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THE TOWER HOUSES
OF
COUNTY WEXFORD

Vol. II

The Tower Houses
of
County Wexford

2 Volumes

Volume II

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Submitted for the Degree of Ph.D
at
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(University of Dublin)

Department of Mediæval History

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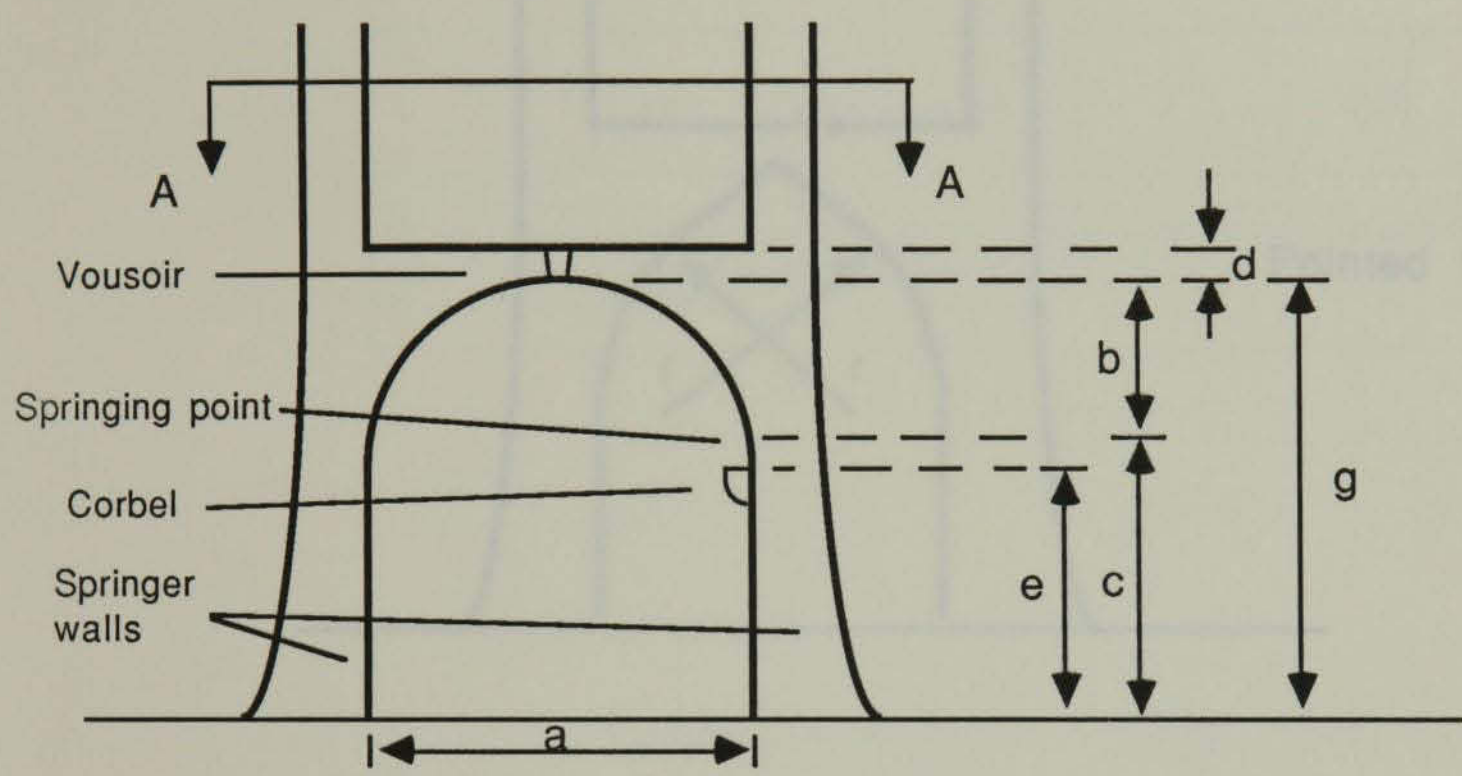
Addenda and Errata

Fig./ Plate/ Table

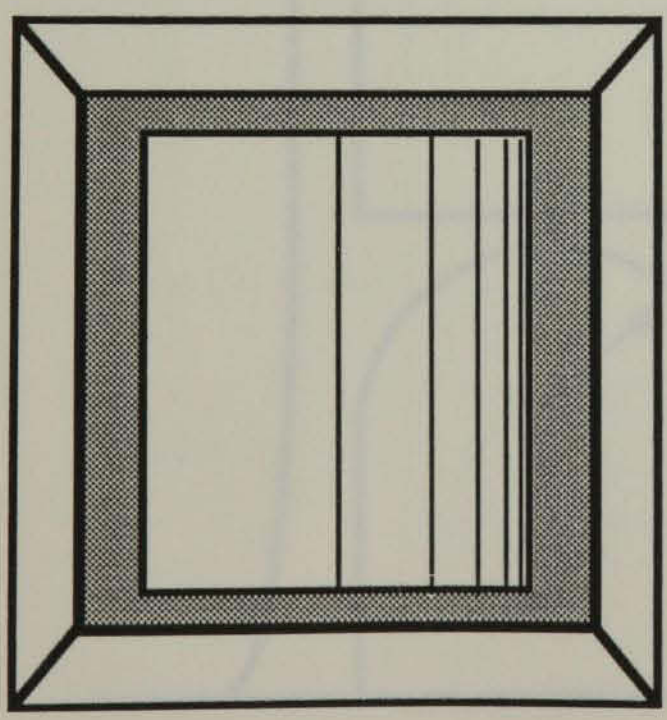
3.1	<i>for</i> vousoir(s) <i>read</i> voussoir(s)
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3.7(8)	<i>for</i> accross <i>read</i> across
3.20	<i>for</i> put-log <i>read</i> beam or joist
3.28	<i>for</i> put log <i>read</i> beam
4.4	<i>for</i> allure <i>read</i> alure
4.5	<i>for</i> allure <i>read</i> alure
6.4	<i>after</i> <i>for</i> insert Hourd, - sometimes called a
9.6	<i>add the following at the end of the table</i> An examination of methods and styles of stone dressing would repay study and this would serve as another useful indicator of chronology.

Fig 3.1

**Schematic Sections through
a Barrel Vault**



SECTIONAL ELEVATION

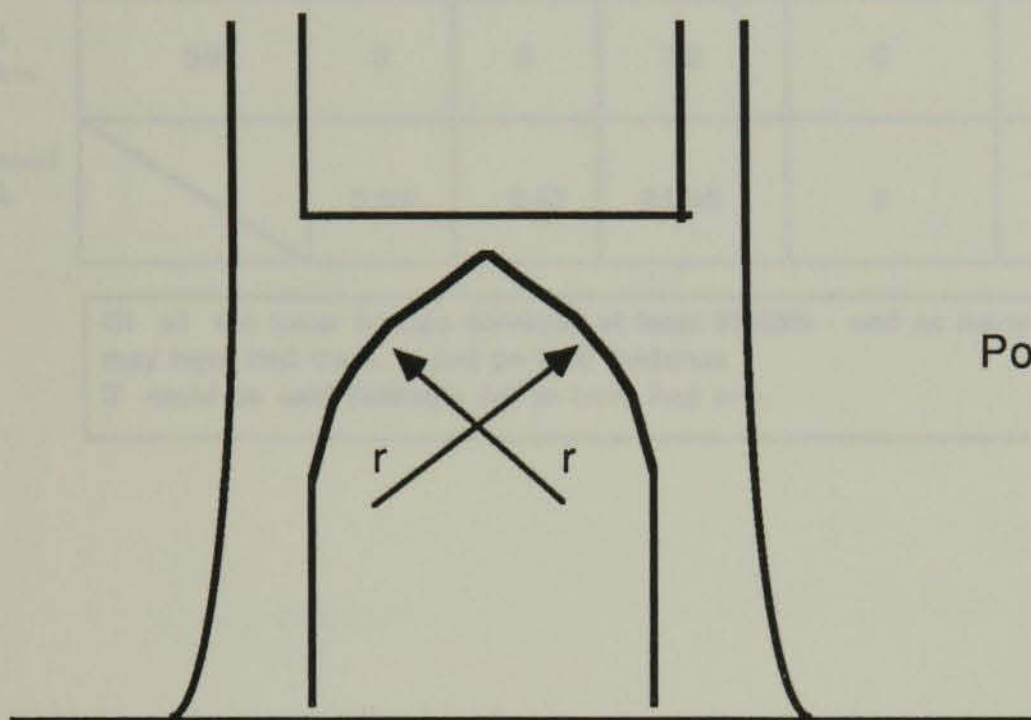


SECTIONAL PLAN (A-A)

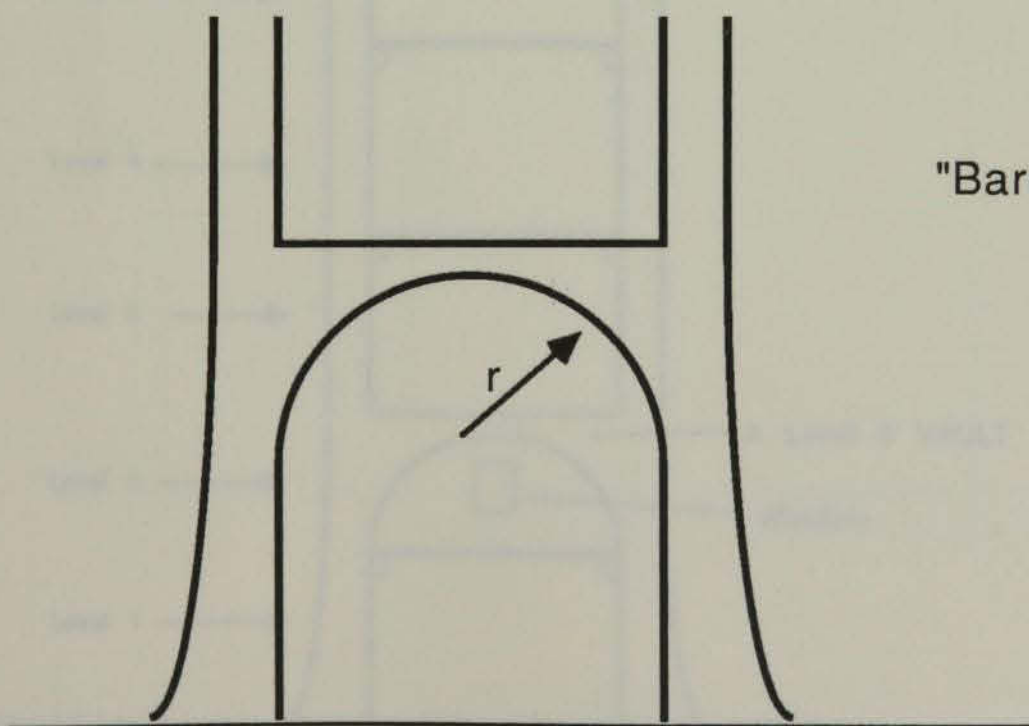
- a = Span
- b = Height of vault arch itself
- c = G. L. to springing point dist.
- d = Thickness of vault at vousoir
- e = G.L. to corbel distance
- g = Height of vault above Ground Level

Types of Vault

Fig 3.2



Pointed vault



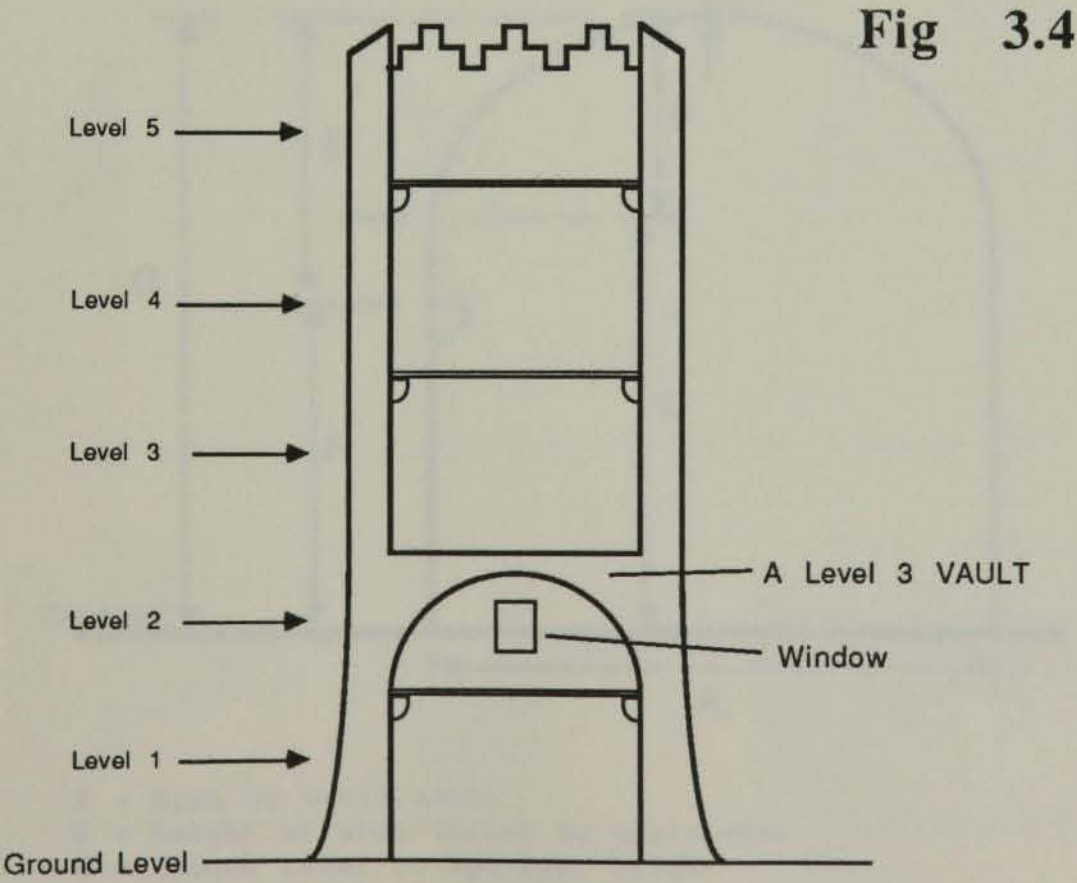
"Barrel" vault

Table 3.3

Numbers and positions of Vaults in the Wexford tower houses						
	# with available vault evidence	# with NO vaults	# with unknown #	# with vaults @ 1 level only	# with vlts @ 2 levels	# with 2 vaults @ one level.
Actual Numbers	59	3	5	48	0	3
Expressed as a %		5.08	8.47	81.35	0	5.08

Of all the tower houses surveyed at least 86.43% - and as many as 95% may have had them, based on field evidence.

3 could be said definitely not to have had one.



Schematic section through a tower house with an under-vault room.
Showing Levels.

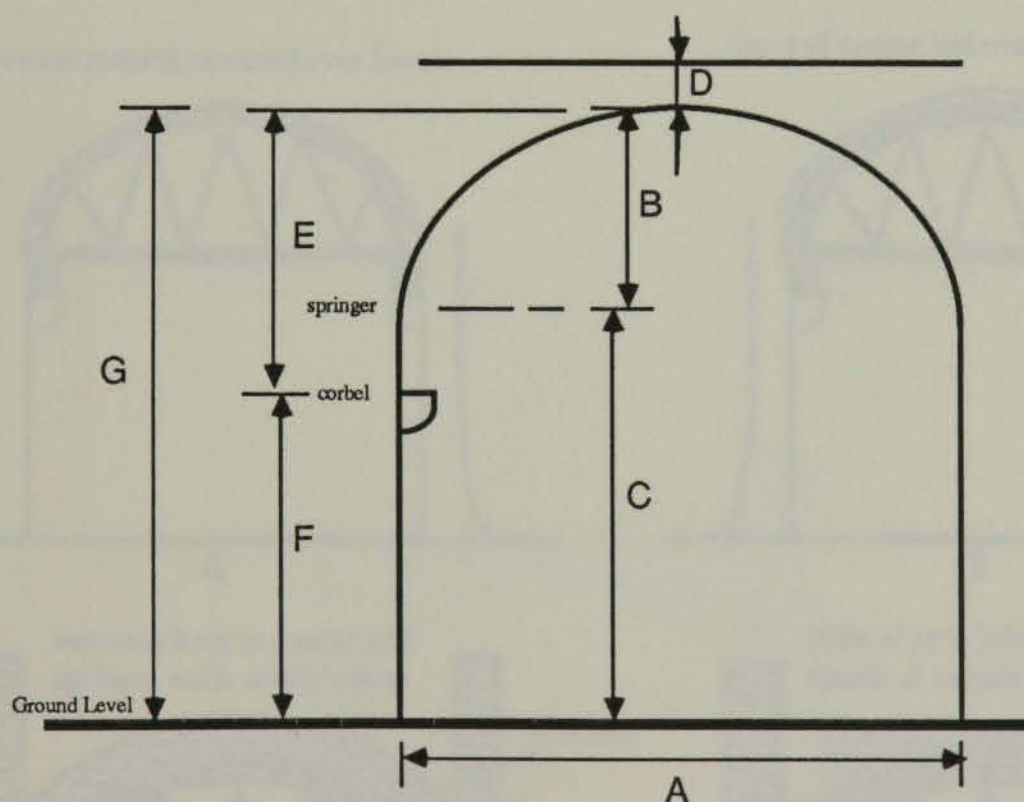
Vault "Levels"

Table 3.5

	Tot. # Vaults.	Vaults @ L2.	@ L3	@ L4	Unknown
#	54	12	38	1	3
% of all		22.20	70.37	1.85	5.55
% of Known		23.50	74.50	1.96	
% of "Low Level" Vaults		98%			

Vault Measurements (explanation)

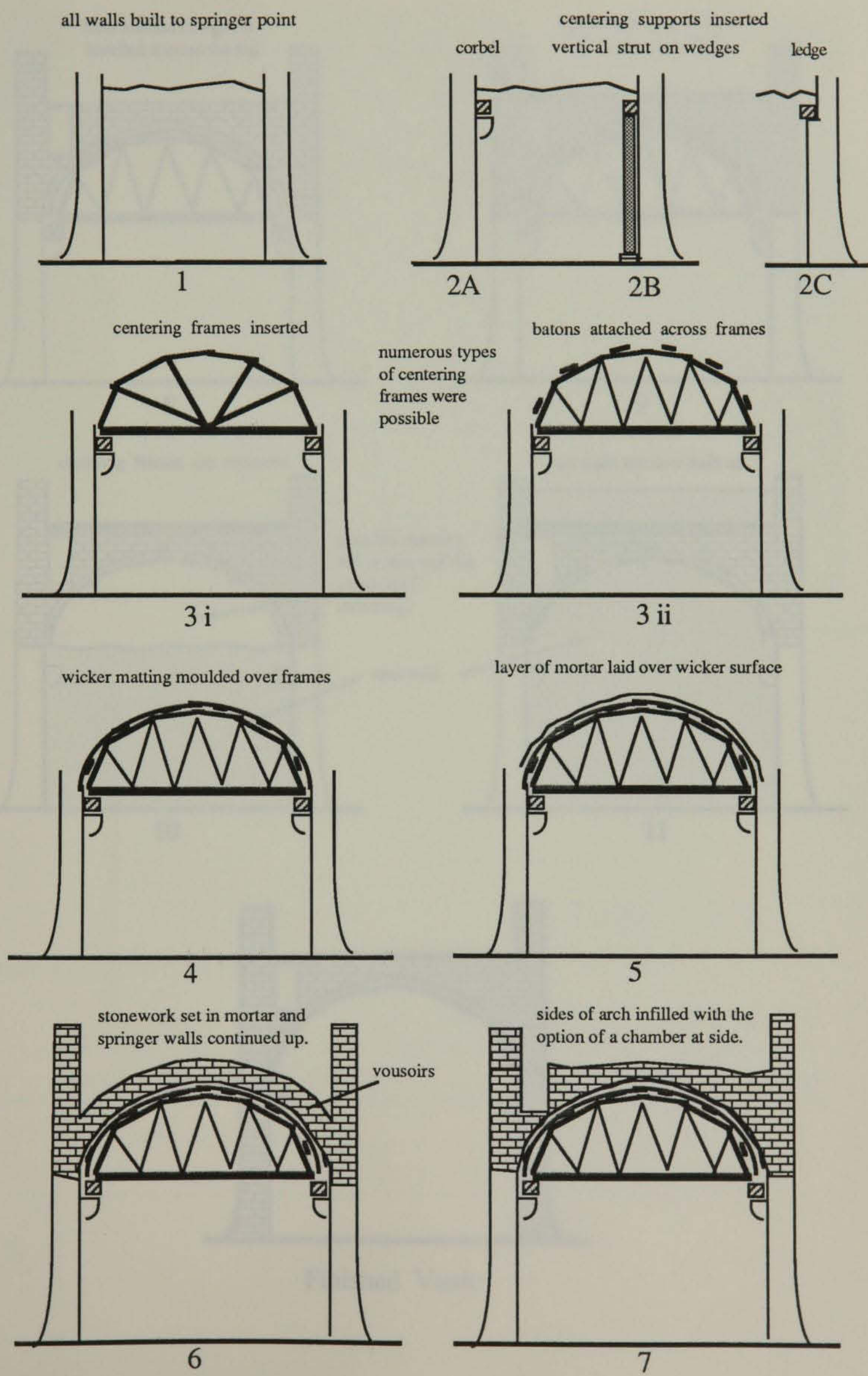
Fig. 3.6

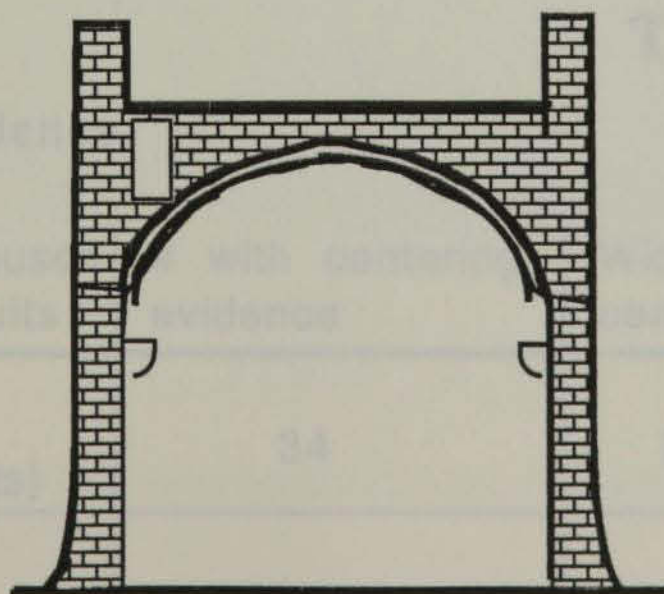
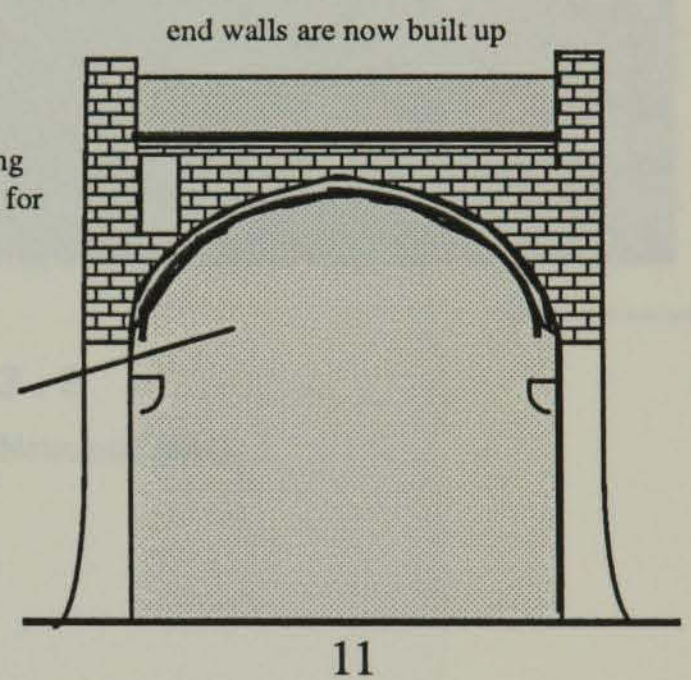
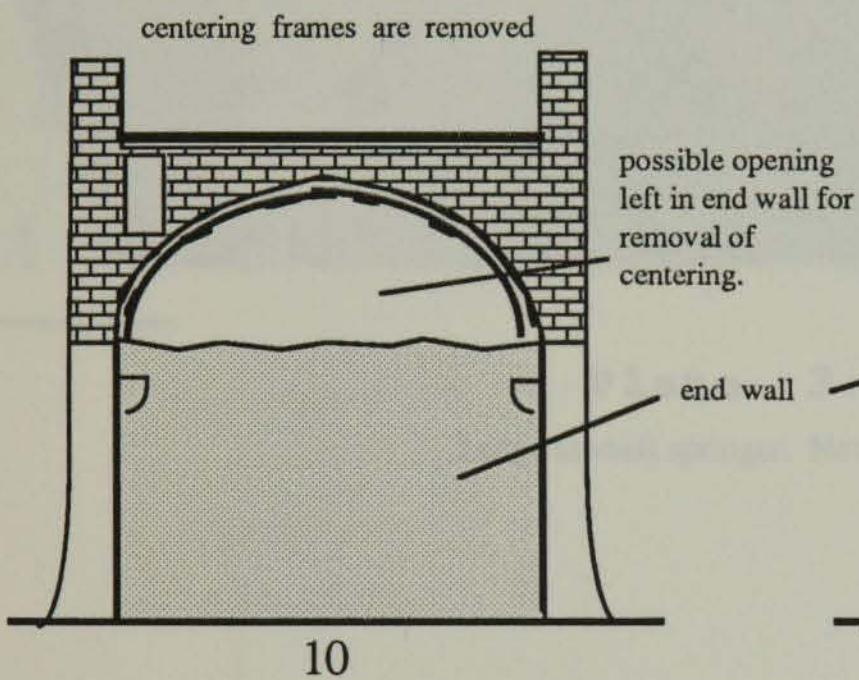
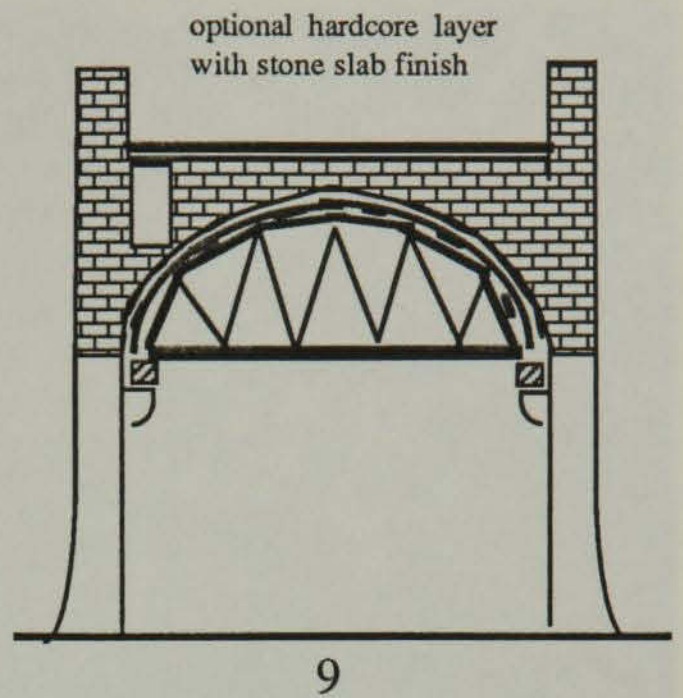
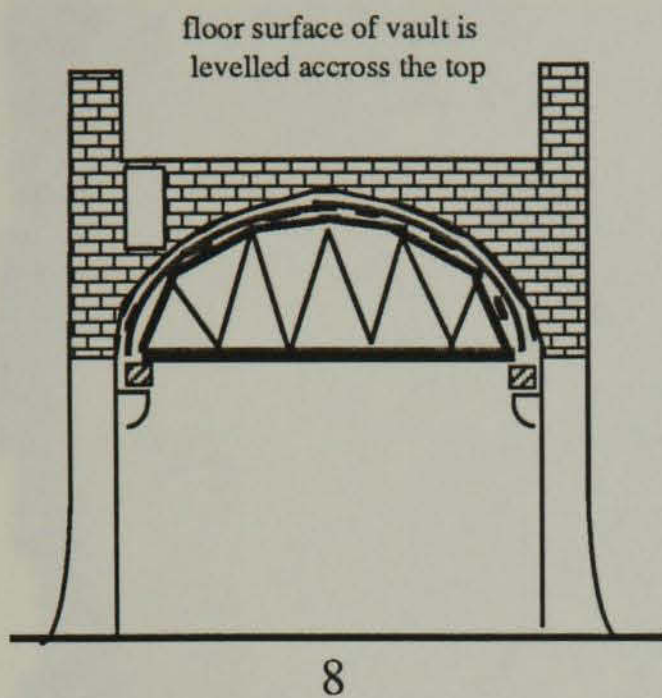


- A = Span of vault arch.
- B = Height of arch (crown to springers)
- C = Ground Level to springer height
- D = Thickness of vault (at crown / vousoir = thinnest point)
- E = Height of "vault room"
- F = Height of "under-vault room"
- G = Height of vault (ground to crown)

VAULT CONSTRUCTION SEQUENCE

Fig. 3.7





Finished Vault



Plate 3.8

Ledge at vault springer. Newcastle (#81).

