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Geophysical Survey

Duntarvie Castle, Winchburgh, West Lothian

Level 4 Historic Building Survey

Report No. 1710

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Date issued	November 2011
Version	0
OASIS Reference	cfaarcha1-92720
Grid Ref	NT 0905 7647

This document has been prepared in accordance with CFA Archaeology Ltd
standard operating procedures.

**Duntarvie Castle, Winchburgh,
West Lothian
Level 4 Historic Building Survey
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0. EXECUTIVE SUMMARY

- 0.1 An historical standing building survey was carried out at Duntarvie Castle, near Winchburgh, West Lothian in 2009–10, in order to fulfill a requirement for recording work described in the building's Conservation Management Plan (CMP). A Written Scheme of Investigation (WSI) formulated by CFA was approved by Historic Scotland. The results presented in this report fulfil the CMP requirement for a Level 4 historic building recording and photographic survey as part of the Scheduled Monument Consent for the refurbishment of the building.
- 0.2 The survey included a digital laser scan of all external and internal elevations, a comprehensive photographic record and an inventory of architectural features. New floor plans and cross sections through the building allow a much better understanding of the building's form and function.
- 0.3 A re-appraisal of the phasing produced earlier has been undertaken and the developmental history of the building is now better understood.

1. INTRODUCTION

1.1 General

1.1.1 Planning background

This report presents the results of a Level 4 standing building survey carried out by CFA Archaeology Ltd (CFA) between September 2009 and January 2011 at Duntarvie Castle, near Winchburgh, West Lothian (NT 0905 7647, Fig 1). Duntarvie Castle is a Scheduled Ancient Monument (SAM) and a Category A listed building.

The project is based on a Written Scheme of Investigation approved by Dr George Findlater (Historic Scotland). The WSI was written in consultation with a Conservation Management Plan (CMP) (AOC 2005; included here as Appendix 5 on CD) for the castle along with a WSI compiled by AOC (AOC 2005). Based on the findings of the AOC report, the owner Mr Nicholsby was granted Planning Permission and Scheduled Monument Consent (SMC) to proceed with conservation works and refurbish the castle as his corporate headquarters.

The CMP document forms the basis of the SMC, and the methods devised for historical building recording within it were adhered to.

1.1.2 CMP Mitigation Strategy

An archaeological mitigation strategy was formulated in the CMP in order to deal with buried archaeological remains within the proposed development boundary. For the purpose of defining mitigation works, the development area was divided into three zones:

- i) Zone A, the castle and narrow margin immediately around it;
- ii) Zone B, the development area around the castle including the footprint of the proposed annexe;
- iii) Zone C, areas of groundbreaking works in the castle grounds outside of Zone B.

This report deals with the archaeological building recording survey undertaken to deal with the item (i) requiring a Level 4 (English Heritage 2006) survey of the building's external and internal elevations.

1.2 Background

1.2.1 Brief history and description

Duntarvie Castle probably dates from the late 16th century, although an earlier castle is believed to have existed at the site. The architectural style of the castle is typical of a very late 16th and early-mid 17th-century fortified country house. When complete it was a long rectangular building of four storeys with two square tower wings of five storeys at the north-east and north-west and with an extension to the south-west that interrupts the symmetry of the building. The castle is built of stone rubble with regular fenestration of square and rectangular windows with chamfered surrounds, some of which have shot-holes beneath. The building had moulded balustrades on top of the two square towers and a central chimney stack dominating the general view of the south elevation. It fell into decline in the 19th century when it was last inhabited and it has remained roofless since. According to the CMP,

the balustrades were gone by the 20th century and the central chimney stack was removed between 1990–94. The east tower collapsed in a storm in 1995.

The building was Scheduled in 1953. The current owner purchased the building and grounds from the Hopetoun Estates. Stabilisation works have been carried out since the early 1990s and various SMC issues have led to slow progress in the conversion of the building. The building is still roofless and the impetus now is to make the building wind and watertight and to arrest further decay.

1.2.2 Previous archaeological work

Duntarvie Castle is described briefly in various general works of the 19th and 20th centuries regarding the history of Scottish castles; these describe the general architectural character of Duntarvie Castle, but do not focus specifically on the building's history or fabric. This issue is addressed in Chapter 6 by Professor Charles McKean.

The Royal Commission on Ancient and Historical Monuments of Scotland (RCAHMS) carried out a survey of the castle in 1991 and drew selected plans and elevations (CMP figs 23–26). A survey was also carried out of the castle grounds (CMP fig 27).

Previous archaeological investigations have been conducted in line with specific SMC consent conditions:

- 1994: watching briefs on service trenches and monitoring rubble removal from the interior of the castle (Scotia Archaeology).
- 1994–5: monitoring the removal of rubble at the west end of the castle (AOC Archaeology Group).
- 1998–9: watching briefs to oversee the insertion of foundations to stabilise the east end of the castle and the base of the collapsed east tower (AOC Archaeology Group).
- 2000: watching brief during the removal of vegetation and sediment from the roof of the west tower (AOC Archaeology Group).
- 2001: part of the west gable was subjected to a fabric survey prior to take-down and reconstruction, and cataloguing of fragments of stone stored in the castle grounds (Kirkdale Archaeology).
- 2002: dendrochronological analysis of roof timbers (AOC Archaeology Group).
- 2004 Inspection by Nick Bridgland to assess the phase development history.

1.3 Objectives

The objectives of the project are:

- to carry out a comprehensive Level 4 (English Heritage 2006) standing building survey to include the interior and exterior elevations of the castle;
- to establish the phase development of the castle based on the results of the survey with an account of the construction sequences on each elevation;
- to produce an illustrated survey report presenting a detailed contextual inventory of all the features that are present on each elevation.

1.4 Report Layout

Section 2 details the methods used during the survey. Section 3 provides a review of the historical research and previous work carried out at the site. Section 4 provides a tabulated inventory of the room layouts and associated architectural features. Section 5 provides architectural descriptions of the internal and external elevations. Section 6 examines the phase development history. Section 7 concludes the report. Bibliographic sources are listed in Section 8.

2. METHODOLOGY

2.1 General

CFA follows Institute of Field Archaeologists Code of Conduct, Standards and Guidelines for standing building recording as appropriate.

2.2 Building Survey

2.2.1 Feature recording

Standard CFA building survey recording forms were completed for each individual room. The feature numbers used earlier by AOC were used for consistency and ease of cross-reference with the CMP. Measurements were taken using a Leica Distometer and hand tapes as appropriate.

Moulding profiles were obtained using a moulding profile gauge. The positions where these were taken are shown on the relative plans and elevations as 'MP'.

2.2.2 Photographic Survey

A comprehensive photographic survey was carried out to record the structure in its current setting and to record details such as former rooflines, historical blocking work and areas of more recent repair or re-build.

CFA used a Canon EOS5D full-frame digital SLR and a Nikon D100 Digital SLR to obtain high-resolution digital photographs of specific architectural features. Standard 35mm slide photography, monochrome print film and digital images were produced for the site archive. Registers of all photographs are included in Appendices 1–3.

Under normal circumstances the photographic survey would ideally have been carried out prior to the construction of scaffolding, but this was not possible here. Where safe access permitted, as much of the interior of the castle, which is less hindered than the exterior elevations, was photographed in its present condition.

2.3 3D Laser Scanning

Laser survey scanning was carried out by Oak Surveys on behalf of CFA using a Leica HDS 6000, and a full 3D laser scan was carried out in all safe accessible areas of the castle. A series of site control points was installed and tied into the Ordnance Survey grid. All scans were pre-controlled with a minimum of two targets. The scan methodology adhered to English Heritage (2007) guidelines and was manipulated in Cloudworx. Table 1 lists all the areas which were subjected to laser scanning and photographic survey. Areas which were inaccessible due to limited access or on Health and Safety grounds are also included.

A combination of the detailed wire-frame construction using the Cloudwork data was transposed into AutoCAD and Adobe Illustrator to produce drawings according to the normal conventions as set out by Historic Scotland. Normal plotting scales were 1:100 and 1:50 as appropriate (English Heritage 2000).

2.4 Drawings

The floor plans produced by RCAHMS were assessed for their suitability for use in the new survey. Where appropriate, information from these plans was transposed into the new survey. This proved useful in providing fabric detail that could not be accessed through laser scanning. Where appropriate such detail was extrapolated from the plans and checked in the field during the follow-up check.

Time was spent on site assessing the draft stage drawings to interpolate areas of new build as required by the Written Scheme of Investigation. Areas of building fabric on the external elevations that were hidden from view were also added to the respective illustrations.

3. HISTORICAL RESEARCH AND PREVIOUS WORK

3.1 Material included in the CMP

An account of the history of Duntarvie is provided in the CMP (Appendix 5). AOC examined the cartographic development of the building and a series of historical maps were also included in the CMP. These were also used to assess the relevant changes to the wider landscape during the formulation of the CMP. These results largely drove the potential for further archaeological research within the locality of the castle. It is clear from this work that the castle did not stand in isolation as it does today but would have had a collection of service buildings such as stables, brewery, dairy and other ancillary buildings.

The following maps, drawings and photographs are included in the CMP (Appendix 5):

- 15 historical maps dating from 1630 to 1927 (Figs 3-12, Figs 14-15, Figs 17-20).
- An etching of the north and east elevations of Duntarvie drawn by Archer in 1835 (Fig 13).
- The north and south elevation drawn by MacGibbon & Ross in 1887 (Figs 16 and 22).
- MacGibbon & Ross also produced ground and first floor plans (Fig 22).
- In 1992 RCAHMS produced ground, first and second floor plans (Figs 23–25).
- Three historical photographs dating to 1994, 1990 and 1982 (Plates 19–20 and 52).
- A large collection of survey photographs taken by Nick Bridgland (Historic Scotland).

3.2 Previous building surveys and archaeological interventions

In order to fulfil the conditions for Scheduled Monument Consent various phases of archaeological fieldwork have been undertaken and the relative sections relating to these elements are listed in the CMP as follows:

- Scotia report. Duntarvie Castle Watching Briefs 1994 (Appendix 8.4)
- AOC Archaeology report. Duntarvie Castle, Data Structure Report for archaeological works 1994 to 1999 (Appendix 8.5)
- AOC Archaeology report. West Tower Roof Watching Brief, 2000 (Appendix 8.6)
- Kirkdale report. Duntarvie Castle, Architectural Fragment Database and Standing Building Recording, 2001.(Appendix 8.7);
- AOC Archaeology. Duntarvie Castle: Dendrochronological Analysis, 2002.(Appendix 8.7)
- Historic Scotland detailed statement and cover letter, May 2004 (Appendix 8.9)
- Duntarvie Castle, Structural engineering summary, Historic Scotland (L Webster), 1997 (Appendix 8.10)
- Duntarvie Castle, Structural engineering condition statement, Robertson Eadie, June 2005 (Appendix 8.11)

4. FLOOR PLANS AND ARCHITECTURAL DESCRIPTIONS

Table 1 provides a summary of the layout on each floor (Fig 2a-c). The descriptions are largely based on the findings of the CMP with the addition of associated features to aid cross-reference to the respective floor plans.

Room	Architectural descriptions	Associated architectural features
<i>Ground floor (Fig 2a)</i>		
0/1	This small room (Pl. 23) is in the base of the north-west tower and has a raised earthen floor with stone rubble walls and a stone barrel-vaulted ceiling. Arrow slit windows are located in the north and west walls, with a smaller square window located in the north wall. The main entry is from the spiral stair (F23) in the north-west corner of the castle, the ground floor of which is still in place. There is an alcove to the west of the south wall (F21).	Windows F16–F18 Alcove F21 Doorway F22
0/2	There was limited access to this small room as the west wall is being re-built and thus access is restricted due to scaffolding. Brief inspection ascertained that the room has stone rubble walls and a barrel-vaulted ceiling. This room is sometimes referred to as the ‘Garden Room’.	Door F20 Window F19
0/3	This room appears to be within a later addition to the castle, with its now collapsed stone barrel-vault formerly abutting the original east wall. There are long rectangular windows on the north and south walls respectively (Pl. 24).	Windows F1 and F15 Door F25
0/4	Rear access to the bread oven. The vaulted ceiling of adjacent Room 0/3 abuts the west wall of this room and is therefore a later addition. In Room 0/4 there is an arched window on the and south wall (Pl. 25). Along the east wall, there is a main entrance to this room from Room 0/5, and another opening to the north of the east wall leading into a small storage space beneath the straight stair. This opening has a cracked lintel (Pl. 26). On the west wall is a small doorway with a heavily cracked lintel flanked by two smaller recesses with large stone surrounds, the southernmost window surround badly cracked (Pl. 27). The small under stairs room is lit by window (F13) but is now blocked. A small aumbray is situated opposite under the stair (F28).	Doorway F25 Doorway F29 into Room 0/4 Recesses F24 & F26 North Doorway F14 Window F2 Fireplace F27 Blocked window F13 Aumbray (F28)
0/5	This main entrance of the building contains a straight stair running up towards the first floor (1/5).	
0/6	This small room represents a later sub-division of the castle’s ground floor, possibly dating to after 1887 as it does not appear in MacGibbon & Ross’s floor plans of the building (Fig 22). However, their sketch may be unreliable as the castle was abandoned and in a ruined state not long after this. In any case, it is later than the original build and comprises stone rubble walls which take in the barrel-vaulted roof formerly part of Room 0/7. The part of the barrel vaulted ceiling in this area is severely bowed (Pl. 28).	Door F30 Window F12
0/7	This large room has an earthen floor and a stone barrel-vaulted ceiling (Pl. 29). Feature F6 is a large fireplace connected with the use of the room as a kitchen, and has a large cracked lintel (Pl. 30). There is a small drainage feature to the east of the north wall (F10). There is an opening in the north-east corner leading to Room 0/9 (Pl. 31).	Passage F31 Windows F5 & F11 Kitchen drain F10 Fireplace F6 Door F30
0/8	This small passageway was accessed via Room 0/9 and likely connected with the workings of the fireplace F6.	
0/9	This small corridor would have led to the original scullery and provided access from the kitchen to the exterior of the house. With an earthen floor and barrel vaulted roof, this area is heavily supported by scaffolding. A small square hatch (F9) with stone surrounds is the bread oven door.	Blocked door F7 Window F8 Bread oven (remains of) (F9)
<i>First Floor (Fig 2b)</i>		

Room	Architectural descriptions	Associated architectural features
1/1	This room (Pls 32 & 33), directly above Room 0/1 in the north-west tower, was located off the spiral stair (F47) on the east wall of the tower. It has a very uneven floor surface and the remnants of wall render can be seen along the north and west walls. The north wall has an arrow slit window flanked by small square alcoves. Above this, the shaped stone characteristic of the fireplaces seen in this level and above mark out the presence of a flue along this wall. The fabric of the north wall is complex and probably represents several phases of remodelling.	Entrance to stairs F48 Windows F32 & F33
1/2	This room (Pl. 34) consists of the spiral stair located in the west wall of the castle rising up to the first floor and is in a ruinous condition.	Stair window F34 Access F49
1/3	This small room is located to the south of Room 1/2 and has lost its ceiling. Access was limited due to the condition of the building here. A former bedroom, this room has had its west wall rebuilt as part of the redevelopment of the building in recent times. New voussoir stones have been inserted into the round-headed window that dominates this room (F35).	Windows F35 & F36 Blocked opening F37 West Tower entrance F49
1/4	This former Hall, perhaps the most important room in the house, is accessed via the straight stair (F28) in 1/5. Although the floor has been built up, a stone slab floor has been exposed and clearly survives in part. However, there is no floor surviving in the western portion of the Hall where the barrel vault over Room 0/3 has collapsed. Above Room 1/4, the ceiling is now represented by a modern replacement timber floor inserted as part of the redevelopment programme at the approximate height of the original beam slots on the north and south walls at second floor level. Plate 35 shows the state of the room in 1994, when it contained a large amount of rubble and before the modern timber floor was inserted. Along the north wall of Room 1/4 is a fireplace (F52), partly blocked to the east, with a small niche in the west internal side (Pl. 36). Three round-headed windows are located along the south wall with dressed stone surrounds and voussoir stones.	Door to spiral stairs F47 Fireplace F52 Spiral staircase F56 Blocked opening F39 Recess F53 Feature F40 Windows F40, F42-3
1/5	Feature 1/5 represents the straight stair from the ground floor to give access to the former Hall (Room 1/4) and Drawing Room (Room 1/6). The straight stair was lit on the north wall by window F46. The two walls on either side of the stairs are re-builds. The original spiral stair (F56) situated on the south wall is still in place albeit in a very ruinous state (Pl. 37). The spiral stair was lit by window (F41) which is immediately above the armorial panel recess situated above the main door on the south-facing elevation (F3).	Feature 1/5 rebuilt walls flanking the straight stair Spiral stair remains F56 Stairs F57 Window F46 Spiral stair window
1/6	This former Drawing Room (as designated by MacGibbon & Ross 1887, see Fig 22) or more reliably the State Apartment would also have been one of the most important rooms in the house, along with the Hall (Room 1/4). Plate 38 shows this room in 1994 before the modern floor was inserted at second floor level. A fireplace and doorway are situated along the east wall (Pl. 39). An opening in the east wall, to the north of the fireplace, would have once given access to the East Tower (Pls 38 & 39). Another blocked fireplace is located in the north wall (F58, Pl. 40). This feature appears to have an undersized lintel and is splayed to the east whilst being recessed straight back to the west. Along the west wall, the room is currently open to Room 1/4. The remains of the original wall separating this room from the straight stair contain a small niche (F54) and a doorway (F55) which would have led to the original spiral stair (F56) giving access to the second floor rooms. The south wall has two round-headed windows (F42 and F43) with dressed stone voussoirs. This would have provided the room with a large amount of light.	Windows F42 & F43 Fireplace F58 Fireplace F59 Doorway F55 Cupboard F54
1/7	This small room behind the east wall of Room 1/6 has a stone-slabbed floor and includes a number of niches in the north and south walls.	

Room	Architectural descriptions	Associated architectural features
	Formal access was from a passage to the north-east tower, but the floor levels have changed.	
1/8	Room 1/8 had limited access and was a small cupboard (F60) with stone rubble walls. Feature F61 is interpreted as a dry closet. The room is lit by window (F44).	Aumbray F62 Closet F61 Cupboard F60 Window F44
<i>Second floor (Fig 2c)</i>		
2/1	This room is part of the west tower in which no floors survive above the first floor. Therefore Room 2/1 could only be viewed from Room 1/1 below. There is a splayed opening on both the north and west walls (Pl. 41). The West Tower here rises for another two storeys to a barrel-vaulted ceiling (Pl. 42), giving the west tower five storeys in total.	Windows F63, F64 & F75 Door to staircase F76
2/2	This spiral stair, in the corner between the east wall of the west tower and the north wall of the main castle block, also rises the full height of the tower, although the original conical stair turret roof seen in earlier depictions of the tower has gone (Pls 43 & 52). The round stair tower has small arrow slit windows in the north-west side with doorways leading into the rooms to the south and west (Pl. 44).	Door to West Tower F76 Door to second floor F77
2/3	Access was limited due to the presence of scaffolding and absence of floor levels (Pl. 58). The walls of this room, in the south-west extension to the castle, largely represent a recent rebuilding of this part of the castle to secure the structure during the redevelopment programme. The west gable wall to this room was subject to a stone-by-stone survey in 2001 by Kirkdale Archaeology prior to dismantling and rebuild. The rebuilt gable wall retained its important features including a small rectangular window and fireplace. There is also a rebuilt doorway along the north side, which would have been the main access to Room 2/1. Fireplace F78 and window F65 are also re-builds.	Fireplace F78 Window F65
2/4	Room 2/4 (Pl. 45) This large room, representing almost the entire upper floor of the main castle block, has stone rubble walls and is roofless. Tranter (1962, 168) mentions that Room 2/4 was originally subdivided into three bedrooms, the central one of which was accessed from the now ruined spiral stair (F84) inside the south wall, and the other two rooms either side would have been accessed by the tower turret stairs (Fig 25). Tranter may have seen something that was not present at the time of the recent survey, the divisions may relate to the position of a library as is present at Binns and Arbuthnott (McKean pers.com.). Room 2/4 is now a single space with a modern timber floor inserted during the redevelopment programme. There are splayed openings to the north and south walls and the wallheads have been rebuilt as part of the redevelopment programme (Pls 45 & 46). The north wall contains a fireplace (F81) and a stone blocked feature (F82, Pl. 60), with F81 venting into the chimney flue and stack (now gone) on the western portion of the north wall (Fig 16, Pls 7 & 20) which is thought to be part of the slightly later western extension to the original main block. On the north wall, to the east of F82, F74 is a small splayed window bay (Pls 46 & 61), which has been rebuilt as part of the general reconstruction of the wall head in this area using breeze block core and stone facing (Pl. 55). Between F82 and F74 is f83 a section of ashlar rebates which appear to be associated with re-used stones. The south wall of Room 2/4 contains five windows in total (windows F66-F70).	Windows F66–F70 Window F74 Fireplace F81 Cupboard F82 Ashlar rebates F83 Spiral stair F84 Fireplace F85
2/5	Access was limited to this small room, now floorless. It has two small windows to south (F71) and east (F72). The lintel above window F71 has been replaced recently (Pl. 2).	Closet F86 Windows F72 & F73

Table 1 Floor plan descriptions and inventory of architectural features.
Plate and Figure numbers in bold are located in the CMP.

5. ARCHITECTURAL DESCRIPTIONS: INTERNAL AND EXTERNAL ELEVATIONS

5.1 General

The exterior and interior elevations at Duntarvie Castle are now summarised. The labelling conventions used on the drawings conform with the feature numbers created in the CMP. This allows for better cross-referencing between the elevations and photographic record.

5.2 North-facing elevation, main core block, east and west towers (Fig 3a, Pl. 1)

The north-facing elevation measures 26.4m long and stands to a height of c.15m at the east end. The elevation is dominated by the two towers situated at each end of the core block.

The west tower stands more or less complete but has lost the balustrade that was formally situated on top of the tower. The tower is framed by ashlar quoins with the main build being coursed sandstone rubble. Three rectangular windows (F91–3) with stone relieving arches towards the west corner lit small tower chambers. The lower window has window bar sockets set in its surrounds. Window F32 is a small rectangular window that lit the stairs on the first floor. The ground floor window (F17) lit room 0/1.

Between the main core block and the tower is a corbelled staircase in which three slit windows are present. Below the corbel there is a blocked slit window (F15) which formerly lit Room 0/3 on the ground floor.

Above the service door providing access from the inner court (F14) is a corbelled chimney which is framed on its east side by ashlar quoins. Two meters above the corbelling is a segmented relieving arch (F95) that was inserted to carry the large lintel in fireplace F52 in Room 1/4 on the first floor. The chimney survives to height of about 2.4m above the wall head of the core block. The main doorway (F14) leads into Room 0/4. Its apparent lack of dressings around the opening raises the question of whether the doorway is an artificial opening.

On the elevation between the two towers, a single rectangular window (F46) is surmounted by two smaller windows F40 and F74. Window F46 has a segmented relieving arch and well defined window bar sockets. Below this window at ground floor level is a small blocked window (F13). At the same level are window F12, which lights the small featureless room (0/6) which is associated with the kitchen (Room 0/7), and window F11, which lit the kitchen. A small spout (F10) is present about 0.8m above the present ground level. This provided a foul water outlet from the kitchen.

Immediately to the east of the kitchen spout is the remains of a bread oven (F9). The oven was constructed of large sub-rounded boulders which have been constructed to form a dome. The oven floor would have been level with the base of the oven door, which survives as a series of ashlar sandstone blocks. The roof of the oven is more or less in section and is well defined with red heat-altered stone. The walls of the oven are approximately 0.8m thick. According to the RCAHMS ground floor plan, the oven was fired from an opening situated on the west-facing return wall of the now collapsed east tower. On the east side of the oven there is a set of door jambs which probably relate to a small cupboard that occupied the interior west wall of the barrel vaulted ground floor of the east tower.

The remains of the east tower survive just above the crow-step gable on the east elevation. The principal features surviving relate to interior of the south wall of the tower and a series of four window openings survive along with a first floor chamber fireplace. No access was gained to the area of the building.

The wall head on the main elevation has been largely re-built and includes a moulded string course and rebuilt window F31. The area of the new build has been highlighted to show the difference between new and old building fabric. Feature number 'F96' has been assigned to all areas of re-build carried out by the present owner.

5.3 East-facing elevation, main gable and east tower remains (Fig 3b, Pls 2–3)

The east-facing elevation contains the main east gable wall and the south and east-facing surviving walls of the east tower. The main gable wall survives to height of approximately 14.7m and would have been roughly 9.9m wide when the tower was intact.

Within the main gable there are two window openings, the lower window (F44) lit a small room on the first floor (1/8) which may have functioned as a muniments room. The window has ashlar surrounds with window bar sockets. Lighting the second floor room (2/5) is a smaller window (F72). The gable has twelve crow-steps which are all uniform blocks of sandstone. The stone skew-put is a recent replacement.

The surviving east-facing wall of the tower has the remains of four window rybatts, (FRb) the lower two with sockets for window bars. The windows shared the same vertical alignment and seem to have been the same order of size. A single slit window is present on the ground floor (F98) and this is blocked.

