut, running N from the N side of 112 , for 157 .	7
156	Mix of grey sandy silt and light brown mortar and stones, fill of 155 .	7
157	Two lead pipes in 155 .	7
158	Fairly loose light brown sand forming a fairly level surface under 107 .	6
159	N-S aligned upstanding wall at the W limit of the trench. Formed with coursed sub rectangular sandstone blocks.	7
160	Walling under 159 constructed with rectangular sandstone blocks.	3
161	Fairly even mix of red/brown and yellow/brown sandy gravel.	3
162	Service box formed with whole and part bricks.	9
163	Deposit of fairly compact coal/coke and mid grey silt.	1
164	Fairly compact mid brown slightly silty clay.	1
165	Area of decayed yellow sandstone.	1
166	Fairly compact, clean, mid grey clay.	1
167	Compact red/brown clay and red sand mixed with lumps of stone.	1
168	Area of basalt blocks, possibly structural remains.	1
169	Dressed sandstone block that has raised edges.	1
170	Dressed sandstone block, within 169 , that slopes down to the W.	1
171	Basalt rubble to the W of 169/170 .	2
172	Area of roughly rectangular basalt blocks, possibly structural remains.	1
173	Large sub-rectangular blocks, forming a rough E-W line.	1

#	Description	Phase
174	Large basalt blocks, possible continuation of 173 Westward.	1
175	Sticky yellow/light brown clay at the W edge of 191 .	1
176	Basalt blocks E of 191 .	2
177	Deposit of coal and grey sandy clay.	1
178	Deposit of coal and grey sandy clay	1
179	Fairly compact light-mid grey silty clay and stones.	1
180	Footings of the S wall of the French Prison.	5
181	Area of basalt Chipping's.	2
182	Loose mid grey silt with many charcoal flecks.	2
183	Fairly loose grey/brown sandy silt.	10
184	Compact mid-dark grey sandy silt with small stones and charcoal flecks.	8
185	Compact red/brown silty clay.	8
186	Mix of coal, charcoal and mid brown clay.	8
187	Yellow brown mortar and gravel.	6
188	Dark grey/black silt.	2
189	Deposit of mid grey sandy silt.	2
190	Area of basalt rubble over 163 .	2
191	Mix of basalt and burnt sandstone.	1
192	E-W trench with a steep S edge, foundation trench for French Prison.	5
193	Mid grey silt with occasional large, up to 250mm by 150mm, pieces of basalt and 15% small (60mm by 40mm) pieces with mortar flecks throughout.	5
194	Foundation trench to the E of, and cut by, 147 .	5
195	Fill of 194 , fairly loose mid grey/brown silt with 40% sub angular pieces of basalt and occasional mortar flecks.	5

Trench 2

#	Description
201	Mix of rubble and grey silt
202	Area of broken brick and grey brown silt under 201 and 203 .
203	Concrete pad at the N end of the trench.
204	Concrete pad in the middle of the trench.
205	W face of the W wall of the French Prison.
206	Wall at the N end of the trench.
207	E-W wall at the N end of the trench.
208	N-S wall at the N end of the trench.
209	N-S wall at the S end of the trench.
210	Broken brick rubble mixed with mortar and grey brown silt.
211	Enamel urinal set in course concrete within walls 207 + 208 .
212	Stone and concrete base for 211 .
213	Rubble infill within walls 207 , 208 and 223 .
214	Rectangular brick box W of 211 .

#	Description
215	Foundations of 205 .
216	Cement base of 208 .
217	Red brick wall at the S end of the trench and under the stair S of the trench.
218	Brick footings of 217 .
219	N-S cut at the S end of the trench.
220	Cement under 209 .
221	Fill of 219 , very mixed deposit.
222	Orange ceramic drain pipe within 219 .
223	Brick wall joining 208 to 214 .
224	Crude surface of bricks, seen in the W section.
225	Deposit seen at the base of the E end of the trench.