Table 3.9

Centering Evidence

	Tower houses with Vaults	# with centering evidence	Wicker centering	Planking centering
#	51 (54 vaults)	34	34	0
%		62.9		

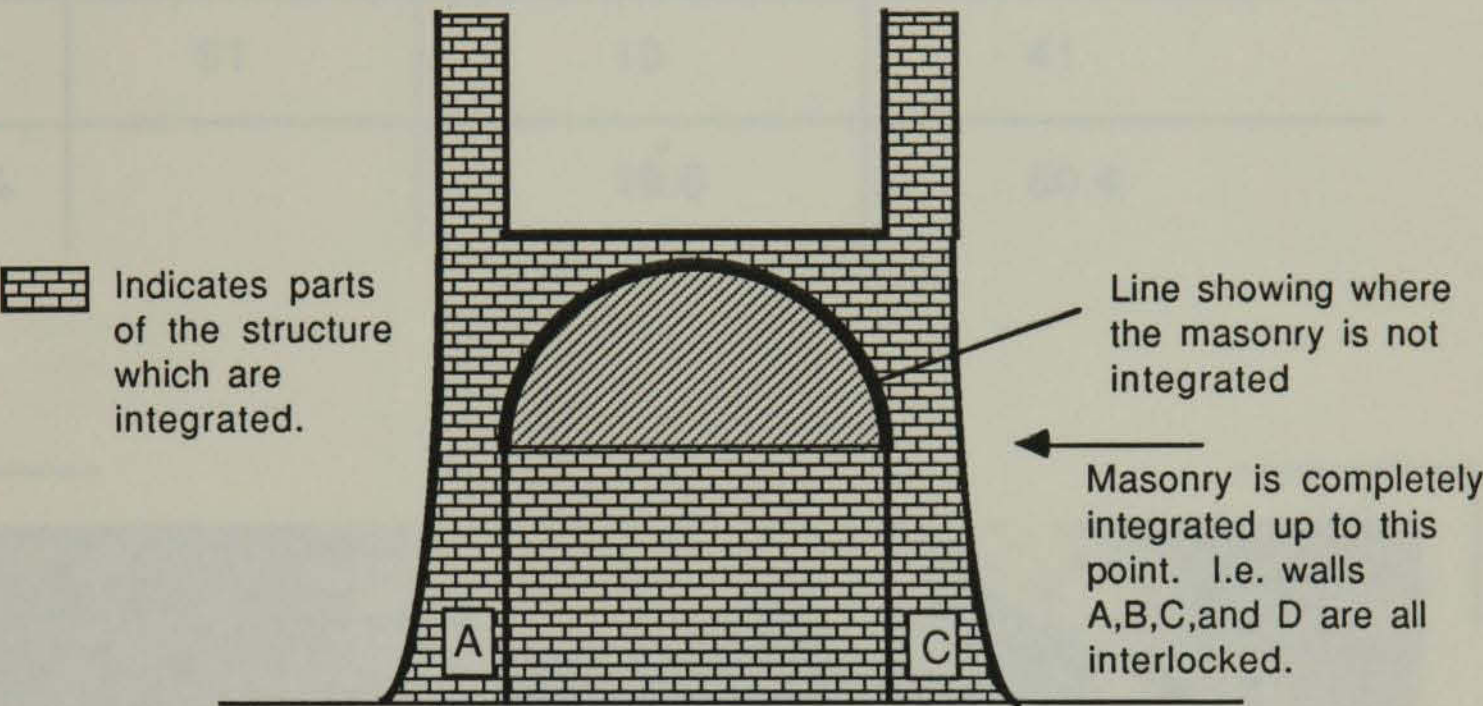


Plate 3.10

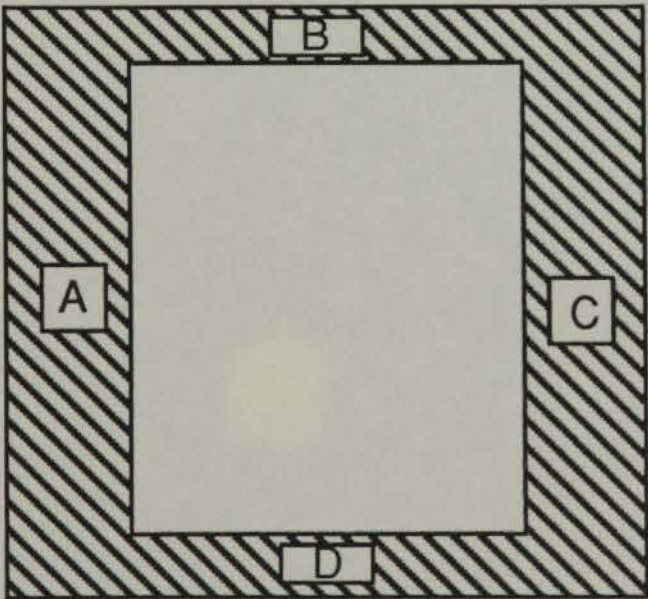
Wicker traces in the mortar under vault. Slade Castle (#138)

Vault Wall Integration

Fig 3.11.



Sectional Elevation.



Sectional wall plan

Table 3.12

Wall Integration ("Mc Kenna thesis")

	# with vault evidence	# "supportive" of Mc Kenna	Not possible to discern
#	51	10	41
%		19.6	80.4



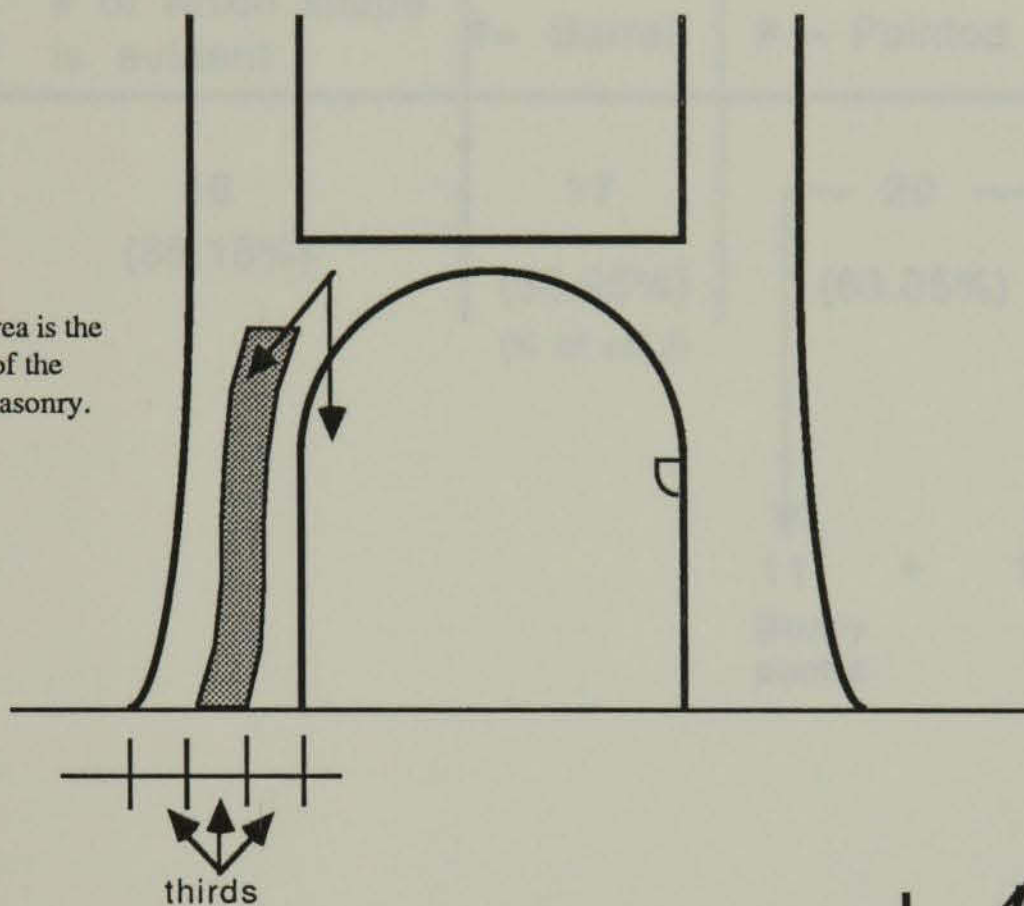
Plate 3.12A

Vault (open at one side) at Killesk (#65).

Fig 3.14

Lines of thrust through a vault and springer

The shaded area is the middle third of the supporting masonry.



The resultant vector of thrust is shown. In this case the line is completely contained within the middle third sector of the supporting masonry. This is therefore a stable vault.

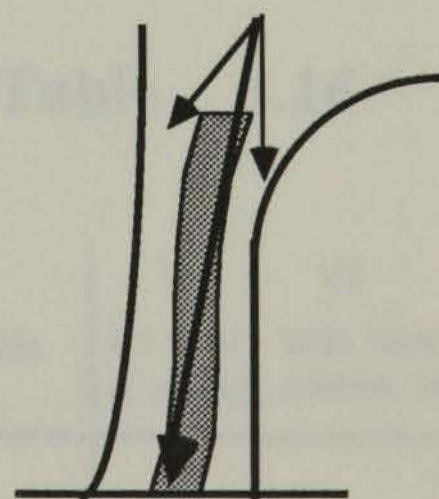


Table 3.15

Vault Shape

1 # with Vaults	2 # of which shape is evident	3 #= Barrel	4 # = Pointed
51 (54 vaults)	46 (85.18%)	17 (36.95%) (% of col.2)	29 (63.05%)
			11 Bluntly pointed + 18

Vaults and Batter (Talus)

Table 3.16

	I # with evidence	II batter questionable	III No batter present	IV # with batter	V No talus (of col.IV)	VI With talus present also.
#	53	1	2	49	9	40
%		1.88	3.77	92.45	17.0	75

Table 3.17

Vault Measurements

#	Name	A	B	C	D	E	F	G
05	Borris	2.45	0.80	-	-	-	-	-
31	Adamstown	5.05	-	-	0.54	-	-	3.25
32A	Macmine	4.10	2.50	3.00	-	-	-	5.50
33A	The Deeps (i)	5.30	-	-	-	-	-	3.75
33A	The Deeps (ii)	5.05	-	-	-	-	-	3.75
40	Tellarought	4.00	2.00	3.00	-	-	-	5.00
53	Barntown	2.55	2.30	2.30	-	2.60	2.00	4.60
54	Artramont	4.00	2.25	2.60	-	2.25	2.60	4.85
56B	Ferrycarrig	3.12	1.60	4.50	-	3.25	2.85	6.10
57B	Selskar	4.60	2.40	2.80	-	-	-	5.20
58/1	Westgate	2.60	0.50	2.80	-	-	-	3.30
65	Killesk	4.70	-	-	0.80	-	-	5.70
69	Taylorstown	4.60	2.20	2.80	-	-	-	5.00
70	Tracystown	4.25	2.30	2.85	-	-	-	5.15
71	Slevoy	3.15	1.80	-	-	2.80	-	-
75	Sigginshaggard	2.95	1.40	-	-	2.80	-	-
78G	Kilmannin	2.55	1.00	-	0.55	1.00	-	-
81	Newcastle	3.15	2.00	-	-	2.00	-	-
83	Clonard	4.60	2.18	2.00	-	-	-	4.18
88	Killiane	5.50	2.50	2.05	-	2.70	1.85	4.55
89	Rathmacknee	4.00	2.00	2.35	-	2.40	1.95	4.35
91	Kilhile	2.70	1.60	2.70	0.42	-	-	4.30
92	Ballyhack	4.75	2.55	-	-	-	-	-
97	Clonmines I	3.85	1.77	2.38	-	2.10	2.05	4.15
100	Barrystown	3.30	2.55	2.20	-	2.80	1.95	4.75
101	Danes	3.10	2.05	2.20	-	2.35	1.90	4.25
107	Scar	4.30	1.90	2.60	-	-	-	4.50
108A	Cullenstown	3.50	1.85	3.20	-	2.35	2.65	5.00
109	Rathronan	3.20	1.80	-	-	-	-	-
110	Baldwinstown	4.05	1.90	3.20	-	2.50	2.60	5.10
111A	Ballymagir (i)	3.40	1.30	2.20	-	-	-	3.50
111A	Ballymagir (ii)	3.16	-	1.80	-	2.05	-	3.85
112	Mulrankin	4.00	2.65	-	-	3.05	-	-
114A	Ballycogley	4.60	2.50	2.60	-	3.00	2.10	5.10
117	Butlerstown	4.05	2.45	2.63	-	-	-	5.08
122	Ballyconnor	3.50	1.85	-	-	3.20	-	-
124	Kilclogan	3.30	1.65	2.00	-	-	-	3.65
126	Fethard (i)	3.28	1.50	2.00	-	-	-	3.50
126	Fethard (ii)	4.20	1.60	1.75	-	-	-	3.35
128	Ballyteighue	3.95	2.40	2.90	-	2.90	2.40	5.30
129	Ballyhealy	4.55	1.85	-	-	-	-	-
134	Ladys Island	3.45	1.58	2.60	-	2.36	1.82	4.18
136	Clougheast	3.70	2.85	2.35	-	3.35	1.85	5.20
137	Castletown	4.50	2.60	-	-	3.00	-	-
138	Slade	2.60	1.40	2.60	-	2.10	1.90	4.00



Plate 3.18

Chamber (for operation of Murder-Hole) over door - "cut" into side of the vault.

Killesk Castle

Beam Support

Fig. 3.19

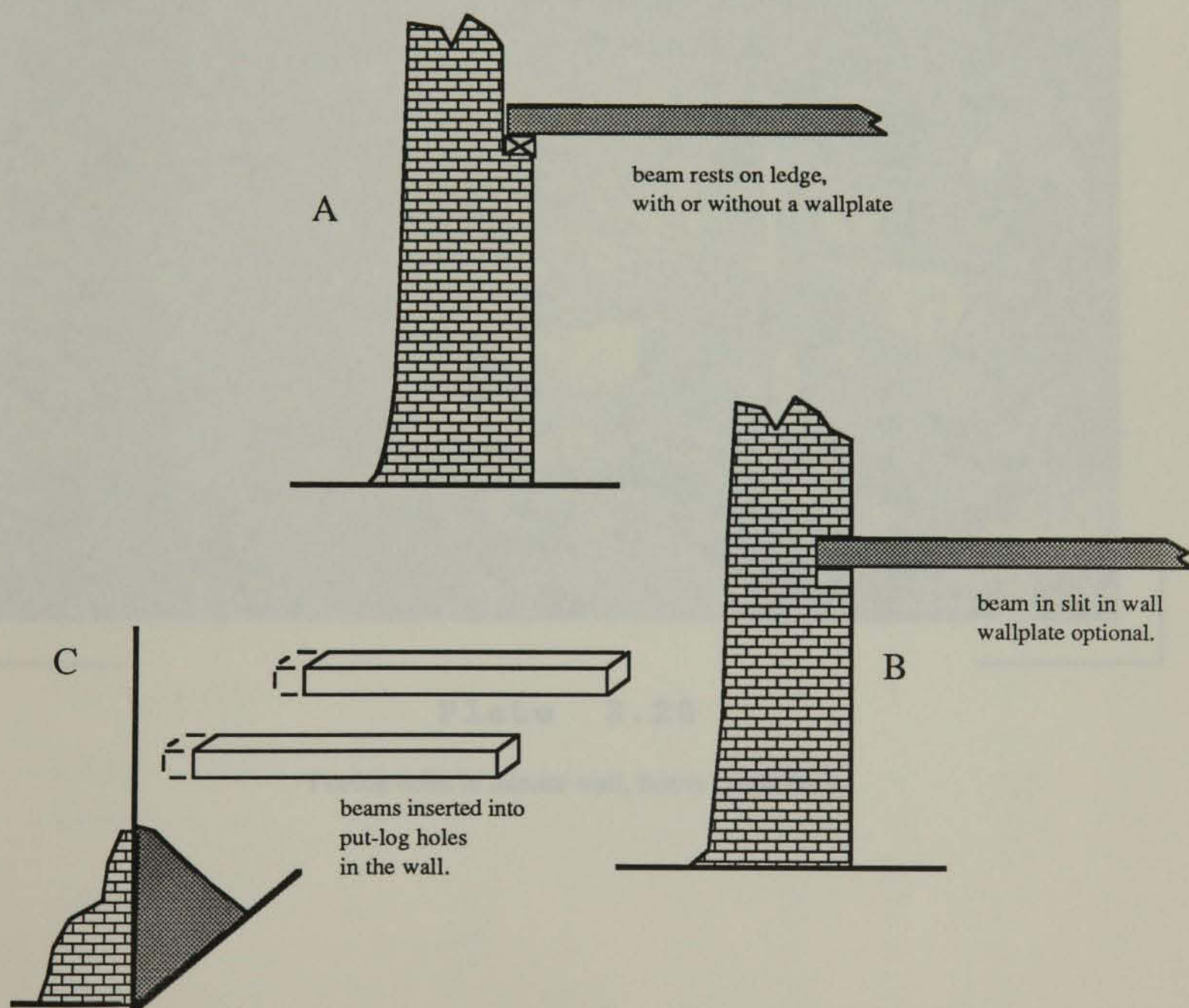




Plate 3.20

Put-log holes in interior wall, Borris Castle (#5).

Table 3.21

Floor Categories / types of Support

#	Name	L.	Ledge.	Putl.	Slit	Corbl.	Wp.	B.W.C.	Sgl.
31	Adamstown	L3	\	\	\	\	Y	Y	\
		L4	\	\	\	\	Y	Y	\
40	Tellarought	L4	\	\	\	\	Y	\	\
42	Newbawn	L2	\	Y	\	\	\	\	Y
53	Barntown	L4	\	\	\	Y	\	Y	\
		L5	Y	\	\	Y	\	Y	\
54	Artramont	L4	Y	\	\	Y	Y	P	\
56B	Ferrycarig	L4	Y	Y	\	Y	\	Y	\
57B	Selskar	L4	Y	\	\	\	\	\	\
64	Ballykeeroge	L2	\	\	\	\	\	Y	Y
65	Killesk	L2	\	Y	\	P	Y	\	Y
66	Rathumney	L2	\	\	\	Y	P	\	\
69	Taylorstown	L2	\	\	\	Y	\	Y	\
		L4	\	\	\	Y	\	Y	\
71	Slevoy	L2	\	\	\	\	\	\	\
75	Sigginshaggard	L4	\	\	\	\	Y	Y	Y
78G	Kilmannin	L4	\	Y	\	\	\	\	Y
81	Newcastle	L4	\	\	\	\	Y	Y	\
		L2	Y	\	\	\	\	\	\
88	Killiane	L2	\	\	\	Y	\	\	\
		L4	\	\	\	Y	\	\	\
		L5	\	\	\	Y	Y	\	0∂
89	Rathmacknee	L4	Y	\	\	Y	\	Y	\
		L5	Y	\	\	Y	\	Y	\
91	Kilhile	L5	\	\	\	Y	Y	Y	Y
92	Ballyhack	L4	\	\	\	Y	Y	Y	Y
		L2	\	Y	\	Y	Y	Y	Y
97	Clonmines I	L4	Y	\	\	Y	\	\	0∂
		L5	Y	\	\	Y	\	\	0∂
101	Danes	L4	\	\	\	\	\	Y	\
		L5	\	\	\	\	\	Y	\
104	Kilcavan	L2	\	\	\	Y	Y	Y	Y
		L3	\	\	\	Y	Y	Y	Y

#	Name	L.	Ledge.	Putl.	Slit	Corbl.	Wp.	B.W.C.	Sgl.
107	Scar	L4	\	Y	\	Y	Y	\	0∂
110	Baldwinstown	L4	\	\	\	\	\	Y	\
112	Mulrankin	L4	\	\	\	\	\	Y	\
117	Butlerstown	L4	\	\	\	Y	\	Y	\
122	Ballyconnor	L2	\	\	\	Y	Y	Y	\
124	Kilclogan	L3	\	\	\	Y	Y	Y	\
126	Fethard	L3	\	\	\	Y	\	\	\
128	Ballyteighue	L2	\	\	\	\	\	Y	\
		L4	\	\	\	\	\	Y	\
		L5	\	\	\	\	\	Y	\
133	Rathshillane	L3	\	\	\	Y	Y	Y	\
134	Ladys Island	L4	\	\	\	Y	Y	Y	\
136	Clougheast	L4	Y	\	\	Y	Y	Y	\
		L5	\	\	\	\	\	Y	\
138	Slade	L4	\	\	\	Y	Y	Y	\

\ indicates that no evidence was found of the floor belonging to this category.

P indicates that the floor possibly belonged to the category

Y indicates that the floor belonged in the category / type indicated above.

∂ indicated that the floor displayed evidence of being a "double floor".

L = level for which this is the floor

Ledge = beams rest on ledge support

Putl. = beams are inset into put-log holes or sockets in the wall

Slit = beams are inset into a wall slit

Corbl. = corbel supports are found

Wp. = a wallplate was used for support

B.W.C. = this is a "Beam Wallplate Construction" category floor

Sgl. = this is a "single" floor.

B. W. C.
(beam wallplate construction)

Fig. 3.22

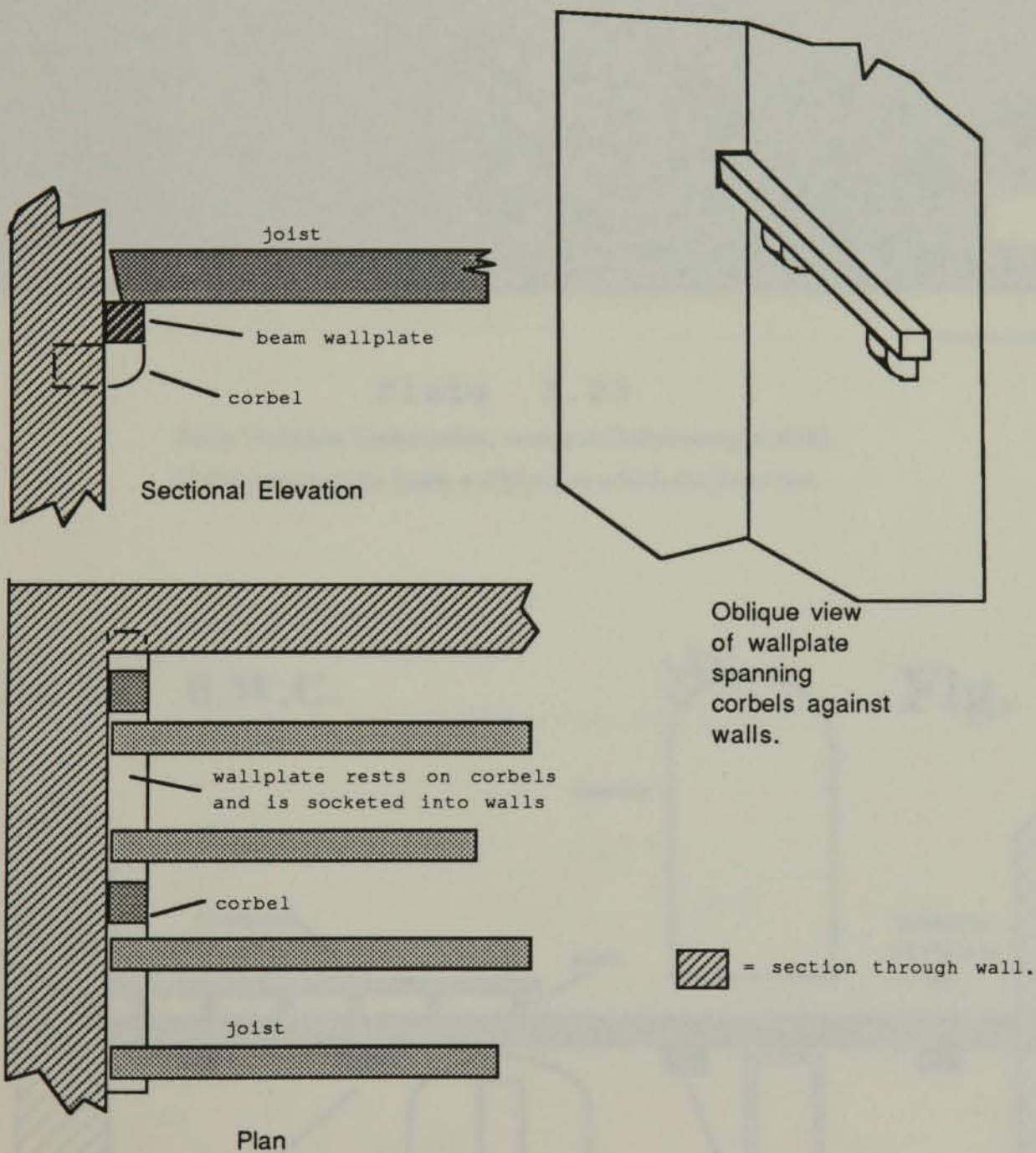


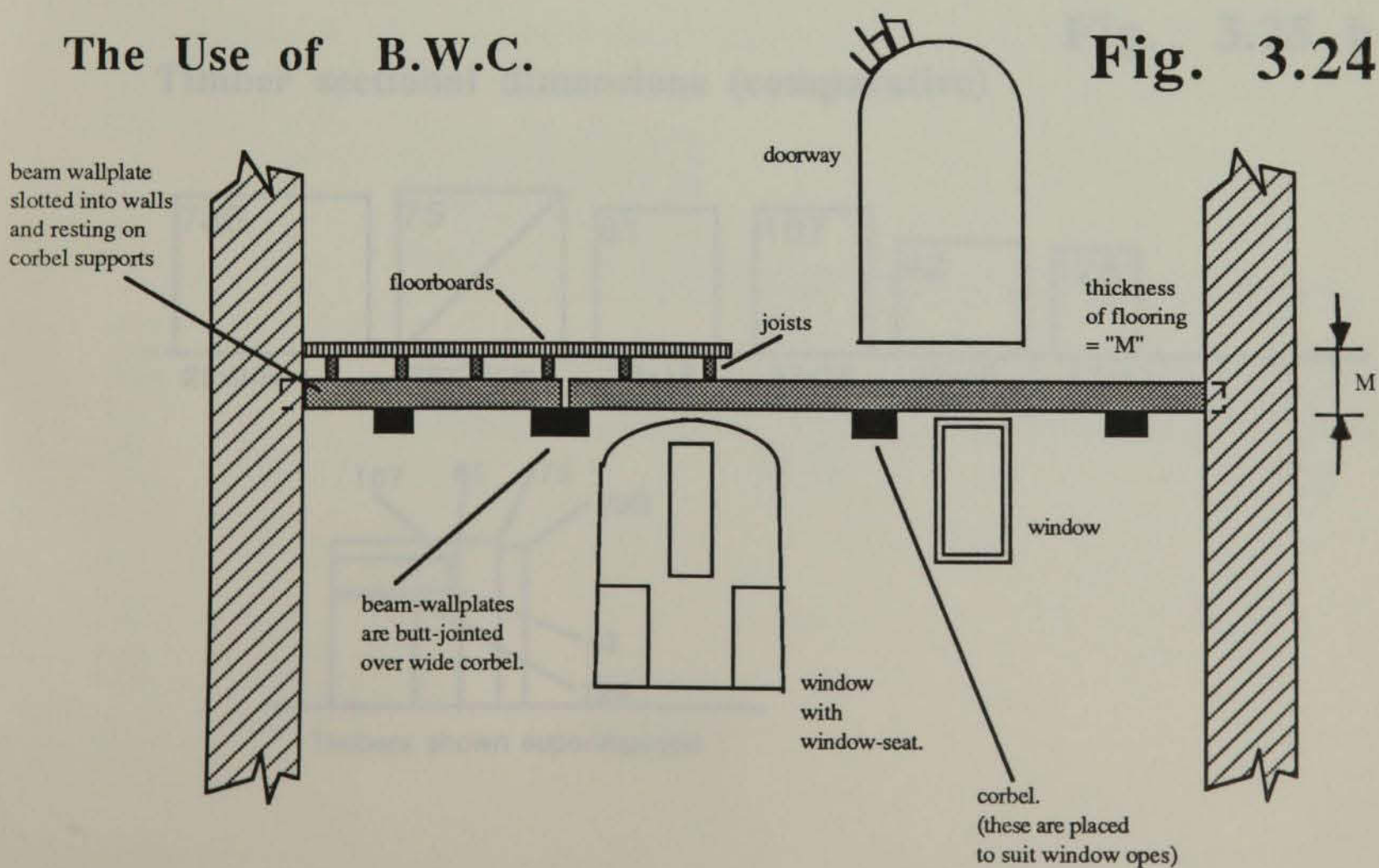


Plate 3.23

Beam Wallplate Construction, as seen at Ballykeerogue (#64).
Corbel supports the beam wallplate on which the joists rest.