5.4 West-facing elevation incorporating gable wall and west tower (Fig 3c, Plate 4)

The west-facing elevation formed the west gable. The elevation in its present form stands to a height of 12.5m and 9.3m wide. The west tower is 5m wide and incorporates three small windows (F18, F33 and F34) and three rectangular windows (F33, F64–F102) each with gun-loops below the sill. The windows share the same alignment.

The south side of the elevation incorporates a doorway F20 that leads into Room 0/2. This room is lit by a small rectangular window (F19) on the north side of the doorway. At a height of 0.8m the elevation has been re-built (F96) and comprises a large semi-circular arched opening (F35) measuring 3.7m high and 2.2m wide. This feature is flanked on the south side by two small slit windows (F36 and F99). The window at the wall head is a recent insert (F65).

5.5 South-facing elevation (Fig 3d, Pl. 2)

5.5.1 Ground floor

The south-facing elevation is the most elaborate in terms of fenestration. The entrance doorway (F3) sits at the centre of the elevation and is framed by roll moulded surrounds. The doorway is flanked on the west side by ground floor windows F1–F2, and F4–F5 on the east side. A moulded string-course runs above the door lintel and the first floor level. The course

is 18m long and 3m above the door step. On the right-hand side (east) of window F5 is a small square inlet framed by four dressed blocks of stone (F88). This feature with its sloping sill is interpreted as the freshwater inlet to the kitchen.

5.5.2 First Floor

At first floor level, above the door (F3), is a square armorial plaque with a moulded surround, and above that is a small rectangular window (F41) that lit a spiral stair. Four windows F39–F40 and F42–F43 share the same dimensions (2.4m x 1.1m) and each is surmounted by a segmented relieving arch. These appear to be crude but functional and as the building was harled their irregularity was considered unimportant by the builders. Window bar sockets survive on windows F39–F42.

Situated to the west of window F39 towards the west end of the elevation is a blocked opening (F89) with a pair of lintel stones surmounting it. About 1m above these is a small segmented relieving arch. The blocking work is heavily pointed as part of the rebuild work that has been carried out above. To the left (west) of the aforementioned feature is a second blocked opening (F90) which has a relieving arch and lintel above it. These two enigmatic features relate to openings on the first floor interior (F37 and F38). At the east end of the elevation there is a small window opening (F97) which is not depicted on the RCAHMS plan.

5.5.3 Second Floor

On the second floor there are six windows. Windows F66–F67 and F69–F70 are at the same level, share the same dimensions (1.5m x 1m) and have all had their lintels replaced. A smaller window (F68; 1.1m x 0.9m) would have lit the spiral staircase leading between the first and second floors. At the east end there is a smaller window (F71, 0.7m x 0.4m) which lit a small closet (Room 2/5).

All the windows at second floor level have had their lintels replaced. A new moulded cornice runs the full length of the wall head.

5.6 Internal north-facing elevation (Fig 4a)

The internal north-facing elevation provides a longitudinal section through the castle and shows both the relative thickness of the barrel vault ceilings on the ground floor and more generally the disposition of the different types of fenestration.

5.6.1 Ground floor

At the east end of the elevation is a feature which can best be described as a possible food smoking room (Room 0/8) which is only accessible from within the large chimney in the kitchen Room 0/7. The vault of the kitchen springs above window F5 which is off-centre on the wall. A doorway (F31) opens out into a narrow passage which is lit by window F4. A second opening near the main door (F3) provides access into Room 0/4 which is barrel vaulted and lit by window F2. A doorway on the main spine wall allows access into Room 0/3 which was barrel-vaulted but this is now missing. Room 0/2 is accessed by its own door on the west elevation. Again this room is barrel-vaulted. The vaulted rooms on the ground floor provided the necessary structural support for the two floors and roof above.

5.6.2 *First floor*

This floor was converted into a state apartment approached from the west hall anti-chamber, chamber of dias, and bed chamber in the eastern tower. At the east end of the first floor are features F60 and F61 which are interpreted as cupboards of the possible muniments room. The first floor was divided into two discrete areas, probably by a stone wall now removed. This apartment was lit by windows F42 and F43 respectively. Above the central doorway below window F41 are the remains of a spiral staircase (F56). The treads survive in situ above the window.

To the west of the remains of the spiral stair, there are two arch-headed surrounds with windows (F40 and F39) within them. Between the two windows there is a large arched opening (F53) which contains a high proportion of original lime plaster. This feature is decorative and may at one time have held a series of shelves. On the west side of window F39 are two blocked openings (F38 and F37) either side of the remains of a stone-built wall. The wall at the west end is a complete rebuild incorporating window F36.

5.6.3 *Second floor*

At the east end of the internal north elevation is window F71 which lit a small chamber (Room 2/5) containing a dry closet (F86). Four windows share the same level (windows F66, F67, F69 and F70). Window F68 originally lit the spiral staircase. The wall head has been rebuilt and now carries a new cornice visible on the south-facing external elevation. The floor between the first and second floors is a modern insert.

5.7 **Internal east-facing elevation (Fig 4b)**

5.7.1 *Ground floor*

The east-facing internal elevation provides a good indication of the thickness of the north and south external elevations and the amount of material that was used to construct the vault above Room 0/2 at the west end of the building. The configuration of the vault roof is shown above Room 0/2, which was accessed by doorway F20 and lit by opening F19.

At ground floor level within the west tower, the principal feature is the spiral staircase (F23). Lighting Room 0/1 is window F18.

5.7.2 *First Floor*

The principal feature at first floor level is the large rebuilt opening (F35) which is flanked on the south side by two slit windows F36 and F99. A steel girder has been introduced above to lend support to the second floor. Within the west tower, at first floor level are the windows F34 and F33.

5.7.3 *Second Floor*

Window F100 and the rubble built walls with the remains of original plaster are the only notable features at this level within the west tower.

5.7.4 *Third Floor*

The third floor level of the West Tower is on the same level as the Second Floor level of the main core block of the castle. Within the latter the east-facing wall has been totally rebuilt and contains the window (F65) and fireplace F78. Within the West Tower at third floor level is a central window (F64). A line of floor-joist sockets are present below.

5.7.5 *Fourth Floor*

The fourth floor contains a central window (F102) and the barrel vaulted ceiling of the tower. A large proportion of the ceiling and the wall head has its original plaster

5.8 **Internal west-facing elevation (Fig 4c)**

5.8.1 *Ground Floor*

The internal west-facing elevation provides the profile of the barrel-vault over the kitchen (Room F0/7). The entire wall is taken up by the large fireplace (F6) and the passage (Room 0/9) door that led into the basement of the East Tower. The fireplace lintel is cracked. The thickness of the load-bearing barrel vaulted ceiling is evident.

5.8.2 *First Floor*

The first floor contains fireplace F59 which has roll-moulded surrounds with a segmented relieving arch above. The blocking work is random rubble. A door on the south side of the fireplace leads off into the muniments room (Room 1/8). The stonework above the door to the height of the newly inserted wooden floor is all new build (F96).

5.8.3 *Second Floor*

The second floor contains a fireplace (F85) and chimney breast which is all newly reconstructed. The doorway leads into Room 2/5 which contains a dry closet (F86) and windows F71 and F72 on Fig 2c.

Above the reconstructed fireplace there is a large void providing a cross-section through the flue. Immediately below the crow-step gable is a roof raggle that provides a useful indication that the original roof was steeply pitched and of standard 17th-century construction.

5.9 **Internal south-facing elevation (Fig 4d)**

The internal south-facing elevation is dominated at the west end by the West Tower, the interior of which is inaccessible. The circular staircase from the ground to first floor still survives and is accessed from Room 0/7.

5.9.1 *Ground Floor*

The ground floor incorporates Room 0/7 which had a vaulted ceiling but this has collapsed leaving a large void. Some of the springer vault stones are still *in situ*. The door (F22) leads to Room 0/1 below the West Tower. The entrance to the west stair and the inserted staircase have both been cut into the vault. Room 0/7 was lit by window (F15). A doorway with a

collapsed lintel leads through to Room 0/4. A small blocked fireplace occupies the west end of the room; its chimney is exposed where the stonework has collapsed (F27). The door (F14) is close to the fireplace. The barrel-vaulted roof and rubble-built walls dominate the rest of the room. A small room below the staircase was lit by window (F13) but it is now blocked.

A small featureless ancillary room (Room 0/6) is lit by window (F12) and is interpreted as a small store room associated with the kitchen. The kitchen (Room 0/7) was lit by window (F11) with another on the south-facing elevation. A small square recess (F10) is a kitchen drain. A vaulted passage (Room 0/9) leads off the kitchen, past the bread oven hatch (F9) and to a doorway that allowed access into the basement of the East Tower.

5.9.2 First Floor

The first floor is open with five principal features. These are, from west to east, a doorway (F47) leading to the corbelled staircase, fireplace F52, window F46 that lit the main staircase, another small slit window (F40) and a blocked recess for a cupboard (F58). A large proportion of the east end has been rebuilt (F96). Fireplace F52 had been reduced by half with the insertion of rubble held in place with blocks of ashlar. The surrounds are roll-moulded.

5.9.3 Second Floor

The second floor provided access to the corbelled staircase and the chambers within the West Tower. Fireplace F81 has a rectangular sandstone lintel and roll-moulded surrounds. The chimney breast has fallen away exposing the route of the flue. The remains of a cupboard (F82) occupies the centre of the elevation. This is flanked by a line of ashlar stoneework (F83) which may represent the use of re-used material. Window F74 to the east rests within a large area of modern re-build (F96).

5.10 Moulding profiles

A moulding profile was taken from fireplace (F25 and F59, Figs 5a and 5c). F59 incorporates a segmental quadrant moulding whilst F25 is a simple scroll. The main doorway on the south-facing elevation (F3) has a quadrant mould and angular return (Fig 5b). The string-course and armorial plaque surround situated above the doorway share the same moulding configuration (Fig 5d) which incorporates a large scroll which surmounts a smaller scroll that is flush with the wall. A single masons mark was recorded on the door surround of F3 which incorporates two triangles over a cross (Fig 5e).

6. ANALYSES OF ARCHITECTURAL PHASE DEVELOPMENT

6.1 Introduction

In 2004, Nick Bridgland (formerly of Historic Scotland) proposed five main phases for Duntarvie. These were summarised as:

- Phase 1** A simple tower with spiral outshot stair. The cellar to the west of the scale and platt stair is the ground floor of this tower, with the spiral stair in the middle of the south wall, originally continuing to the ground floor. The reason for identifying this cellar as earlier than the other is the arched form of the window ingos and the fact that the now collapsed vault of the adjoining cellar was not bonded to the wall, indicating that it is a later addition.
- Phase 2** The main block of the building is constructed with additional cellars and a kitchen with adjacent bread oven on the ground floor, two principal chambers on the first floor and four chambers on the second floor. Another wing, now removed, stood to the south and west end, connecting with the first floor doorway in the south wall.
- Phase 3** The north-east and north-west towers with their stairs are added and the doubling up of flues at the east end is carried out, requiring alterations to the kitchen fireplace on the ground floor.
- Phase 4** The south wall is remodeled to provide a uniform façade and the scale and platt stair is inserted requiring alterations to the ground and first floors in this area and alterations to the spiral stair.
- Phase 5** The infill block at the south-west corner of the main building is added.

The dating of these phases was considered by Bridgland not to be easy since they appeared to have happened in fairly rapid succession. Phase 1 might be a 16th-century building on the site when the estate was acquired by the Durhams while Phase 5 would appear to have taken place between the 1757 and 1766 surveys, shortly before the estate was sold by Thomas Jamieson, the last of the Durham family to own Duntarvie. Recent analysis confirms that the phase development history is certainly more complicated than the model above.

6.2 Provisional analysis, by Charles McKean

6.2.1 Introduction

This building was never a castle. It was the seat of the Durhams on an indefensible but beautiful location close to the royal palace of Linlithgow. It is missing key features which make it extraordinarily difficult to interpret. However, the following interpretation follows current scholarship in its presumption of key features, and concludes that we are not looking at an entire building complex. It more resembles the typical mid 16th-century ‘main house’ extension to an existing tower, later substantially modified.

6.2.2 Missing features and curiosities

The following features are not present at Duntarvie:

- a. Principal approach to the demesne leading to outer and inner courts

- b. Main entrance
- c. Outer court – barns and stables
- d. Inner court with essential features – brewhouse, dairy and other offices
- e. Main door and principal staircase
- f. Privy garden (see below)
- g. Clear evidence of the original tower.

It would be *highly unusual* for an estate in the hands of the same family over centuries not to have constructed a tower by the end of the 15th century as the sign of seigneurial ownership, and even more unusual for that not to have been extended from the mid 16th century onwards as changing finance and social fashion indicated. It was usually a particular sign of pride in the 16th century to *retain* the original tower as part of the complex for reasons of rank and filial piety.

The following features are the principal curiosities at Duntarvie:

- a. The double fireplace at the east end of Room 0/7 (F6)
- b. The lack of relationship between ground and upper floors (Fig 7)
- c. The chamber and entrance at the south west end (Room 0/2 and F20)
- d. The relationship of the towers to the main block
- e. The central staircase

6.2.3 Findings and analysis

The following is an interpretation of the structure as shown in Figures 6, 8 and 9.

The main block, judging from the ground floor vault structure, was all built at one time (Fig 6b – blue). There is a problem in the south-west corner, where that wall extends beyond the vault. The vault shows no ground floor evidence of a turnpike stair coming down to ground level and the turnpike stair at first and second floors has been cut into a pre-existing wall.

Both towers were added, to different degrees of disruption. Smaller subsidiary towers, such as these, have been overlooked in the past but are being found much more frequently. A close neighbour with this building form was Thomas Dalyell at the Binns, with whose house there are significant parallels.

The three sides of the **west tower** were built against the *outside*, and required a cut into the main house vault. It has been substantially rebuilt above first floor level. Originally it contained a stair all the way up, as shown by the stair windows, but was altered to provide a noble staircase between ground and main floor, with handsome apartments above reached by a corbelled staircase. This is typical of the late 16th/early 17th century. The upper stonework of this tower carries on flush right across the west gable with no joint. The south wall of this tower has been deeply cut to accommodate the first floor staircase (Figs 8c and 9c).

The **east tower** was cut right into the structure of the main block and caused the double fireplace and the curious chambers between. The east tower's alterations are evident from the two chimney stacks – the original one abutting the main house, and the new one added with the balustrade in the early 17th century (visible in both Archer's drawing and Gillespie (1928)). The south-east tower doorway leads only into the kitchen (Fig 2a and 6a).

The chamber and entrance at the south-west corner. Before the addition of the garden stair, the buildings that survive at Duntarvie lack a main entrance, and the garden stair is not noble enough. The probability is that the entrance was from the north, and the two towers, with their balustrades and chimneys of welcome, were intended to be seen on the approach through the outer and/or inner courts. Unless there was a missing stair in the north façade, (Figs 6d, 8a and 9b) the south-west corner is the only possibility.

The ground floor vault is running lengthways, the less stable and more unusual way, sometimes used for galleries (eg Pitsligo) but almost never for principal buildings.

The straight stair can be dated, by their ‘lugs’, to between the 1630s and 1680s. This was the garden stair from the *piano nobile* to the **privy garden** whose outline and some of whose parterre layout may be discernible in the aerial photograph (Pl. 5). The turnpike stair above at first and second floors has clearly been cut into a *pre-existing* wall (Fig 6b).

The ground floor was never of a quality to be a ‘laigh hall.’ The ground floor structure bears little relation to the building above the string course line (Fig 9a-b).

There is significant disruption of the **north wall** at the upper at the centre of the building – as well as a change in wall thickness (Fig 6c and 8a).

The south façade was remodelled in the 17th century – the ground floor windows enlarged, and the great first floor windows inserted. The arch at the top of the first floor windows has been altered. These windows are unlikely to be 18th-century because: they have the wrong proportion and they had decorative window grilles (very rare after 1660) (Figs 8b and 9a).

The **north façade chimney stack** was added in typical late 16th /early 17th-century fashion (Foulis, Auchonachie etc). There is a question of whether there might have been an adjacent (removed) staircase against the north wall, to explain the disruption (Figs 8a and 9b – light purple).

6.2.4 *The south-west corner*

Four contingent facts:

- a. the north-west tower has corner quoins at ground and first floor but not above, implying it was free-standing when built at least at these levels.
- b. the south wall of this chamber is not only the thickness of the south façade, but thickened to contain stair windows through two full storeys.
- c. the wall joining the two is very thin, and clearly later.
- d. it appears that there was a large window at the west end of the main block (north reveal surviving).

This implies that there was originally a void between the south staircase and the north-west tower, that there was a window from the main house through the gap, and that this void was later filled by construction.

Other issues:

1. The height of the great arched opening in the west façade is far greater than that required of even the noblest doorway (Fig 8c). There are two possible explanations. First, the most logical, is that it matched the vaulted ceiling height of the building from which it opened. The second is that the two towers remained separate and were arched over when works to the upper storey were carried out in the early 17th century, producing a façade not unlike Seton's tower at Fyvie, and most resembling the similarly scaled Saltcoats, by Gullane.
2. A door opens from the south-west façade – possibly blocked when south façade reworked (Fig 9a right).
3. The south-west end of the main façade is the same thickness at first and second floor level, at ground floor, it has been cut away within Room 0/2 (Fig 6b)
4. The south-west gable has residual staircase windows (Fig 8c).
5. At ground floor, the levels inside the south-west tower and main house are lower than in the outside chamber (Fig 9c).
6. The stair in the south-west corner of the western tower enters up to first floor level and the arch (Fig 9c).

One option, therefore, is that the original tower, to which what survives represents different periods of extension and investment, lay against this south-west corner.

6.2.5 Possible chronology (Figs 6a–6d)

Based on the above inspection, this interpretation differs significantly from previous interpretations of Duntarvie (see above, Section 6.1).

1. Inner court and tower – by at least the 15th century,
 - a. Possibility (a); the original tower was the north-west: but there is no surviving sign of an entrance.
 - b. Possibility (b): that this tower lay against the north wall, where there appears to be evidence of substantial disruption.
2. Addition of main house – 15th century? Possible stair tower at the centre of north wall.
3. Addition of towers – 15th century?
4. Reworking of upper north-western tower and addition of chimney – mid/late 16th century? with perhaps the creation of new chambers into a state apartment suite.
5. Complete reworking/gutting of main house above first floor level, new south façade and reworking of the upper storeys of both towers in the early 17th century – 1620s.
6. Insertion of the platt and scale stair from *piano nobile* to garden, with a turnpike stair above it and new windows inserted in the north wall 1630s–1680s. If there had been a staircase or tower to the north, as the wall implies, it was removed at this point. If this was the case, one further possibility might be that a new two-storeyed entrance/stair block was built against the western corner of the south façade.
7. Removal of south-western tower.

7. CONCLUSION

7.1 Historic Building Recording

The Duntarvie Conservation Management Plan C PRIN 8 states that:

A comprehensive and detailed record of the castle, including detailed (ie stone by stone) survey of the interior and exterior, should be made for the public record prior to redevelopment. This record should be fully researched, interpreted and published.

This report has achieved a Level 4 standing building survey (English Heritage 2008) and fulfills the requirement to create a drawn ('stone by stone') record of the building where it has been physically possible to do so within the limits of health and safety. The survey has comprehensively recorded both the external and internal elevations which now provide an accurate and permanent record of the architectural form, layout and distribution of architectural features. A new and more accurate set of ground plans have also been produced.

In line with CFA's Written Scheme of Investigation, the survey has highlighted all areas that have been affected by recent repairs and reconstruction works.

7.2 Photographic Survey

In line with the CMP Section 6.6.2.1 HBR Photography (p. 91), a comprehensive photographic record has been created using monochrome print film and colour slide film which is suitable for long-term archive storage. During the course of the laser scanning work over 700 digital photographs were taken to provide an adjunct to the laser scanning programme.

No access was possible within the floors of the west tower, but the comprehensive photographic survey has captured all significant features that survive within it. No floors survive in the shell of the east tower, but again sufficient architectural detail has been captured during the photographic survey to provide a record as it stands today.

7.3 Reappraisal of the historical development

Duntarvie has been greatly re-modelled in the past and the phase development history is complex and complicated. Certain questions could only be addressed by archaeological intervention to shed light on the relationship of missing elements, such as the missing tower that occupied the south-west corner of the main core block. Sometime during the 17th century the main elevations are re-modelled with a marked symmetry in design both to the front and of the rear elevations. The entrance-doorway is more or less centrally placed in the main frontage. The string-course running horizontally across the main entrance embraces the armorial-panel recess situated above the entrance doorway. The string-course is a device which was commonly employed to give unity to the various constituent parts of an elevation and according to Dunbar (1966, 78) has its roots in Renaissance vocabulary.

The difficulty in Scottish architectural history has been to match the typically continuous evolution of its Renaissance country houses with a fondness for recognisable shapes. (McKean, 1996, McKean 2002.1 Ch. 4, McKean 2002.3). It becomes much more difficult without a holistic understanding of the complex of which the surviving building is only a

part, an understanding of the changing typologies, to recognise what was typical and what was not, and a methodology based upon architectural understanding (McKean 1999, McKean 2003.2, McKean 2004). For example, the south façade string course is unevenly situated; but makes sense once it is supposed that there was a structure at its west end.

Duntarvie was evidently a more significant demesne than has been allowed to date, and its 'main house' complete with towers was elaborate and well built, (McKean 2002.2, McKean 2003.1, McKean 2003.3). To a tower (whose location is still very uncertain), (McKean 2007, McKean 2010.2, McKean 2011) a long rectangular block was added with a staircase at its south-west end. Two towers of differing scales were then added to the east and west ends. In the late 16th century, the north-western tower was probably remodelled and the great fireplace inserted in the north wall.

In the early 17th century, the main block was gutted and refitted with two state apartments, the south façade reworked with its enormous windows, and the two towers refashioned to provide fine, spacious, warm well-lit rooms, with turnpikes that carried on up to two belvederes. It is possible that an external stair tower was added at this point to provide access to the garden.

Not long afterwards, an internal stair was introduced, and the south façade reworked, to provide an access from the main floor to the garden. The insertion of that garden stair altered the centre of the building and would have caused the removal of any staircase or tower lying against the north at that point.