A2.0 APPENDIX 2: LIST OF DRAWINGS

#	Type	Scale	Description
1	Plan	1:200	Location
2	Plan	1:20	Plan showing most recent features in Trench 1
3	Plan	1:20	Plan showing most recent features in Trench 1
4	Plan	1:20	Trench 2
5	Plan	1:20	Trench 1
6	Plan	1:20	Trench 1 W end
7	Plan	1:20	Trench 1
8	Section	1:20	Trench 1 W end N facing section
9	Plan	1:20	Plan showing earliest features in Trench 1

A3.0 APPENDIX 3: LIST OF PHOTOGRAPHS

HSCO-90107-2007-01-CD1

#	Trench	Description	From	Date
1	1	Opening the trench.	E	19/03/07
2	1	Opening the trench.	SW	19/03/07
3	2	202 removed, 201 and 203.	S	22/03/07
4	2	202 removed, 201 and 203.	S	22/03/07
5	2	202 removed, 201 and 203.	N	22/03/07
6	1	Stone drain 107.	SE	22/03/07
7	1	Stone drain 107.	E	22/03/07
8	1	Stone drain 107.	SW	22/03/07
9	1	Stone drain 107.	S	22/03/07

#	Trench	Description	From	Date
10	1	E end of the trench, 102 removed.	E	26/03/07
11	1	Threshold at the E door and surface 127.	SE	26/03/07
12	1	W end of surface 127.	W	26/03/07
13	1	Trench 112 part excavated.	SW	27/02/07
14	1	W end of drain 107/108 with 112 fully excavated.	SW	27/02/07
15	1	W end of drain 107/108 with 112 fully excavated.	SW	27/02/07
16	1	Detail of 107 under the W door.	SW	27/02/07
17	1	Repair 119 in 107.	SW	27/02/07
18	1	W end of drain 107/108 with 112 fully excavated.	E	27/02/07
19	2	Brick structures.	S	02/03/07
20	2	Structures and pipe at the S end of the trench, 209 and 219-222.	S	02/03/07
21	2	N end of the trench, 213 and 214.	NW	02/03/07
22	2	Deposit 225 against the W wall of the French Prison.	NW	02/03/07
23	2	Toilet structure; 207, 208 and 211-214.	NW	02/03/07
24	1	Mortar deposit 144 under the E threshold.	S	02/03/07
25	2	Toilet; 207, 208, 211 and 213.	W	02/03/07
26	2	Walls 208 and 209.	NW	02/03/07
27	2	Walls 208 and 209 and pipe 222.	S	02/03/07
28	2	Surface 225.	S	02/03/07
29	2	S end of trench, 209, 217 and 218.	S	02/03/07
30	2	N end of trench, 207, 208 and 223.	W	02/03/07
31	1	W end of the trench: wall 160 and pipes 121 and 122.	SW	05/03/07
32	1	W end of the trench: wall 160 and pipes 121 and 122.	S	05/03/07
33	1	Service box 104.	SE	05/03/07
34	1	Junction of walls 159 and 160.	E	05/03/07
35	1	Drain 107/108, slabs numbered for lifting.	SE	07/03/07
36	1	Drain 107/108, slabs numbered for lifting.	SE	07/03/07
37	1	Drain 107/108, slabs numbered for lifting.	W	07/03/07
38	1	Drain 107/108, slabs numbered for lifting.	W	07/03/07
39	1	Detail of slabs 1-3.	S	07/03/07