The Use of B.W.C.

Fig. 3.24



Floor Thicknesses

Fig. 3.25 a

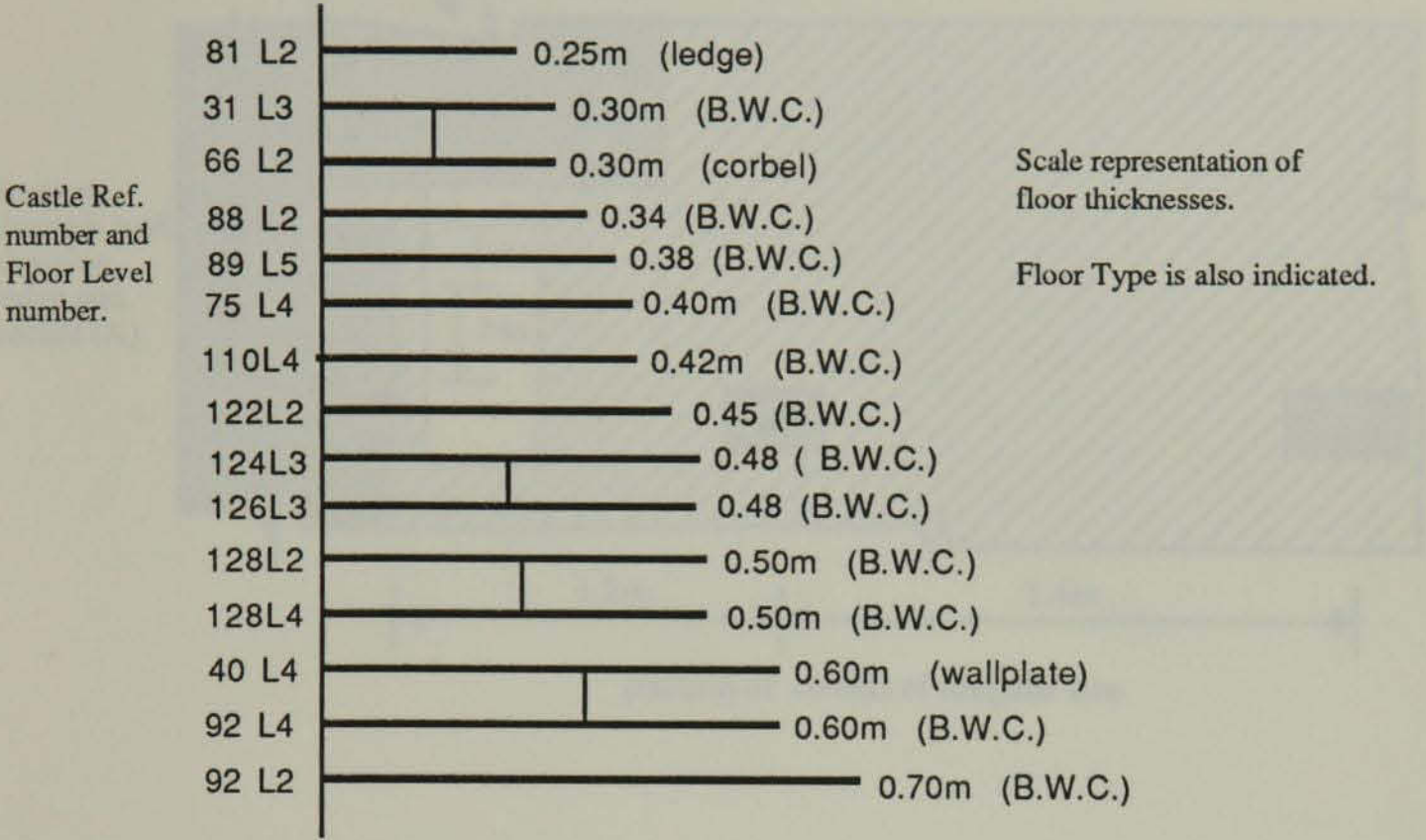
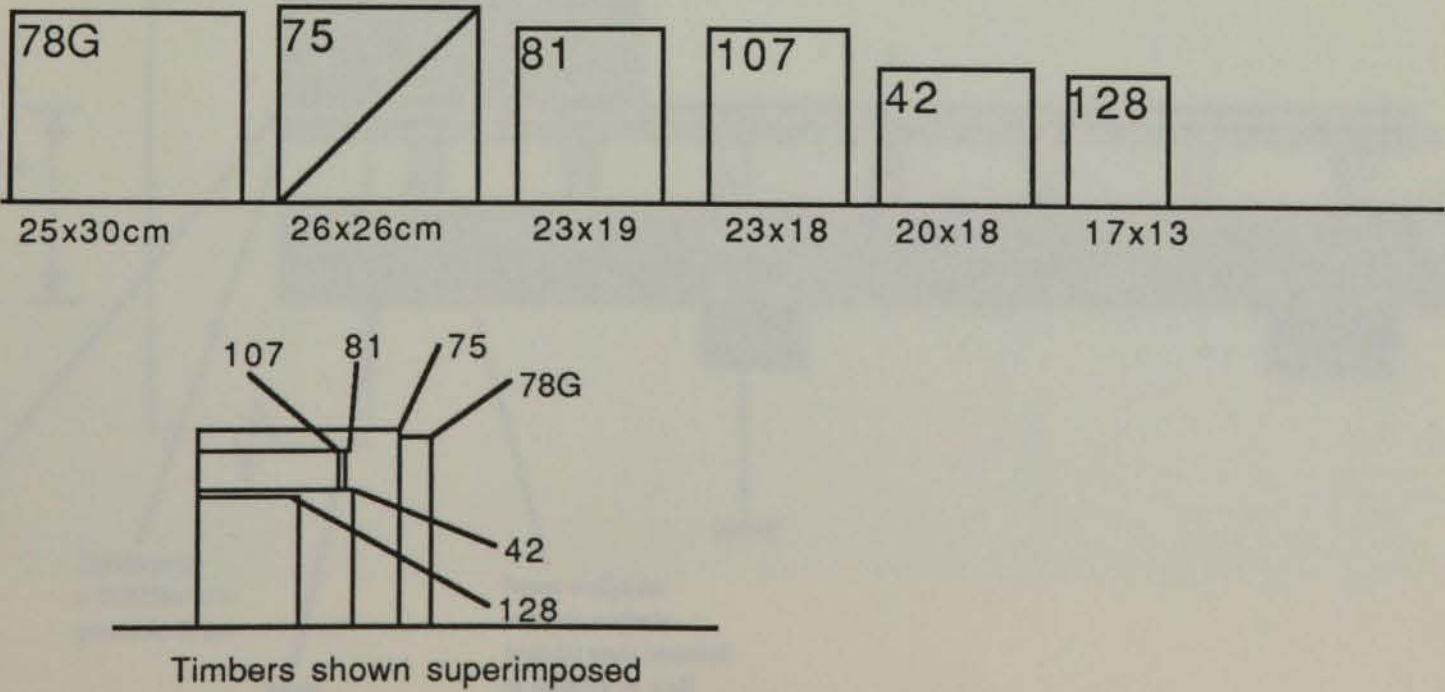


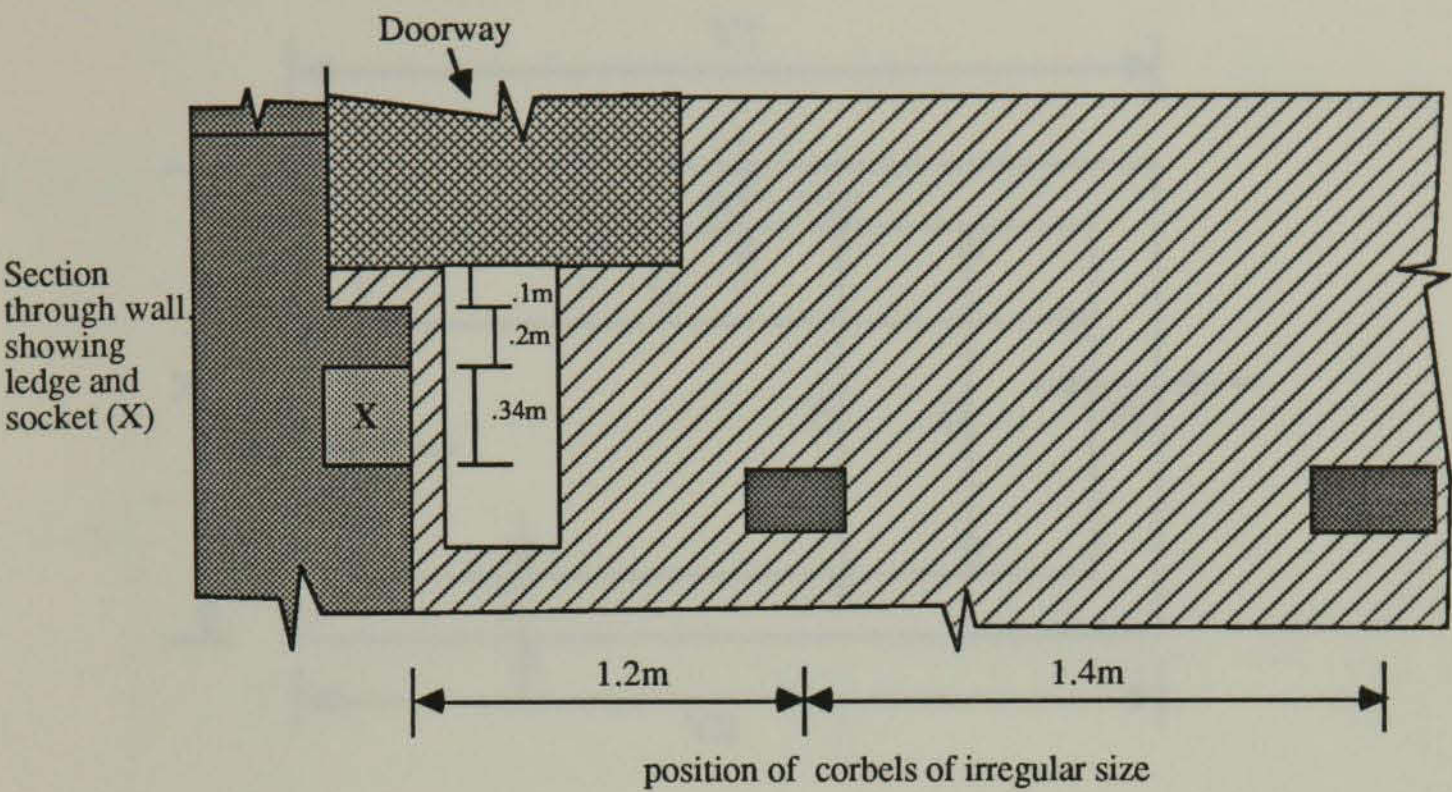
Fig. 3.25 b

Timber sectional dimensions (comparative)



Ballyhack floor evidence.
(drawings not to scale)

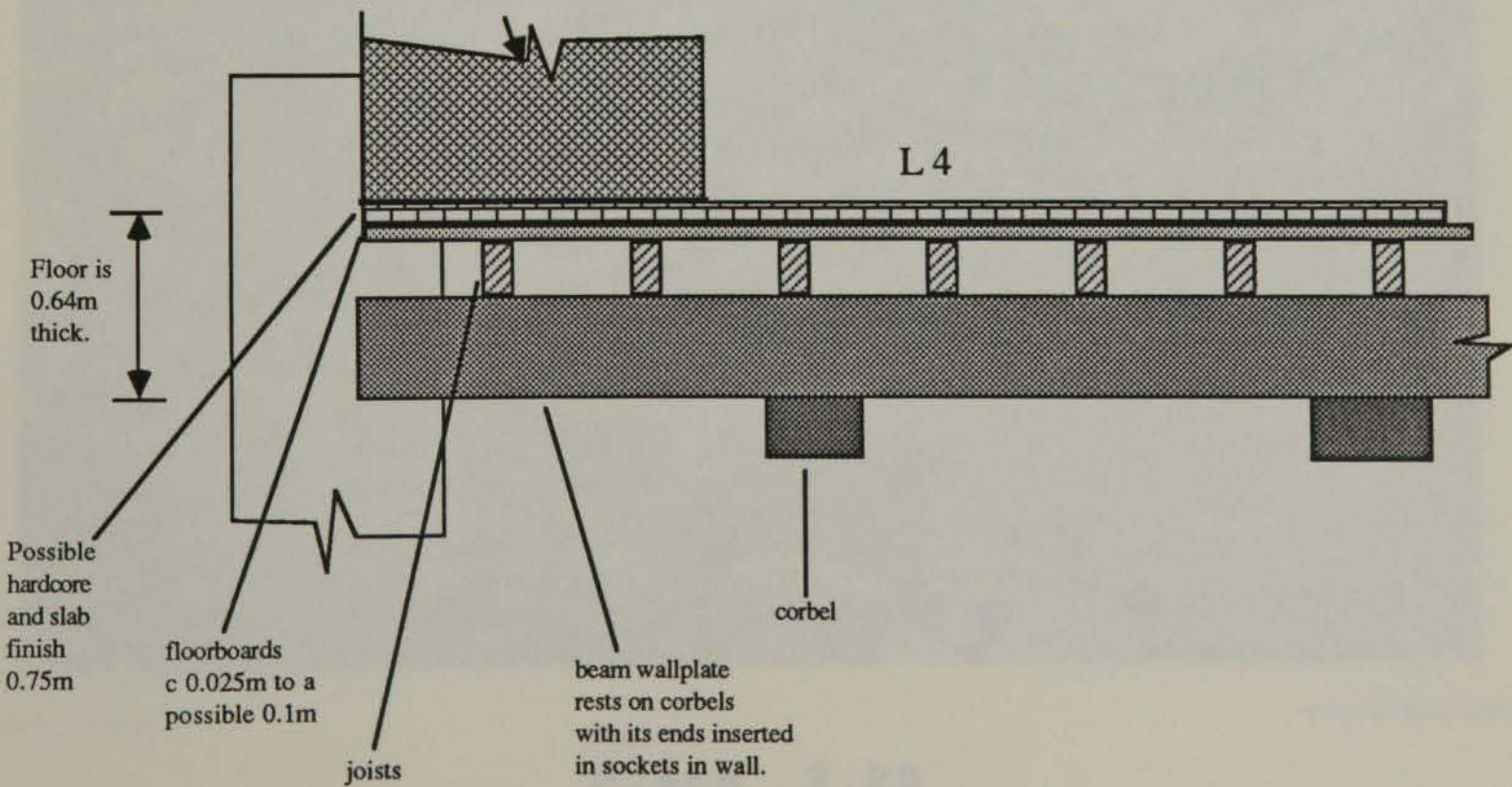
Fig. 3.26 a



SECTIONAL ELEVATIONS

Fig.3.26b

Ballyhack Conjectural reconstruction of L4 floor. (shown in section)



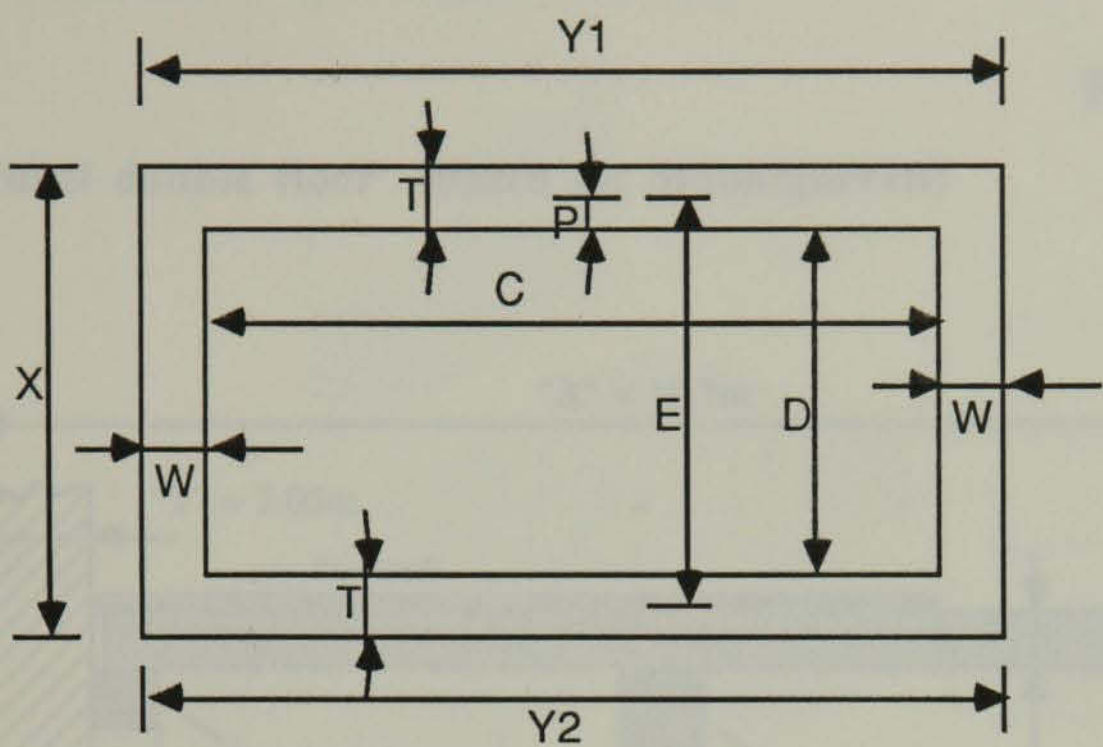
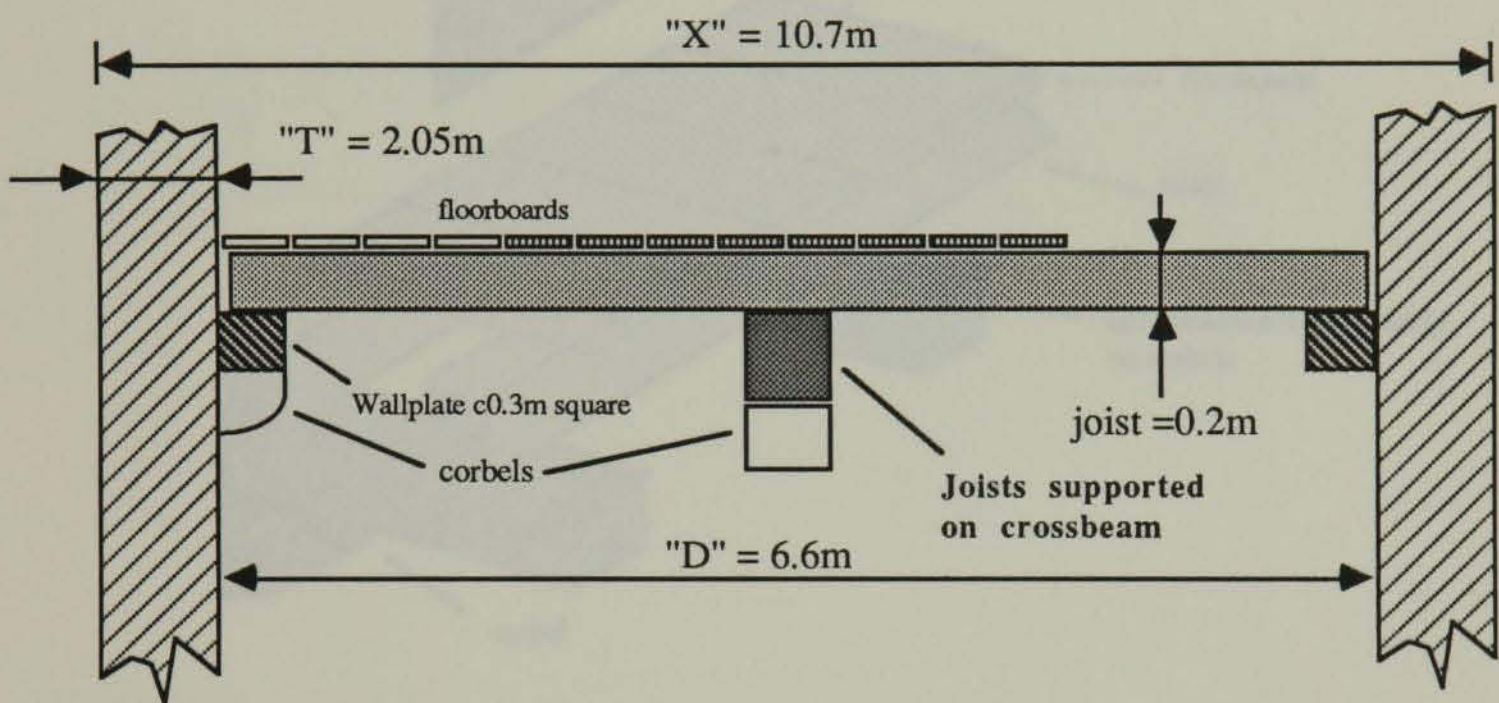


Plate 3.28

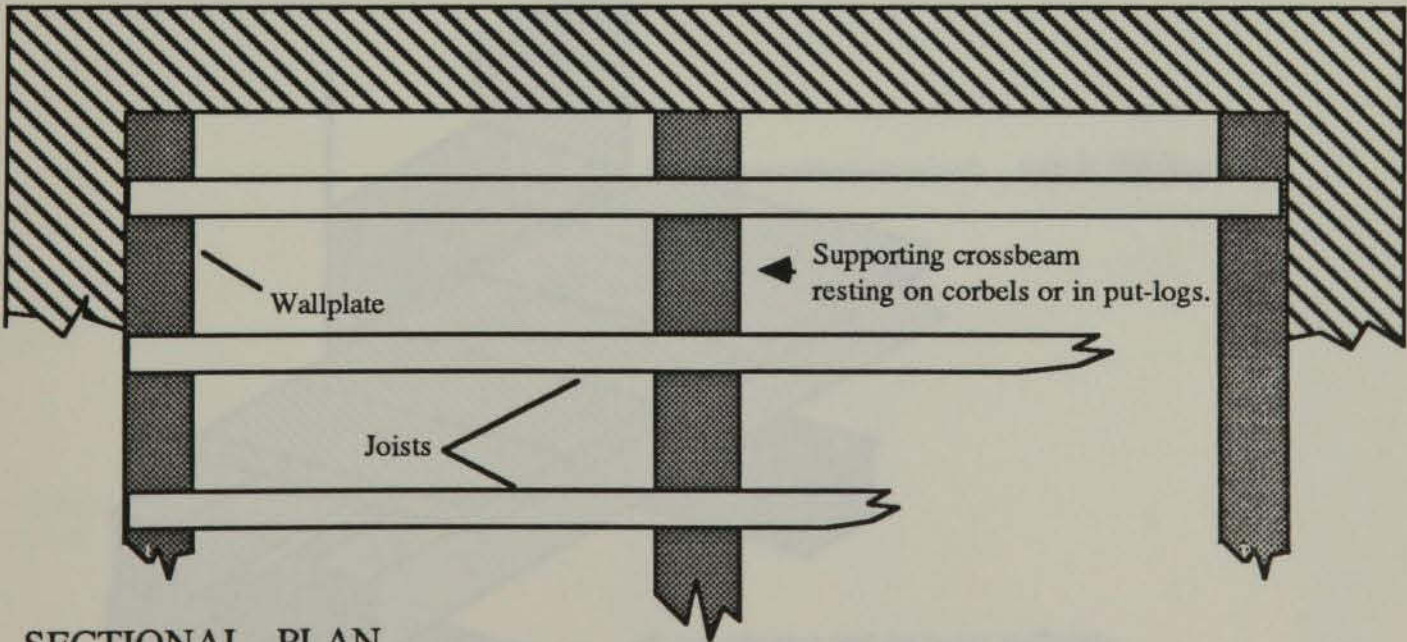
Put-log holes above corbel - indicative of a Double Floor at Clonmines (#97).