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APPENDIX 1:35MM SLIDE FILM PHOTOGRAPHIC REGISTER

Shot No.	Summary description of subject	Location & Feature No	Comment
<i>Film 1</i>			
1/1	Registration Shot	N/a	N/a
1/2	South-facing external elevation of the East Tower	N/a	Bright
1/3	South-facing external elevation, east end, quoin detail		Bright
1/4	South-facing external elevation, window detail (bay 1)		Bright
1/5	South-facing external elevation, window detail (bay 2)		Bright
1/6	South-facing external elevation, window detail (bay 3)		
1/7	South-facing external elevation, window detail (bay 4)		
1/8	South-facing external elevation, window detail (bay 5)		
1/9	South-facing external elevation, blocked features		Bright
1/10	North-facing elevation, west end, outshot West Tower		Bright
1/11	East-facing return of West Tower, upper section		Bright
1/12	East-facing return of West Tower, lower section		
1/13	North-facing external elevation, corballed-out section, FP relieving arch		Bright
1/14	North-facing external elevation, mid section, oblique		Bright
1/15	North-facing elevation, east end, general shot		Bright
1/16	North-facing elevation, remains of the oven		Bright
1/17	North-facing elevation, oven and oven door, detail shot		Bright
1/18	North-facing elevation, oven and East Tower features		Bright
1/19	North-facing elevation, East Tower upper detail		Bright
1/20	North-facing elevation, East Tower upper detail		Bright
1/21	North-facing elevation, East Tower upper detail		Bright
1/22	North-facing elevation, East Tower return wall and pinning work		Bright
1/23	East-facing elevation, outshot wall upper section masked by scaffolding		Bright
1/24	East-facing elevation, crow-step gable, general detail		Bright
1/25	West-facing elevation, centred on the middle arched opening		Bright
1/26	West-facing elevation, oblique view with south-facing corner of the West Tower		Bright
1/27	South-facing elevation, moulding detail around the main door		Bright
1/28	South-facing elevation, moulded stonework surrounding the armorial plaque mount		Bright
<i>Film 2</i>	FILM 2 CORRUPTED FILM (CF)		
2/1 (CF)	General shot of kitchen (F07)	GF F6	Flash
2/2(CF)	General shot of window in the GF kitchen	GF F11	Flash
2/3(CF)	General shot of kitchen drain	GF F10	Flash
2/4(CF)	General shot of the passage near bread oven	GF F9	Flash
2/5(CF)	General shot of the oven doorway within passage 0/9	GF	Flash
2/6(CF)	Spoilt shot	---	---
2/7(CF)	General shot of window the kitchen	GF F11	Flash
2/8(CF)	Entrance doorway into feature 0/6 passage	GF F30	Flash
2/9(CF)	Window F/12 in Room 0/6 Storeroom	GF F12	Flash
2/10(CF)	Doorway surrounds leading from storeroom 6/6 to 0/7	GF F30	Flash
2/11(CF)	General shot of the entrance to the passage on ground floor	GF F31	Flash
2/12(CF)	General shot of the passage steps leading FROM main entrance	GF F31	Flash
2/13(CF)	General shot of the barrel vault over the main passage to the Kitchen	GF F31	Flash
2/14(CF)	General shot of the doorway on the north elevatiuon taken from within Room 0/4	GF F14	Flash
2/15(CF)	General shot of the entrance into the small room (F28) under the main staircase	GF F28	Flash
2/16(CF)	General shot of a small aumbray on the south wall within Room		Flash

Shot No.	Summary description of subject	Location & Feature No	Comment
	F28		
2/17(CF)	General shot of the blocked window (F13) on the north elevation	GF F/12	Flash
2/18(CF)	General shot of Window F2 on south elevation from within Room 0/4	GF F/2	Flash
2/19(CF)	General shot of Doorway F25 and flanking features (F24 and F22)	GF F25/F24/F22	Flash
2/20(CF)	General shot of Fireplace F27 in Room 0/4	GF F27	Flash
2/21(CF)	General shot of the blind window F15 in Room 0/3	GF F15	Flash
2/22(CF)	General shot of the collapsed lintel on Doorway F25 from within Room 0/3	GF F25	Flash
2/23(CF)	General shot of Window F1 on the S elevation in Room 0/3	GF F1	Flash
2/24(CF)	General shot of the doorway and vault line in Room 0/3 from the GF spiral stair to West Tower		Flash
2/25(CF)	Detailed shot of the spiral stair in F23	GF F23	Flash
2/26(CF)	Detail shot of Window F17 within Room 0/1	GF F17	Flash
2/27(CF)	General shot of the Window F16 from within Room 0/1	GF F16	Flash
2/28(CF)	General shot of Window F18 from within Room 0/1	GF F18	Flash
2/29(CF)	General shot of the entrance F22 looking out of Room 0/1	GF F22	
2/30(CF)	Detailed shot of heavy moulding above the doorway out of the GF West stair tower staircase		Flash
2/31(CF)	General shot of Doorway F47 and wall between FP F52	FF F47	Flash
2/32(CF)	General shot of Fireplace F52 in the main hall	FF F52	Flash
2/33(CF)	Detail shot of the remains of the flagstone floor of the main hall in front of fireplace F52	FF Flags stones	Flash
2/34(CF)	General shot of Window F46 opposite main staircase	FF F46	Flash
2/35(CF)	General shot of Fireplace F58 on the north elevation	FF F58	Flash
2/36(CF)	General view of the main hall facing Fireplace F59	FF F59	Flash
<i>Film 3</i>			
3/1	General shot of the doorway leading to Room 1/8	FF Room 1/8	Flash
3/2	Detailed shot of Window F43	FF F43	Flash
3/3	Detail shot of Window F43	FF F43	Flash
3/4	General shot of the Doorway F55 below the spiral stair and Aumbray F54	FF F55 & F54	Flash
3/5	General shot looking down the Main Stair F28 from the FF	FF onto F28	Flash
3/6	General shot of the remains of the Spiral Stair F56 from the main hall	FF F56	Flash
3/7	General view of Window F41 lighting the spiral stair F56	FF F41	Flash
3/8	General view of Window F40 from within the main hall	FF F40	Flash
3/9	General view of the arched recess on the south elevation	FF F53	Flash
3/10	General oblique view of Window F39	FF F39	Flash
3/11	General view of modern blocking work in Feature F38	FF F38	Flash
3/12	General view of modern blocking work in Feature F37	FF F37	Flash
3/13	General view of the rebuilt W. Tower entrance at FF level		Flash
3/14	General view of the broken window opening on the main block	FF F50	Flash
3/15	General view of the main hall taken from the West Tower		Flash
3/16	General shot of the Fireplace F81	SF F81	Flash
3/17	General shot Feature F82	SF F82	Flash
3/18	General view of new build at the wall head on the N elevation		Flash
3/19	General view of Fireplace F85 at east end of SF	SF F85	Flash
3/20	General shot of the doorway leading to Room 2/5	SF 2/5	Flash
3/21	General oblique shot of the window F70	SF F70	Flash
3/22	General view of Window F69 and F68	SF F69 & F68	Flash
3/23	Vertical shot down the spiral staircase F84	SF F84	Flash

Shot No.	Summary description of subject	Location & Feature No	Comment
3/24	General shot of Window F67 & F68	SF F67 & F68	Flash
3/25	General view of new build above Windows F65 and unnumbered fireplace	SF F85	Flash
3/26	Upper segmented arch and door lintels of the rebuilt W tower		Flash
3/27	General view of the modern blockwork on the rebuilt W Tower		Flash
3/28	General view of the opening into the corballed-out spiral stair		Flash
3/29	General view of Window F32 and aumbray on the E side	FF WT	Flash
3/30	General view of Window F32 and aumbray of the W side	FF WT	Flash
3/31	General view of the doorway to the corballed-out staircase	FF WT	Flash
3/32	General shot of Feature 37	FF WT	Flash
3/33	General shot of the door jamb from spiral stair to FF West Tower	FF WT	Flash
3/34	General shot of the stairs in the corballed-out stair turret	FF WT	Flash
3/35	General shot of the fireplace in N wall of West Tower, south-facing elevation	FF WT	Flash
3/36	General shot looking up W Tower window on N wall, east-facing elevation	FF WT	Flash
<i>Film 4</i>			
4/1	General view of upper fabric of corballed out staircase and Doorway F77	SF 2/4 F77	Flash
4/2	General view of top of lower entrance within the spiral staircase 2/2	SF 2/2	Flash
4/3	Vertical shot taken from 2/4 down the spiral staircase 2/2	SF 2/4 2/2	Flash
4/4	General view of stair treads of 3 rd floor level of corballed-out spiral staircase 2/2	SF 2/4 2/2	Flash
4/5	General view of sockets for stair treads at 3 rd floor level of the corballed-out spiral staircase 2/2	SF 2/4 2/2	Flash
4/6	General view of door jambs on N side of the door leading to 4 th floor of West Tower	2/4 2/2 2/1	Flash
4/7	General view of arrow slit window F32 in West Tower 1/1	FF 1/1 F32	Flash
4/8	General view of Window F33 in West Tower 1/1	FF 1/1 F32	Flash
4/9	General view of the doorway F47 into the FF Hall from West Tower 1/1	FF 1/1 F47	Flash
4/10	General view of door F48 leading into the corbelled out stair tower	FF F48	Flash
4/11	General view of door jamb F48 and iron hangers	FF F48	Flash
4/12	General view of steps within spiral staircase in West Tower	FF	Flash
4/13	General view of opening and jambs on doorway F47 from within the corballed-out spiral stairs		Flash
4/14	General view of 2 nd and 3 rd floor windows of West Tower, E-facing elevation		Flash
4/15	General view of spiral steps from GF level in West Tower		Flash
4/16	General shot of windows on West Tower F64 and above		Flash
4/17	General view of a fireplace at 2 nd floor level of West Tower		Flash
4/18	General view of window detail on west side of the 2 nd floor West Tower fireplace		Flash
4/19	General view of wall detail to east of fireplace and aumbrys in West Tower		Flash
4/20	Looking up on doorways within corballed out staircase		Flash
4/21	General view of roll-moulded lintel above the doorway leading to West Tower from the ground floor Room 0/3		Flash
4/22	Interior of Room 012, south-facing elevation, west end		Flash
4/23	Interior of Room 012, south-facing elevation, west end		Flash
4/24	Interior of Room 012, south-facing elevation, west end		Flash

Shot No.	Summary description of subject	Location & Feature No	Comment
4/25	Interior of Room 012, north-facing elevation, west end		Flash
4/26	Interior of Room 012, east-facing elevation, doorway		Flash
4/27	Interior of Room 012, east-facing elevation, window		Flash

APPENDIX 2: 35MM MONOCHROME PRINTS PHOTOGRAPHIC REGISTER

Shot No	Summary description of subject	Location & Feature No	Comment
<i>Film 1</i>			
1/1	General distance shot of the E-facing elevation of the E tower	GF	
1/2	General shot of the crow-stepped gable on the E-facing elevation	GF	
1/3	General oblique shot of the collapsed corner of the E Tower	GF	
1/4	General view of the east-end of the E-facing elevation	GF	
1/5	General view of the E gable, S-facing elevation	GF	
1/6	General view of the main entrance F3	GF F3	
1/7	Close-up of the Door F3 and armorial plaque moulding	GF F3	
1/8	Distance view of the South-facing elevation, mid section	GF	
1/9	West wall of the S-facing elevation, SW corner	GF	
1/10	General fabric detail on Windows F1, F37 & F39	GF	Oblique view
1/11	General view of the S-facing elevation of the W Tower, SW corner	GF	
1/12	General shot of the W Tower	GF	
1/13	General view of the arched opening F35	FF F35	
1/14	General shot of the w-facing elevation of the W Tower		
1/15	General view of the W Tower 1 st -4 th floor fenestration	FF-Fth F	Oblique view
1/16	West Tower, N-facing elevation at NW corner	GF	
1/17	West Tower, N-facing elevation	GF	General view
1/18	General view of the corballed out staircase F2/2	GF	
1/19	North door, F 14 and corbelled-out section of the chimney on N-facing elevation		
1/20	General view of the fabric above the corbelled-out chimney on N-facing elevation		
1/21	General view of the mid-section of the N-facing elevation		Distance shot
1/22	Close-up of the kitchen drain spout F15 on N-facing elevation		
1/23	General shot of the bread oven F9 on N-facing elevation		
1/24	General shot of the bread oven doorway F9		
1/25	General view of the stone vault (remains of) above the bread oven F9		
1/26	Ground floor of the return wall of the E-Tower on N-facing elevation		
1/27	General shot of the 1 st -4 th floor windows on N-facing elevation of the E-Tower		
1/28	Looking upwards on the void between the E-Tower and N-facing elevation		Oblique shot
1/29	Vault springers and the doorway to the kitchen passage from the east		General shot
1/30	Small splayed window on the W-facing wall stub of the E-Tower		
1/31	E-facing tower at GF level window and quoins		General shot
1/32	Underpinned doorway at GF level on E-Tower		
1/33	South-facing elevation of the E-Tower 1 st -4 th floor fenestration		General shot

Shot No	Summary description of subject	Location & Feature No	Comment
1/34	South elevation, SE corner bench mark on the quoins		Close up
1/35	Crow step gable on E-facing elevation, fabric detail		Close up
<i>Film 2</i>			
2/1	General shot of Fireplace F6 in Kitchen 0/7	GF 0/7, F6	Flash
2/2	General shot of wall and Window F5 in Kitchen 0/7	GF 0/7, F5	Flash
2/3	General shot of wall and Window F11 in Kitchen 0/7	GF 0/7, F5	Flash
2/4	Detail shot of Kitchen 0/7 Drain F10	GF, 0/7, F10	Flash
2/5	General shot of Doorway F30 from within Kitchen 0/7	GF, 0/7, F30	Flash
2/6	General shot of Window F11, inside Kitchen 0/7	GF, 0/7, F11	Flash
2/7	General shot of Door F30 inside Room 0/6	GF, 0/6, F30	Flash
2/8	General shot of Passage 0/9 to East wing	GF, 0/7 on 0/9	Flash
2/9	Detail shot of aumbrey in Fireplace F6 in Kitchen 0/7	GF, 0/7, F6	Flash
2/10	General shot of the doorway leading to F0/8	GF, 0/8	Flash
2/11	General shot through Passage F31 from Kitchen 0/7	GF, 0/7, F31	Flash
2/12	General shot through Passage F31 from main doorway F3	GF, F31	Flash
2/13	General shot of the doorway F29 into Room 0/4 from within 0/5	GF, 0/5, F29	Flash
2/14	General view of Wall 0/4 and Window F2 from F14 doorway	GF, 0/4, F2	Flash
2/15	General view from within 0/4 on the door and flanking walls to the room below the main stair	GF, 0/4	Flash
2/16	General view of Door F14 and Fireplace F27 in Room 0/4	GF, 0/4 F14 & F27	Flash, oblique shot
2/17	General shot of Door F25 in Room 0/4	GF, 0/4, F25	Flash
2/18	General shot of aumbrey F28 and stairs	GF, F28	Flash
2/19	General shot of a Blocked window F13 within the room below the main stairs	GF, F13	Flash
2/20	Blind window F15 inside Room 0/3	GF/ 0/3, F15	Flash
2/21	General shot of the Doorway 0/4 from within Room 0/3	GF, 0/3, F25	Flash
2/22	General shot of Window F1 in Room 0/3	GF, 0/3, F1	Flash
2/23	General shot of the door leading to Passage F23 from within Room 0/3	GF 0/3, F23	Flash
2/24	General shot of spiral stair at base of W Tower	GF, F23	Flash
2/25	General view of Window F17 from within Room 0/1		Flash
2/26	General shot of Window F16 in West Tower 0/1	GF 0/1, F16	Flash
2/27	General shot of Window F18 in West Tower 0/1	GF 0/1, F18	Flash
2/28	Detail of roll-moulded lintel on door into base of West Tower stairs	GF within F23	Flash
2/29	General shot of window and stairs leading up into the West Tower from Passage F23	GF	Flash
2/30	Profile of the vaulted ceiling over Room 0/3	GF 0/3	Flash
2/31	General shot of the segmented vaulted arch over the main staircase	GF/0/5	Flash
2/32	General shot of segmented arch over the passage F31	GF F31	Flash
2/33	General shot looking down the staircase 1/5 from FF landing	FF 1/5	Flash
2/34	General view of the east side Wall F57 flanking the staircase at FF	FF F57	Flash
2/35	General view of the west side Wall F57 flanking the staircase at FF	FF F57	Flash
2/36	General shot of the remains of the spiral stair case F56 from main hall ¼	FF 1/4, F56	Flash
<i>Film 3</i>			
3/1	General shot of Doorway F47 leading to the corbelled-out spiral staircase on north elevation	FF 1/4 F47	Flash
3/2	General shot of the half blocked FP F52	FF 1/4 F52	Flash
3/3	General shot of Window F46 in main hall	FF F46	Flash

Shot No	Summary description of subject	Location & Feature No	Comment
3/4	General shot of blocked FP F58	FF 1/6, F58	Flash
3/5	General shot of Fireplace F59 in main hall	FF 1/6 F59	Flash
3/6	General shot of interior of Room 1/8	FF 1/8	Flash
3/7	General shot of Window F43 in main hall 1/6	FF 1/6, F43	Flash
3/8	General shot of Window F42 in main hall 1/6	FF 1/6 F43	Flash
3/9	General shot of Doorway F55 and cupboard F54	FF 1/6 F55 and F54	Flash
3/10	General shot of Spiral staircase F56 from ¼	FF 1/4 F56	Flash
3/11	Detailed shot of Spiral staircase F56	FF 1/4 F56	Flash
3/12	General shot of Window F40	FF 1/4 F40	Flash
3/13	General shot of blind arched opening F53	FF 1/4 F53	Flash
3/14	General shot of blocked feature F39	FF 1/4 F39	Flash
3/15	General shot of blocked feature F38	FF 1/4 F38	Flash
3/16	General shot of blocked opening F37	FF 1/4 F37	Flash
3/17	General shot of rebuilt West Tower doorway F49	FF 1/3 F49	Flash
3/18	General shot of Feature F50	FF F50	Flash
3/19	General shot of Main Hall ¼ from Feature F50	FF ¼	Flash
3/20	General shot of fabric above Window F46	FF F46	Flash
3/21	General shot of Fireplace F81 in 2/4	SF F81	Flash
3/22	General shot of Features F82, F83 and F74 and new build above	SF F82-3, F74	Flash
3/23	General shot of new wall rebuild at east end of SF, north elevation	SF 2/4 rebuild	Flash
3/24	General shot Fireplace F85 and crow-step gable	SF 2/4 F85	Flash
3/25	General detailed shot of Fireplace F85 in 2/4	SF 2/4 F85	Flash
3/26	General shot of opening into Room 2/5	SF 2/4 2/5	Flash
3/27	General shot of the roof raggle below the crow step gable at east end of 2/4	SF 2/4	Flash
3/28	General shot of Window F70 in 2/4	SF2/4 F70	Flash
3/29	General shot of Window F69 in 2/4	SF2/4 F69	Flash
3/30	Vertical shot of top steps of the spiral staircase F84		Flash
3/31	General shot of Window F68 above spiral staircase F 84	SF 2/4 F68	Flash
3/32	General shot of Window F67 in 2/4	SF 2/4 F67	Flash
3/33	General shot of Window F66 and rebuilt lintel	SF 2/4 F 66	Flash
3/34	General shot of rebuilt west wall of 2/4 Features F65, 78 and 64	SF 2/4 F 65, 78 & 64	Flash
3/35	General shot of the upper re-build and segmented arch with timber lintel above block work	SF 2/3	Flash
3/36	General shot of block work and opening into the West Tower	SF 2/3	Flash
<i>Film 4</i>			
4/1	General view of upper fabric of corballed out staircase and Doorway F77	SF 2/4 F77	Flash
4/2	General view of top of lower entrance within the spiral staircase 2/2	SF 2/2	Flash
4/3	Vertical shot taken from 2/4 down the spiral staircase 2/2	SF 2/4 2/2	Flash
4/4	General view of stair treads of 3 rd floor level of corballed-out spiral staircase 2/2	SF 2/4 2/2	Flash
4/5	General view of sockets for stair treads at 3 rd floor level of the corballed-out spiral staircase 2/2	SF 2/4 2/2	Flash
4/6	General view of door jambs on N side of the door leading to 4 th floor of West Tower	2/4 2/2 2/1	Flash
4/7	General view of arrow slit window F32 in West Tower 1/1	FF 1/1 F32	Flash
4/8	General view of Window F33 in West Tower 1/1	FF 1/1 F32	Flash
4/9	General view of the doorway F47 into the FF Hall from West	FF 1/1 F47	Flash

Shot No	Summary description of subject	Location & Feature No	Comment
	Tower 1/1		
4/10	General view of door F48 leading into the corbelled out stair tower	FF F48	Flash
4/11	General view of door jamb F48 and iron hangers	FF F48	Flash
4/12	General view of steps within spiral staircase in West Tower	FF	Flash
4/13	General view of opening and jambs on doorway F47 from within the corbelled-out spiral stairs		Flash
4/14	General view of 2 nd and 3 rd floor windows of West Tower, E-facing elevation		Flash
4/15	General view of spiral steps from GF level in West Tower		Flash
4/16	General shot of windows on West Tower F64 and above		Flash
4/17	General view of a fireplace at 2 nd floor level of West Tower		Flash
4/18	General view of window detail on west side of the 2 nd floor West Tower fireplace		Flash
4/19	General view of wall detail to east of fireplace and aumbrays in West Tower		Flash
4/20	Looking up on doorways within corbelled out staircase		Flash
4/21	General view of roll-moulded lintel above the doorway leading to West Tower from the ground floor Room 0/3		Flash

APPENDIX 3: DIGITAL PHOTOGRAPHIC REGISTER

Shot No	Summary description of subject	Orientation	Comments/ Light
001-005	South-facing external elevation – sequential shots starting at western end, moving east with overlaps	Looking north	Light good
006-016	South-facing external elevation – sequential shots at mid section moving east also showing F3	Looking north	Light good
017-020	South-facing external elevation – eastern portion sequential shots	Looking north	Light good
021-025	South-facing external elevation – eastern end sequential shots & tower	Looking north	Light good
026-027	South-facing external elevation – western end	Looking north	Light good
028-031	East-facing gable and eastern tower face	Looking west	Light good
032-036	East-facing elevation of eastern tower from 2 nd to ground floor, with overlaps – northern section of elevation	Looking west	Light good
037-041	East-facing elevation of eastern tower from crow-step gable at roof to ground level – mid section of elevation	Looking west	Light good
042-050	East-facing elevation of eastern gable end from crow-step gable at roof to ground level – south section of elevation	Looking west	Light good
051-067	South-facing elevation of eastern tower from upper most surviving level descending to ground floor.	Looking north	Light good
068-076	South-facing elevation of eastern tower from upper most surviving level descending to ground floor.	Looking north	Bright sunlight
077-081	East-facing elevation of eastern tower – northern section at ground level within scaffolding	Looking west	Light good
082-084	North-facing external elevation of eastern tower and collapse walling	Looking south	Good
085-086	Room 0/4 - Internal south-facing elevation	Looking north	Flash fill
087	Room 0/4 - Internal south-facing elevation & F14	Looking north	Flash fill
088	Room 0/4 – Internal west-facing elevation, doorway F29	Looking east	Flash fill
089	Room 0/4 – Internal west-facing elevation, doorway F29	Looking east	Flash fill
090	Room 0/4 – Internal north-facing elevation, window F2	Looking south	Flash fill
091-092	Room 0/4 – Internal north-facing elevation, window F2	Looking south	Flash fill
093-095	Room 0/4 – Internal east-facing elevation, doorway F25 & recess	Looking west	Flash fill

Shot No	Summary description of subject	Orientation	Comments/ Light
	F24 & F26		
096-097	Room 0/4, F28 –wall and ceiling detail	Looking south	Flash
098-101	Room 0/4, F28 –wall with window F13 and ceiling detail	Looking north	Flash
102-107	Main north-facing external elevation of eastern tower and collapse with F10 & F11	Looking south	Good
108-112	North-facing external elevation moving east to west with overlaps with windows F11-13	Looking south	Good
113-119	North-facing external elevation moving east to west with overlaps with doorway F14 and north-western tower	Looking south	Good
120-125	North-facing external elevation of north-western corner tower moving east to west with overlaps at ground level finishing at window F17	Looking south	Good
126-136	North-facing external elevation of eastern tower. Beginning at collapsed roof level moving ground-wards and ending at level of rubble. With overlaps	Looking south	Good
137-147	North-facing external elevation of north-eastern tower and collapse of main external wall. Beginning at collapsed roof level moving ground-wards and ending at level of rubble. With overlaps	Looking south	Good
148-155	North-facing external elevation of main wall descending from roof level to ground level and collapse with F11	Looking south	Into light
156-161	North-facing external elevation of main wall descending from roof level to ground level showing F46 and F12 at base	Looking south	Into light
162-167	North-facing external elevation of main north wall with F74, descending from roof level to F74 and ground level showing F14 in lower right corner of image	Looking south	Into Light
168-174	North-facing external elevation of main north wall showing external part of F52 descending from roof level to ground level showing. Corner turret of 2/2 is also seen. Ending at F14 and rubble at ground level	Looking south	Good
175-184	North-facing external elevation of main wall, corner turret 2/2 and north-western tower. Moving from roof level to ground past F51 and F16 to rubble piles at base.	Looking south	Good
185-194	North-facing external elevation of north-western tower. Beginning at upper most level and F63 moving down, with overlaps, past F32 to ground level and F17. Partly obscured at ground level by vegetation.	Looking south	Into light
195-205	North-western tower, north-facing external elevation beginning at upper most level (195) moving with overlaps top ground level showing F63 at top and F17 at base (205)	Looking south	Into bright light
206-207	General shot of north-facing external elevation, north-western tower and west gable end – ¾ view on.	Looking SE	Into bright light
208-210	General shot of north-facing external elevation, North-eastern tower and north-western tower – ¾ view on.	Looking SE	Into bright light
211-212	External elevations of west-facing gable end and tower at upper most level showing F64, northern edge	Looking east	Good
213-220	External west-facing gable end and tower immediately below roof level showing F64 and F33 moving with overlaps to ground level, northern edge	Looking east	Good
221-230	Central area of external west-facing gable end and tower at upper most level (221) F64 moving down to ground through F33 and F35 (228).	Looking east	Bright
231-238	Southern portion of external west-facing gable end starting at upper most level (231) F65 moving down to ground through F35, F19 and F20 (238).	Looking east	Bright
239-243	General, overall shots of external face of west end of building	Looking east	Good light
244-250	General shots of North facing external elevation of building	Looking south	Into bright

Shot No	Summary description of subject	Orientation	Comments/ Light
			light
251-258	External west-facing elevation at ground level moving from northern edge to southern edge	Looking east	Good light
259-263	External west-facing elevation angular views of doorway F20 into room 0/2 also showing window F19	Looking SE	Good light / flash fill
264	External west-facing elevation of arched window F35 looking upwards	Looking SE	Good light / flash fill
265-269	External west-facing elevation of gable angular views of doorway F20 into room 0/2 with window F19 at back	Looking north	Good light / flash fill
270-271	Internal elevation of room 0/2. South facing elevation of wall through scaffolding	Looking north	Natural light and flash
272-273	Internal elevation of room 0/2. North facing wall elevation through scaffolding	Looking south	Natural light and flash
274	Internal elevation of room 0/2. View of doorway F20 looking out	Looking SW	Natural light and flash
275-276	Internal elevation of room 0/2. View of west wall and window F19 looking out	Looking west	Natural light and flash
277-278	Internal elevation of room 0/2. SW internal corner with doorway F20 and small recess at back.	Looking SW	Natural light and flash
279-280	Internal elevation of room 0/2. NE internal corner	Looking NE	Flash
281-284	Room 0/7, ground floor internal south-facing elevation of wall, showing window F11 in centre, doorway F30 on left and entranceway to area 0/9 on right with fireplace F6 in shot 284 on right	Looking north	Natural light and flash
285-289	Room 0/7, ground floor internal west facing elevation showing F6 in centre, supported by scaffolding.	Looking east	Natural light and flash
290-294	Room 0/7, ground floor internal north-facing elevation with window F5 in centre, fireplace F6 on left and doorway F31 on right	Looking south	Natural light and flash
295-300	Room 0/7, ground floor internal east-facing elevation showing doorway F31 on left, and doorway F30 to room 0/6 on right	Looking west	Natural light and flash
301-302	Room 0/7, window F11 detail	Looking north	Natural light and flash
303-308	Room 0/7, fireplace F6 detail looking SE and into 0/8	Looking SE	Flash
309-310	Room 0/7, fireplace F6 detail looking upwards over entrance to 0/8	Looking SE and up	Flash
311-312	Fireplace F6 off room 0/7 looking east and directly upwards	Looking E and up	Flash
313	Fireplace F6 off room 0/7 looking north and upwards	North and up	Flash
314-315	Room 0/6 internal south-facing elevation showing window F12	Looking north	Flash
316-317	Room 0/6 internal south and west-facing corner showing doorway F30	Looking NE	Natural light and flash
318-319	Room 0/6 internal west-facing elevation and doorway F30	Looking SE	Natural light and flash
320-322	Room 0/6 internal north-facing elevation wall and corbelled ceiling	Looking south	Natural light and flash
323-324	Room 0/6 internal east-facing elevation with window F12 on right	Looking west	Natural light and flash
325-327	Area 0/9 internal elevations looking upwards through scaffolding and also at passageway into north-eastern tower	Looking east	Natural light and flash
328-330	Area 0/9 internal elevation looking west upwards (328) and also west through to room 0/7 and supporting scaffolding	Looking west	Natural light and flash
331-334	Passageway from ground floor room 0/7 to main entranceway at F3 on south face from doorway F31 with doorway F29 at back and window F4 on left	Looking west	Natural light and flash
335-337	Passageway from main entranceway F3 on ground floor to room 0/7 looking towards doorway F31	Looking east	Natural light and flash