#	Trench	Description	From	Date
40	1	Detail of slabs 4-7.	S	07/03/07
41	1	Detail of slabs 8-11.	S	07/03/07
42	1	Detail of slab 1 in 107.	S	07/03/07
43	1	Detail of slab 2 in 107.	S	07/03/07
44	1	Detail of slab 3 in 107.	S	07/03/07
45	1	Detail of slab 4 in 107.	S	07/03/07
46	1	Detail of slab 5 in 107.	S	07/03/07
47	1	Detail of slab 6 in 107.	S	07/03/07
48	1	Detail of slab 7 in 107.	S	07/03/07
49	1	Detail of slab 8 in 107.	S	07/03/07
50	1	Detail of slab 9 in 107.	S	07/03/07
51	1	Detail of slab 10 in 107.	S	07/03/07
52	1	Detail of slab 11 in 107.	S	07/03/07
53	1	Possible structure 172.	E	08/03/07
54	1	Phase 1 deposits 163 and 164.	SW	08/03/07
55	1	Detail of 163.	SW	08/03/07
56	1	Early features 172/173, 181 and box 170/171.	SW	08/03/07
57	1	Detail of 172/173 and 181.	SW	08/03/07
58	1	Detail of 170/171.	S	08/03/07
59	1	Detail of feature 165.	S	08/03/07
60	1	E end of the area of early features, 163-165.	SW	08/03/07
61	1	Foundation of French Prison, 180, W end of the E side of trench 1.	S	08/03/07
62	1	Foundation of French Prison, 180, E end of the E side of trench 1.	S	08/03/07
63	1	Detail of 176 and 181.	NE	08/03/07
64	1	Detail of 176 and 181.	S	08/03/07
65	1	Detail of 176 and 181.	NE	08/03/07
66	1	General shot phase 1 + 2 features.	NE	09/03/07
67	1	Wall line 172/173 with features 181 and 190.	SW	09/03/07
68	1	Possible wall at 174, 175/191.	E	09/03/07
69	1	Wall at 174, 175/191 with 172/173 and cobbles 181.	NE	09/03/07
70	1	Central part of the area with early features, 172/173.	NE	09/03/07
71	1	Central part of the area with early features, 172/173.	NE	09/03/07

#	Trench	Description	From	Date
72	1	Wall at 174, 175/191 with 172/173 and cobbles 181.	NE	09/03/07
73	1	W end of the trench backfilled.	E	09/03/07
74	1	W end of the trench backfilled.	E	09/03/07
75	1	Wall 160 at the W end of the trench.	SE	09/03/07
76	1	W end of the trench backfilled.	SW	09/03/07
77	1	Frames 77-82 are of the stones from 107/108 after they have been lifted and stored in the French Prison. Frame 72 shows stones 1 and 2.		09/03/07
78	1	Stones 2,6 and 7.		09/03/07
79	1	Stones 3,4,8 and 9.		09/03/07
80	1	Stones 4,5,10 and 11.		09/03/07
81	1	Stones 3,8 and 9.		09/03/07
82	1	Stones 2,3,7 and 8.		09/03/07

A4.0

APPENDIX 4: LIST OF FINDS

Box no. 1209 (prefix bag no. with 1209-)

Bag #	Material(s)	Quantity	Ctxt	Photo #	Other information
075	Cream and white china	2	111	2381	
076	Brown glazed pottery	3	123	2380	
077	White/blue china	2	154	2379	
078	Cream, white and blue/white china	7	138	2378	
079	Blue and white glazed pottery.	1	133	2377	
080	Cream china	1	123	2375	
081	Brown/cream glazed pottery	5	161	2374	
082	Brown/cream glazed pottery	2	152	2373	
083	Green ceramic bottle top or handle	1	123	2372	
084	Cream china	1	150/152	2371	2 labels in the bag from site.
085	Glass medicine bottles	2	201	2370	1 has partial label. Both have measured tablespoon graduations.
086	Bottle glass	2	101	2369	1 with patina.

Bag #	Material(s)	Quantity	Ctxt	Photo #	Other information
087	Clear vessel glass	1	111	2368	
088	Window glass	1	152	2367	With patina
089	Black bottle glass	1	148	2366	
090	Window glass	1	152	2365	
091	Window glass	3	127	2364	
092	Clear bottle rim	1	127	2363	With patina
093	Vessel glass	1	102	2362	With patina
094	Black bottle glass	1	152	2361	With patina
095	Black glass slag	1	201	2360	
096	Flint core	1	113	2359	
097	Red orange mortar	1	152	2358	
098	Red brick/tile	1	152	2357	
099	Carbon rod	1	201	2356	
100	Tooth brush head	1	101	2355	

A5.0 APPENDIX 5: ARCHIVAL REFERENCES

Site	Dumbarton Castle: French Prison
HS PIC Index no	90107
Kirkdale Project no	HSCO-90107-2007-01
Date(s) of site work	19 February - 9 March 2007

Report files submitted on CD:

Report in MS Word	HSCO-90107-2007-01-Report.doc
TIFFs	HSCO-90107-2007-01-Report Figs 1-5.tif(s)
PDF (Report inc. Figs)	HSCO-90107-2007-01-Report.pdf

Other files submitted on CD:

Photo scans	HSCO-90107-2007-01-CD1- 1-13.jpg(s)
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