Fig. 3.29

Conjectural double floor (based on Mountgarrett)



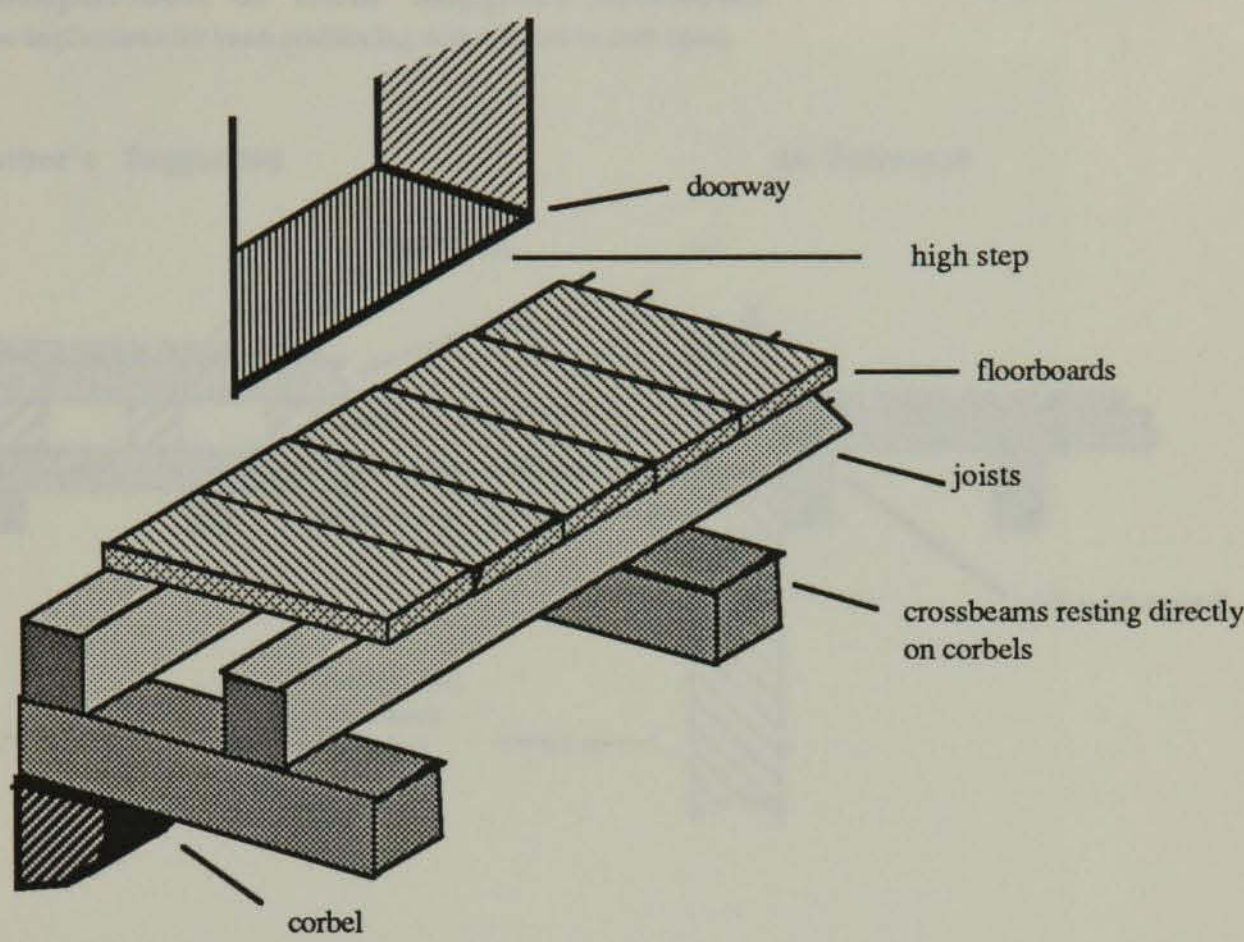
SECTIONAL ELEVATION (not shown to scale)



SECTIONAL PLAN

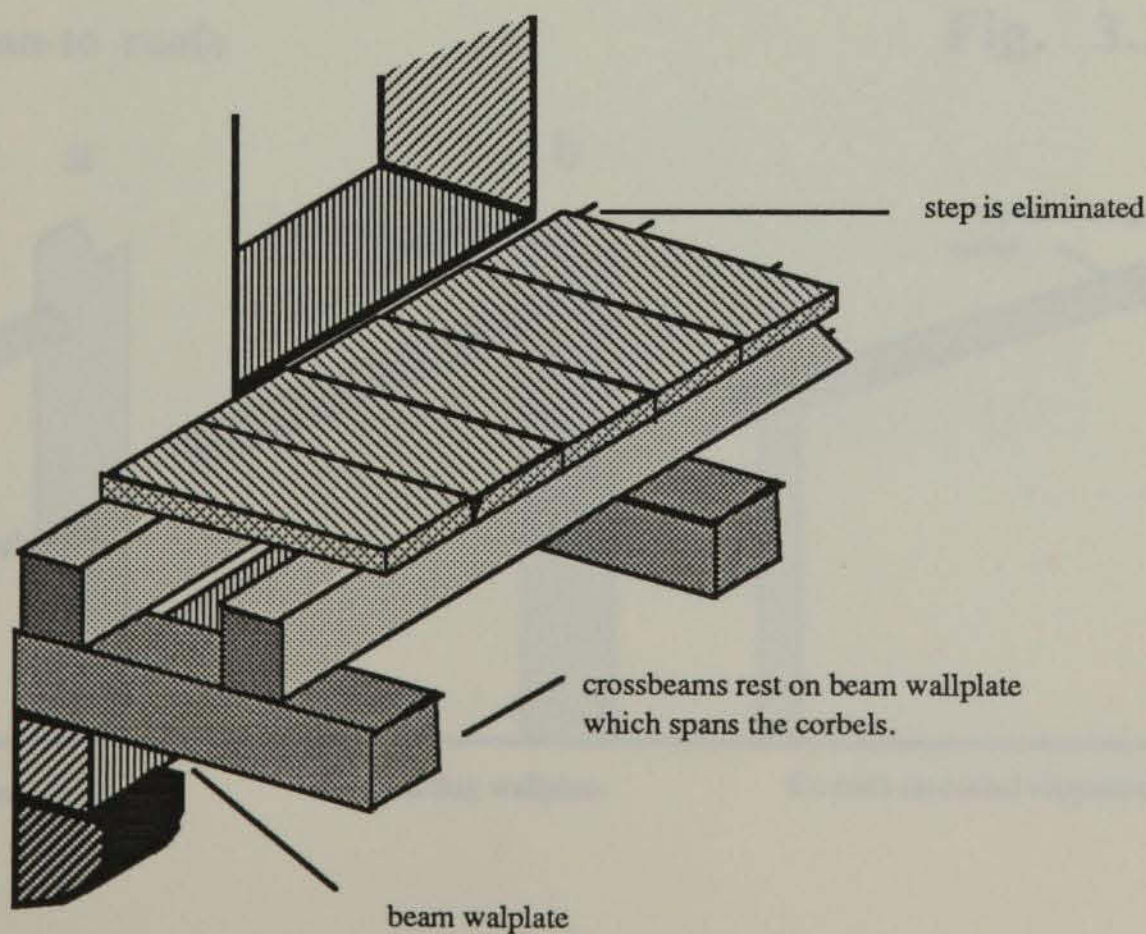
Double floor
(Rockfleet) (in Duggan 1982.64)

Fig. 3.30a



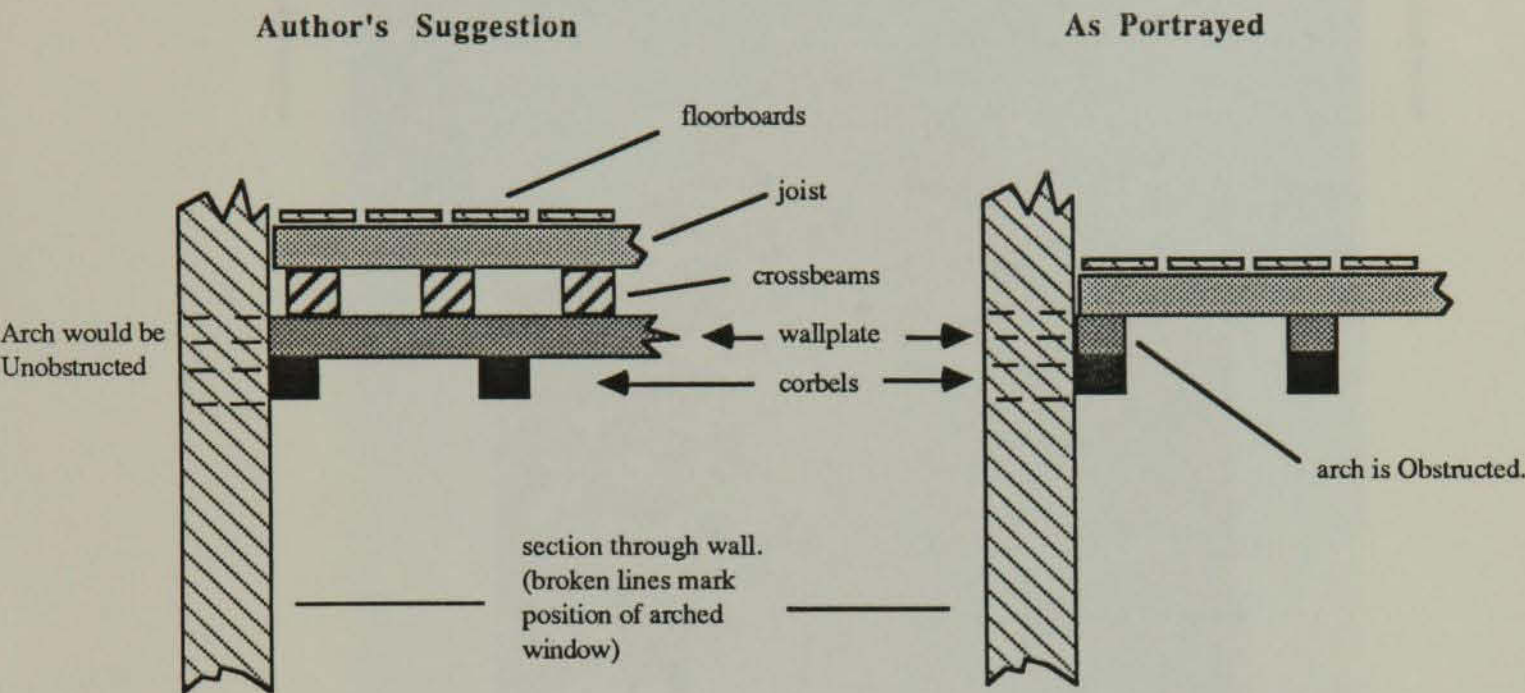
Suggested Modification

Fig. 3.30b



Comparison of floor support methods.
 (the implications for beam positioning with window or arch opes)

Fig. 3.31



Varieties of Lean-to roofs

Fig. 3.32

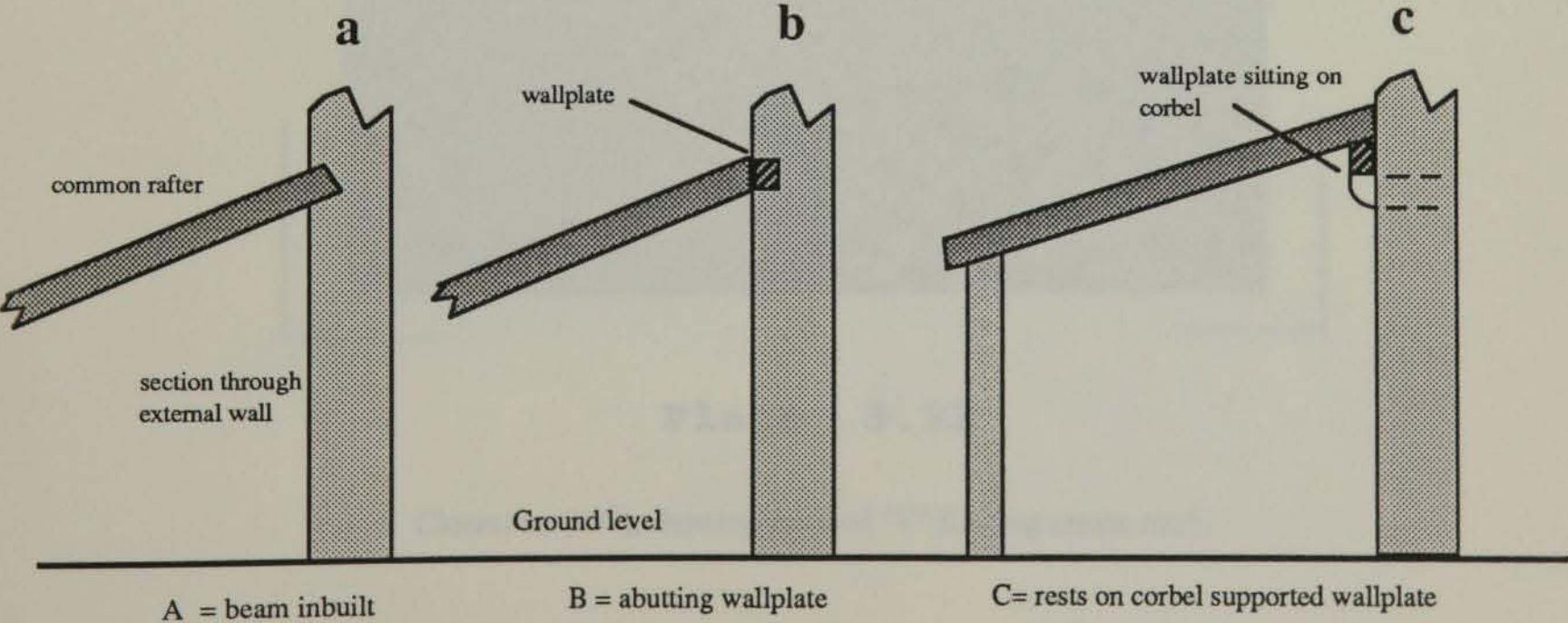


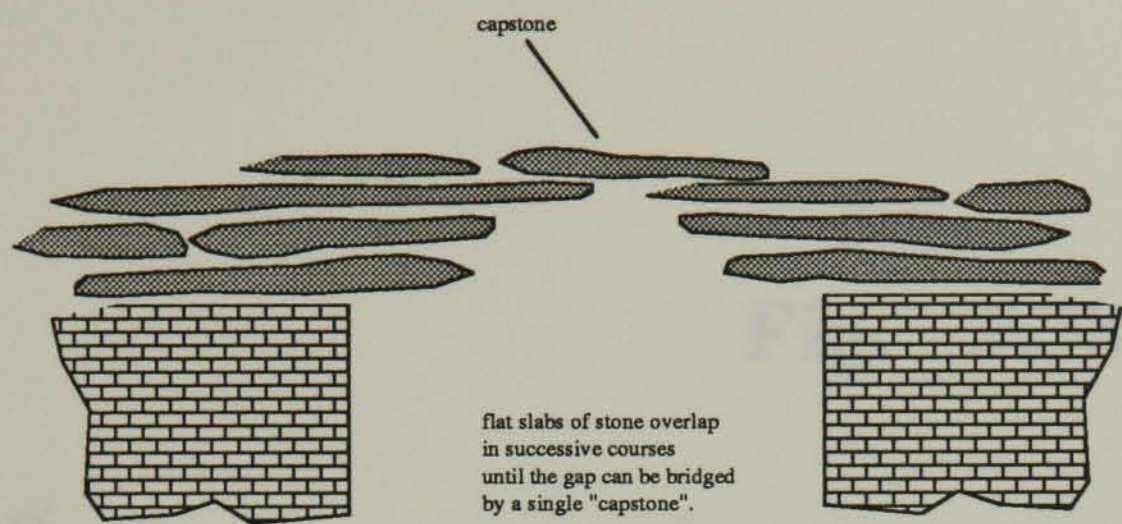


Plate 3.33

Clonmines (#97), showing inverted "V" flashing crease mark.

Corbelling

Fig. 3.36



Roof types (trusses)

Fig. 3.37

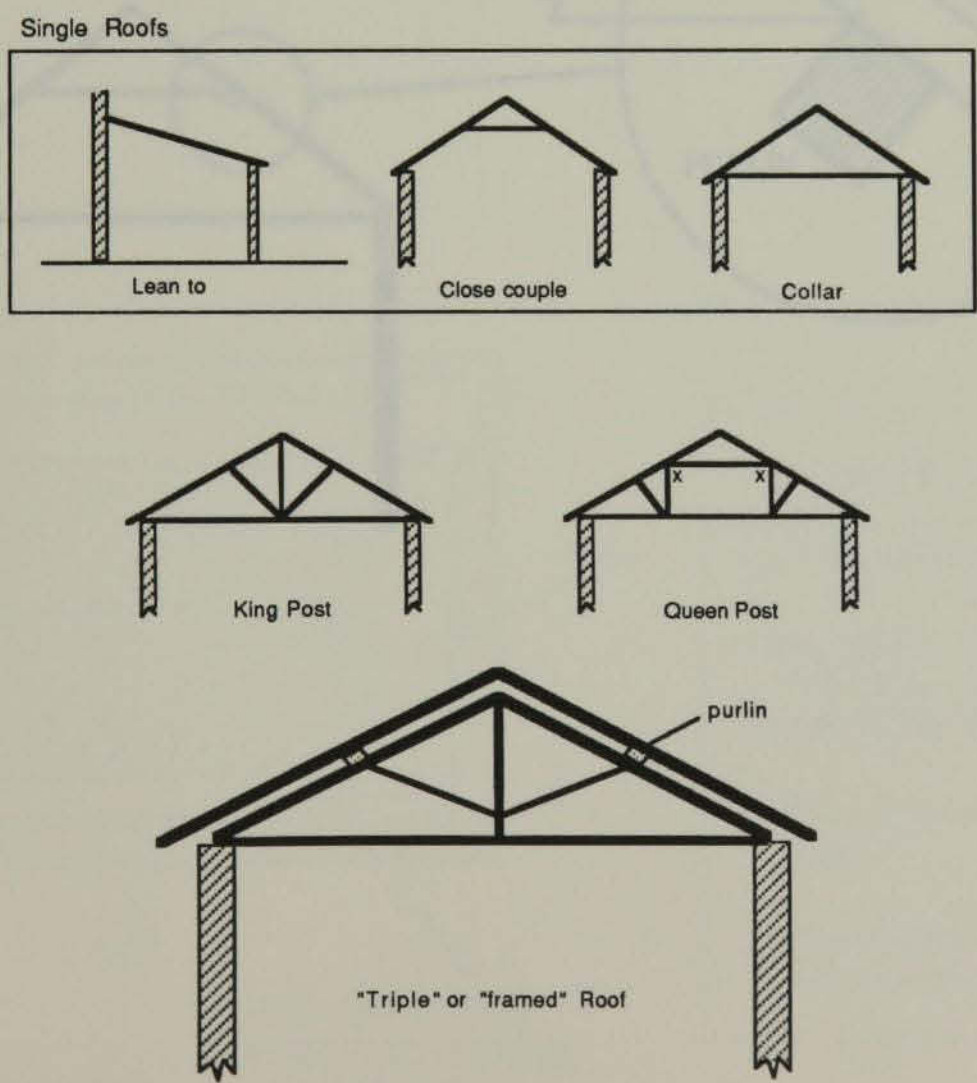
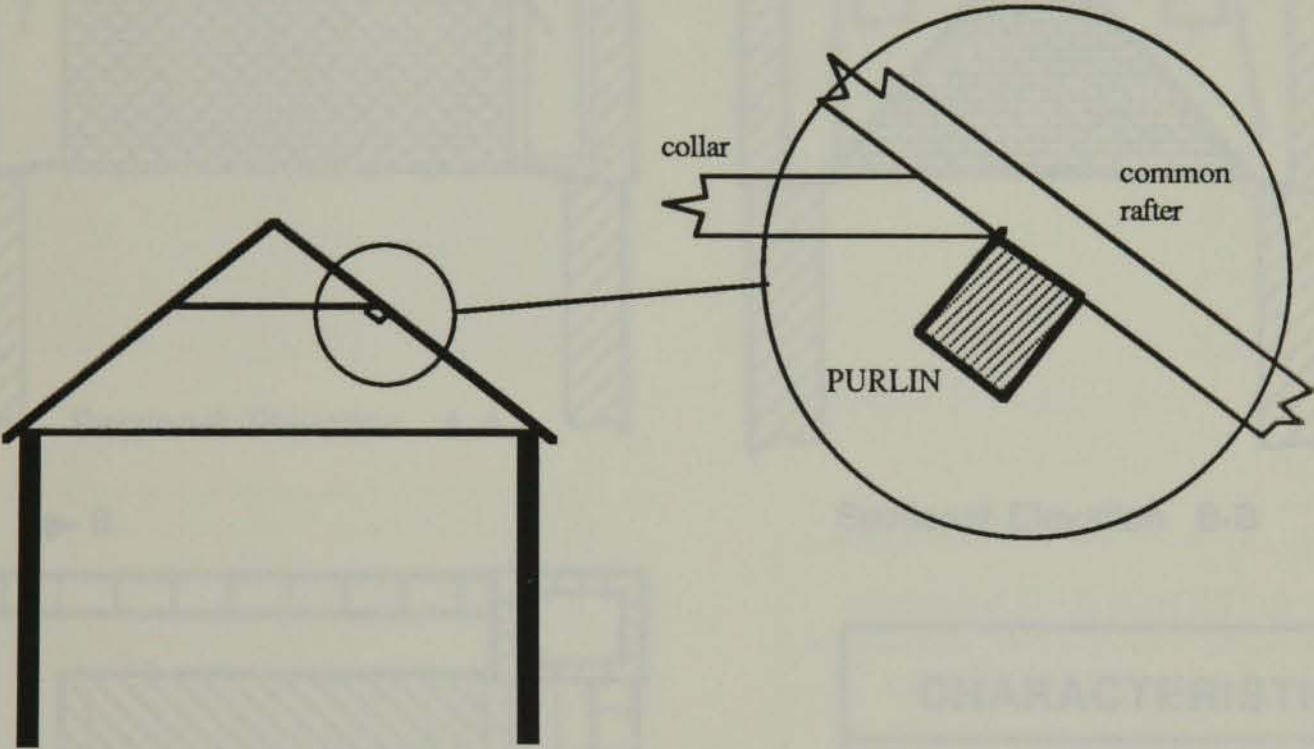


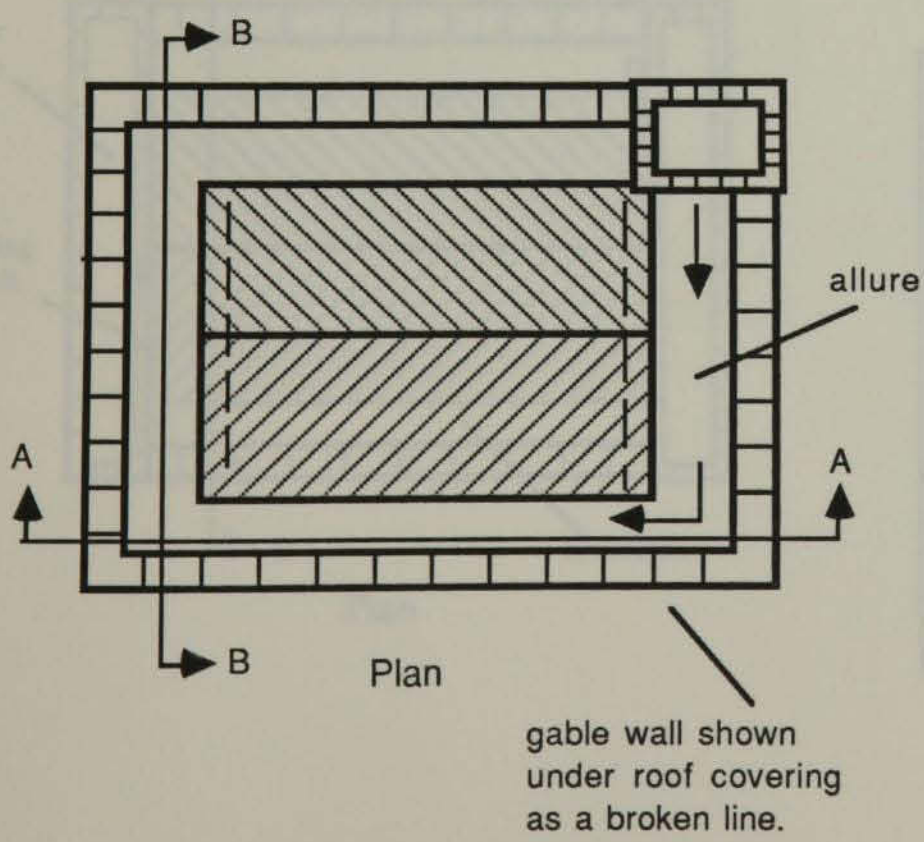
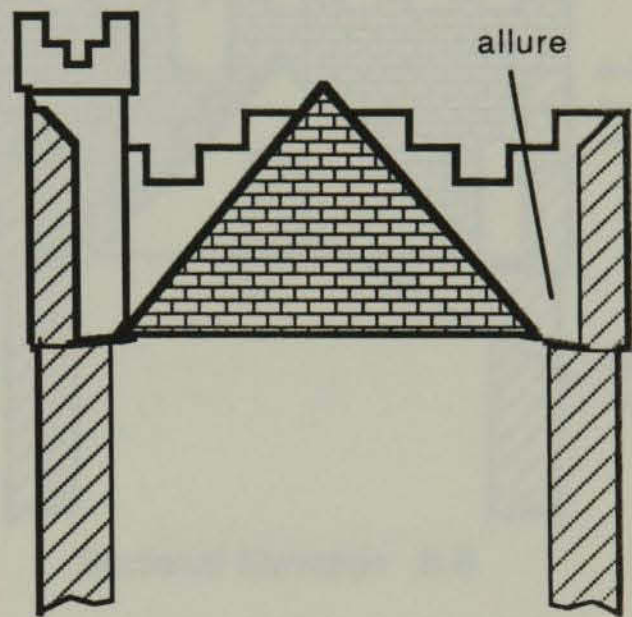
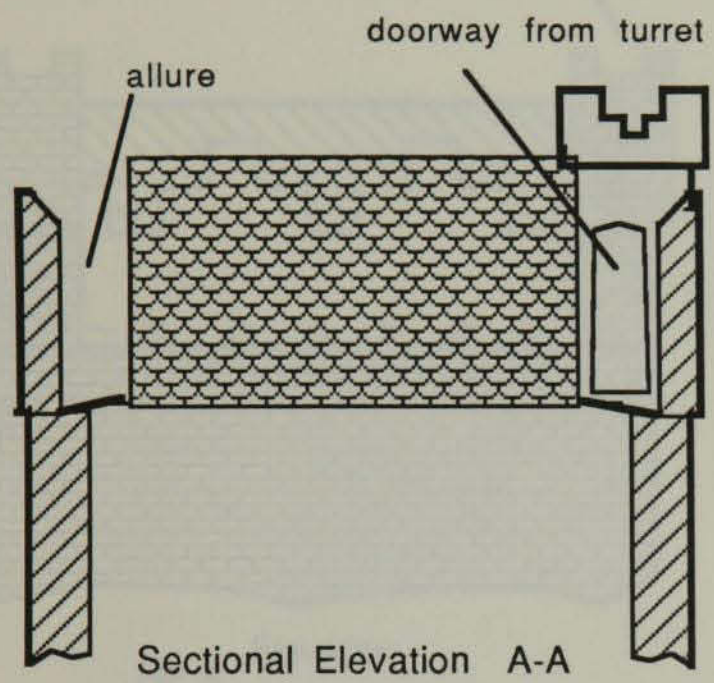
Fig. 3.38

Purlin



TYPE I

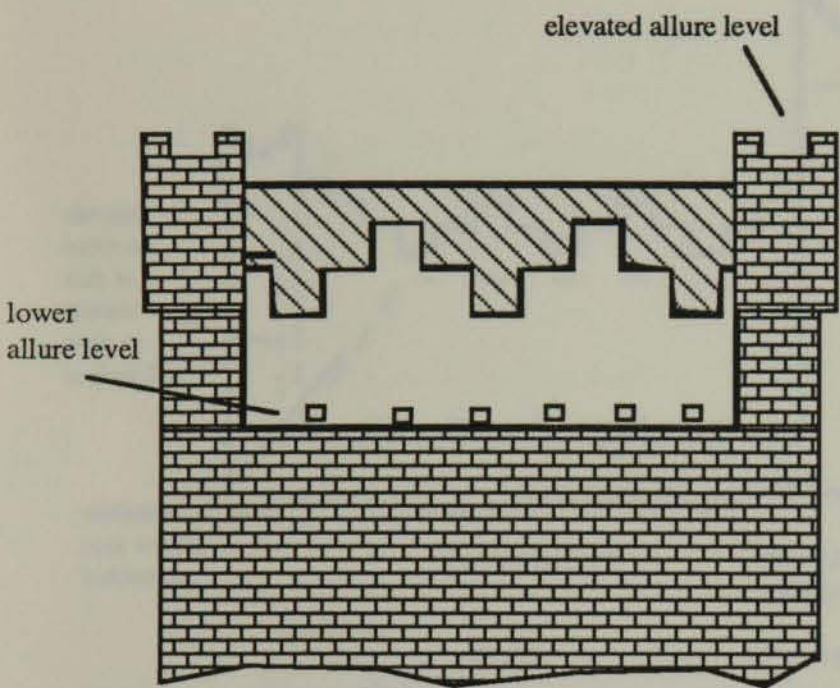
Fig. 3.39 I.