Shot No	Summary description of subject	Orientation	Comments/ Light
338-339	Window F4 detail, internal view	Looking ESE	Natural light and flash
340-342	Doorway from stairs 1/2 to room 0/3 with supporting wood frame.	Looking east	Flash
343-344	Doorway from stairs 1/2 to room 0/1 with single support scaffold	Looking down and NNE	Flash
345	Internal stairway 1/2 from ground level looking up to window F34 on first floor	Looking up and west	Flash
346	Internal stairway 1/2 from ground level looking up to entranceway F49 on first floor	Looking up and south	Natural light and flash
347	Recess feature on wall to left of doorway from room 0/3 into stairway 1/2	Looking south	Flash
348-349	Ground floor portion of stairway 1/2 viewed from room 0/3	Looking west	Flash
350-353	Window F4 detail looking outwards	Looking SSE	Natural light and flash
354-355	Window F4 detail looking outwards	Looking SSW	As above
356-359	Ground floor passageway between main entrance F3 and room 0/7	Looking east	Natural light and flash
360-361	Ground floor room 0/3, south facing elevation, with blocked window F15 in centre	Looking north	Natural light and flash
362	Ground floor room 0/3, north-eastern corner with blocked window F15 and doorway F25	Looking NE	Natural light and flash
363-370	Ground floor room 0/3, west-facing elevation with doorway F25	Looking east	Natural light and flash
371-373	Ground floor room 0/3, north-facing elevation with window F1	Looking south	Natural light and flash
374-377	Ground floor room 0/3, east-facing elevation	Looking west	Natural light and flash
378-379	Room 0/3, window F15 detail	Looking north	Natural light and flash
380-383	Ground floor room 0/1, internal south-facing elevation with window F17 and support scaffolding	Looking north	Natural light and flash
384-386	Ground floor room 0/1, internal east-facing elevation with window F18 and support scaffolding	Looking west	Natural light and flash
387-388	Ground floor room 0/1, internal north-facing elevation with doorway F22 and support scaffolding	Looking SW	Natural light and flash
389-390	Ground floor room 0/1, internal south and east-facing elevations with windows F17 and F18.	Looking NW	Natural light and flash
391-394	Ground floor room 0/1, internal west and north-facing elevations with window F16 on left and doorway F22 right	Looking east	Natural light and flash
395-397	Room 0/1 north-facing elevation with recess F21 and doorway F22 on left	Looking south	Natural light and flash
398-399	Stairway 1/2 from ground floor and entrance to room 0/3	Looking west and upwards	Natural light and flash
400-401	Stairway 1/2 from first floor room 1/1 looking down and towards F49 on left and window F34 on right	Looking SW	Natural light and flash
402-405	Entrance F49 above stairway 1/2 from room 1/1 on first floor	Looking south	Natural light and flash
406-407	Internal view of tower looking south and up from first floor room 1/1 to north facing internal view of tower and modern entranceway and brickwork	Looking south	Natural light and flash
408	Window F34 from first floor level and stair 1/2	Looking west	Natural light and flash
409-412	First floor room 1/1, east-facing internal elevation showing window F38 in centre	Looking west	Natural light and flash
413-414	Internal east-facing elevation of North western tower looking up from first floor room 1/1 to window F33	Looking west	Natural light and flash

Shot No	Summary description of subject	Orientation	Comments/ Light
415-417	Internal east-facing elevation of North western tower looking up from first floor room 1/1 to windows F33, F64 and F102	Looking west	Natural light and flash
418-420	Doorway F48 in Room 1/1 in north-western tower	Looking east	Natural light and flash
421-424	East-facing internal elevation of north-western tower from first floor 1/1 looking up to ceiling	Looking east	Natural light and flash
425-429	Room 1/1, doorway F48 and F49	Looking SE	Natural light and flash
430-434	Internal north-western tower from room 1/1 on first floor looking up	Looking SE and up	Natural light and flash
435-438	Doorway F48 from room 1/1 and looking up	Looking east	Natural light and flash
439-440	Stairway 1/2 and room 1/1 from F49`	Looking north	As above
441-442	Room 1/1 from F49 showing F32 and F91 at top	Looking north	Natural light and flash
443-449	Internal north-western tower, south-facing elevation looking up from room 1/1 to roof with window F93 at very top	Looking north	Natural light and flash
450	Stairway 1/2 from room 1/1 looking down	Looking down and south	Natural light and flash
451-452	Stairway 1/2 from room 1/1 looking down	Looking down and west	Natural light and flash
453-457	Internal north-western tower, south-facing elevation from room 1/1 looking onto north-eastern corner starting at F32 (453) upwards to roof level (457)	Looking north and up	Natural light and flash
458-459	Internal. Base of stairway 2/2 looking down to doorway F48	Looking WNW	Natural light and flash
460-461	Stairway 2/2 looking upwards	Looking west and up	Natural light and flash
462	Stairway 2/2 entrance above F48	Looking west	Natural light and flash
463	Stairway 2/2 looking upwards	Looking west and up	Natural light and flash
464-468	Stairway 2/2 looking upwards	Looking east and up	Natural light and flash
469	Stairway 2/2 looking upwards	Looking north and up	Natural light and flash
470-471	Internal east-facing elevation of north-western tower looking upwards from room 1/1	Looking west and up	Natural light and flash
472	Window F34 and stairway 1/2 from room 1/1	Looking west	Natural light and flash
473-474	Doorway F47 from stairway 2/2	Looking south	Natural light and flash
475	Internal north-western tower, east-facing elevation from room 1/1 looking up	Looking west	Natural light and flash
476-477	South-facing elevation in north-eastern corner of north-western tower at first floor level in room 1/1.	Looking NE	Natural light and flash
478-481	South-facing elevation in north-eastern corner of north-western tower at first floor level in room 1/1.	Looking NE upwards	Natural light and flash
482	West-facing elevation in north-eastern corner of north-western tower at first floor level in room 1/1.	Looking east	Natural light and flash
483	Detail of F32/B in NE corner of room 1/1	Looking north	Natural light and flash
484	Detail of fireplace above F32/B from room 1/1	Looking north and up	Natural light and flash
485-486	Detail looking up fireplace above F32/B in room 1/1	Looking north and up	Natural light and flash
487	North-western tower from room 1/1 looking directly up from	Looking up	Natural light

Shot No	Summary description of subject	Orientation	Comments/ Light
	room 1/1 in north-eastern corner		and flash
488	General shot	Looking west	Overcast
489-492	External shot of top of corbelled stair turret and north-western tower	Looking SSW	Into light
493-500	External shot of corbelled stair turret and north-western tower moving from top to base with overlaps	Looking SSW	Into light
501-507	External shot of towards collapsed north wall looking from NE corner through what would have been Tower (heavy scaffolding). Moving from top to base with overlaps.	Looking SSW	Good light
508-509	Portion of main south external wall viewing window F5 at base, F67 in centre and F70 at top.	Looking north	Good
510-516	F49 on south facing elevation of north-western tower viewed from 1/3	Looking north	Good light
517-530	Room 1/3, north-facing elevation showing blocked window F37	Looking south	Natural light and flash
531-534	Internal shot of main south wall from scaffold directly above room 1/3 looking at wall fabric, blocked window F38 (533,534) and also F39 (534)	Looking south	Natural light and flash
535	Detail of top of arch of F35 on western external wall showing modern fabric build	Looking south	Natural light and flash
536-538	Detail shots of top of arch of F35 on main western elevation	Looking west	Natural light and flash
543-544	Internal detail of window F36 on main western wall	Looking SSW	Natural light and flash
545-549	View from first floor room 1/4 looking west to F35 with collapsed floor above ground floor room 0/3	Looking west	Natural light and flash
550-551	View from room 1/4 looking west through collapsed floor above room 0/3 with doorway F47 in right of shot	Looking west	Natural light and flash
552-557	Window F39 from F47 looking south over collapsed floor above 0/3	Looking south	Natural light and flash
558-563	Doorway F47 from window F39 and looking down into room 0/3 from scaffolding	Looking north	Natural light and flash
564-567	Wall above F49 up to modern flooring of 2 nd floor	Looking north and upwards	Natural light and flash
568	Internal south-facing elevation at first floor level right at the western edge of 1/4	Looking north	Natural light and flash
569-577	Internal south-facing elevation at first floor level moving from area 1/4 with fireplace F62 in centre east to area 1/5 ending at rebuilt wall of straight stair F57	Looking north	Natural light and flash
578-581	Internal south-facing elevation at first floor level of window F46 from top of straight stair F57	Looking north	Natural light and flash
582-583	Internal south-facing elevation at first floor level in area 1/6 viewing F46 on left and fireplace F58 on right	Looking north	Natural light and flash
584-585	First floor view from area 1/4 eastwards towards rebuilt wall of straight stair F57 and onwards to eastern end of first floor level with light from partly collapsed eastern tower at back	Looking east	Natural light and flash
586-587	First floor view from area 1/5 looking SE towards F41 on main south elevation above stair F57 with rebuilt wall in foreground.	Looking SE	Natural light and flash
588-589	First floor view from area 1/5 and window F40 east through to room 1/8 across straight stair F57	Looking east	Natural light and flash
590-594	Internal north-facing elevation, first floor view from area 1/4 looking south to main windows F39 on right, F53 in centre and F40 on left. Moving from west to east with overlaps	Looking south	Natural light and flash
595-596	Internal north-facing elevation, first floor view from area 1/5 of main window F40 on right and F41 on left	Looking south	Natural light and flash
597-598	Internal north-facing elevation, first floor view from top of straight stair F57 of walling around F41	Looking south	Natural light and flash

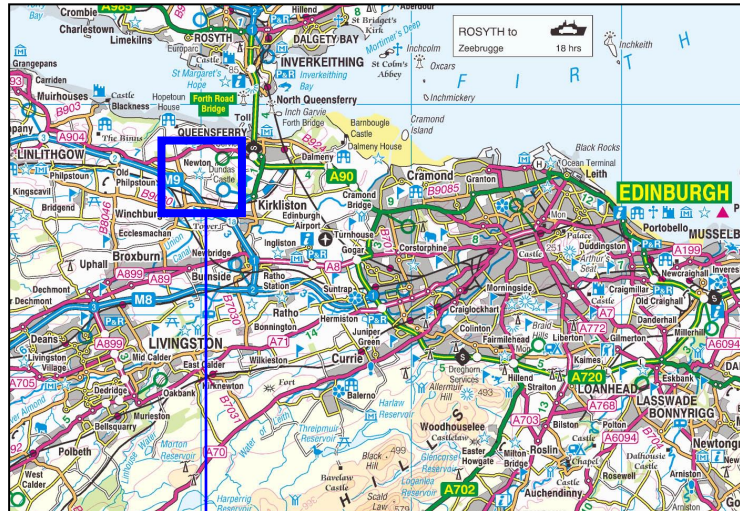
Shot No	Summary description of subject	Orientation	Comments/ Light
599-600	View down main straight stairway F57 from first floor	Looking down and south	Natural light and flash
601-611	View from 2 nd floor from scaffolding in area 2/3 looking north to top most wall of north-western tower. Also of modern rebuild	Looking north	Good
612-617	View from scaffolding at western edge of 2/4 looking north towards top of corbelled stair turret	Looking north	Bright
618-619	2 nd floor, western end of area 2/4 looking north towards corbelled stair turret and collapsed wall from tower	Looking north	Bright
620-623	2 nd floor, south-facing elevation of F77 moving east to fireplace F81	Looking north	Bright
624-630	2 nd floor, south-facing elevation moving, with overlaps from fireplace F81 east to F82 area 2/4	Looking north	Bright
631-639	2 nd floor, south-facing elevation in area 2/4 moving with overlaps from F82 and F74 east to end of wall and collapse	Looking north	Bright
640-643	2 nd floor area 2/4 looking west from the eastern end showing the north-western tower	Looking west	Bright
644-645	2 nd floor area 2/4 looking WSW from the eastern end showing the north-western tower	Looking WSW	Bright
646-648	Internal east-facing elevation at 2 nd floor level, area 2/4, viewing window F65 on upper left and F78 on lower right	Looking west	Bright
649-650	2 nd floor, area 2/4 viewing north-western tower, top of corbelled stair turret (centre) and internal south-facing elevation with F81 in right foreground	Looking NW	Bright
651-653	2 nd floor, internal north-facing elevation at western section, through scaffolding at F96	Looking south	Good light
654-655	2 nd floor, internal north-facing elevation at western section, through scaffolding at F96	Looking south	Good light
656-658	2 nd floor, internal north-facing elevation viewing F66 towards western end of building	Looking south	Good light
659-660	2 nd floor, internal north-facing elevation viewing F66 & F67	Looking south	Good light
661-663	2 nd floor, internal north-facing elevation viewing F67 and moving east with overlaps.	Looking south	Good light
664	2 nd floor, internal north-facing elevation viewing F67 on right and F68 on left	Looking south	Good light
665-669	2 nd floor, internal north-facing elevation viewing F68 on right and also F69 on left, moving eastwards with overlaps	Looking south	Good light
670-673	2 nd floor, internal north-facing elevation viewing F69 on right of shot and F70 on left, moving eastwards with overlaps and ending (672 & 673) at eastern wall of 2/4. Also seen here on left are fireplace F85 in foreground and entrance to 2/5 in upper left corner	Looking south	Good light
674-677	2 nd floor internal west-facing elevation showing fireplace F85 in centre, entranceway to 2/5 on right and also crow-step gable of former pitched roof	Looking east	Good light
678-679	Detail of crow-step gable to the south of collapsed north-eastern tower from 2 nd floor area 2/4	Looking east	Good light
680-681	2 nd floor internal west-facing elevation showing fireplace F85 in centre and entrance to now collapsed eastern corbelled stair turret	Looking east	Good light
682-683	General view of 2 nd floor internal north and east-facing elevations looking to SE corner from NW corner	Looking SE	Good light
684-685	General view of 2 nd floor internal south and east-facing elevations looking to NE corner from SW corner	Looking NE	Good light
686	F72 on west facing internal elevation of room 2/5 on second floor. Taken through heavy scaffolding	Looking east	Natural light and flash
687	West-facing internal elevation of room 2/5 looking upwards towards crow-step roof with window F72 in lower right corner of shot	Looking east	Natural light and flash

Shot No	Summary description of subject	Orientation	Comments/ Light
688-689	Opening on northern wall of room 2/5 looking through scaffolding to what would have been the eastern tower	Looking NE	Natural light and flash
690	Room 2/5 from area 2/4 towards recess F86 on the north-facing internal elevation	Looking SE	Natural light and flash
691	Collapsed floor of Room 2/5 from area 2/4	Looking downwards and SE	Natural light and flash
692-693	Internal north-facing elevation of room 2/5 viewing window F71 on left and recess F86 on right	Looking south and downwards	Natural light and flash
694	Gap in northern wall of room 2/5 looking towards collapse of eastern tower	Looking north	Natural light and flash
695-697	Doorway from area 2/4 into room 2/5 taken within room 2/5	Looking west	Natural light and flash
698-700	Area 1/6 on 1 st floor. Internal south-facing elevation viewing window F46 on left and fireplace F58 in centre	Looking north	Natural light and flash
701-703	Area 1/6 on 1 st floor. Internal south-facing elevation viewing fireplace F58 and collapsed northern wall at eastern end of elevation.	Looking north	Natural light and flash
704-706	1 st floor internal west-facing elevation in room 1/6 showing fireplace F59 and doorway to 1/8	Looking east	Natural light and flash
707-708	1 st floor internal west-facing elevation in room 1/6 showing collapsed part of wall and tower on left and fireplace F59 on right	Looking east	Natural light and flash
709-710	1 st floor internal north-facing elevation in room 1/6 towards window F42	Looking south	Natural light and flash
711-712	1 st floor internal north-facing elevation in room 1/6 towards window F42 on right and window F43 on left	Looking south	Natural light and flash
713-715	Room 1/6 on first floor viewing east-facing stonework of collapsed spiral stair F56 with recess F54 in centre and doorway F55 on left	Looking west	Natural light and flash
716	View up fireplace of F59 in west-facing internal elevation of room 1/6 on first floor	Looking east and up	Flash
717	Room 1/6 on first floor, looking towards SE corner of room to room 1/8	Looking SE	Natural light and flash
718	Internal west-facing elevation of Room 1/6 on first floor, looking towards doorway into room 1/8 with fireplace F59 on left of shot and window F43 on right	Looking east	Natural light and flash
719	Room 1/8, first floor, north-facing elevation and recess F61 taken from doorway to 1/6	Looking ESE	Natural light and flash
720	Room 1/8, first floor looking towards window F44 on west-facing internal elevation. Also visible is the edge of F62 in left of shot	Looking east	Natural light and flash
721	(upside down image) Doorway from room 1/6 into room 1/8 showing recess F61	Looking SE	Natural light and flash
722-724	Doorway F29 into room 0/4 on ground floor at base of straight stair F57. Taken from main entranceway F3	Looking NW	Natural light and flash
725-726	Doorway opposite F29 at base of straight stairway F57 on right of main entranceway F3 leading to room 0/7	Looking NNE	Natural light and flash
727-732	External south-facing elevation, SW most corner of building at ground level. View of building fabric hidden behind rubble piles in front of main external walls. Overlapping shots moving from west to east over a distance of approx. 3m	Looking north	Bright light
733-735	External south-facing elevation, ground level, wall detail and blocked window F1 moving from west to east with overlaps	Looking north	Good light
736-739	External south-facing elevation, ground level, wall detail and widows F2 (736) and doorway F3, continuing eastwards with overlaps to rubble pile and window F4 behind	Looking north	Good light
740-741	External south-facing elevation, ground level, wall detail behind rubble pile and window F4	Looking NW	Good light

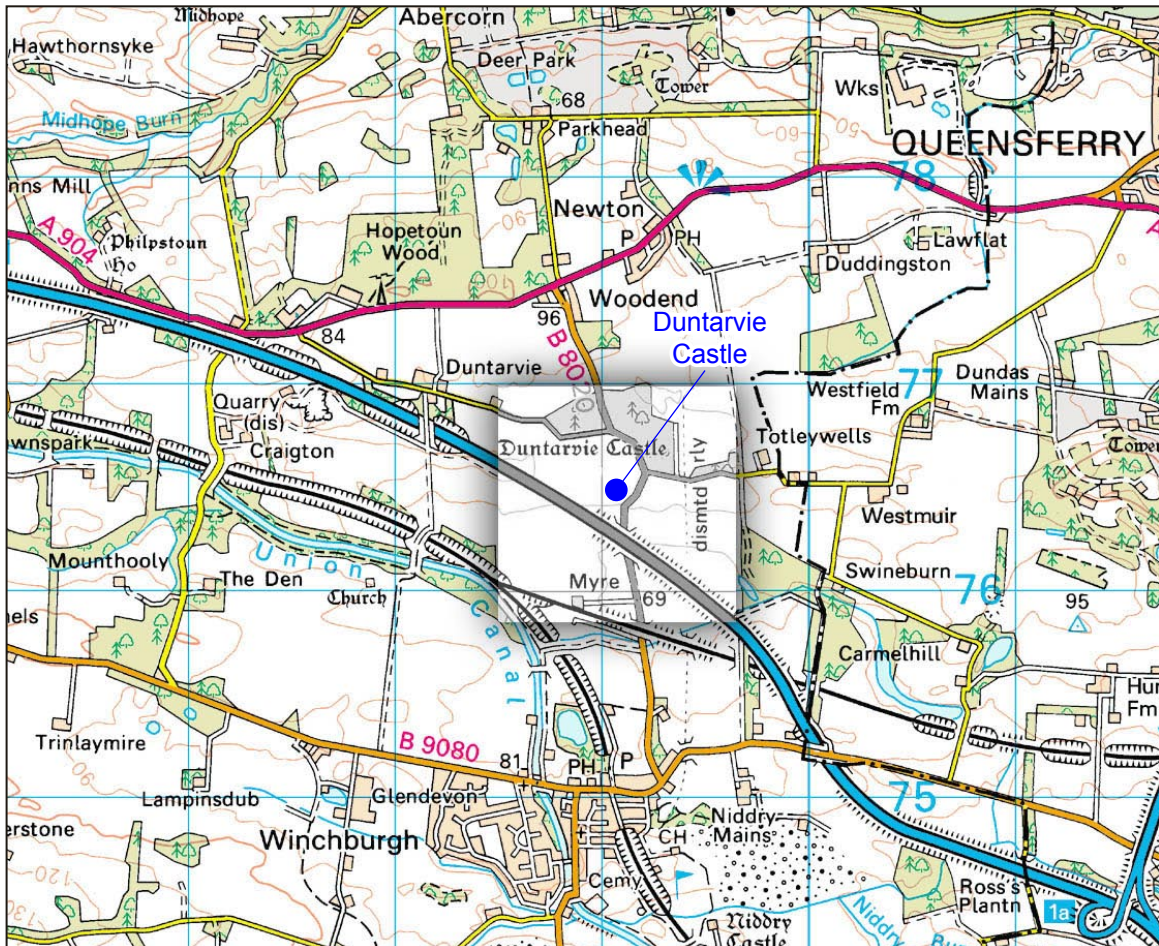
Shot No	Summary description of subject	Orientation	Comments/ Light
742-743	External south-facing elevation, ground level, wall detail behind rubble pile and window F5 and F88. Also SE corner of building	Looking NW	Natural light and flash
744	SE most corner of building at ground level looking up towards south facing elevation of eastern tower with modern rebuild	Looking north	Natural light and flash
745-746	Detail of window F5 and F88 on main south facing external elevation	Looking north	Good
747	East-facing external elevation at SE corner of tower	Looking west	Good
748	East-facing external elevation looking to SE corner of building	Looking SW	Good
749	SE corner of eastern tower viewing modern build	Looking NW	Good
750	Collapse of north-facing external elevation of eastern tower showing modern build on left and entrance into 0/9	Looking SW	Good
751	North-facing external elevation at ground level behind rubble piles showing window F12	Looking SW	Good
752	North-facing external elevation at ground level of window F11	Looking south	Good
753	North-facing external elevation viewing collapse of walling around F10 and tower	Looking SSE	Good
754	North-facing external elevation of eastern tower looking upwards towards dense scaffolding	Looking up and SE	Into light
755	North-facing external elevation at ground level behind rubble piles showing blocked widow F12 in foreground, F13 in centre and main doorway F14 in rear	Looking SW	Shadow
756	North-facing external elevation at ground level behind rubble piles with detail of blocked widow F12	Looking SSE	Natural light and flash
757-760	East-facing external elevation of north-western tower with base of corbelled stair turret and also window F16	Looking west	Good light
761	East-facing external elevation of north-western tower with corbelled stair turret looking upwards to top of tower	Looking up and west	Into light
762-763	3/4 view of external SW corner of Duntarvie Castle with F35 to left of image and dense scaffolding covering views on all sides	Looking NE	Good light

APPENDIX 4: DES ENTRY

LOCAL AUTHORITY:	West Lothian
PROJECT TITLE/SITE NAME:	Duntarvie Castle, Winchburgh, West Lothian: Level 4 Historic Building Survey
PROJECT CODE:	TARV
PARISH:	Abercorn
NAME OF CONTRIBUTOR:	M Cressey, Leeane Whitelaw and Charles McKean
NAME OF ORGANISATION:	CFA Archaeology Ltd
TYPE(S) OF PROJECT:	Buildings Survey
NMRS NO(S):	NT07NE 9
SITE/MONUMENT TYPE(S):	Historic Building
SIGNIFICANT FINDS:	N/a
NGR (2 letters, 6 figures)	NT 09050 76477
START DATE (this season)	September 2009
END DATE (this season)	September 2010
PREVIOUS WORK (incl. <i>DES</i> ref.)	Dunbar and Cook, L and M 2000 Duntarvie Castle, West Lothian DES v1, 92 Ewart, Sharman & Hollinrake, G, P and A (2001) Duntarvie Castle, DESv2, 98 McCulloch, R 1999 Duntarvie Castle 16th century fortified house DES p89 O'Sullivan, J 1995 Duntarvie Castle later medieval fortified house, DES p89
MAIN (NARRATIVE) DESCRIPTION: (May include information from other fields)	<p>A level 4 historic building survey was undertaken as part of Scheduled Monument Consent for the refurbishment works at Duntarvie Castle. A laser scan survey was undertaken both on the interior and exterior of the building which provides an accurate stone by stone representation of all accessible parts of the building. The results have allowed a better understanding of the construction methods and distribution of architectural features and reconstructed fabric introduced over the last ten years.</p> <p>The phase development history is complex due to the many changes that have been undertaken. The following synopsis provides a general account on the key phases of alteration at Duntarvie:</p> <ol style="list-style-type: none"> 1. Inner court and tower – by at least the 15th century, Possibility (a); the original tower was the north-west: but there is no surviving sign of an entrance. Possibility (b): that this tower lay against the north wall, where there appears to be evidence of substantial disruption. 2. Addition of main house – 15th century ? Possible stair tower at the centre of north wall. 3. Addition of towers – 15th century? 4. Reworking of upper north western tower and addition of chimney – mid/late 16th century? with perhaps the creation of new chambers into a state apartment suite. 5. Complete reworking/gutting of main house above first floor level, new south façade and reworking of the upper storeys of both towers in the early 17th century – 1620s. 6. Insertion of the platt and scale stair from <i>piano nobile</i> to garden, with a turnpike stair above it and new windows inserted in the north wall 1630s-1680s. If there had been a staircase or tower to the north, as the wall implies, it was removed at this point. If this was the case, one further possibility might be that a new two-storeyed entrance/stair block was built against the western corner of the south façade. 7. Removal of south-western tower.
PROPOSED FUTURE WORK:	Archaeological watching briefs
CAPTION(S) FOR ILLUSTRS:	None
SPONSOR OR FUNDING BODY:	Mr Geoffrey Nicholsby
ADDRESS OF MAIN CONTRIBUTOR:	CFA Archaeology Ltd, Old Engine House, Eskmills Park, Musselburgh, EH21 7PQ.
EMAIL ADDRESS:	mressey@cfa-archaeology.co.uk
ARCHIVE LOCATION (intended/deposited)	Archive to be deposited in NMRS, Reports lodged with SMR and NMRS.