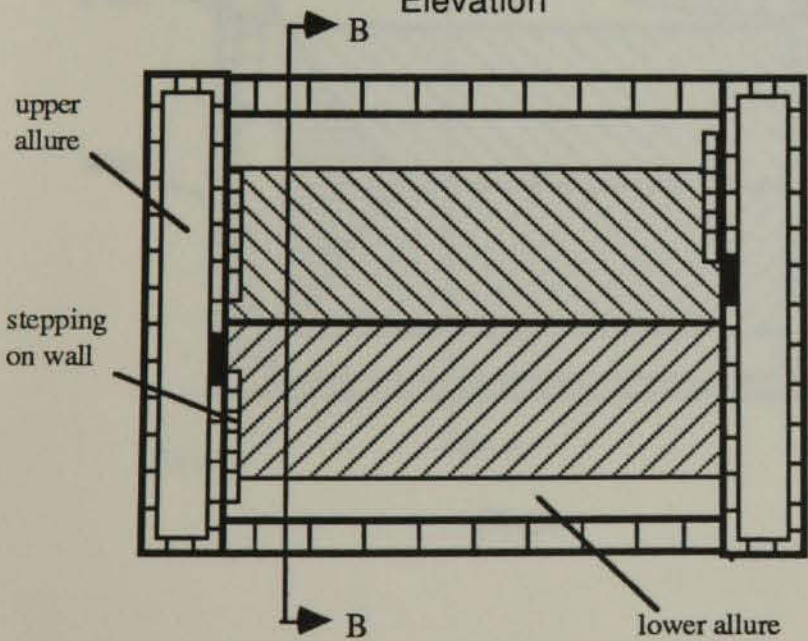
CHARACTERISTICS
- It is a gable roof.
- two gable walls are found within the parapet wall, which runs on all four sides.
- There is an allure on all four sides.
- One or more turrets gives access to the allure.

TYPE II

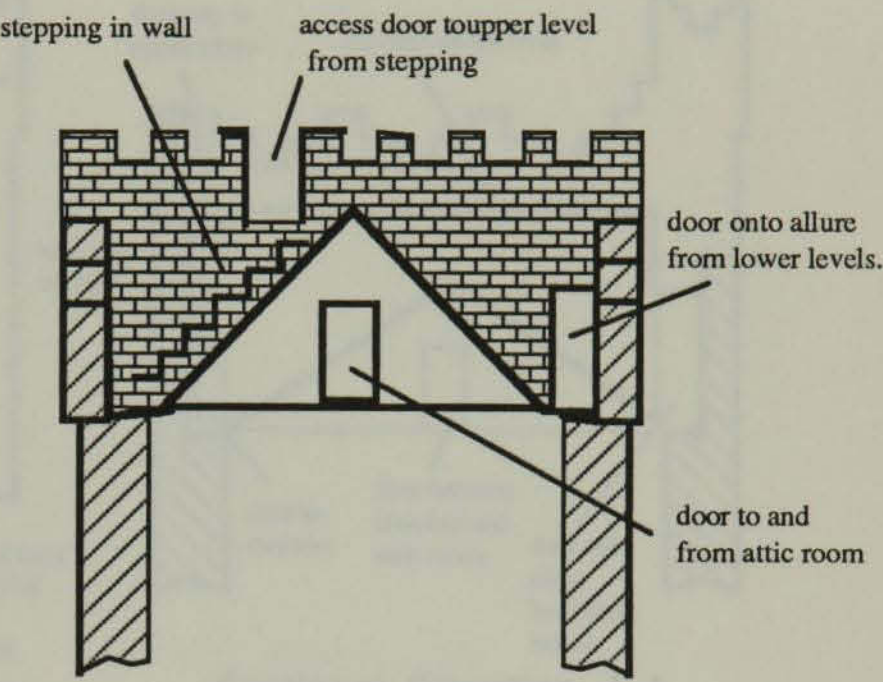
Fig. 3.39 II.



Elevation



Plan



Sectional Elevation B-B

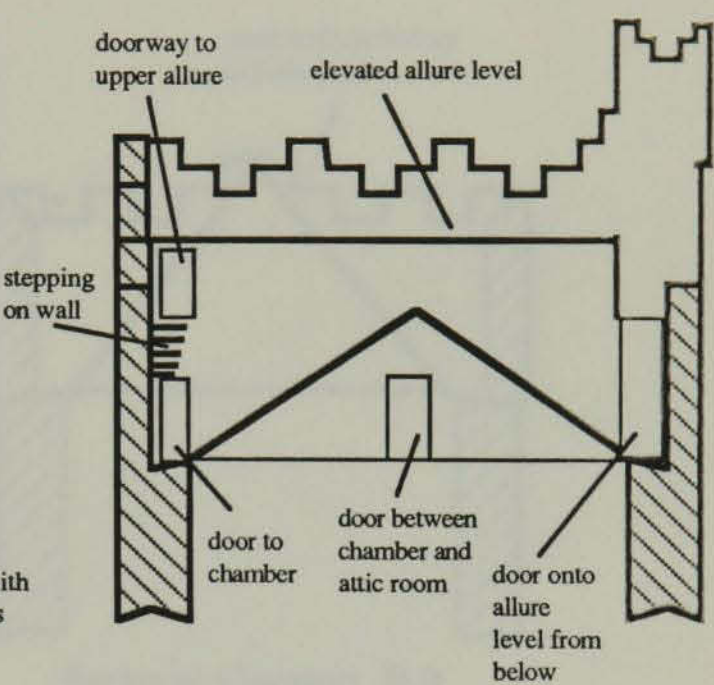
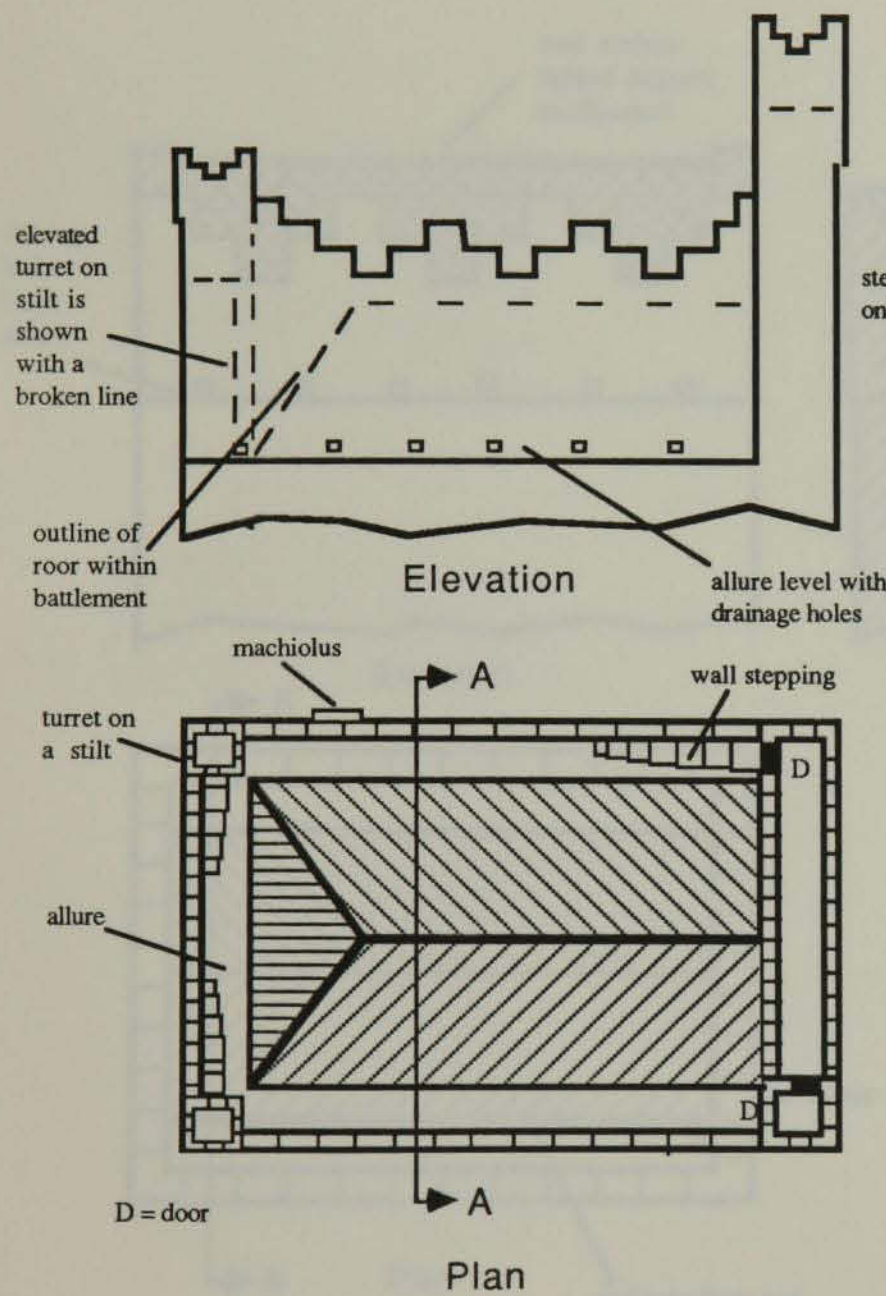
CHARACTERISTICS

- a gabled roof
- there are allures on all four walls (two of which are elevated).
- the elevated allures are part of the gabled end.
- access from one allure level to the other is by stepping on the walls.

TYPE III

(based on Ballyteighue)

Fig. 3.39 III

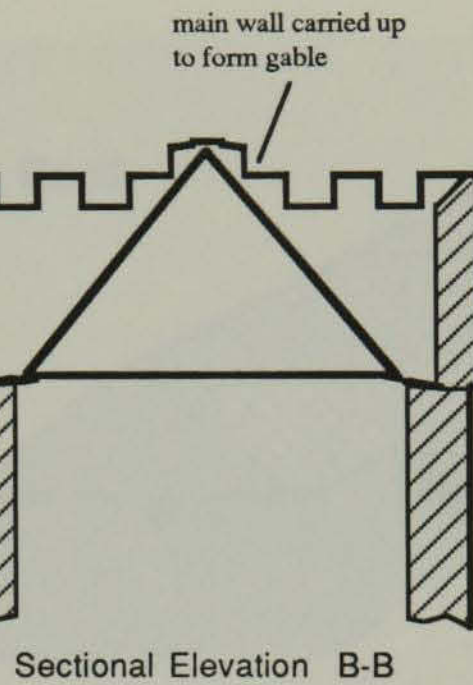
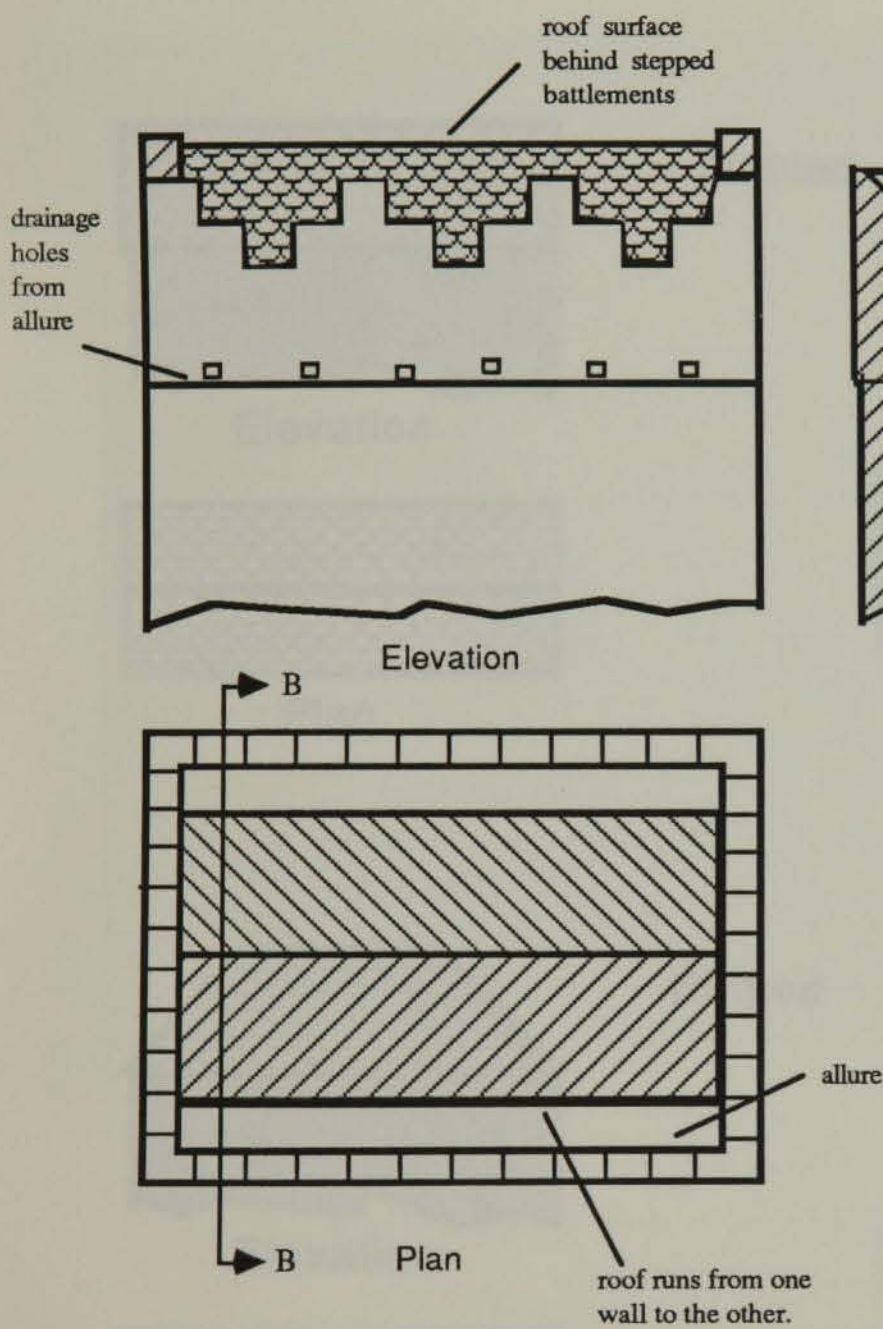


Sectional Elevation A-A

CHARACTERISTICS
- it is gabled on ons side and hipped on the other.
- the allure runs on three sides
- evevated battlements may exist on one side - the gabled end.
- stilted turrets may be provided at some corners
- in the absence of the elevated level the allure would run on all four sides.

TYPE IV

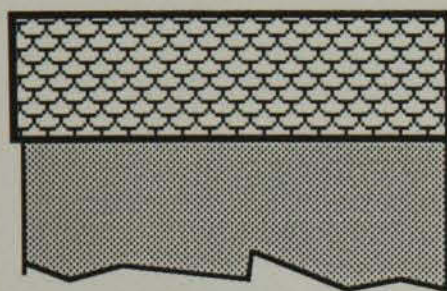
Fig.3.39 IV



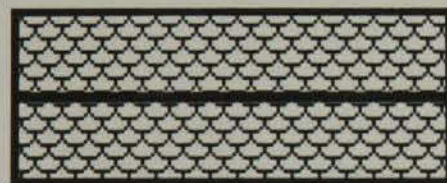
CHARACTERISTICS

- it is a gabled roof
- its two gable walls are formed by carrying the end \ parapet walls up.
- it has an allure on two sides only

Fig. 3.40

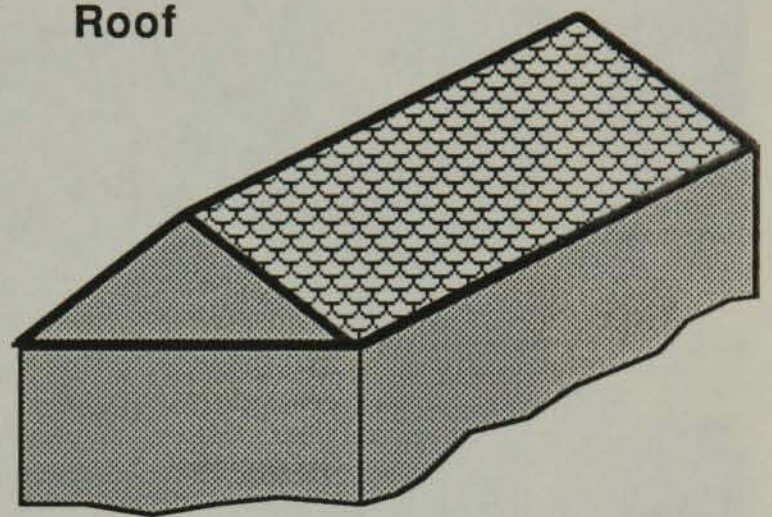


Elevation

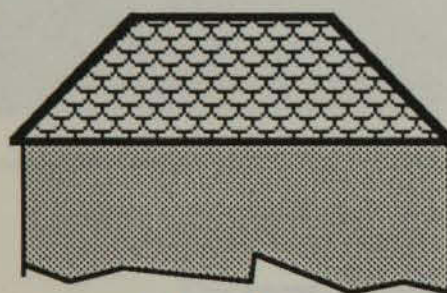


Plan

Gabled Roof



Oblique view

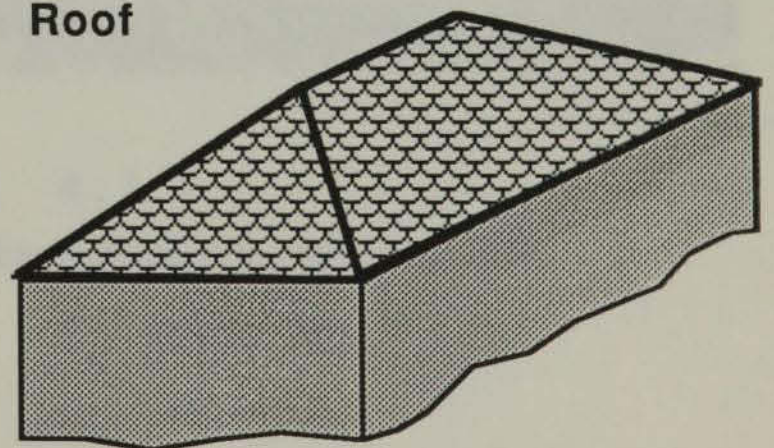


Elevation



Plan

Hipped Roof



Oblique view

Table 4.2

Wall Statistics

1	2	3	4	5	6	7	8	9
1	Site	Address	Owner	Age	Species	Height	Diameter	Notes



Plate 4.1

Thickness of Springer Wall shown with 2m ranging pole at Brownswood (#20).

Table 4.2

Wall Statistics

1	2	3	4	5	6	7	8	9
#	NAME	Size (Met)	Size (Imp)	Area	#Storeys Sv.	Wall T.1	Wall T.2	Prpt W.
1	Limbrick	-	-	-	1	(0.66)	-	-
5	Borris	6.85	-	-	1	1.50	1.30	-
15	Annesley	(4.5)	-	-	1	-	(0.75)	-
20	Brownswood	11.6 x 6.4	38'0"x21'0"	74.24	2.5	2.20	-	-
25	Mountgarret	14.0 x 10.7	46'0"x35'1"	149.8	5+	2.05	1.95	-
31	Adamstown	9.10 x 8.70	29'10"x28'6"	79.17	4	1.40	0.95	-
32A	Macmine	9.20 x 7.60	30'8"x25'0"	69.92	4	1.50	-	-
33A	The Deeps	15.55x12.5≈	51'0"x41'0"	175.0	3+	1.75	-	-
35	Strokestown	7.10 x 6.20	23'4"x20'4"	44.02	3+ 4=F	-	0.70	-
40	Tellarought	7.40 x 7.10	24'3"x23'3"	52.54	4+ 5=F	1.25	0.65	-
41	Courthoyle	10.3 x 8.40	33'9"x27'6"	86.52	2	1.75	0.90	-
42	Newbawn	10.5	34'6"	-	1+	1.45	0.75	-
45	Dungear	- x 5.65	18'6"	-	3+	1.40	-	-
53	Barntown	7.80 x 6.70	25'6"x22'0"	52.26	5 5=F	1.35	-	-
54	Artramont	8.70 x 7.60	28'6"x25'0"	66.12	4+	1.50	-	-
56B	Ferrycarrig	7.25 x 6.25	23'8"x20'6"	45.31	4	1.80	1.10	-
57B	Selskar	8.80 x 7.45≈	27'3"x24'6"	63.14	4	1.75	-	-
58/1	Westgate	7.95 x 7.00	26'0"x23'0"	55.65	4+ attic	1.90	-	-
64	Ballykeerogue	6.40 x 5.60	21'0"x18'4"	35.84	3+ 4=F	1.20	-	-
65	Killesk	13.1 x 6.05	43'0"x19'10"	79.26	3	1.10	-	-
66	Rathumney (H)	25.2 x 8.70	82'8"x28'6"	219.2	2	1.20	-	-
69	Taylorstown	7.80 x 7.60	25'8"x25'0"	59.28	3+	1.75	1.50	-
69A	Taghmon	10.1 x 9.55	33'2"x31'4"	96.46	5	-	-	-
70	Tracystown	7.90 x 6.85	25'11"x22'6"	54.12	2	1.30	-	-
71	Slevoy	7.05 x 5.45	23'2"x17'10"	38.42	3+	1.20	-	-
73	Hilltown	7.95 x 4.30 _f	26'0"x14'0"	34.19	4	1.05	-	-
--	Hilltown	12.1 x 7.35 _Σ	39'9"x24'0"	81.00	3	1.05	-	-
75	Sigginshaggard	6.25 x 5.90	20'6"x19'4"	36.88	5	1.25	1.10	-
76A	Harperstown	-	-	-	1+	-	1.10	-
77	Aghnegan	-	-	-	1	-	0.90	-
78G	Kilmannin	5.60 x 5.30	18'4"x17'4"	29.68	4	1.40	1.10	-
81	Newcastle	6.20 x 5.55	20'4"x18'3"	34.41	3+	1.40	-	-
83	Clonard	7.30 x 6.90	24'0"x22'8"	50.37	2	1.35	-	-
87	Rathlannon	8.70 x 7.20	28'6"x23'8"	62.64	4+ btlmt.	1.55	-	-
88	Killiane	11.7 x 8.30	38'5"x27'3"	97.11	5+ attic = F	1.42	-	0.34
89	Rathmacknee	8.65 x 8.35≈	24'10"x28'4"	67.43	5	2.10	2.15*	0.30
91	Kilhile	- x 6.10	20'0"	-	5	1.60	0.60	-
92	Ballyhack	11.15x10.0	36'7"x32'10"	111.5	5+	3.35	2.55	-
95	Dungulph	17.0 x 7.8	55'10"x25'7"	128.0	3 3=F	1.80	1.20	0.40
97	Clonmines I	9.35 x 7.55	30'8"x24'10"	70.59	4+ 5=F	1.30	0.85	-
99	Clonmines III	11.4 x 7.7	35'7"x25'3"	87.78	3 3=F	1.55	1.40	0.58
100	Barrystown	7.80 x 7.10	25'7"x23'4"	55.38	2+	1.55	1.55	-
101	Danes	7.80 x 5.45	25'7"x17'11"	42.51	5 5+F	-	1.90	-
104	Kilcavan	-	-	-	4	1.40	-	-

1	2	3	4	5	6	7	8	9
#	NAME	Size (Met)	Size (Imp)	Area	#Storeys Sv.	Wall T.1	Wall T.2	Prpt W
106	Coolhull	8.60 x 4.40 ^f	28'3"x14'6"	37.84	-	1.05	-	0.33
---	Coolhull	15.25 x 8.6 Σ	50'0"x28'3"	131.2	3 3=F	1.05	-	-
107	Scar	8.70 x 7.30	28'6"x24'0"	63.51	4 4=F	1.90	-	-
108A	Cullenstown	8.60 x 7.20	28'3"x23'8"	61.92	3	-	1.50	-
109	Rathronan	6.90 x 6.70	22'8"x22'0"	46.23	3	1.50	1.20	0.34
110	Baldwinstown	9.50 x 7.30	31'2"x24'0"	69.35	5+ 5+Atc=F	2.55*	1.10	0.40
111A	Ballymagir	10.85 x 7.1	35'8"x23'4"	77.04	2+	-	1.20	-
112	Mulrankin	9.00 x 5.95	29'6"x19'6"	53.55	5	1.30	1.30	-
114A	Ballycogley	10.7 x 7.60	35'0"x25'0"	81.32	5	1.75	1.70	-
115	Bargy	17.4 x 10.1 Σ	57'0"x33'0"	175.7	-	-	-	0.30
117	Butlerstown	8.10 x -	26'7"x -	-	5	2.50*	2.15	0.37
120	Ballytory	8.00 x 6.70	26'3"x22'0"	53.60	2	-	1.00	-
122	Ballyconnor	7.60 x 6.90	25'0"x22'8"	52.44	3	2.15	1.47	-
124	Kilclogan	7.90 x 6.95 $\approx$	22'10"x20'0"	40.68	5 5=F	1.23	-	0.30
126	Fethard	-- $\approx$	--	154.2	-	1.10	-	-
128	Ballyteighue	9.50 x 7.70 [^]	31'2"x25'3"	73.15	6 6=F	1.60	-	0.32
129	Ballyhealy	9.70 x 7.20	31'10"x23'8"	69.84	5	2.50	-	-
130B	Sigginstown	7.50 x 7.00	24'8"x23'0"	52.50	5	2.10*	-	-
133	Rathshillane	13.0 x 7.60	42'8"x19'8"	98.80	3 3=F	1.00	1.00	-
134	Lady's Island	9.20 x 6.90 $\approx$	30'0"x22'8"	81.03	5	2.27	0.96	-
136	Clougheast	10.0 x 8.70	32'10"x28'6"	87.00	5+ dv.cot =F	2.50	-	0.42
137	Castletown	9.65 x 8.45	31'8"x27'9"	81.54	2	2.15	-	-
138	Slade	5.45 x 5.30 ^f	17'11"x17'5"	28.89	5 5=F	1.35	-	0.30

NOTES

- * Width includes a mural staircase within the wall.
- [^] Plan size excludes turret.
- $\approx$ Plan is of irregular shape (possibly with turret) and dimension given is simplified.
- Σ Dimensions given are for the hall (where the castle is of the "Coolhull type").
- Italic* The castle / Tower would not qualify as a £10 castle /Tower.
- ^f This measurement is for the tower part only ("Coolhull type")
- H This is a "Hall" type castle.

Columns

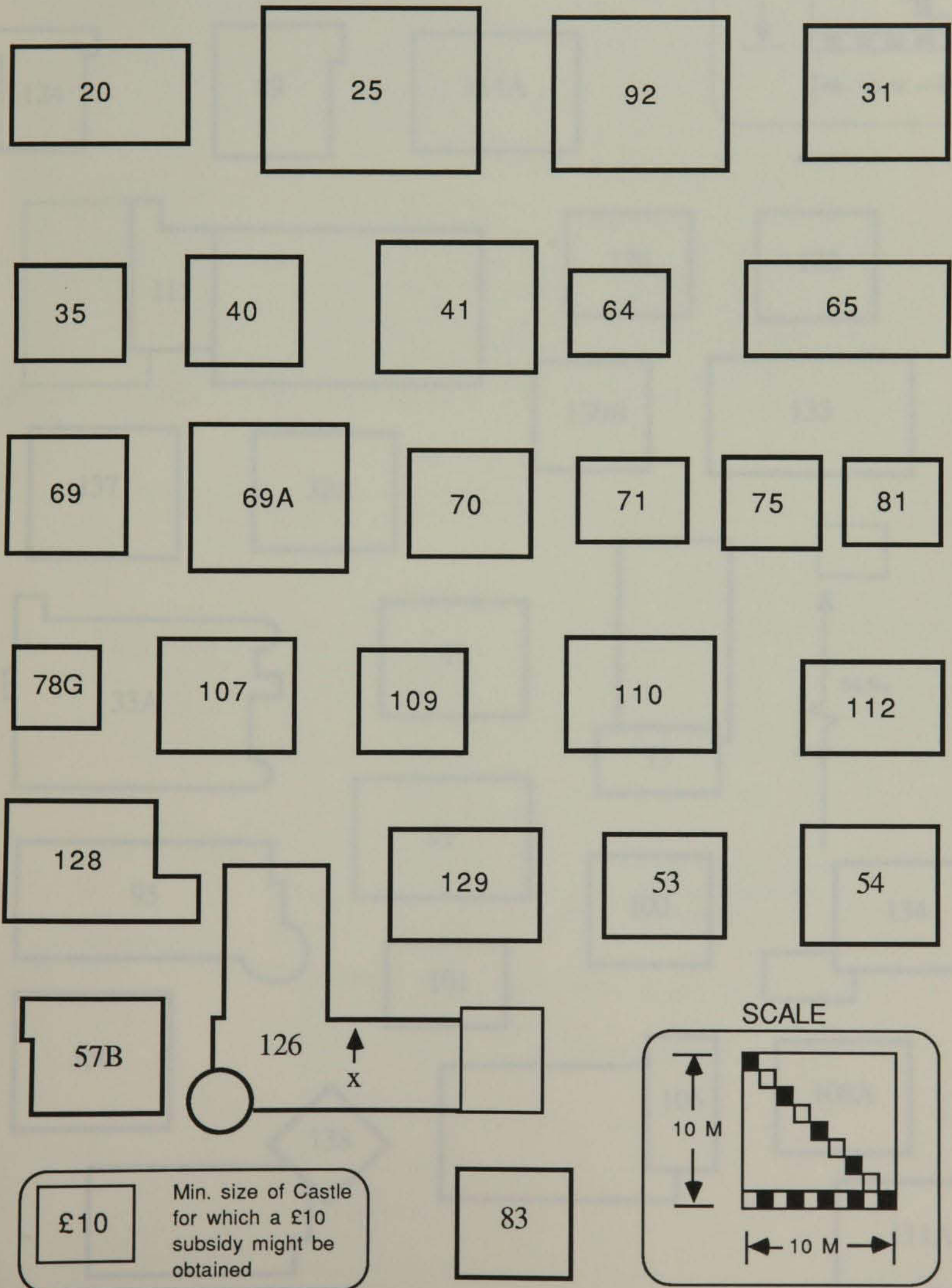
- 1 Castle Ref. No.
- 2 Name of castle
- 3 Wall external lengths
- 4 Wall lengths in IMPERIAL measurement
- 5 Area of castle / tower (in square metres)
- 6 No. of storeys of the structure surviving
("F" indicates the full original height where known.)
- 7 Main wall thickness
- 8 Second wall thickness (where applicable)
- 9 Thickness of parapet wall.

All dimensions are METRIC unless otherwise specified. (Imp. = Imperial measurement)

Fig. 4.3

Scale Plans of Castles

(Numbers represent the castle ref / code No.)



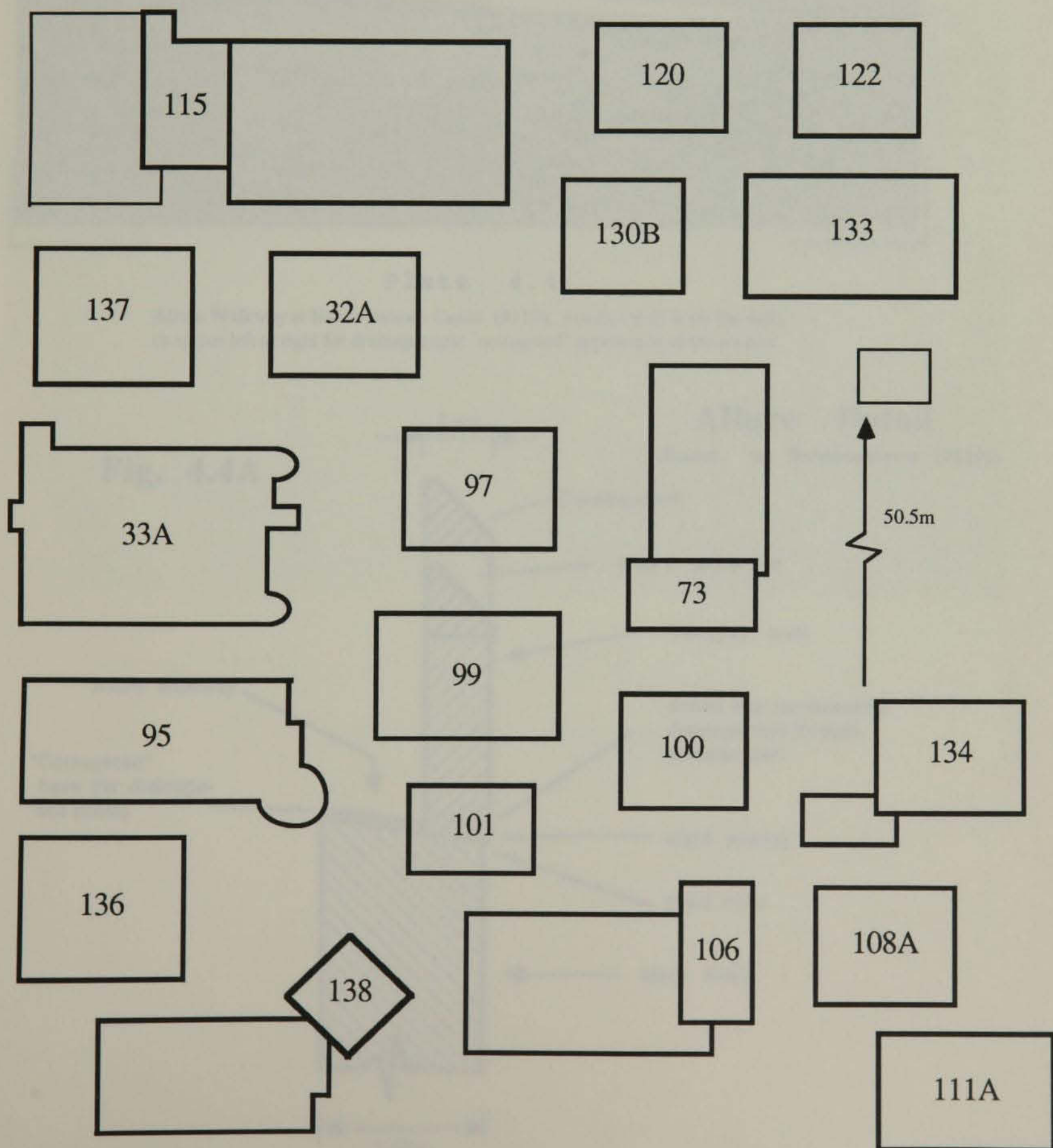
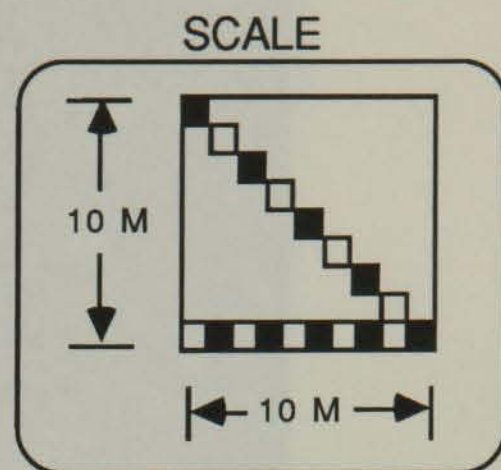
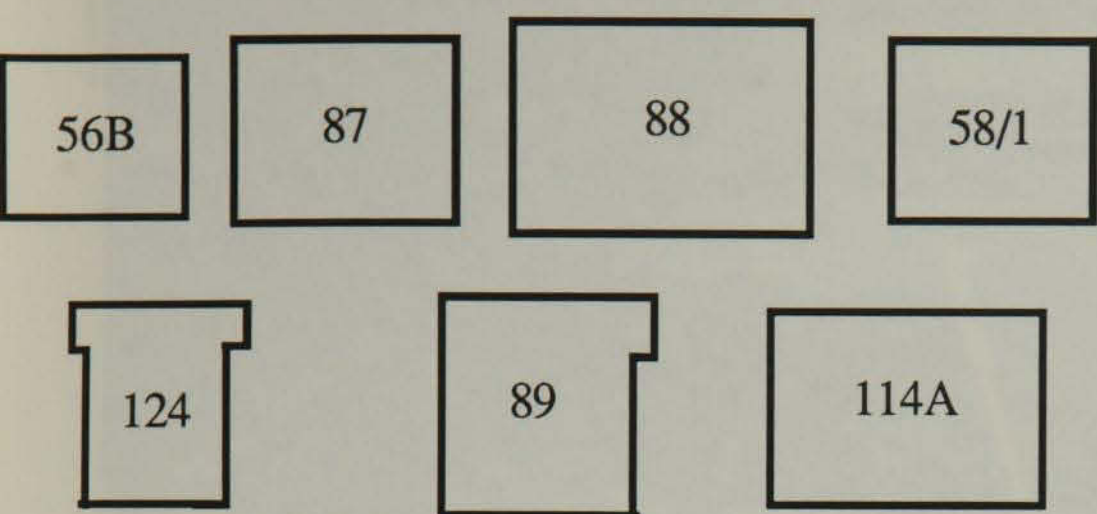




Plate 4.4

Allure Walkway at Baldwinstown Castle (#110), exterior wall is on the right, (it slopes left to right for drainage) note "corrugated" appearance of the surface.

Fig. 4.4A

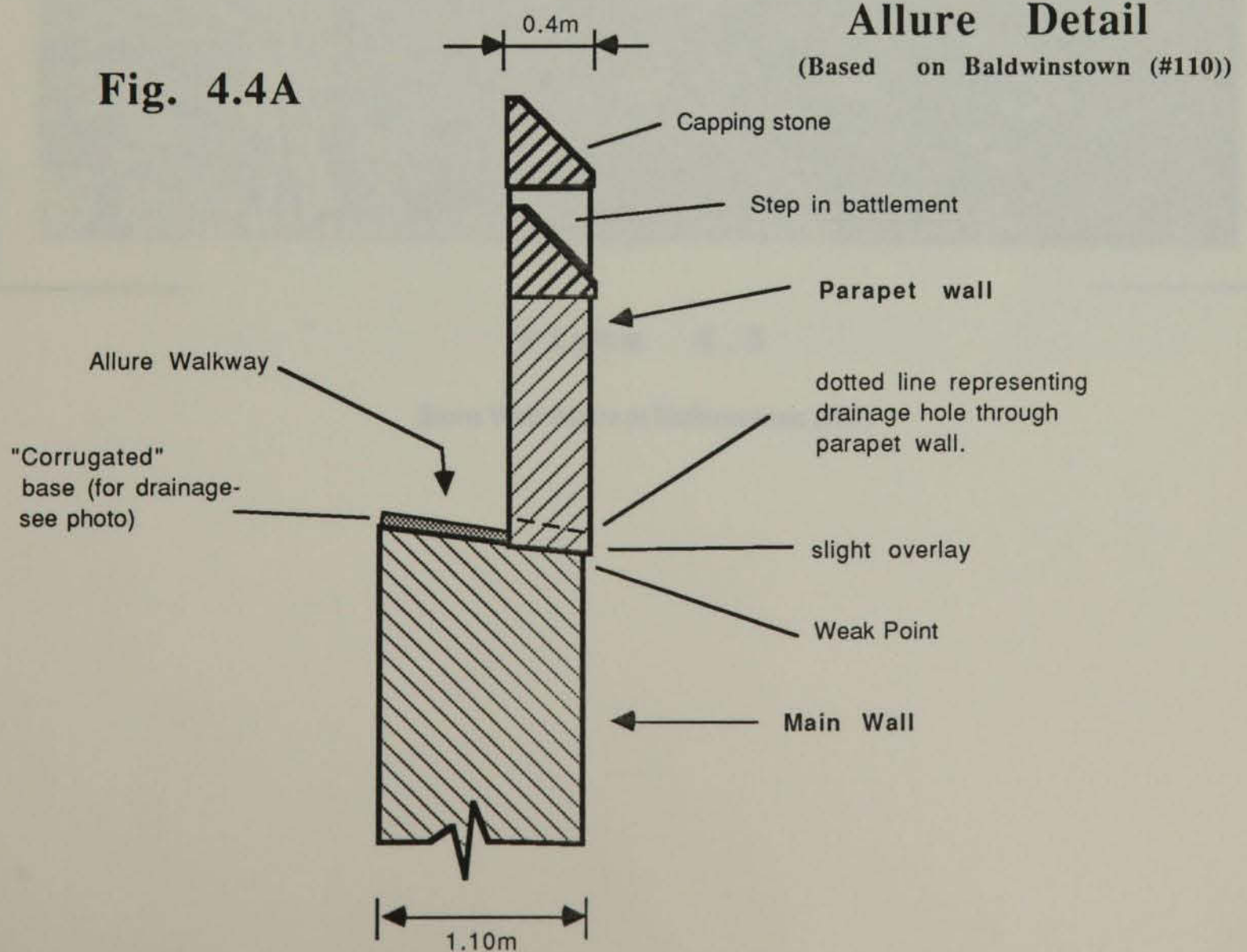




Plate 4.5

Bawn Wall Allure at Rathmacknee (#89)

Fig. 4.6

Diagrammatic representation of
 front of domestic features
 with doors and windows
 (Not to scale)

Fig.4.5a

Door Arrangement (Sectional Plan based on Newbawn) *Not to scale*

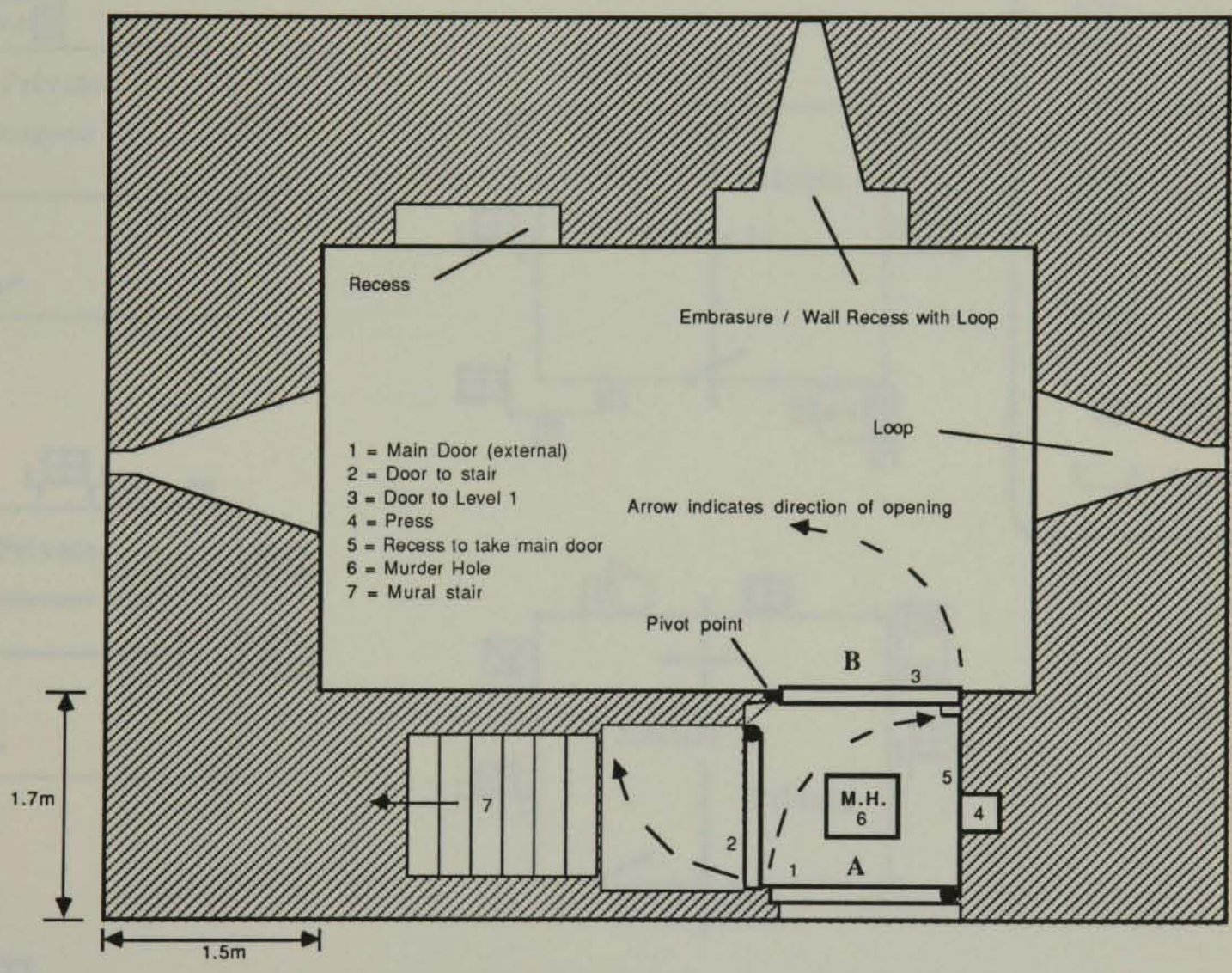
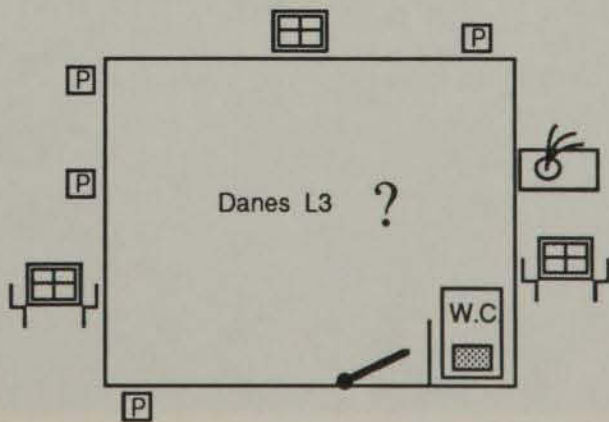
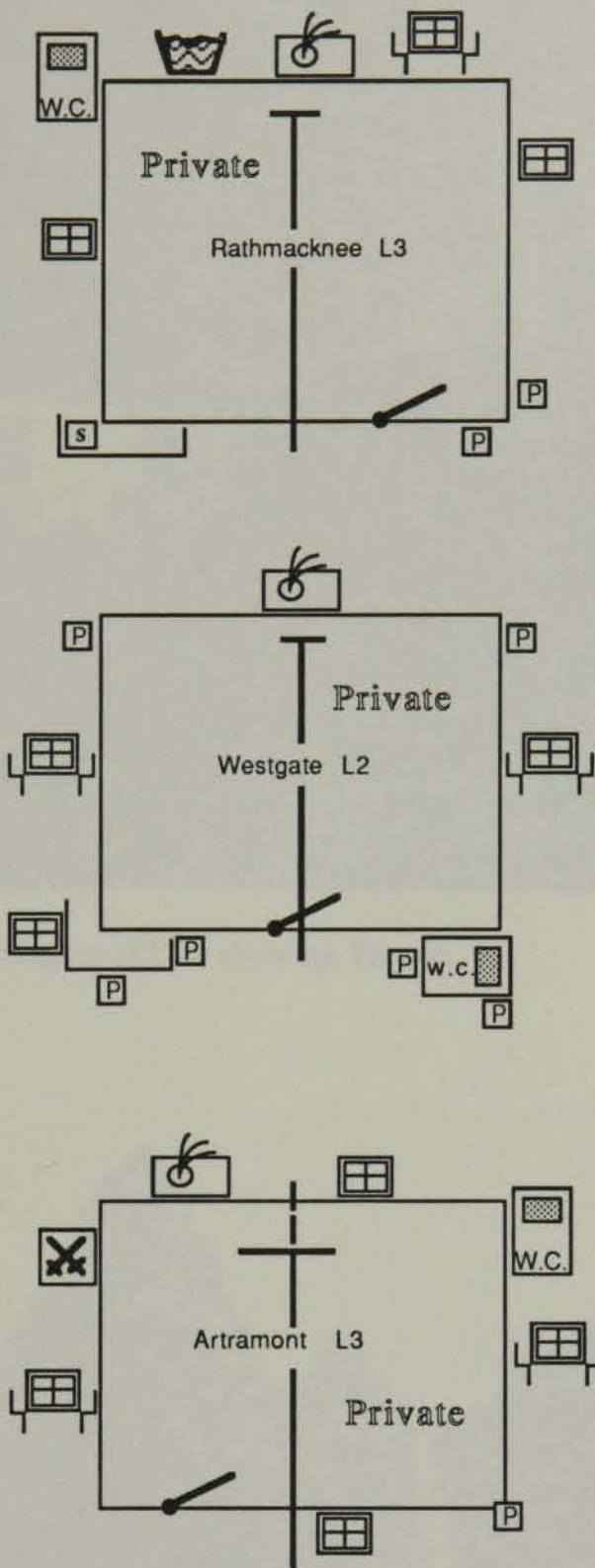
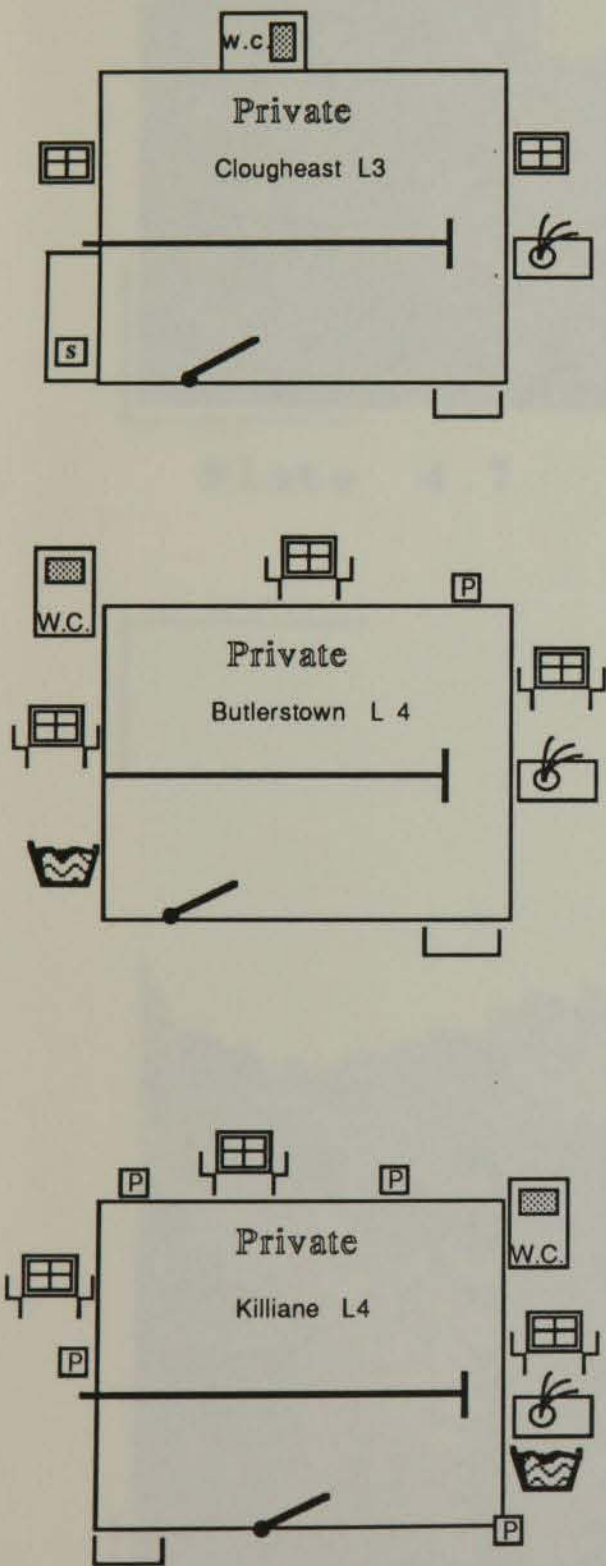


Fig. 4.6

Diagrammatic representation of layout of domestic features.
(with respect to doorways)
(Not to Scale)



Symbols

- Window
- Window with seats
- Fireplace
- Wall Press
- Murder Hole operation pt.
- Entrance door
- Garderober
- Slop sink
- Access to "secret" chmbr.
- Chamber



Plate 4.7

Ballyteighue (#128) showing Turrets.



Plate 4.8

Corner Turrets, with wall stepping access, at Ballyteighue.



Plate 4.9

Bawn Turret (now subsiding) at Baldwinstown (#110).