Site Location



Key:



Fig. No: 1

Revision: FINAL

Client: Mr Geoffrey Nicholbsy

Title:

General Location Map

Project:

Duntarvie Castle, Winchburgh,
West Lothian Level 4 Historic
Building Survey

Scale:



CFA ARCHAEOLOGY LTD
The Old Engine House
Eskmills Park
Musselburgh
East Lothian, EH21 7PQ

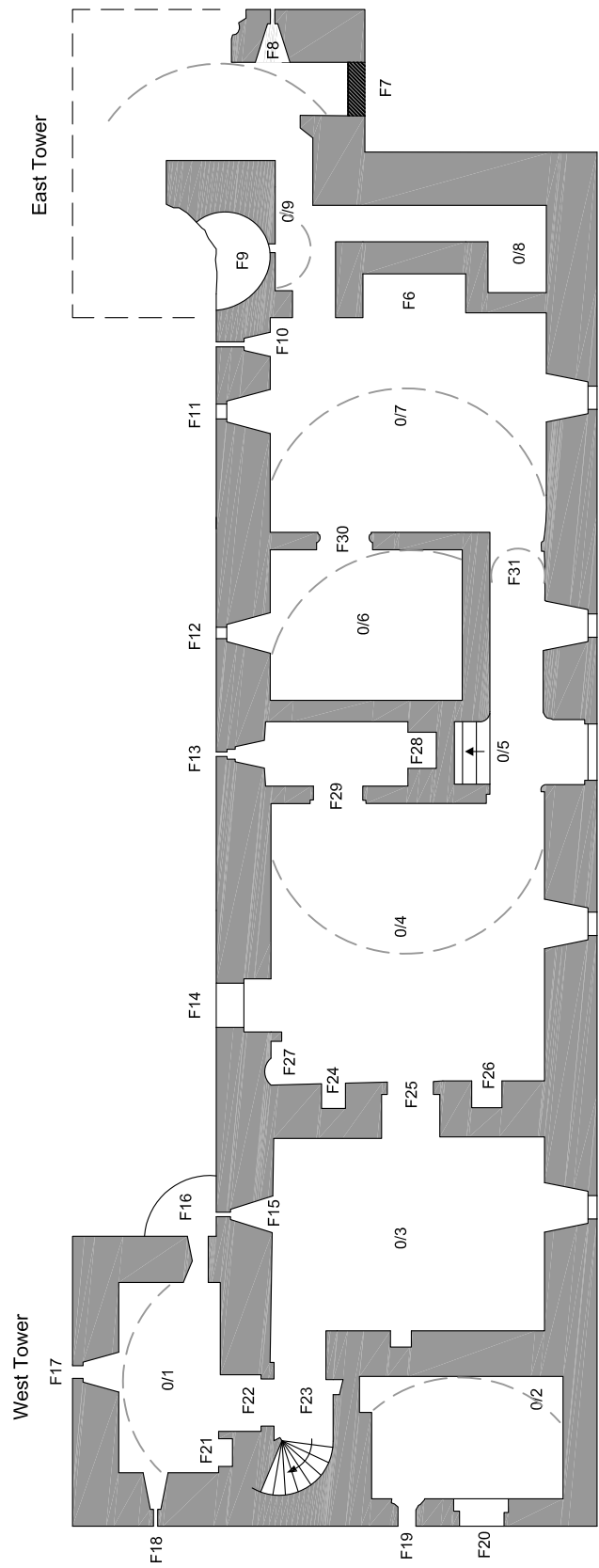
t: 0131 273 4380
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e: info@cfa-archaeology.co.uk
w: www.cfa-archaeology.co.uk

Drawn by: LW

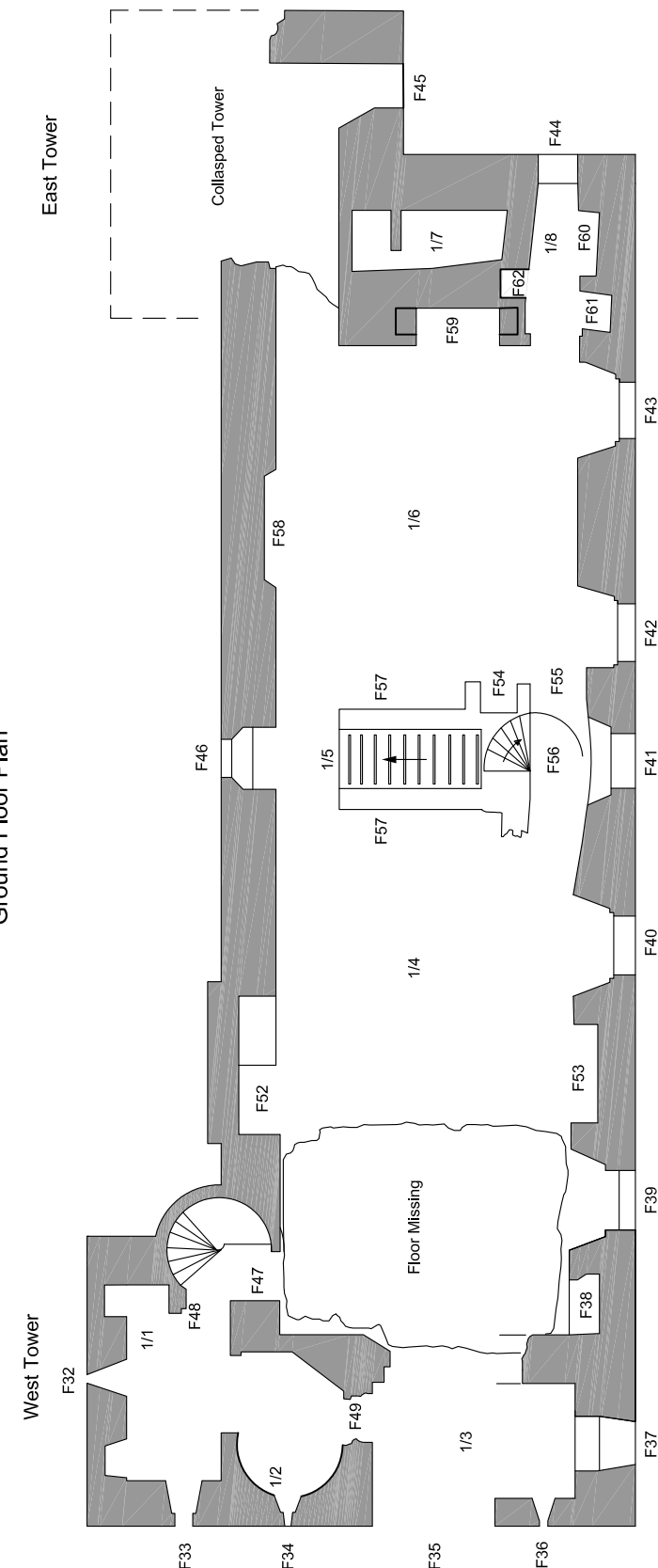
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Report No:

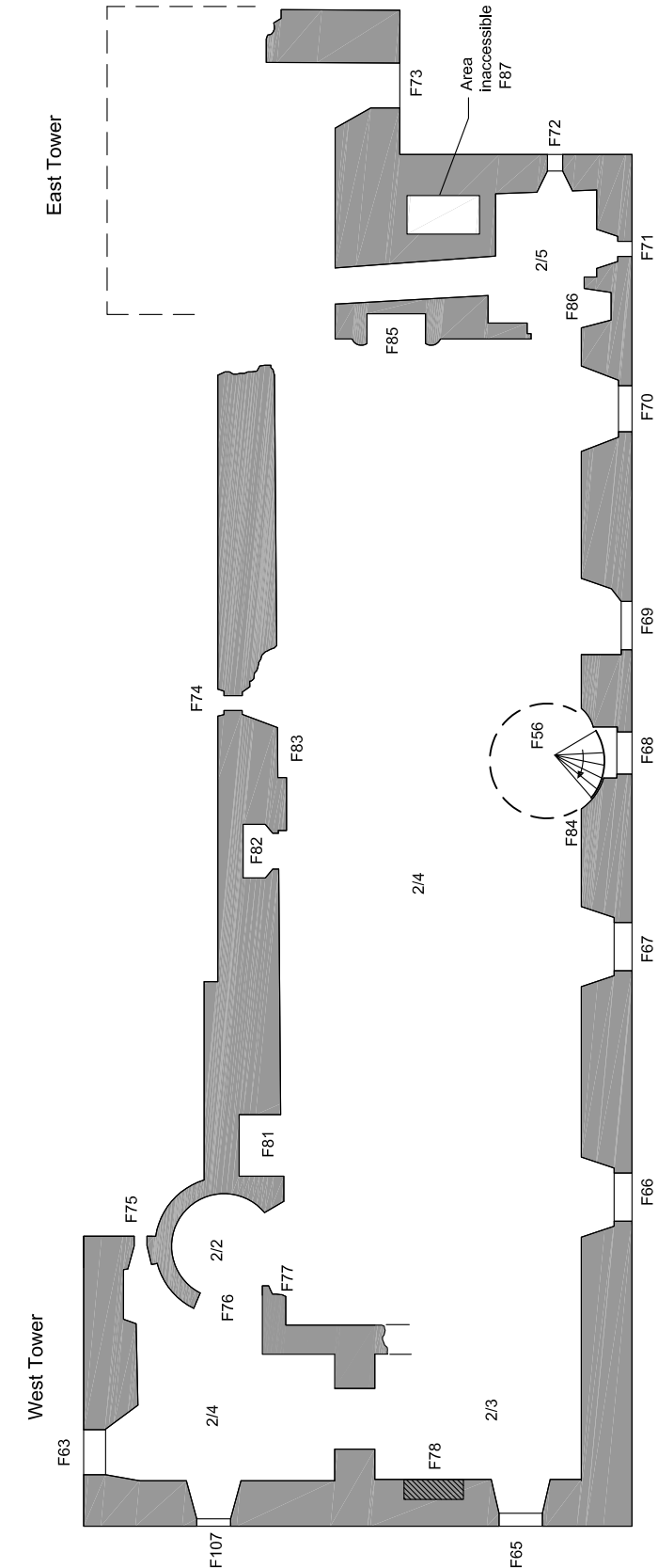
1710



Ground Floor Plan



First Floor Plan



Second Floor Plan



Key:

CFA ARCHAEOLOGY LTD
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 Eskmills Park
 Musselburgh
 East Lothian, EH21 7PQ
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 w: www.cfa-archaeology.co.uk

Fig. No:	2a-c	Revision:	FINAL
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Title:
Floor Plans

Project:
Duntarvie Castle, Winchburgh,
West Lothian Level 4 Historic
Building Survey

Scale:
1:125 @ A3

Client:
Mr Geoffrey Nicholsby

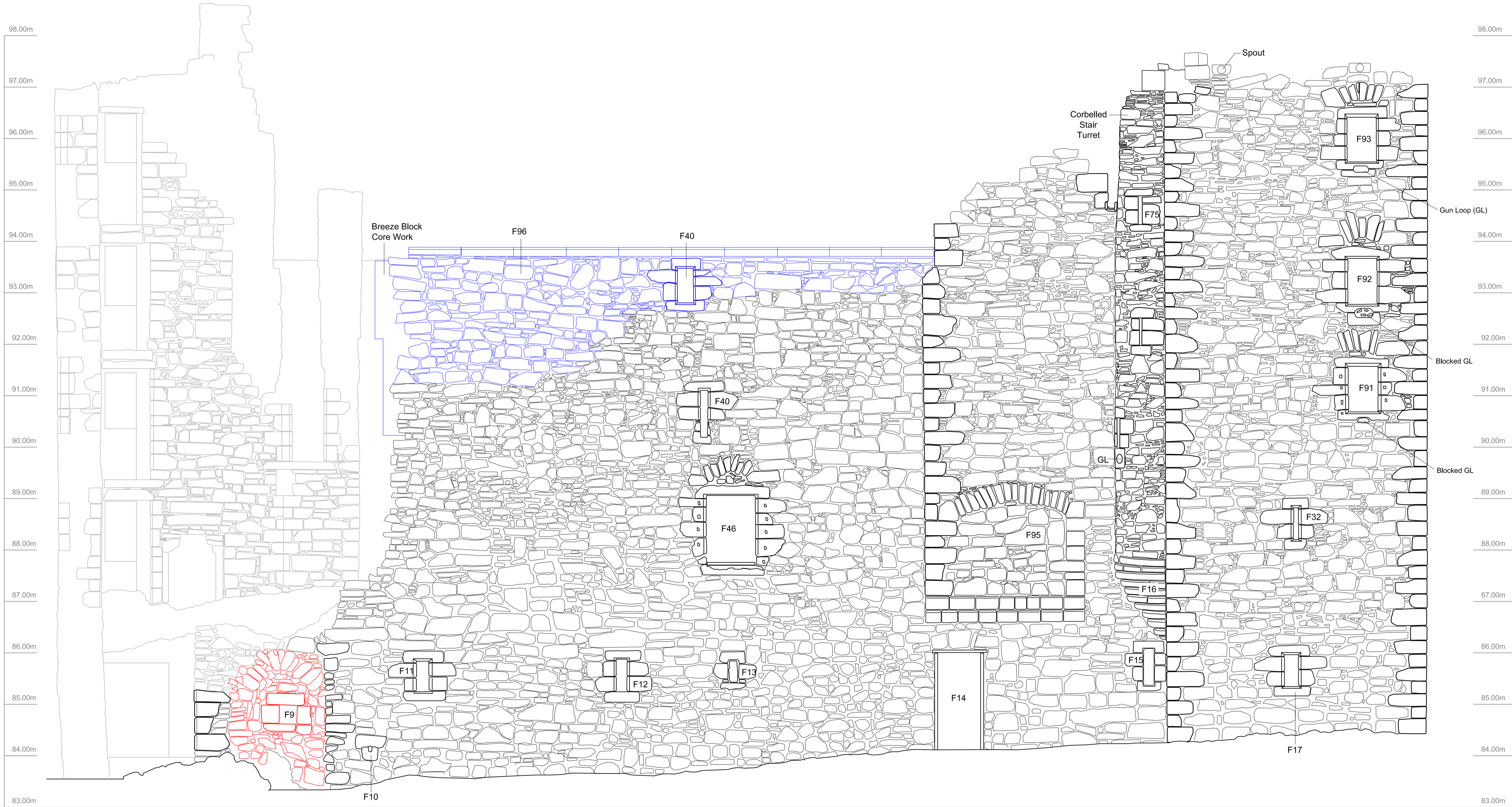
Drawn by: LW Report No: 1710



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Key:

- Reconstructed Re-build
- Heat Altered Fabric



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Fig. No: 3a Revision: FINAL

Title:
External North-Facing
Elevation

Project:
Duntarvie Castle, Winchburgh,
West Lothian Level 4 Historic
Building Survey

Scale:
1:40 @ A1

Client:
Mr Geoffrey Nicholasby

Drawn by: LW Report No: 1710

Key:

Reconstructed
Re-Build

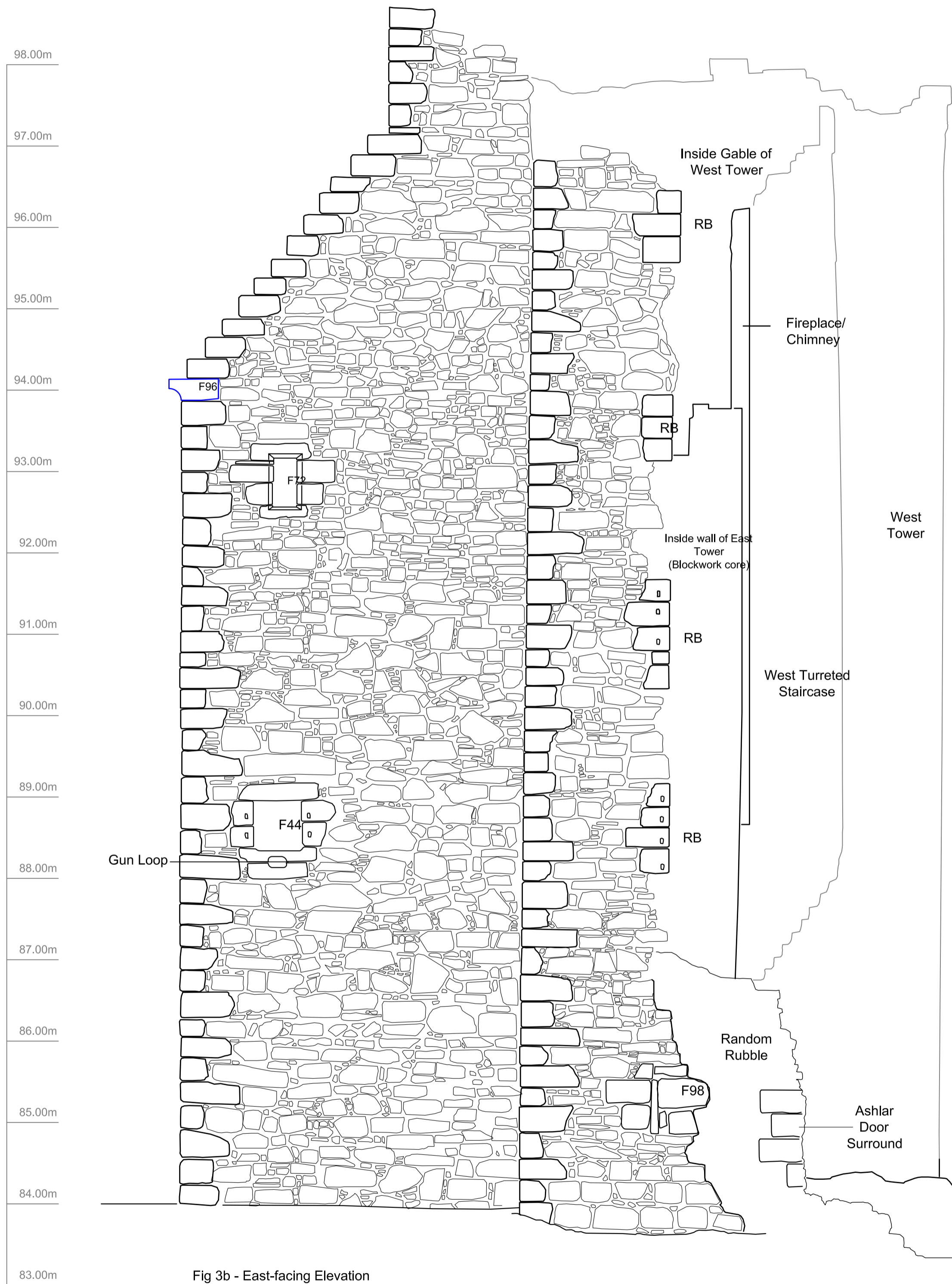


Fig 3b - East-facing Elevation

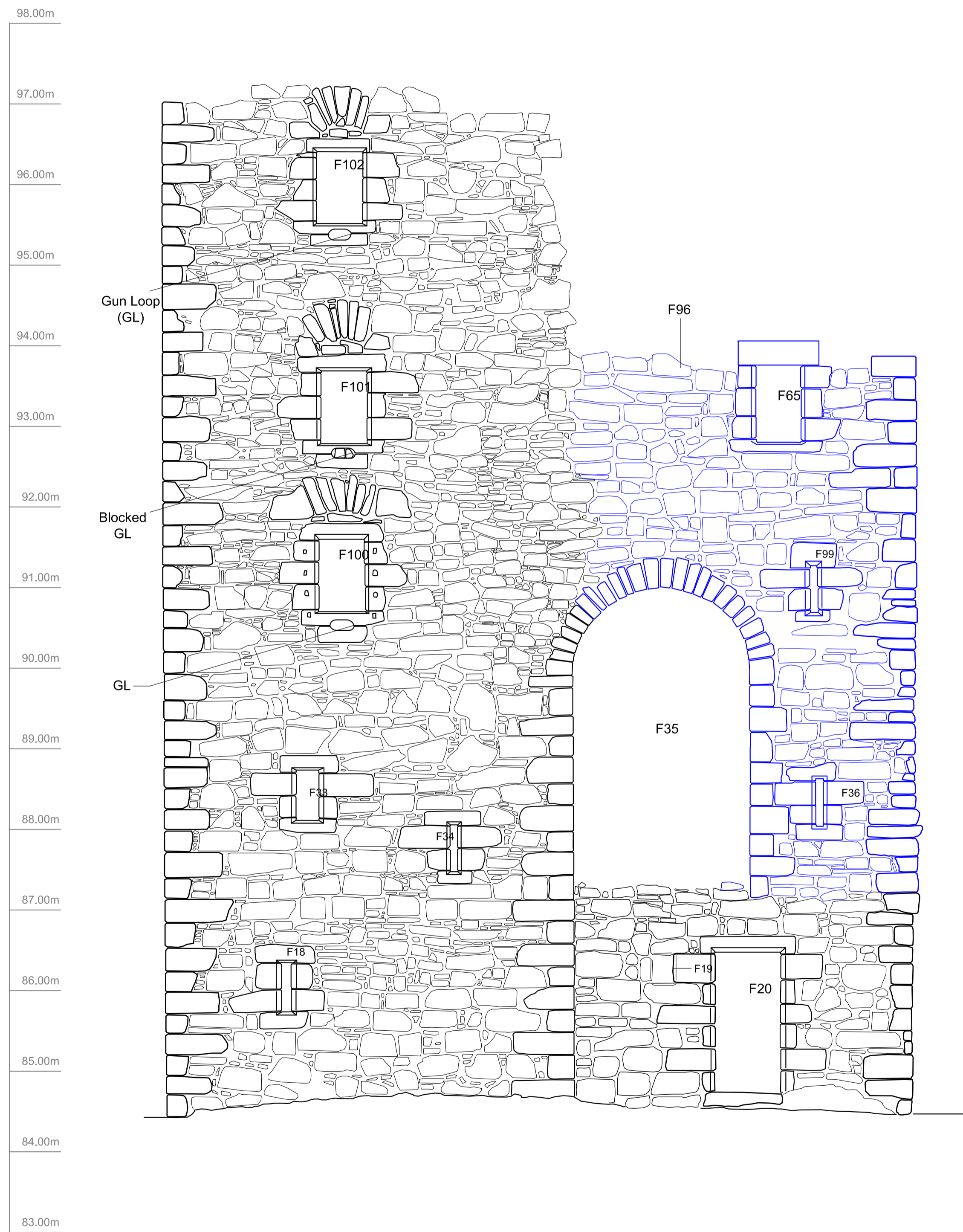
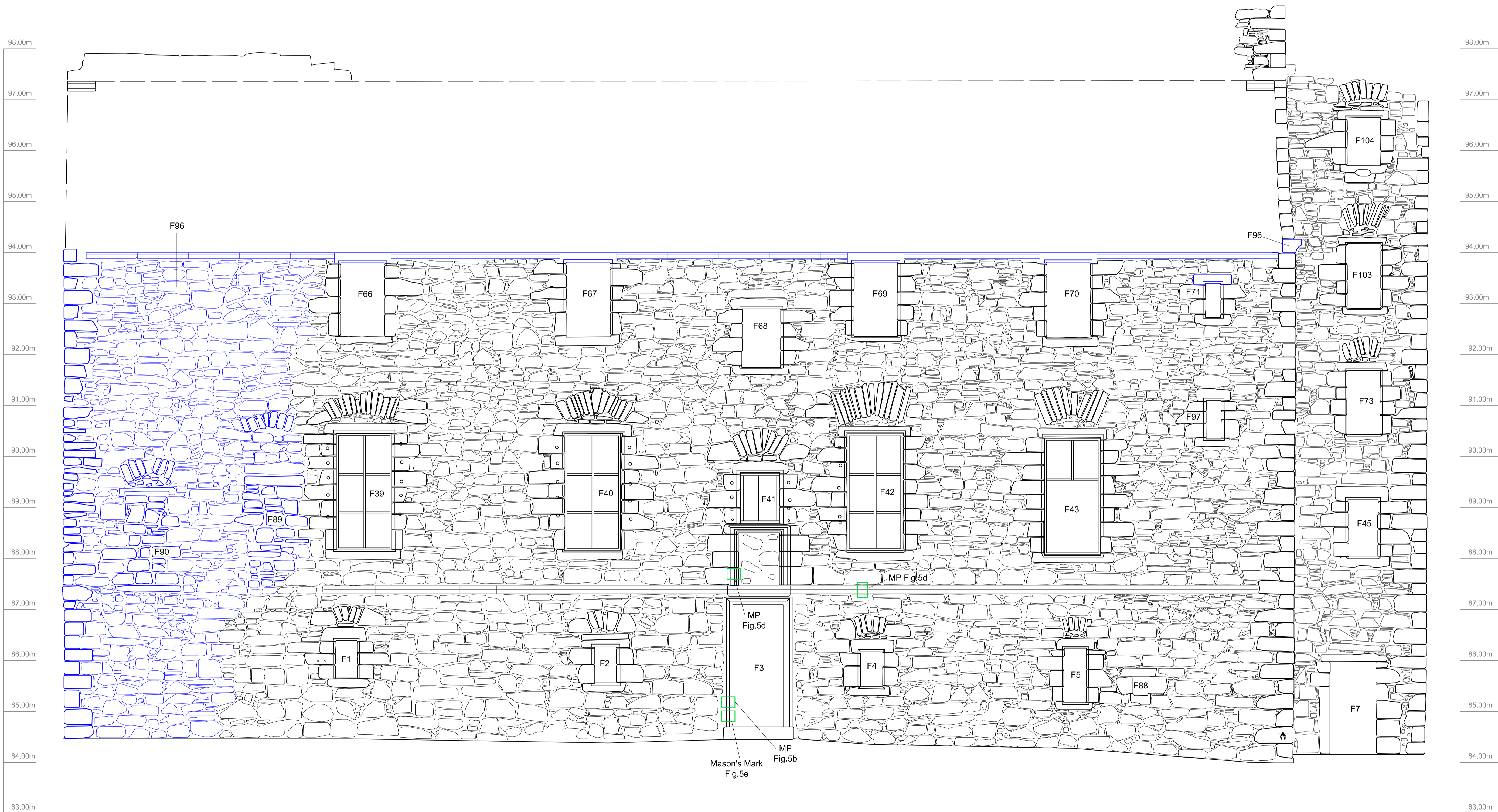