Fig. 4.10a

Plan of Tower House (showing Bawns)

(Wall thicknesses not to scale)
(all angles not necessarily true, other scales are correct)

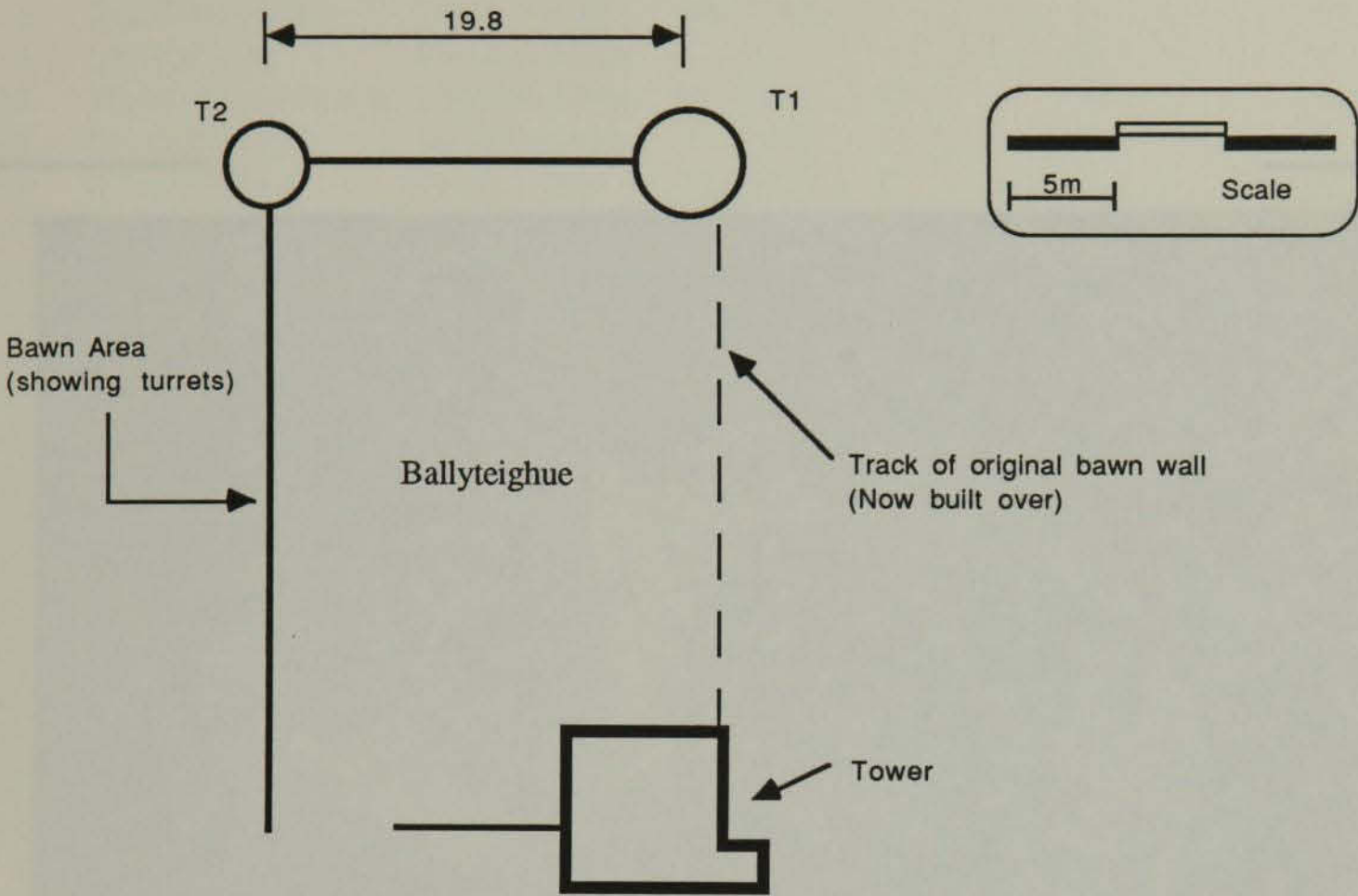


Fig. 4.10b

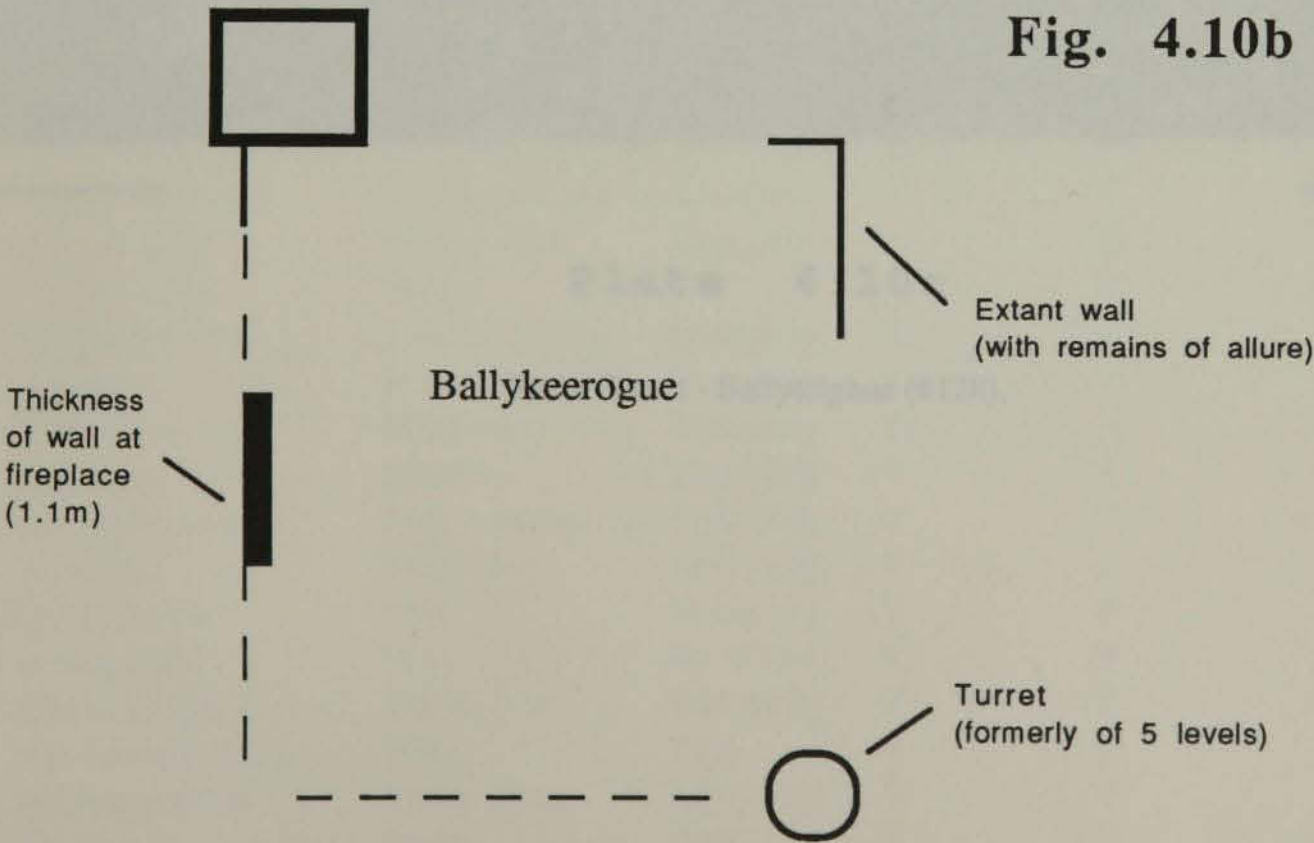


Table 4.11

Wall Structure

#	NAME	Material	County	Outlines	Outlines	Outlines
5	Bawn	State	Naught	-	-	-
8	Beghan	State - brick	Naught	-	-	-
15	Bessing (P)	State - mix	Naught	-	-	-
19	Cuthbert	State - brick	-	-	Y	-
20	Clark/Brownwood	State / mix	Naught	Y	Y	-
25	Westerport	State / brick	Naught	Y	Y	Y
26	Westerport	State - mix	Naught	Y	Y	Y



Plate 4.10c

Bawn Turret - Ballyteighue (#128).

27	Aghnagor	State - brick	Naught	Y	-	-
28	Kilbrannigan	State	Naught	Y	-	-
31	Newcastle	State - brick	Naught	Y	-	-
33	Clonard	State - brick	Naught	Y	-	-
37	Ballymore	State - brick	Naught	Y	-	-
38	Kilbrannigan	State	Naught	Y	-	-
39	Ballymore	State - brick	Naught	Y	-	-
41	Kilbrannigan	State	Naught	Y	-	-
42	Ballymore	State	Naught	Y	-	-
45	Ballymore	State	Naught	Y	-	-
47	Clonard	State - brick	Naught	Y	-	-
49	Clonard	State	Naught	Y	-	-
50	Ballymore	State - brick	Naught	Y	-	-
51	Dunns	State	Naught	Y	-	-
54	Kilbrannigan	State	Naught	Y	-	-

Table 4.11

Wall Structure

#	NAME	Material	Coursing	Cut Quoins	Cut Frames	Extnl Putlogs
5	Borris	Slate	Roughly	N	-	-
9	Daphne	Slate + brick	Roughly	-	-	-
15	Annesley (P)	Slate + mix	Un-Crsd.	-	-	-
19	Castleboro	Slate + brick		-	Y	-
20	Black/Browns wd.	Limstn / Mx.	Un-Crsd.	Yr	Yr	-
25	Mountgarret	Gnte/Lmstn	Roughly	Y	Y	Y
31	Adamstown	Gnte + mix	Roughly	Y	Y	N
32A	Macmine	Mx.	Plastered	-	Y	-
33A	The Deeps	Slate	Roughly	Y	Y	-
35	Strokestown	Slate	Un-Crsd.	N	Y	N
40	Tellarought	Gnte (mainly)	Roughly	Y	Y	Y
41	Courthoyle	Gnte (mainly)	UN-Crsd.	Y	Y	N
42	Newbawn	Gnte (mainly)	Roughly	-	Y	-
45	Dungear	Slstn. Clvd.	Roughly	N	N	-
53	Barntown	Mx. Sdstn. Clvd.	Roughly	Yr	N	Y
54	Artramont	Gnte.	Roughly	Yr	Y	N
56B	Ferrycarrig	Slstn. Clvd.	Roughly	Y	Y	-
57B	Selskar	Mx. Limstn. Ω	Roughly	Y	Y	-
58/1	Westgate	Mx.	Roughly	Y	N	-
62	Dunbrody	Mx.+ brick	Roughly	Y	-	-
64	Ballykeerogue	Mixed rubble	Un-Crsd.	N	Y	P
65	Killesk	Mx. + slate	Roughly	Y	Y	-
66	Rathumney	Gnte	Roughly	Y	Y	Y
68	Longraigue	Gnte	-	Y	-	-
69	Taylorstown	Gnte	Roughly	Y	Y	-
69A	Taghmon	Gnte + mix	Un-Crsd.	Y	Yr	N
70	Taylorstown	Mbl. Gnte+Mx	Roughly	Y	N	Y
71	Slevoy	Gnte + Mbl	Roughly	Y	Yr	N
73	Hilltown	Slate +	Roughly	Y	Y	-
75	Sigginshaggard	Mx.Slate/Gnte	Un-Crsd	Yr	P*	N
76A	Harperstown	Slstn.Clvd.Gnte.	Roughly	Y	-	N
77	Aghnegan	Mix + Mbl	Roughly	-	N	-
78G	Kilmannin	Mix.	-	N	Y	-
81	Newcastle	Sdstn. Clvd.	Roughly	Yr	Y	N
83	Clonard	Mx. Sdsn.Clvd.	Roughly	Y	Y	-
87	Rathlannan	Mx. some qzt.	Roughly	Yr	N	N
88	Killiane	Lmstn.	Roughly	Y	Y	N
89	Rathmacknee	Mx. -all types.	Roughly	Y	Y	P
91	Kilhile	Sndstn.	Roughly	Y	N	-
92	Ballyhack	Mix	Roughly	Y	Y	N
95	Dungulph	Mx.	Un-Crsd.	Y	Y	-
97	Clonmines I	Gnte. Mx.	Roughly	Y	Y	-
99	Clonmines III	Mx.	Yes	Y	Y	-
100	Barrystown	Gnte. Mx.	Roughly	Y	Y	-
101	Danes	Gnte.	Roughly	Y	Y	Y!
104	Kilcavan	Gnte	Roughly	Y	Y	-

#	NAME	Material	Coursing	Cut quoins	Cut Frames	Extnl Putlogs
106	Coolhull	Gnte. Mx.	Roughly	Y	Y	-
107	Scar	Congl. +	Roughly	Yr	Yr	Y
108A	Cullenstown	Gnte.	Un-Crsd.	Y	Y	N
109	Rathronan	-	-	Y	-	-
110	Baldwinstown	Gnte + Mx	Roughly	Y	Y	Y
111A	Ballymagir	Slate Mx.	Plastered	-	-	-
112	Mulrankin	Mixed rubble	Roughly	Y	Y	Y
114A	Ballycogley	Scst. Slate.+	Yes	Y	Y	P
115	Bargy	Slate + Mx.	Plastered	?	Y	-
117	Butlerstown	Gnte. Mx.	Un-crsd.	Y	Y	-
120	Ballytory	-	Plastered	-	Y	-
122	Ballyconnor	Gnte.+Lmstn.	Un-Crsd.	Y	Y	N
124	Kilclogan	-	Roughly	Y	Y	-
126	Fethard	Mx. all types.	Roughly	Yr	Y	-
128	Ballyteighu	Red Sdstn+Mx.	Un-Crsd.	Y	Y	N
129	Ballyhealy	-	Roughly	Yr	Y	-
130B	Sigginstown	Gnte.	Un-Crsd.	Y	Y	N
133	Rathshillane	Gnte. +	Un-Crsd.	Y	Y	-
134	Ladys' Island	Gnte. Mx.	Un-crsd.	Y	Y	Y
136	Clougheast	Gnte.	Roughly	Y	Y	N
137	Castletown	Gnte.	Roughly	Y	Y	-
138	Slade	Lmstn.	Roughly	Y	Y	N

Notes

r	=	roughly
Y	=	Yes
N	=	No
P	=	possibly
*	=	door only
Ω	=	Creamed Limestone (from newel stair) an import, possibly from England.

Stone Type Codes

Lmstn	=	Limestone
Gnte	=	Granite
Mx.	=	A mixture of stone types was found
Mbl.	=	Marble
Congl.	=	Conglomerate
qzt.	=	Quartzite.
Scst	=	Schist.
Sdstn.	=	sandstone
Slstn	=	Siltstone
Clvd.	=	"Cleaved"



Plate 4.12

Quoinstones, Bartizan and remains of a Machicolis at Taghmon (#69A)



Plate 4.14

Remains of Kilcavan Castle (#104), - showing quoinstones



Plate 4.15

"Sandwich" type wall construction, at Baldwinstown (#110).



Plate 4.16

Boulder "foundation" at Taylorstown (#70).



Plate 4.17 Foundation of boulders on natural rock outcrop. (Tracystown - #69)



Plate 4.17a Boulders used as "foundation" at Tracystown (exterior view).



Plate 4.18

External Put-log holes, - Taylorstown (#70).



Plate 4.18a

External Put-log holes at Danes Castle (#101)



Plate 4.19

Round Arched Doorway at Butlerstown (#117), note also raised doorway.



Plate 4.20

Flat Arched Doorway at Ballyhack (#92).

Table 4.21 Doorway Details

#	Name	Shape	Cut?	Size	Rebate	Notes
5	Borris	-	-	-	-	Evidence for draw bar type mechanism (hinge stones and rebate in talus)
25	Mountgarret	Point.	Y	-	Y	Hole at side, draw bar slot also. Door rebate = 6cm thick.
31	Adamstown	Point*	Y	6.5'h	Y	Hole at side, similar to # 25.
33A	The Deeps	Round	Y(r)	-	N	
42	Newbawn	Point	Y	-	Y	Hole at side and at apex, draw bar slot.
53	Barntown	Round	N	1.75h	N	Possibly not orig.
54	Artramont	Point	Y	1.9h	Y	Of "Std." Group.
65	Killesk	Point	Y(r)	-	-	"Ballyhack redstone"
69A	Taghmon	Round	Y(r)	-	N	Door was prob. elevated (now blocked)
70	Tracystown	Blt.Pt	N	-	-	
71	Slevoy	Square	Y	-	-	-
75	Sigginshaggard	Point	Y(r)	-	Y	Draw-bar slot.
87	Rathlannan	Point	N	2.0h	N	Poss.not orig.
89	Rathmacknee	Point	N	1.9h	N	-
91	Kilhile	Round	N	-	N	-
92	Ballyhack	Square	Y	-	Y	Elevated
97	Clonmines I	Point	Y(r)	-	N	-
99	Clonmines III	Round	Y	-	N	-
100	Barrystown	Point	Y	1.9h	Y	Of "Std." Group.
101	Danes 1	Round	N	-	N	One of two doors.
	2	Round	N	-	N	Machicolus over.
106	Coolhull	Point	Y	1.9h	Y	Of "Std." Group.
110	Baldwinstown	-	Y	-	-	Draw-bar slot
114A	Ballycogley	Flat	Y	-	-	-
117	Butlerstown	Round	Y	1.65h	N	Portcullis / steps up to it.
120	Ballytory	Point	Y	0.88h	Y	Poss. eye @ apex.
122	Ballyconnor	Point	Y	-	N	Portcullis.
128	Ballyteighue	Point	Y	-	-	-
128	Ballyteighue (L2)	Square	Y	2m h	-	With pivot eyes.
130B	Sigginstown	Point	Y	-	-	-
133	Rathshillane	Segmtl.	Y	1.7h	N	-
136	Clougheast	Point	Y	1.8h	N	Portcullis.
137	Castletown	Flat	Y	-	Y	-
138	Slade	Point	N	-	N	-

Notes
* = As recorded in Jeffrey (as it no longer survives)
h = Height
(r) = Rough(ly)
Std.= Standard.



Plate 4.22

Doorway at Newbawn.



Plate 4.23 Stone suitable for horizontal hinging mechanism of drawbridge, Borris Castle.



Plate 4.23a Rebate in Wall Talus and base stone, both indicate a drawbridge at Borris (#5).



Plate 4.24 Mountgarrett Doorway detail



Plate 4.24a Newbawn Doorway Detail



Plate 4.25

Mountgarrett Doorway.



Plate 4.25a

Artramont Doorway.



Plate 4.26 Barrystown Doorway detail

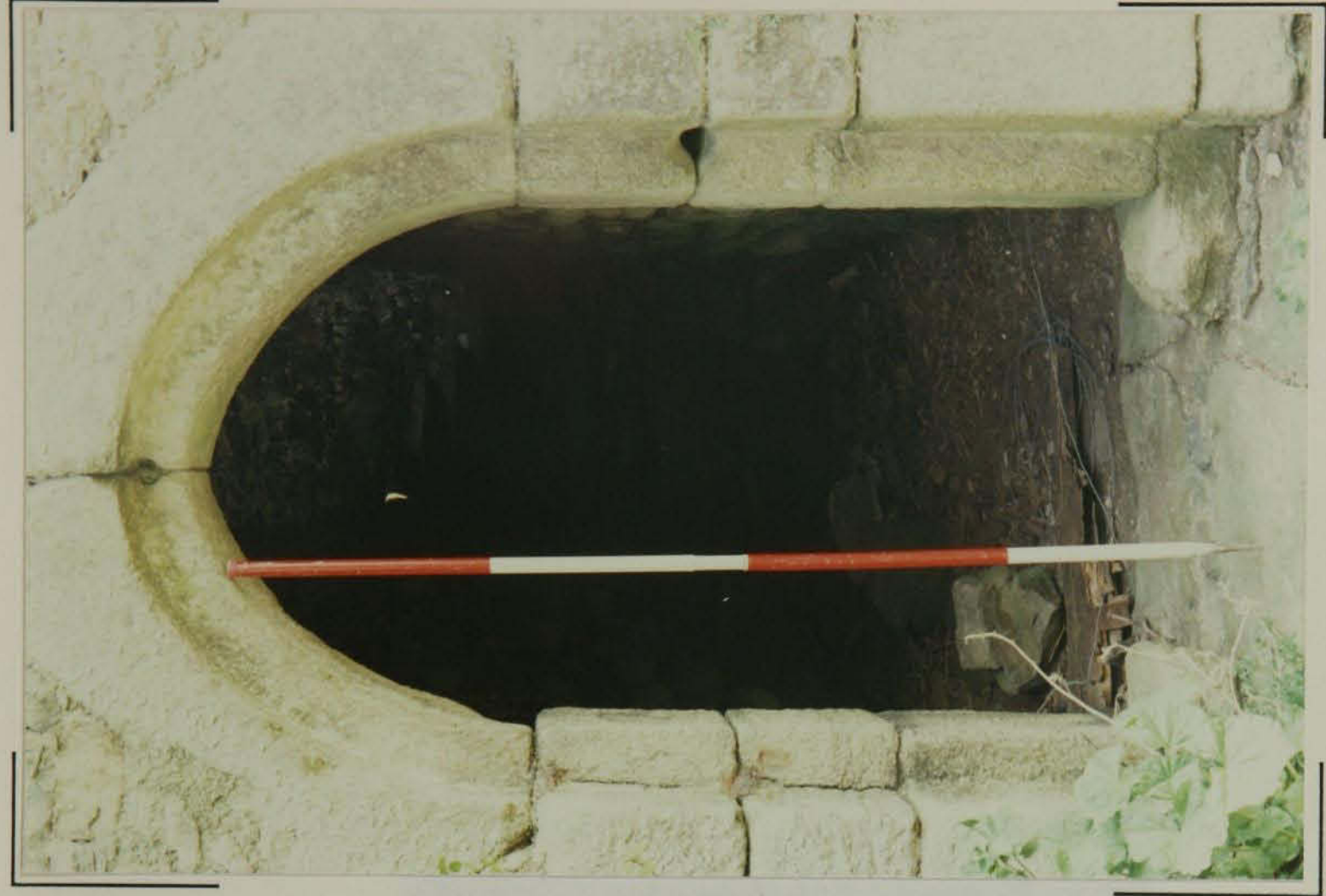


Plate 4.26a Coolhull Doorway Detail

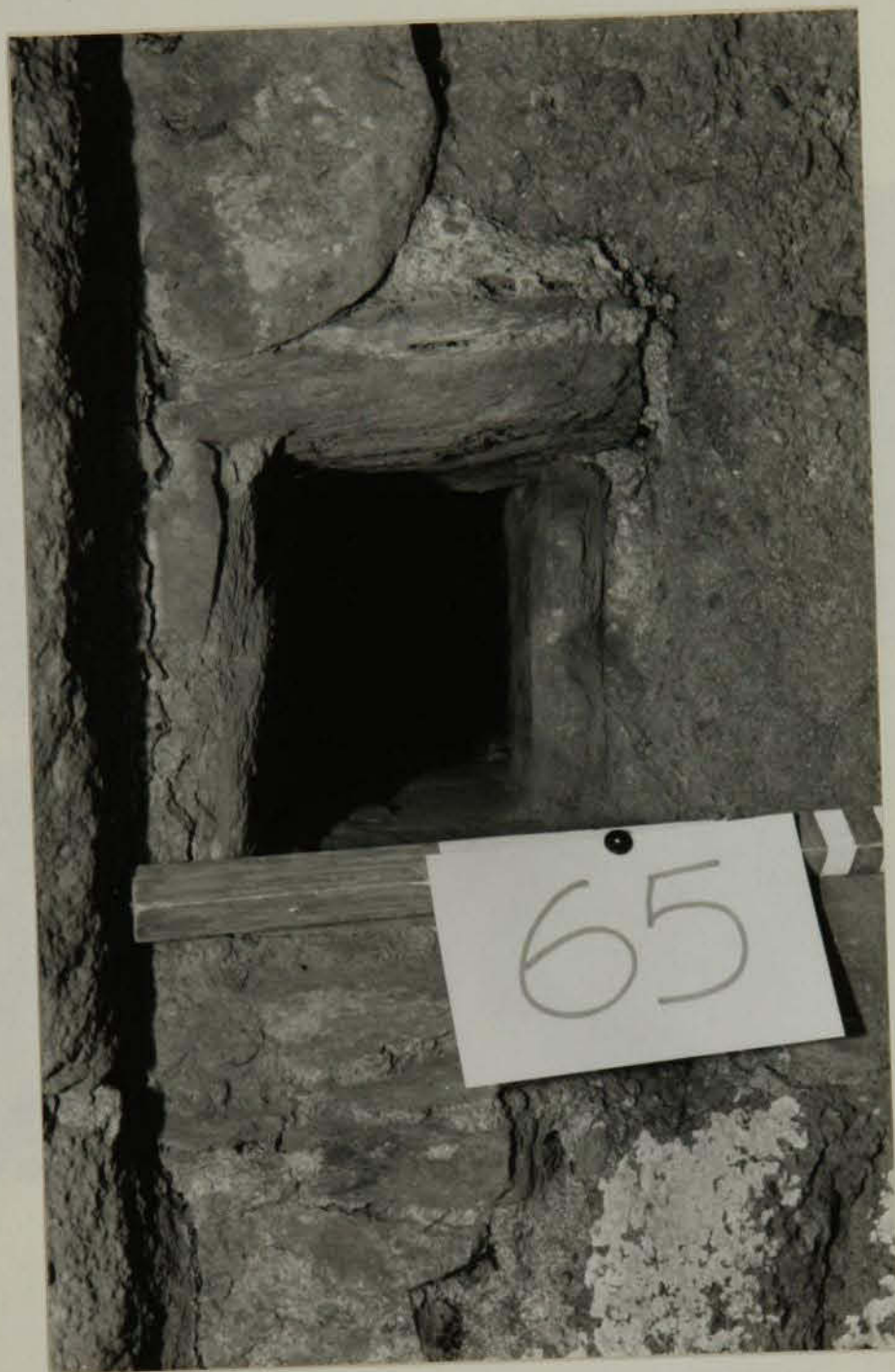


Plate 4.27

Draw - Bar Slot at Killesk Castle (#65).



Plate 4.28

Hanging "eye" for door (pivot) at Castletown (#137).

Name

Lvl

Strata

Area

Notes



Plate 4.29

Hinging mechanism (pivot points) - shown with ranging pole inserted.

Baldwinstown (#110).