Fig 3c - West-facing Elevation

Key:

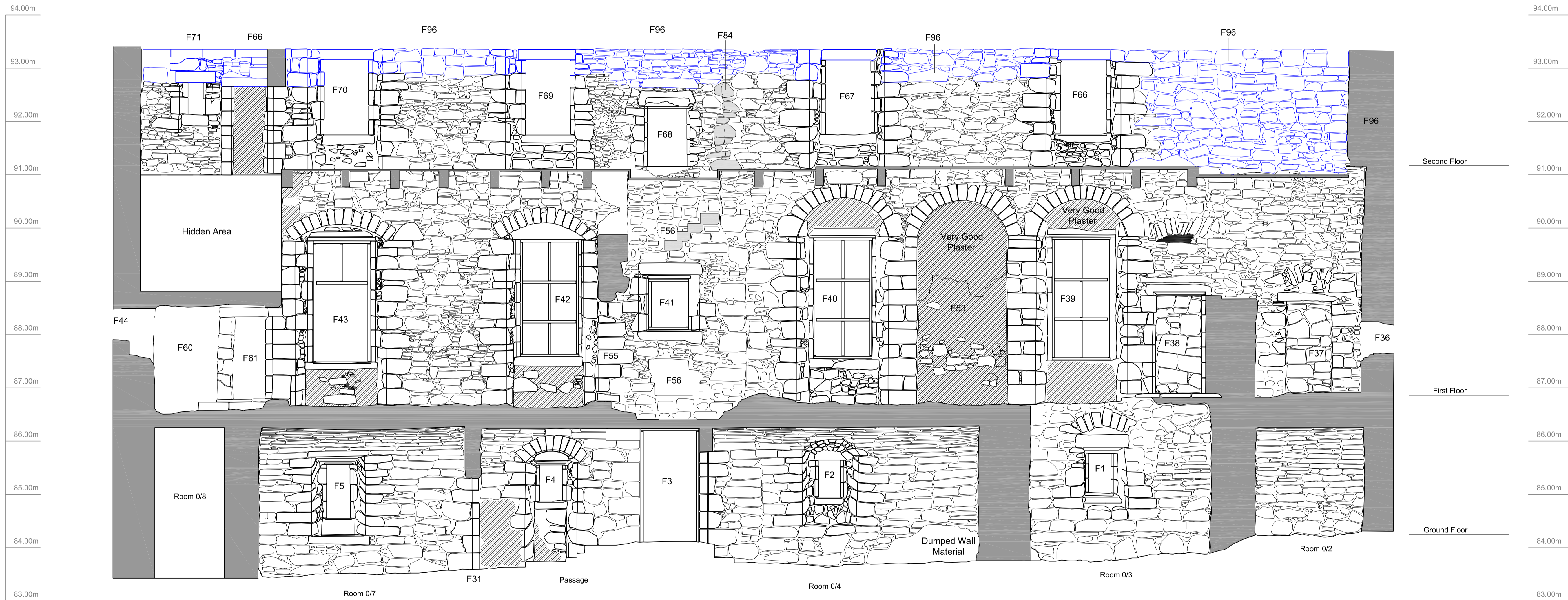
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Re-Build



Key:

Reconstructed
Re-Build

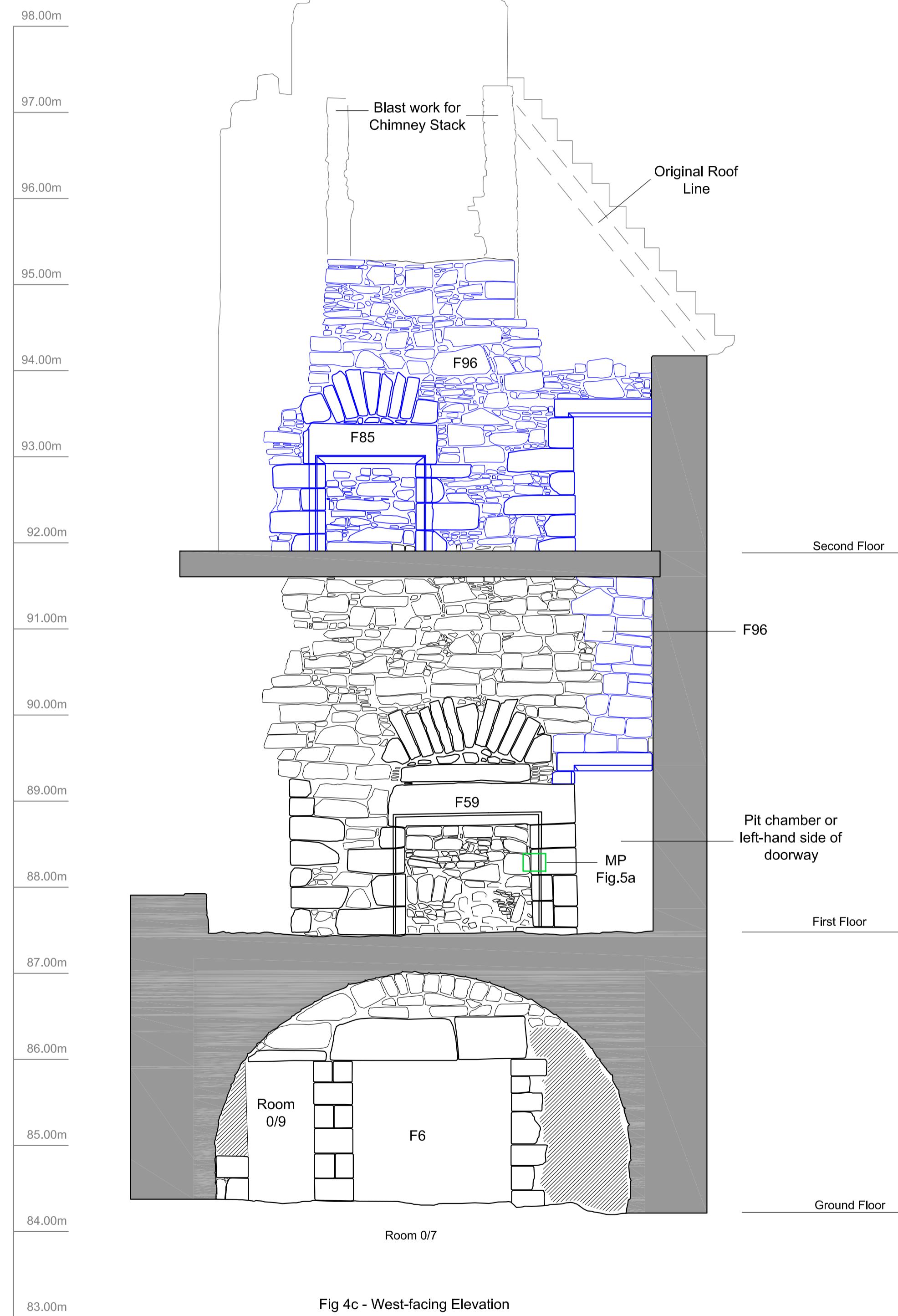
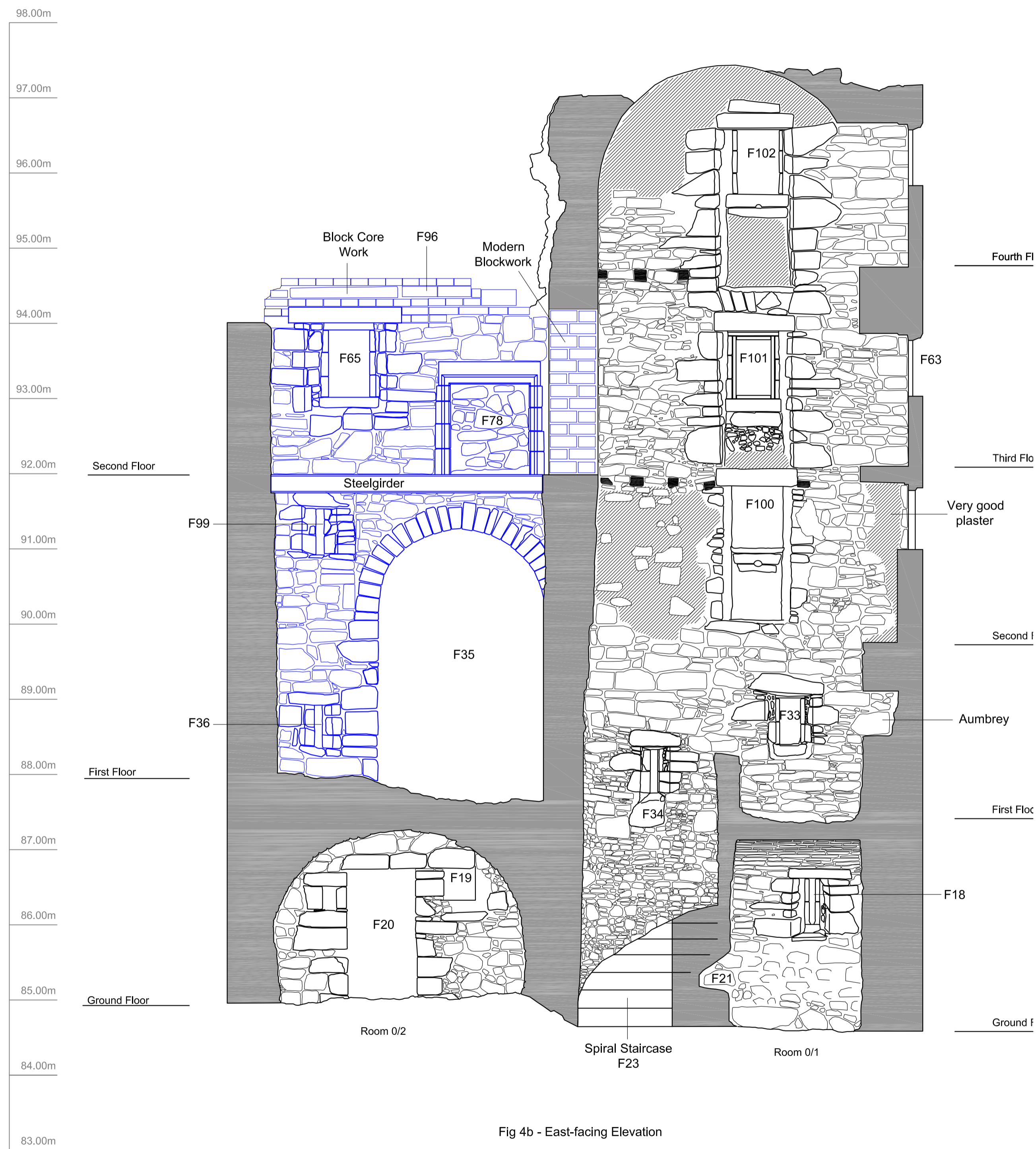
Plaster




Key:

Reconstructed
Re-Build

Plaster



Reconstructed
Re-Build

 Plaster

Title:
Internal South-Facing
Elevation

Scale:
1:40 @ A1

Client: Mr Geoffrey Nicholsby

Drawn by: LW	Report No: 1710
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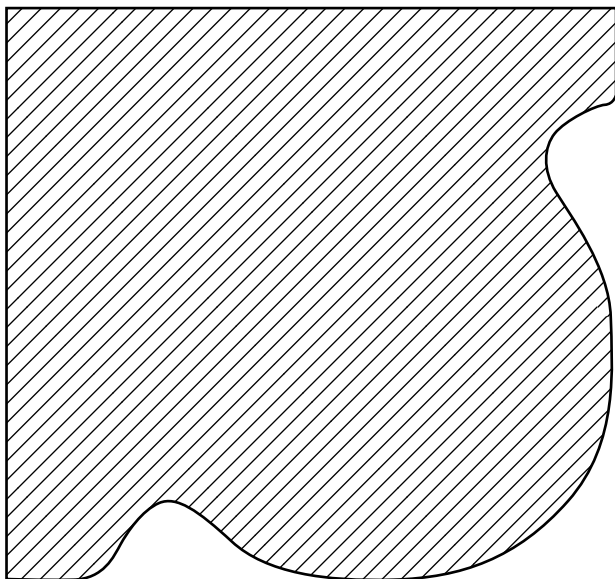


Fig. 5a - Roll moulding profile for fireplace No.59 east end of first floor hall

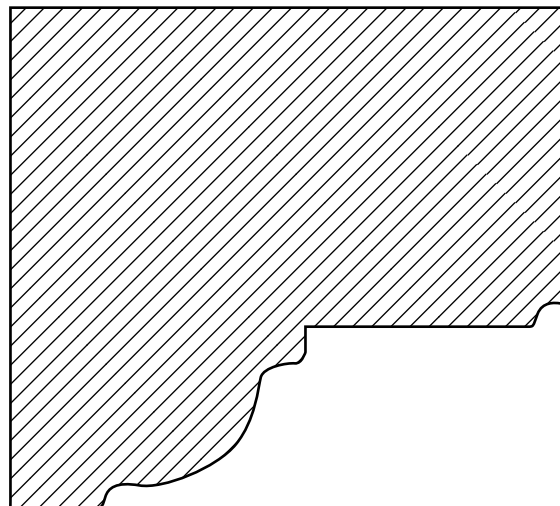


Fig. 5b - Moulding profile surrounding main south-facing entrance F3

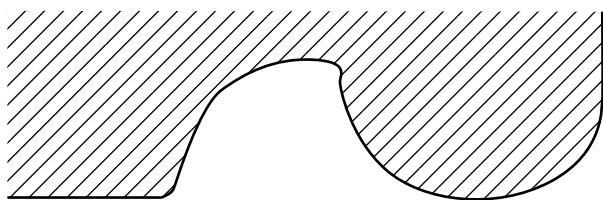


Fig. 5c - Roll moulding profile F52 first floor fireplace

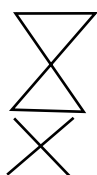


Fig. 5e - Sketch drawing of Mason's mark on door surround, south-facing elevation

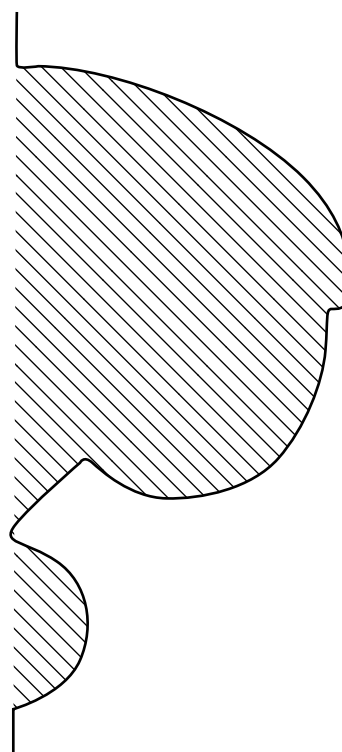


Fig. 5d - Moulding profile for Amoria plaque and string course on south-facing exterior elevation

Key:

Fig. No: 5a-e

Revision: FINAL

Client: Geoffrey Taylor

Title: Moulding profiles

Project: Duntarvie Castle
Standing Building Survey

Scale: 1:2



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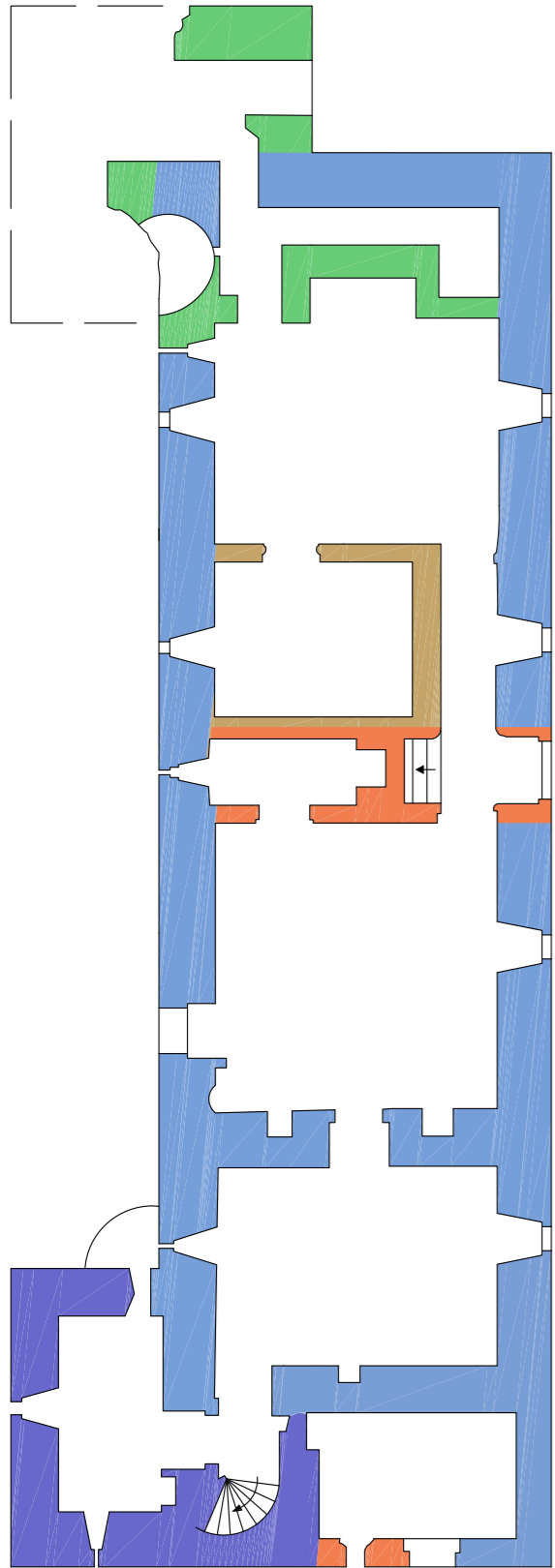


Fig. 6a - Possible chronology based on current ground floor plan

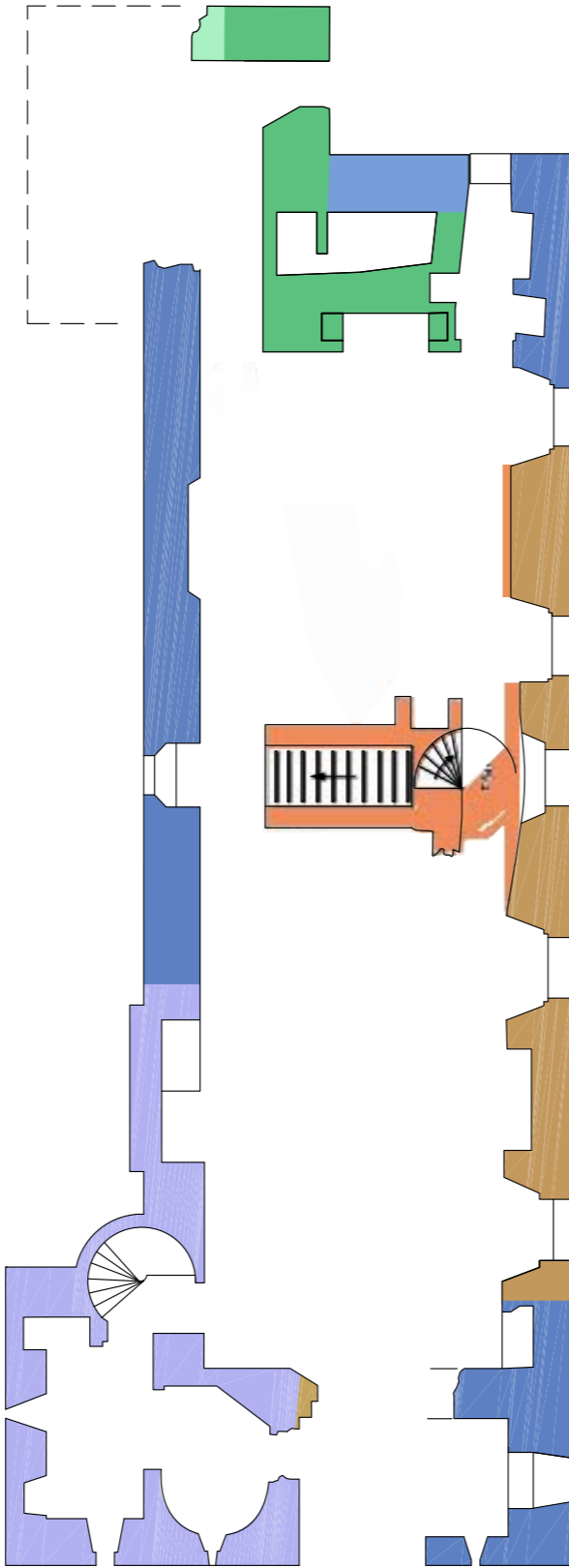


Fig. 6b - Possible chronology based on current main floor plan

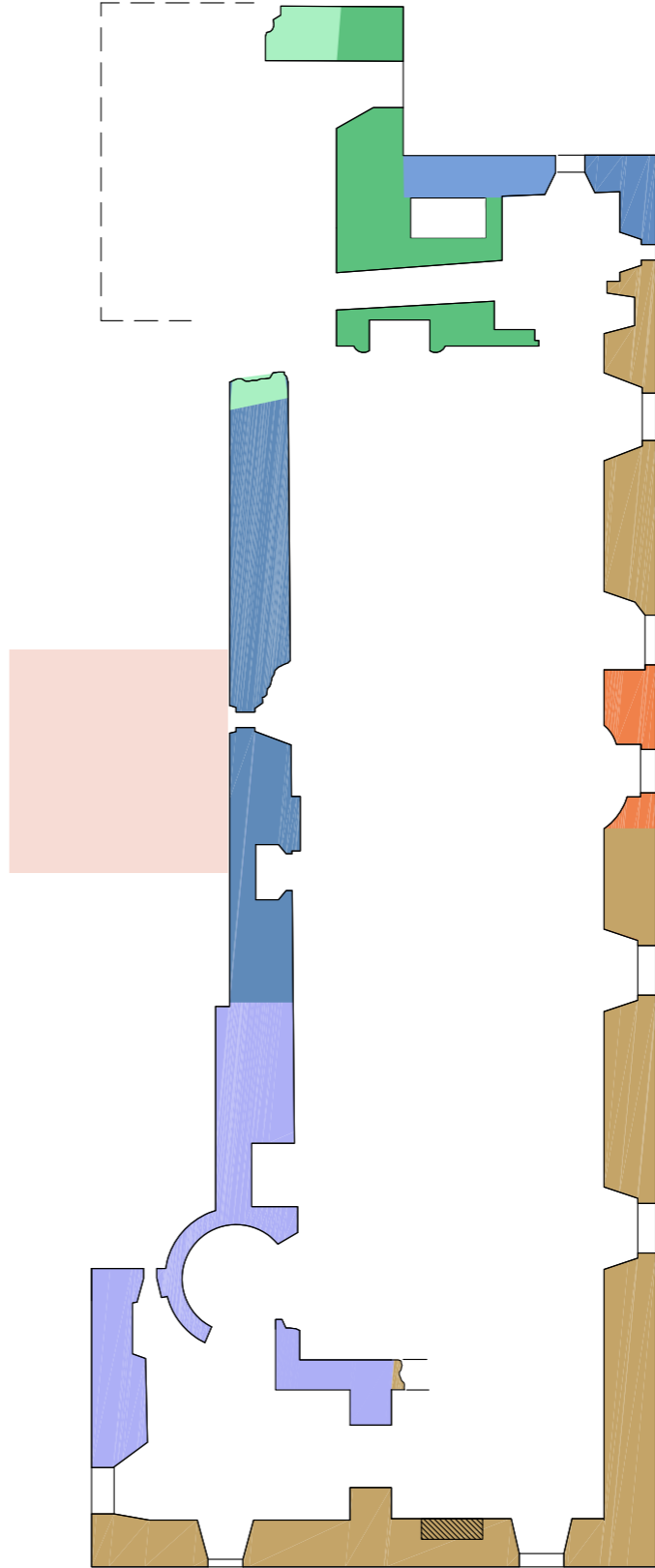


Fig. 6c - Possible chronology based on current upper floor plan



Key:

- 15th Century ?
- Late 15th Century ?
- Late 15th Century ?
- Later 16th Century
- Early 17th Century
- Early 17th Century
- Later 17th Century
- Conjectural Staircase



Fig. No: **6a-c** Revision: **FINAL**

Title:
Phased Development plans after Charles McKean

Project:
Duntarvie Castle, Winchburgh, West Lothian Level 4 Historic Building Survey

Scale:
1:125 @ A3

Client:
Mr Geoffrey Nicholsby

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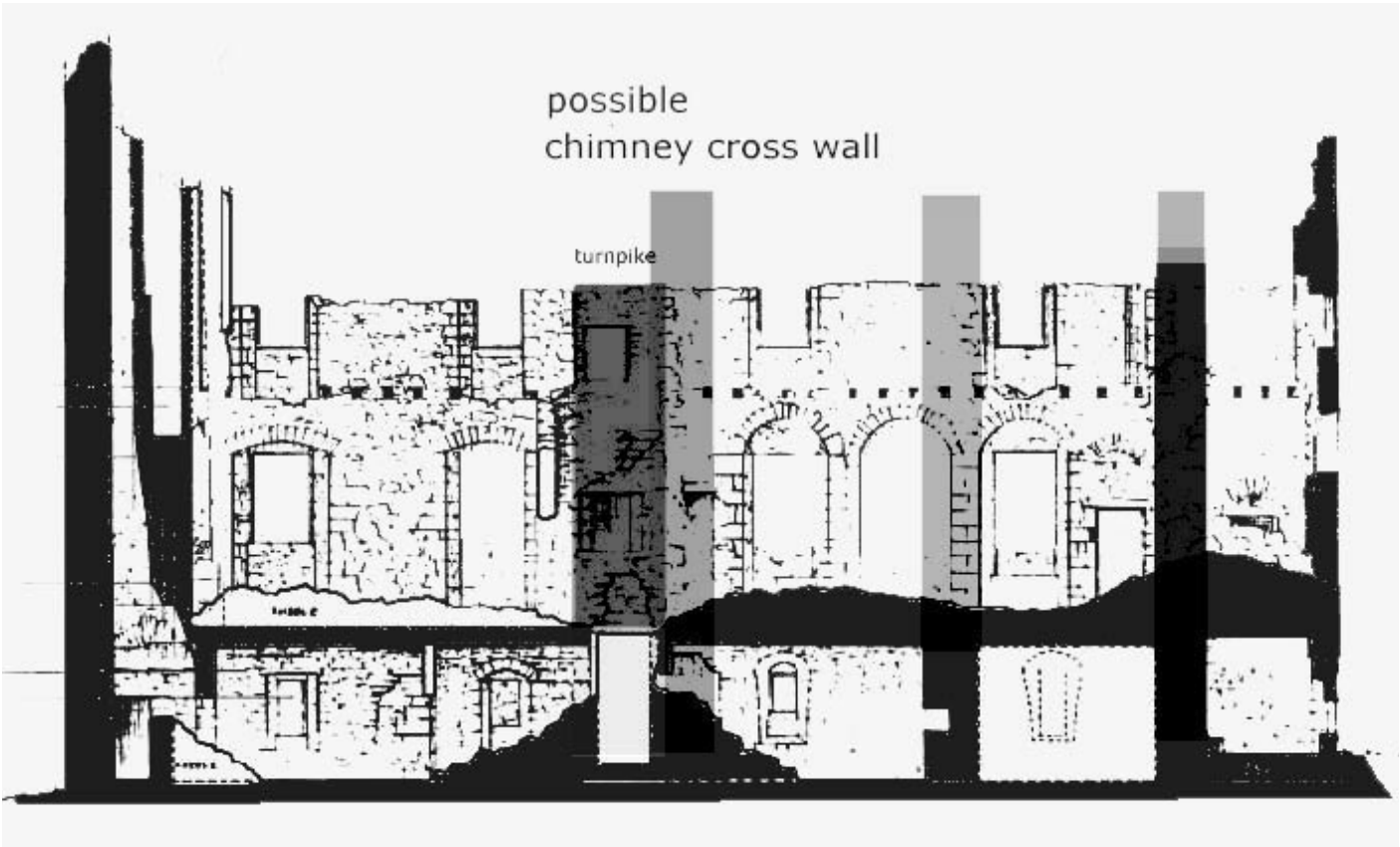



Fig. 7 - Original possible cross walls. Shows disconnection between the ground floor structure and the upper floors, implying huge remodeling.

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	Title:					
	Project: Duntarvie Castle, Winchburgh, West Lothian Level 4 Historic Building Survey					
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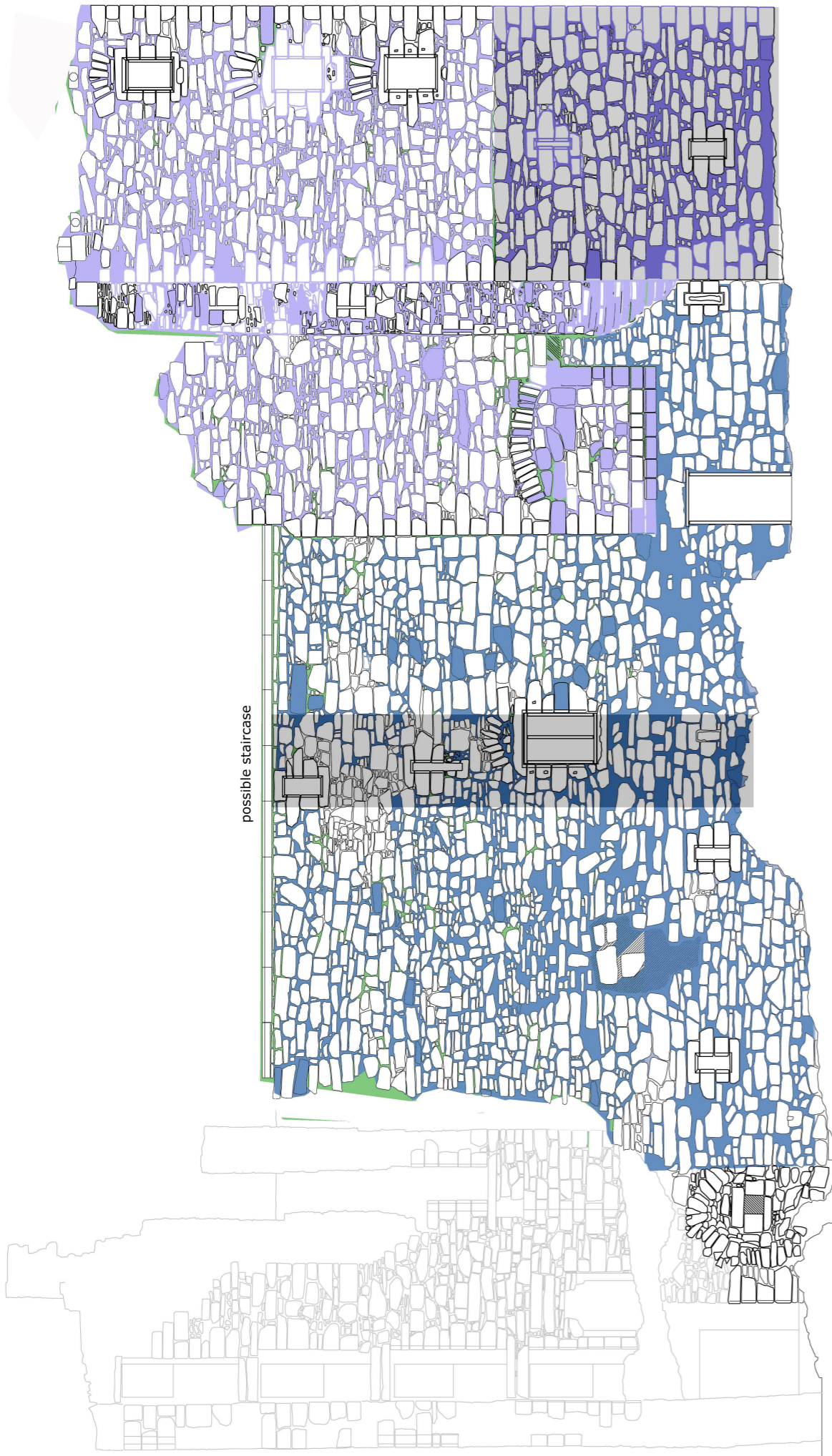


Fig. 8a - North elevation showing original north west tower and its upper alteration and extension east, and the possible staircase



Fig. 8b - South elevation, showing altered windows in the east tower south wall, the garden stairs alteration, and the possibility of a missing building on the south west corner, later decapitated.



Key:

- 15th Century ?
- Late 15th Century ?
- Late 15th Century ?
- Later 16th Centruy
- Early 17th Century
- Early 17th Century
- Later 17th Century

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Fig. No:	8a-b	Revision:	FINAL
Title: Phased External Elevations after Charles McKean			
Project: Duntarvie Castle, Winchburgh, West Lothian Level 4 Historic Building Survey			
Scale: 1:100 @ A3			
Client: Mr Geoffrey Nicholsby			

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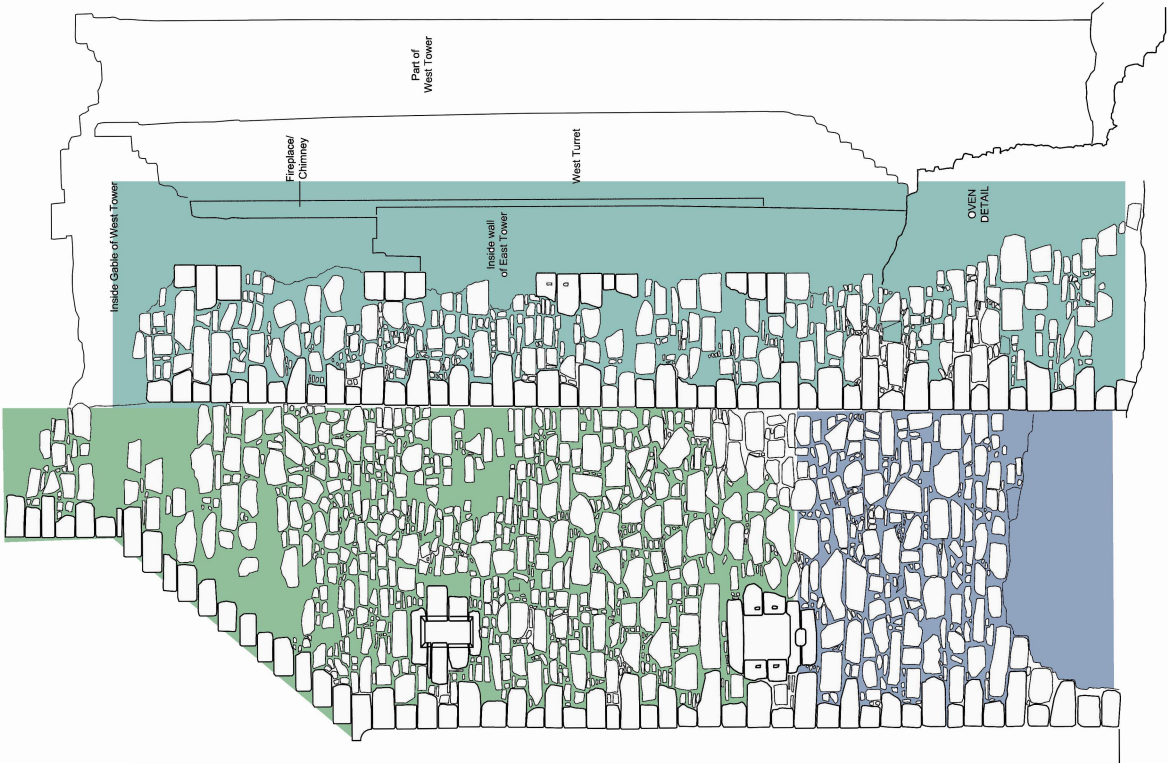


Fig. 8d - External east elevation: assuming original south wall of that tower, pre-alteration, is 15th century

- 15th Century ?
Late 15th Century ?
Late 15th Century ?
Later 16th Century
Early 17th Century
Early 17th Century
Later 17th Century

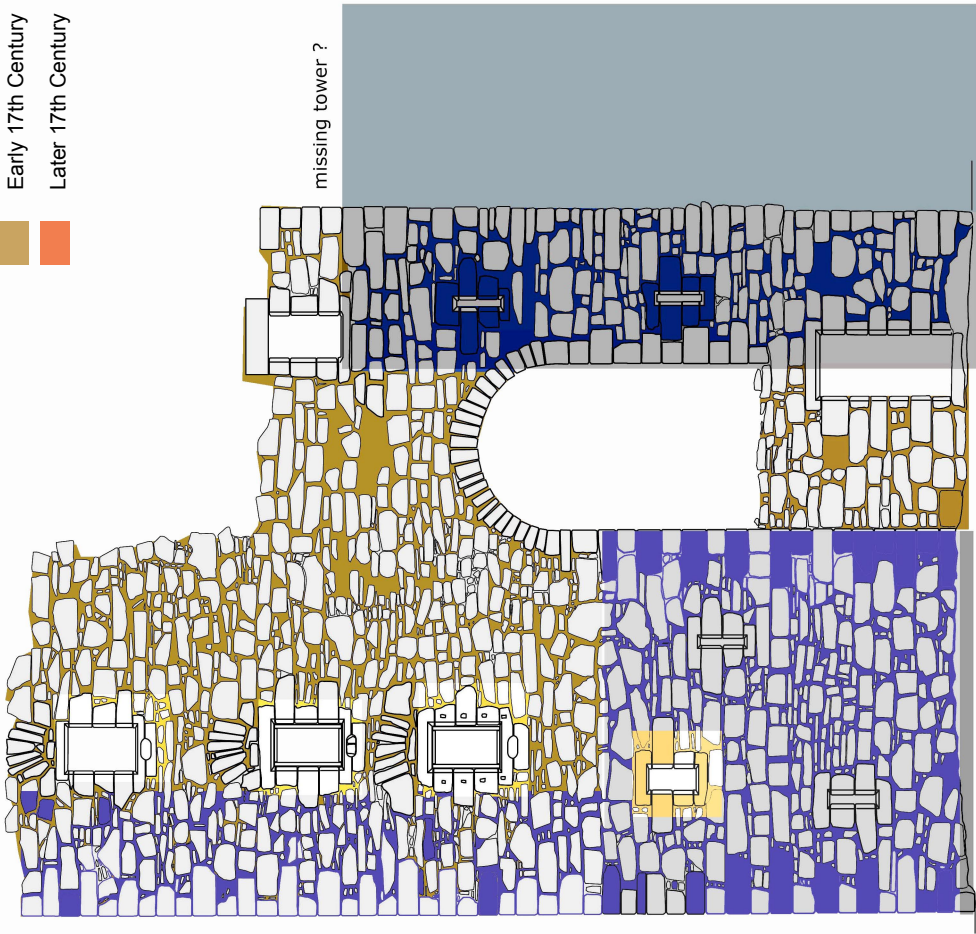


Fig. 8c - Exterior west facing façade

Key:

Fig. No:	8c-d	Revision:	FINAL	Client:	Mr Geoffrey Nicholsby
Title:	Phased Exterior Elevations, after Charles McKean				
Project:	Duntarvie Castle, Winchburgh, West Lothian Level 4 Historic Building Survey				

Scale: 1:100@A4



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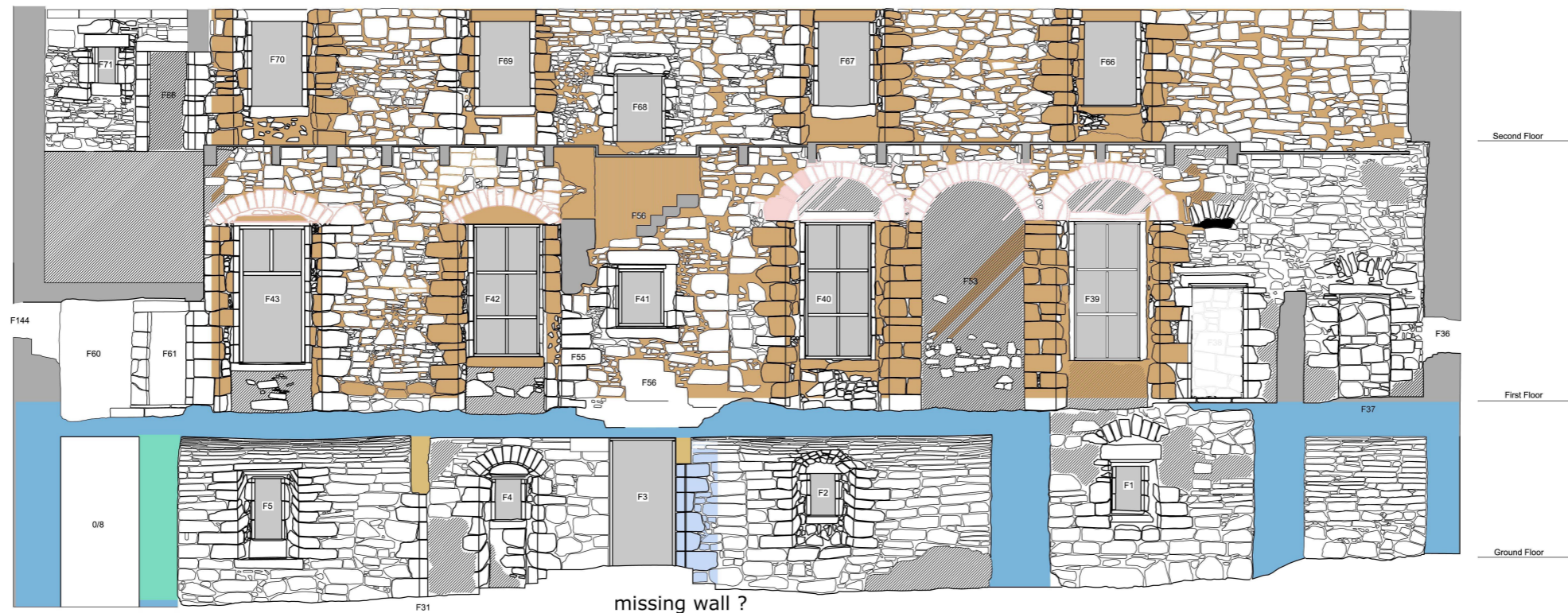


Fig. 9a - Internal elevation from north showing alteration to window heads

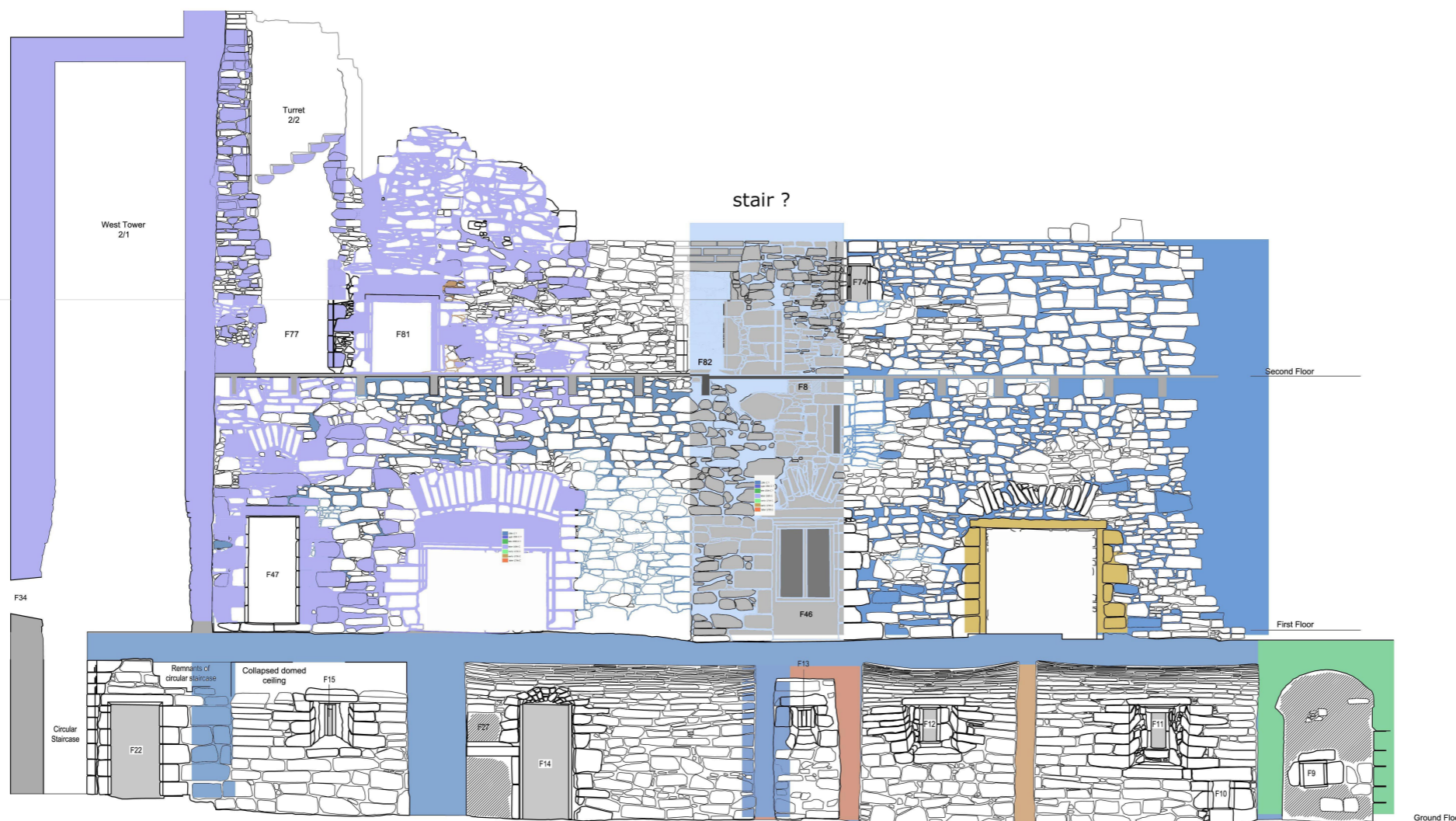
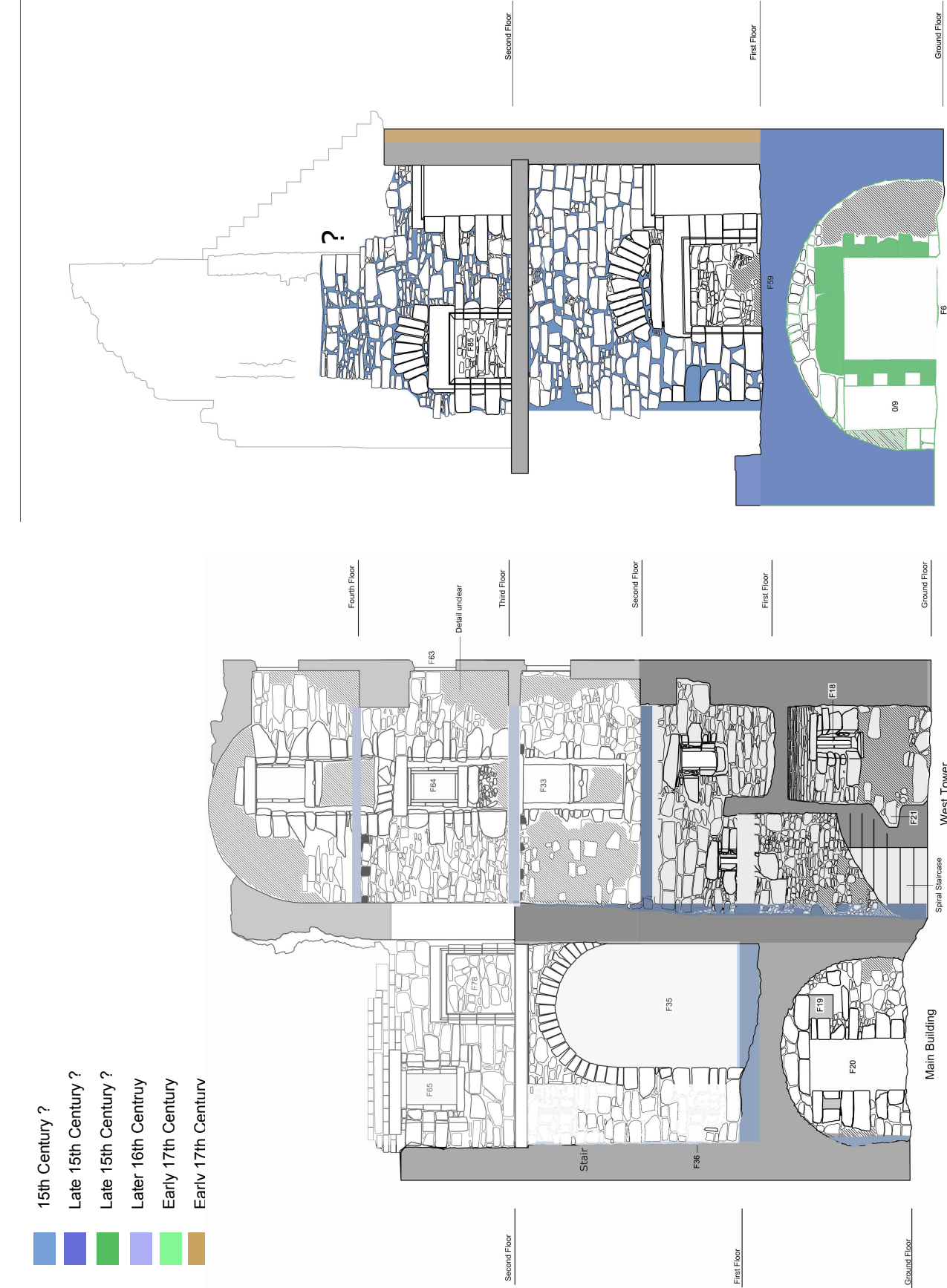



Fig. 9b - Internal south elevation showing chronology

Key:

- 15th Century ?
- Late 15th Century ?
- Late 15th Century ?
- Later 16th Century
- Early 17th Century
- Early 17th Century
- Later 17th Century



Key:	Fig. No:	9c-d	Revision:	FINAL	Client:	Mr Geoffrey Nicholsby			 <div>CFA ARCHAEOLOGY LTD The Old Engine House Eskmills Park Musselburgh East Lothian, EH21 7PQ t: 0131 273 4380 f: 0131 273 4381 e: info@cfa-archaeology.co.uk w: www.cfa-archaeology.co.uk</div>		
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Scale:	1:100@A4	Project:	Duntarvie Castle, Winchburgh, West Lothian Level 4 Historic Building Survey				Drawn by:	LW	Page No:	Report No:	1710



Key:



B/W 35mm Film
(Nikon Ilford HP5 Plus)



Fig. No: 10a Revision: FINAL

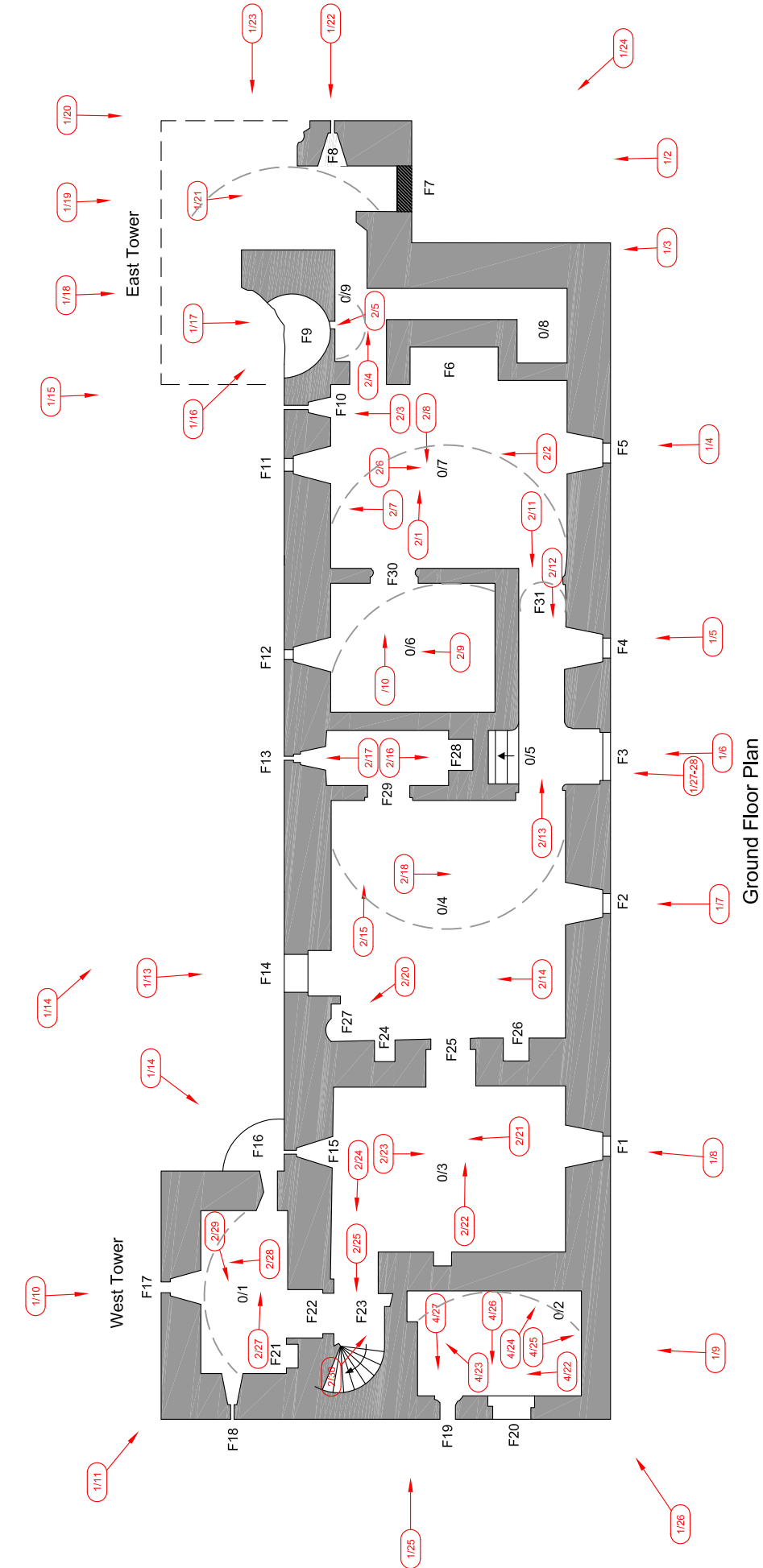
Title:
Photographic Plan

Project:
Duntarvie Castle, Winchburgh,
West Lothian Level 4 Historic
Building Survey

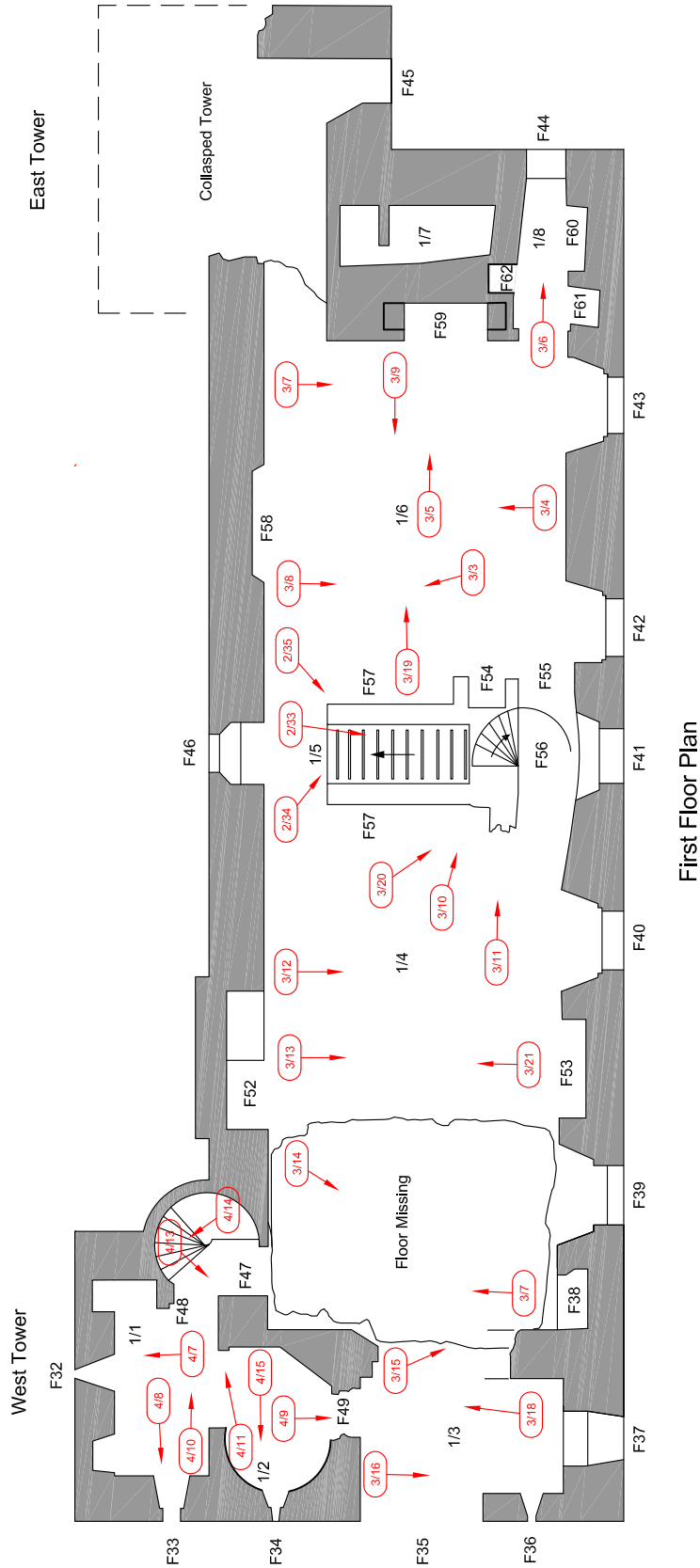
Scale:
1:125 @ A3

Client:
Mr Geoffrey Nicholsby

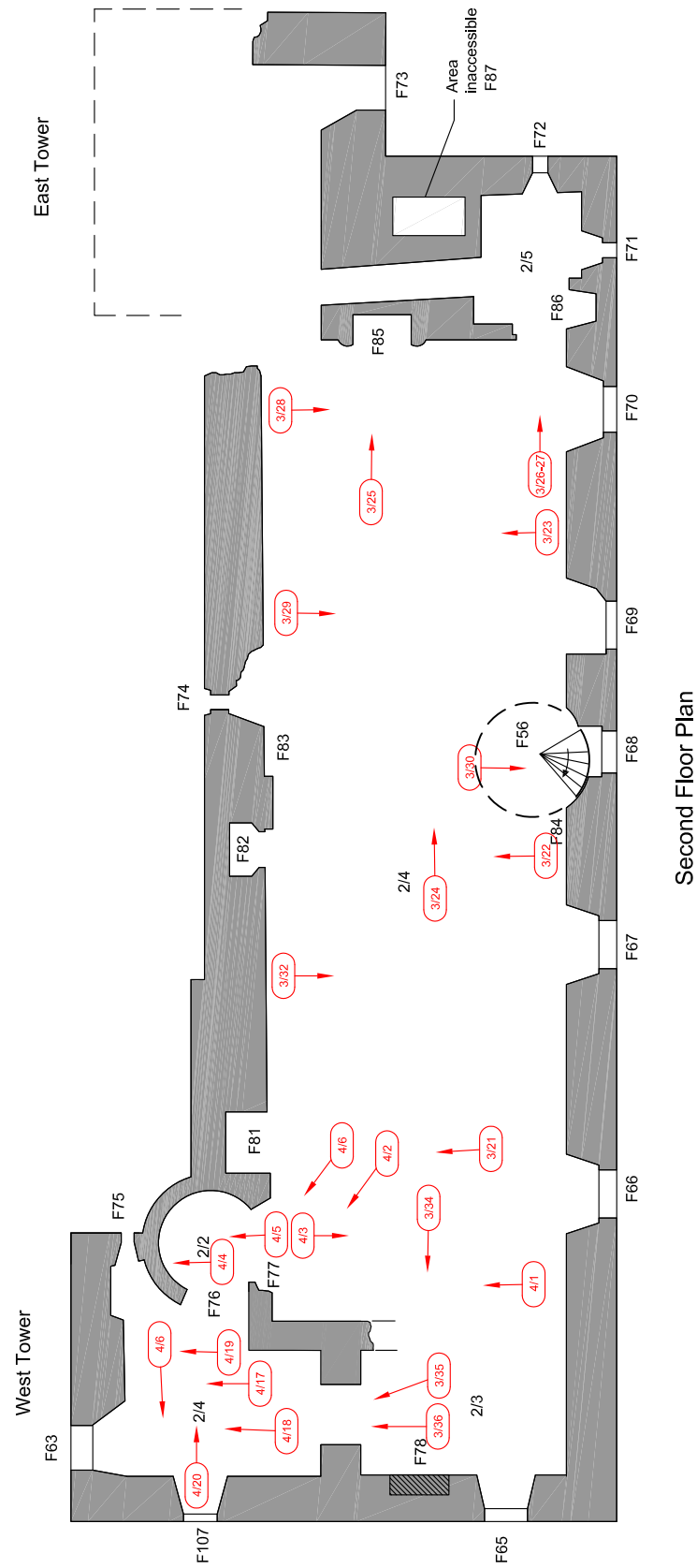
Drawn by: LW Report No: 1710



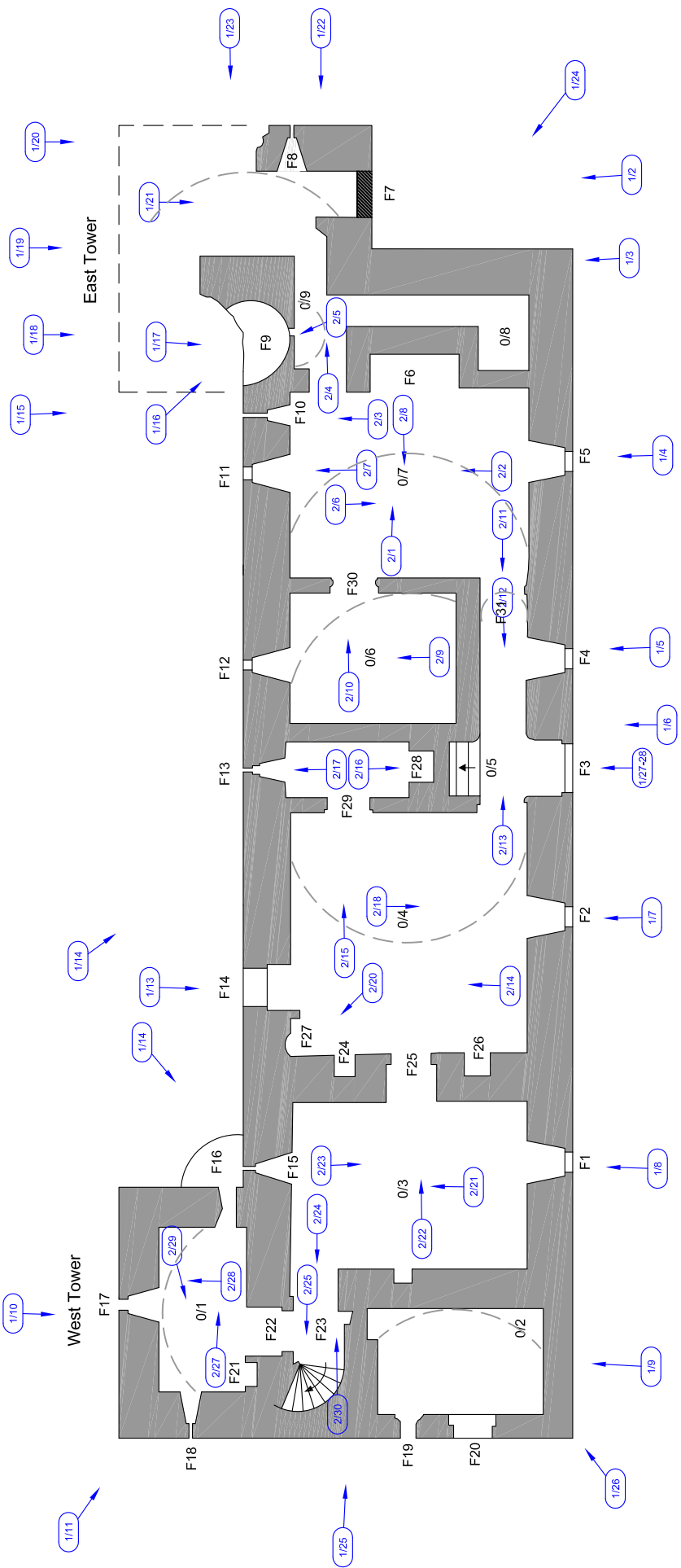
Ground Floor Plan



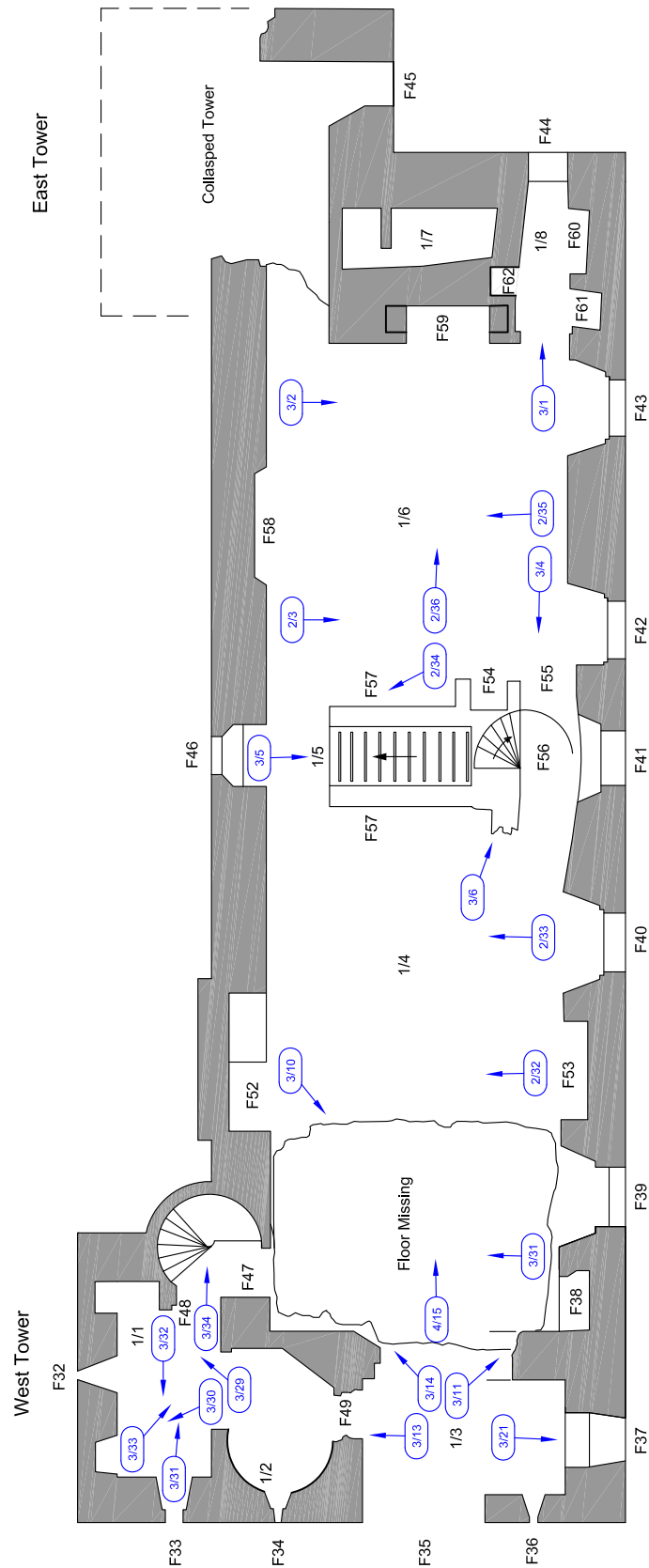
First Floor Plan



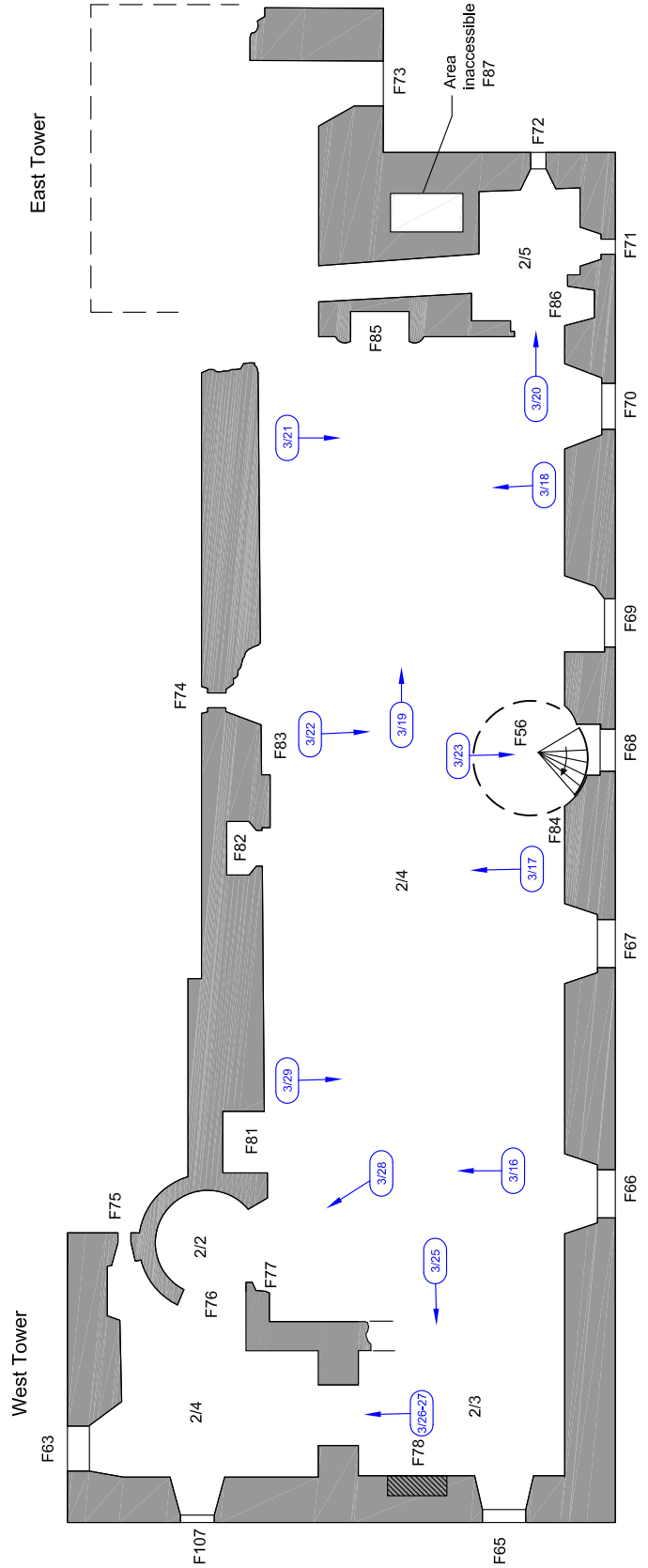
Second Floor Plan



Ground Floor Plan



First Floor Plan



Second Floor Plan



Key:
3/20 Slide Film



Fig. No: 10b Revision: FINAL

Title: Photographic Plan

Project: Duntarvie Castle, Winchburgh, West Lothian Level 4 Historic Building Survey

Scale: 1:125 @ A3

Client: Mr Geoffrey Nicholsby

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Plate 1 The north-facing elevation



Plate 2 Oblique view of the south-facing elevation


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	Title: Plates 1-2					
	Project: Duntarvie Castle Standing Building Survey					
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Plate 3 The east-facing elevation (East Tower)



Plate 4 The west-facing elevation



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	Title:		Plates 3-4						
	Project:		Duntarvie Castle Standing Building Survey						
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Plate 5 - Aerial photograph (RCAHMS) showing possible inner court, garden and parterre

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