Table 4.30

Window Details

#	Name	Lvl.	Shape					Area	Notes
			M+T	Oge ²	Rnd	Dbl	Rct		
25	Mountgarret	3	1s	-	-	-	-	1.30	Cut granite moulding
31	Adamstown	2	-	-	-	3s	-	-	Some survive only in part and cannot thus be analysed.
		3	-	-	2s	1s	-	-	
		4	-	-	-	-	-	-	
33A	The Deeps	2	-	-	-	-	Y	-	Wide inaccessible lps
		3	4 [^]	-	-	-	-	-	-
35	Strokestown	3	1	-	-	-	2s	-	Hood Moulding
40	Tellarought	4	-	-	-	-	3	0.92	
41	Courthoyle	2	-	-	-	-	-	-	Cross Loop.
42	Newbawn	1	-	-	-	-	-	0.055	Double splay loops.
53	Barntown	3	-	-	-	-	4	-	-
		4	-	-	-	-	3	-	-
		5	-	-	-	-	2	-	-
54	Artramont	2	-	-	-	-	2	-	-
		3	-	-	-	-	4	0.16√	√ Two had this area
		4	-	-	2	-	1	0.11ç	ç For each round one
56B	Ferrycarrig	2	-	-	-	-	3	-	-
		3	-	-	-	-	3	0.39	-
		4	-	-	-	-	3	-	-
57B	Selskar	3	-	-	-	-	2	-	-
		4	-	-	-	-	4	-	-
58/1	Westgate	2	-	-	-	-	2	-	-
		3	-	-	-	-	2	-	-
		4	-	-	-	-	4	-	-
64	Ballykeerogue	2	-	-	-	-	1	-	-
		3	-	-	-	-	1	-	-
65	Killesk	3	-	2	-	-	-	0.626	Poss oth window.
69	Taylorstown	3	-	-	-	-	Y	-	-
69A	Taghmon	-	Y†	-	-	-	Y	-	Inaccessible.†
75	Sigginshaggard	3	-	-	-	-	4	0.920	Many gun-ports.
		4	-	-	-	-	2	0.460	
78G	Kilmannin	3	-	-	1	-	-	-	Rebate on outside.
81	Newcastle	3	-	-	-	-	4	1.104	Window seats also.
88	Killiane	2	-	-	-	-	1	-	-
		3	-	2∂	-	-	2	-	∂ Double ogee.
		4	-	1	-	-	2	-	-
		5	-	-	-	-	2	-	-
89	Rathmacknee	2	-	-	-	-	1	-	-
		3	-	3°	-	-	1	-	-° 1 sgl, 2 dbl.
		4	-	3°	-	-	-	-	-
		5	-	-	-	-	4	-	-

			M+T	Oge ²	Rnd	Dbl	Rct		
91	Kilhile	3	-	-	-	-	Y	-	-
		4	-	-	-	-	Y	-	-
92	Ballyhack	1	-	-	-	-	-	0.163	-
		2	-	-	-	-	1	0.256	-
		3	-	-	-	-	3§	2.488	§ 1 had segmental top
		4	-	2	-	1	2	2.166	Dbl. is ogee.
		5	-	-	-	2¶	-	0.930	¶ 1= rect. 1= ogee.
97	Clonmines I	2	-	-	-	-	2	0.307	
		3	-	-	-	-	2	-	-
		4	-	-	-	-	2	-	-
		5	-	-	-	-	2	-	-
101	Danes	3	1†	-	-	-	-	-	-
		4	-	-	-	-	2	-	-
		5	-	-	-	-	2	-	-
107	Scar	-	-	-	-	-	Y	-	-
110	Baldwinstown	3	-	-	-	1ϕ	Y	-	ϕ Trefoil style.
112	Mulrankin	-	-	-	-	1`π	Y	-	π Tpl. ogee style.
114A	Ballycogley	2	-	-	-	-	1s	-	S = survives
		3	-	1 ^o	-	-	-	-	-
		4	4^	-	-	-	-	-	^ poss=inserts
		5	-	-	-	-	2	-	-
117	Butlerstown	2	-	-	-	-	2	-	-
		3	-	-	-	-	3	-	-
		4	-	-	3	-	2	-	-
		5	-	-	-	-	4	-	-
122	Ballyconnor	2	-	-	-	-	2	-	-
		3	-	-	-	-	1	-	-
124	Kilcloghan	1	-	-	-	-	2	-	-
		2	-	-	-	-	2	-	-
		3	-	2 ^o	-	-	-	-	-
		4	-	2 ^o	-	-	2	-	-
126	Fethard (tower)	-	-	Y ^o	-	-	-	-	-
128	Ballyteighue	2	-	-	-	1β	Y	-	β trefoil cut redstone.
129	Ballyhealy	-	-	Y∂	-	-	Y	-	∂ also cut multifoil.
130B	Sigginstown	2	-	-	-	-	Y	-	-
		3	-	-	-	-	Y	-	-
		4	-	-	-	-	Y	-	-
		5	-	-	-	-	Y	-	-
133	Rathshillane	1	-	-	-	-	1s	0.116	-
		2	-	-	-	5┐	-	-	┐ all "Tudor Style"
		3	-	-	-	4┐	-	-	┐ mullion,no transom.
134	Ladys Island	2	-	-	-	-	2	-	-
		3	-	-	-	-	4	1.086	-
		4	1†	-	-	-	3	-	-
		5	-	-	-	-	3	-	-
136	Clougheast	3	-	-	-	-	3	0.393	-
		4	1†	-	1	-	2	-	-
		5	-	-	1	-	2	-	-
137	Castletown	2	-	-	-	-	2	-	-
138	Slade	3	-	-	-	-	2	0.12œ	-œ = area of one.
		4	-	-	-	-	2	-	-
		5	-	-	-	-	1	-	- (Code - see over)

Fig. 4.31

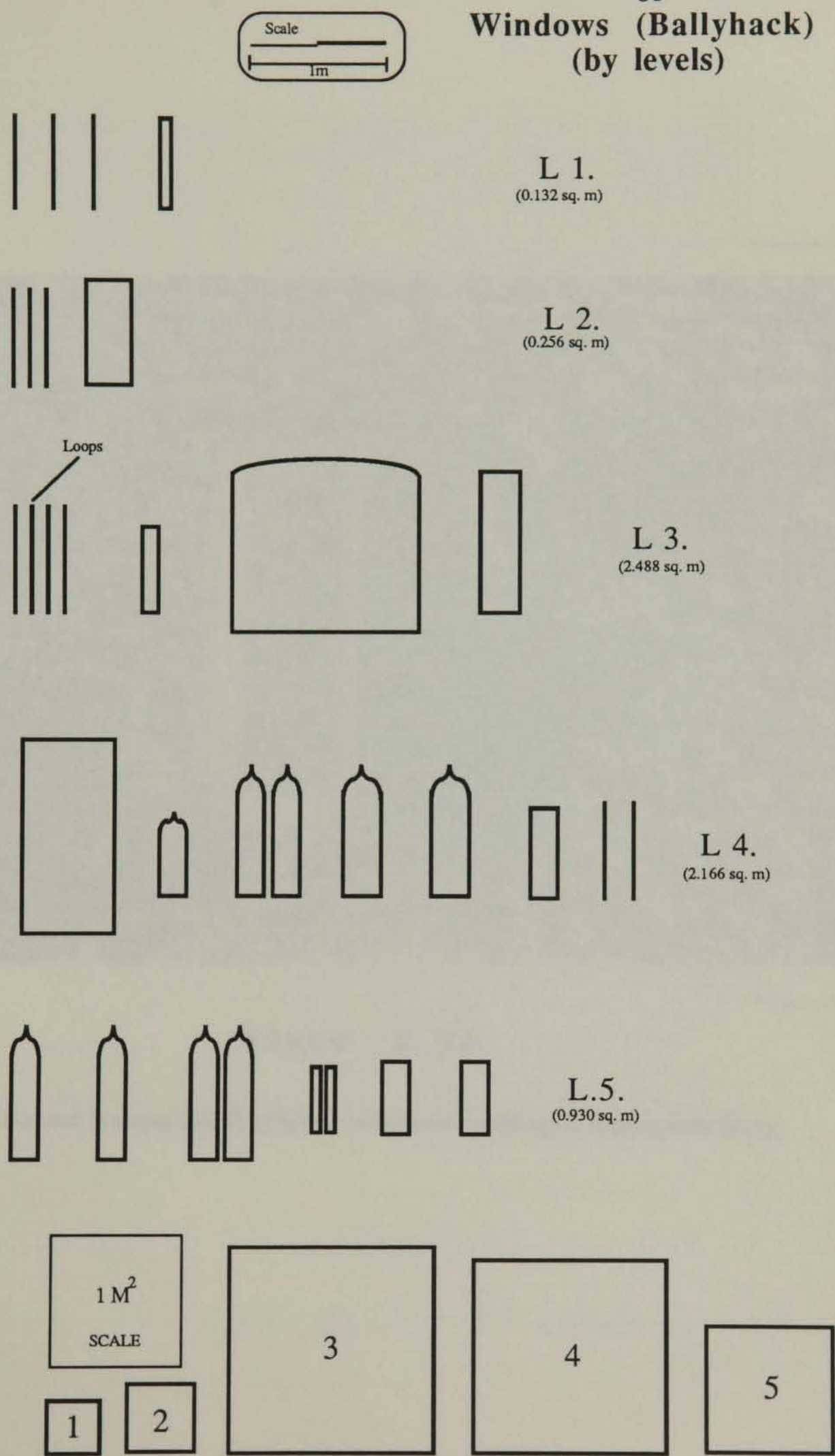
Scale Representation
of
Windows (Fullback)
(by level)

NOTES / CODE (for Window Breakdowns)

Lvl.	=	Level of the Tower House	†	=	Evidence for mullions, but not for transoms.
M+T	=	Mullion and Transom window	°	=	"cusped".
Oge.	=	Ogee headed window			
Rnd.	=	Round headed window			
Dbl.	=	Double light (window)			
Rct.	=	Rectangular window			
Y	=	Yes (this feature exists here)			
s	=	Number surviving - possibly were more.			

Fig. 4.31

Scale Representation
of
Windows (Ballyhack)
(by levels)



Scale Representation of total window area for each level at Ballyhack (#92)



Plate 4.32

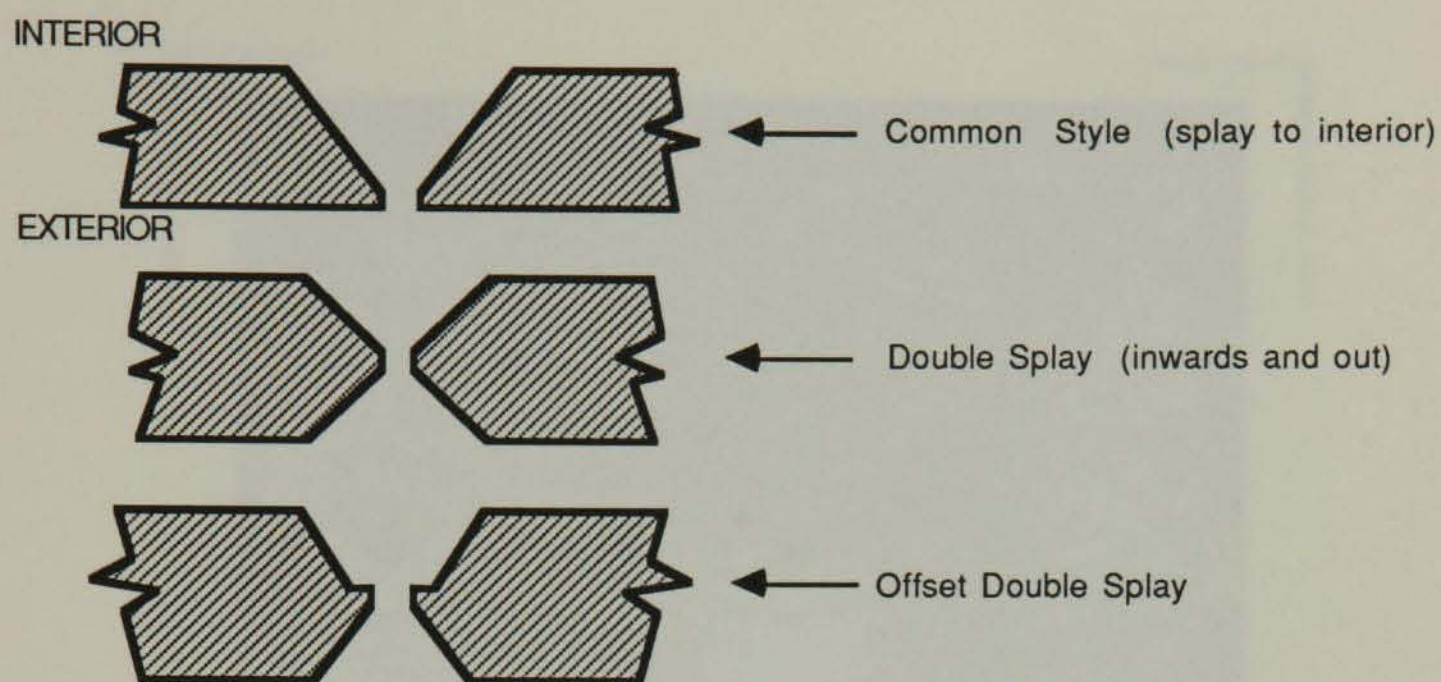
Mullion and Transom (M+T) Window - with hood moulding, at Mountgarrett (#25).



Plate 4.33

Cross Loop at Ferrycarrig, (shown with 50cm scaling rod).

Fig. 4.34 Loop Types (shown in section)



For further details see Chapter 6.



Plate 4.35

Double Gun Loop (Gun Port) viewed from interior at Siggishaggard, (#75).



Plate 4.36

Window with pivot points for shutter hinging mechanism. Baldwinstown.

Table 4.37**WINDOW SEATS****List of Tower Houses known to have had Window Seats**

<u>#</u>	<u>Name</u>
33A	The Deeps.
40	Tellarought.
53	Barntown.
54	Artramont.
57B	Selskar.
58/1	Westgate.
78G	Kilmannan.
81	Newcastle.
88	Killiane.
89	Rathmacknee.
92	Ballyhack.
97	Clonmines II.
101	Danes.
107	Scar.
108A	Cullenstown.
110	Baldwinstown.
114A	Ballycogley.
117	Butlerstown.
124	Kilclogan.
128	Ballyteighue.
129	Ballyhealy.
134	Ladys' Island.
138	Slade.



Plate 4.38

Cusped Ogee window with Window Seat at Rathmacknee (#89).



Plate 4.39 Central placement of windows at Sigginstown.



Plate 4.39a Central placement of windows at Sigginsgaggard.



Plate 4.40

Ballyhack Castle (#92).

A photograph of a stone well with a spiral staircase inside, looking down towards a bright opening at the bottom. The well is constructed from rough-hewn stones, and the spiral staircase is built into the inner wall. The light from the opening at the bottom creates a strong contrast with the dark interior of the well.

Table 4.42

STAIRS

MURAL

SPIRAL

#	NAME	TRD	RSR	STP	WTH	LTS	TRD	RSR	STP	WTH	LTS	W?
25	Mountgarret						28	25	2s	90	5s	W
31	Adamstown	21	25	4s	90	2	21	25	4s	75	3s	W
32A	Macmine	25	19	13s	80	-	18	24	11s	75	2s	W
33A	The Deeps	-	-	-	90	-	-	-	-	-	-	W
40	Tellarought	26	24	5s	78	-	-	-	1s	-	2s	W
41	Courthoyle						-	23	3s	-	1s	W
42	Newbawn						-	-	1s	90	1s	W
54	Artramont	27	21	21s	79	3						
56B	Ferrycarrig	28	27	36	75	4†	19	27		70		NW
57B	Selskar						18	21	63	76	8	W
58/1	Westgate	27	28	45†	77	5†	21	26		78		W
65	Killesk	-	-	1s	80	-		28v	25s	80	4s	W
69	Taylorstown	26	22	12	80	-	22	22	21s	80	2s	W
70	Tracystown						28	27	8s	65	2s	W
71	Slevoy	25	22	16	65	2						
75	Sigginshaggard						30	25	-	80	2+	W
78G	Kilmannan	20	20	-	60	1						NW
81	Newcastle						25	27	15s	70	1s	W
87	Rathlannan						29	28	?	80	?	NW
88	Killiane	22	25	51	76	7						
89	Rathmacknee	25	22	47	80	7						
91	Kilhile	24	28	7	55	1s						W
92	Ballyhack	26	26v	38	90	7						*NW
95	Dungulph										4s	W
97	Clonmines I	27	27	34s	80	6						
99	Clonmines III						22	24	30	80	4	W
100	Barrystown	-	23	10	90	1	20	25	12	85	1	W
101	Danes	24	25	13	75	2	20	20	30	80	4	NW
106	Coolhull								29	75	1	NW
107	Scar	27	20	37	58	4						
108A	Cullenstown	26	24	20	75	0s	20	22	09	70	1s	W
109	Rathronan	25	27	16s	73	-						
110	Baldwinstown	26	27	33	81	1	20	25	26	80	1	-
112	Mulrankin	30	30	36	65	7						
114	Ballycogley	26	23	56	88	7						
115	Bargy (C.H.T.)						30	20	63	113	8	W
117	Butlerstown	26	22	34	85	3	19	21	25	73	3	W
122	Ballyconnor	25	21	10s	81	1s	24	21	16s	80	-	W
124	Kilclogan	28	22	09s	80	1	20	25	38	84	4	W
126	Fethard	25	24	06s	73	1s	17	26	42s	73	5s	NW
128	Ballyteighue	30	21	43	78	2	21	20	14	78	2	W
129	Ballyhealy	30	20	57	70	7						
134	Ladys Island	24	23	30	80	3	20	22	10	70	-	NW
136	Clougheast	25	19	64	80	09						
137	Castletown	26	23	12s	75	0s						
138	Slade	24	24	09	72	0	20	25	45	75	4	NW

Notes

- v = the figure varies somewhat
- s = indicating the number which survives
- * = where the stair is mural the "Weild" element is assessed at the winders.
- † = indicates that the number is a total for the tower (both mural and spiral).

TRD = Width of step tread
 RSR = Height of step riser
 STP = Number of steps surviving
 WTH = Width of the stairway
 LTS = The number of stair lights
 W? = Whether or not the stair is "wioldable" i.e. winds anti-clockwise downwards.
 W - indicates that it is.
 NW - indicates that it is not.



Plate 4.43

Garderobe chamber at Ballyhack. Note mural press on left.



Plate 4.45

Chimney Breast / Fireplace, at Danes Castle (#101).



Plate 4.46

Relieving Arch over three piece granite fireplace lintel.



Plate 4.47

Corbeled offset in wall to accommodate chimney flue, - Kilclogan, (#124).



Plate 4.48

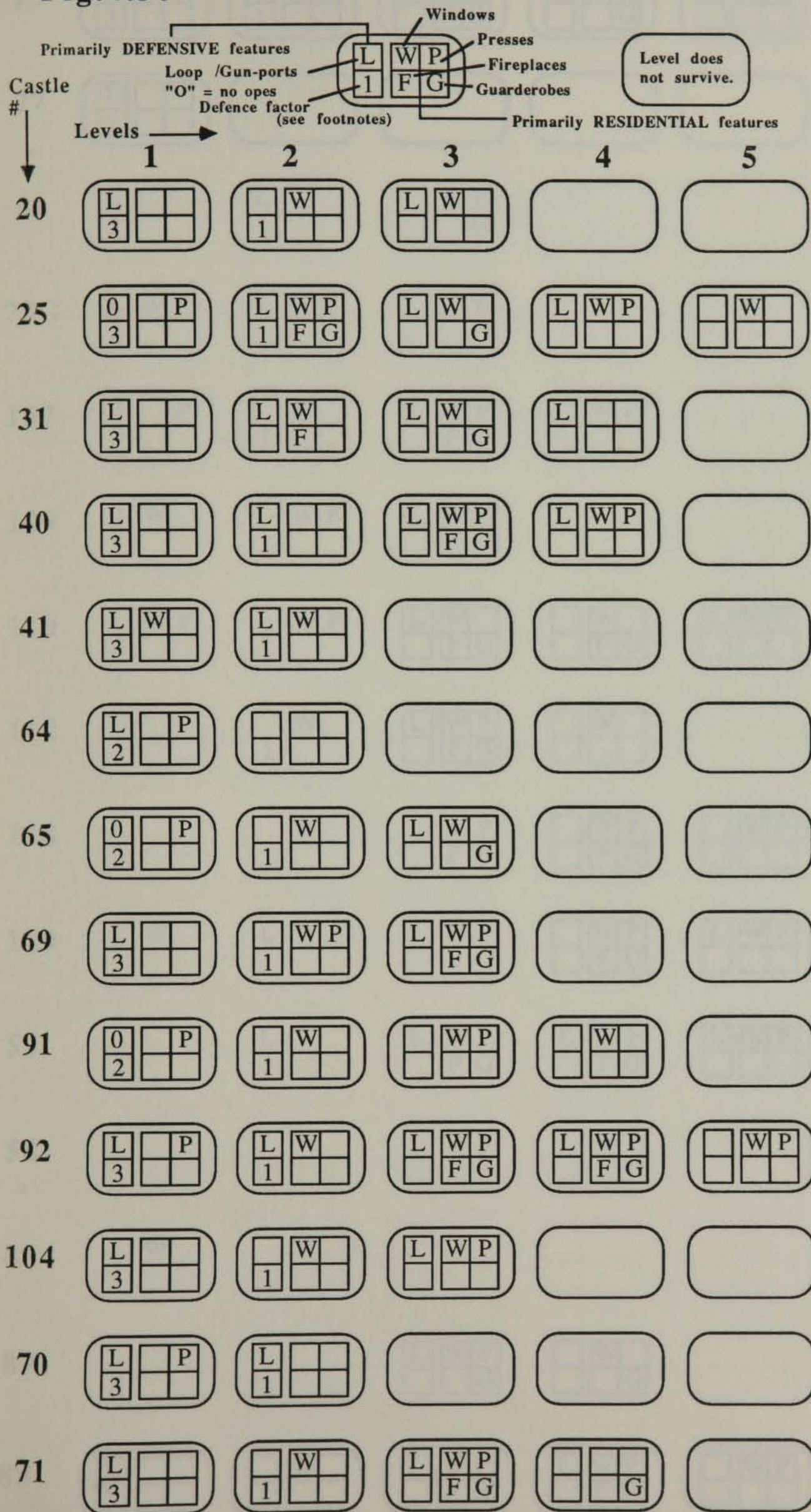
Corner mural press at Newcastle (#81).



Plate 4.49

Drip stone (near top) at Brownswood, (#20).

Fig.4.50 REPRESENTATION OF FEATURES



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97

L				W		L	W	P	L	W	P		W	
3			1				F	G		F	G			

99

	W	P	L	W		L	W	P				Church tower	
3			1				F	G					

100

L		P	L		P		W						
3			1					G					

101

L			L			L	W	P	L	W	P		W	P
3			1				F	G		F	G			

106

L		P	L	W			W					details are for "hall"	
2				F									

108A

L			L	W			W	P					
3			1				F	G					

111A

L	W	P	L	W	P								
3			1	F	G								

124

	W		L	W		L	W	P		W				P
3			1	F			F	G						

126

	W	P		W	P		W	P						
3			1	F	G									

136

L		P	L			L	W		L	W	P		W	P
3			1				F	G		F	G			

138

L		P	L		P	L	W	P		W	P		W	
3			1				F	G						



Plate 5.1

Aerial View of Cullenstown Castle, showing surrounding earthen bank / bawn.

Fig. 5.2a

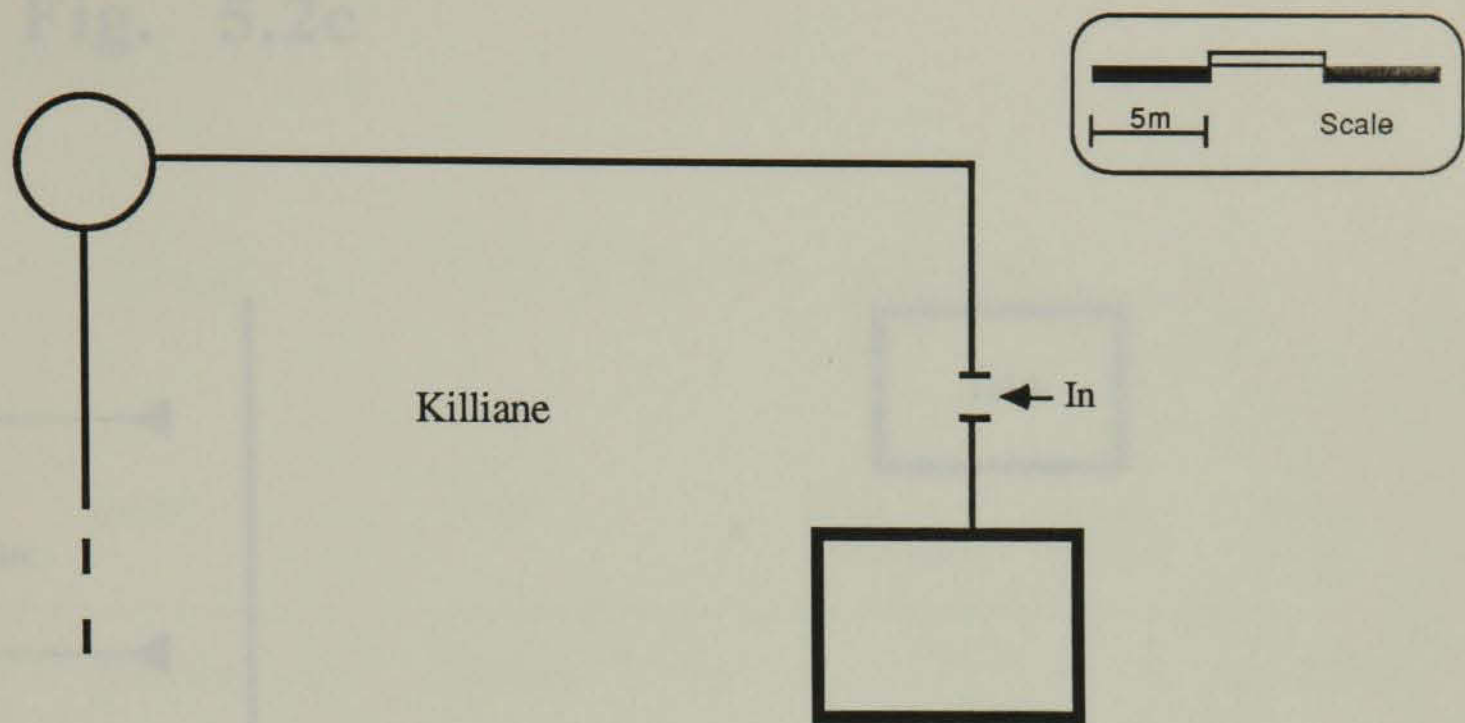


Fig. 5.2b

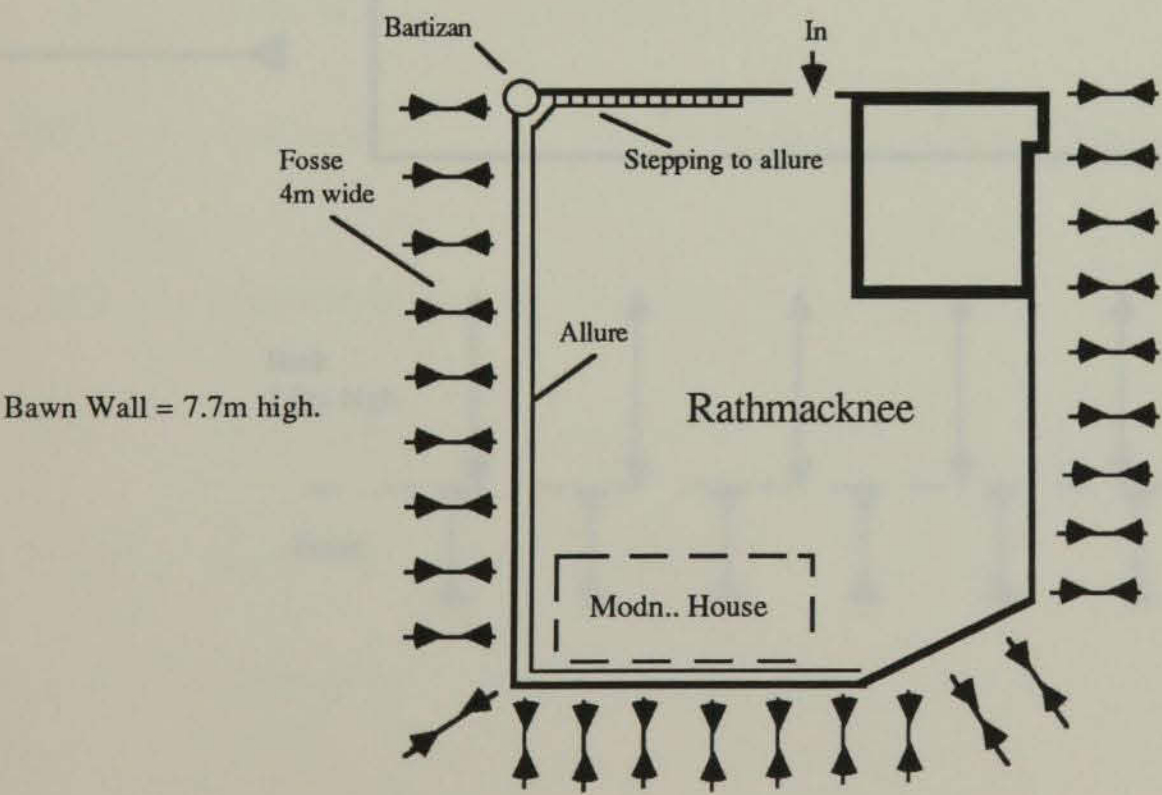


Fig. 5.2c

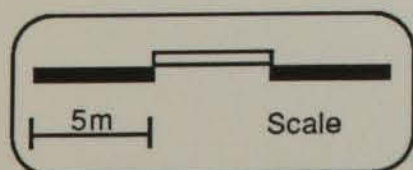
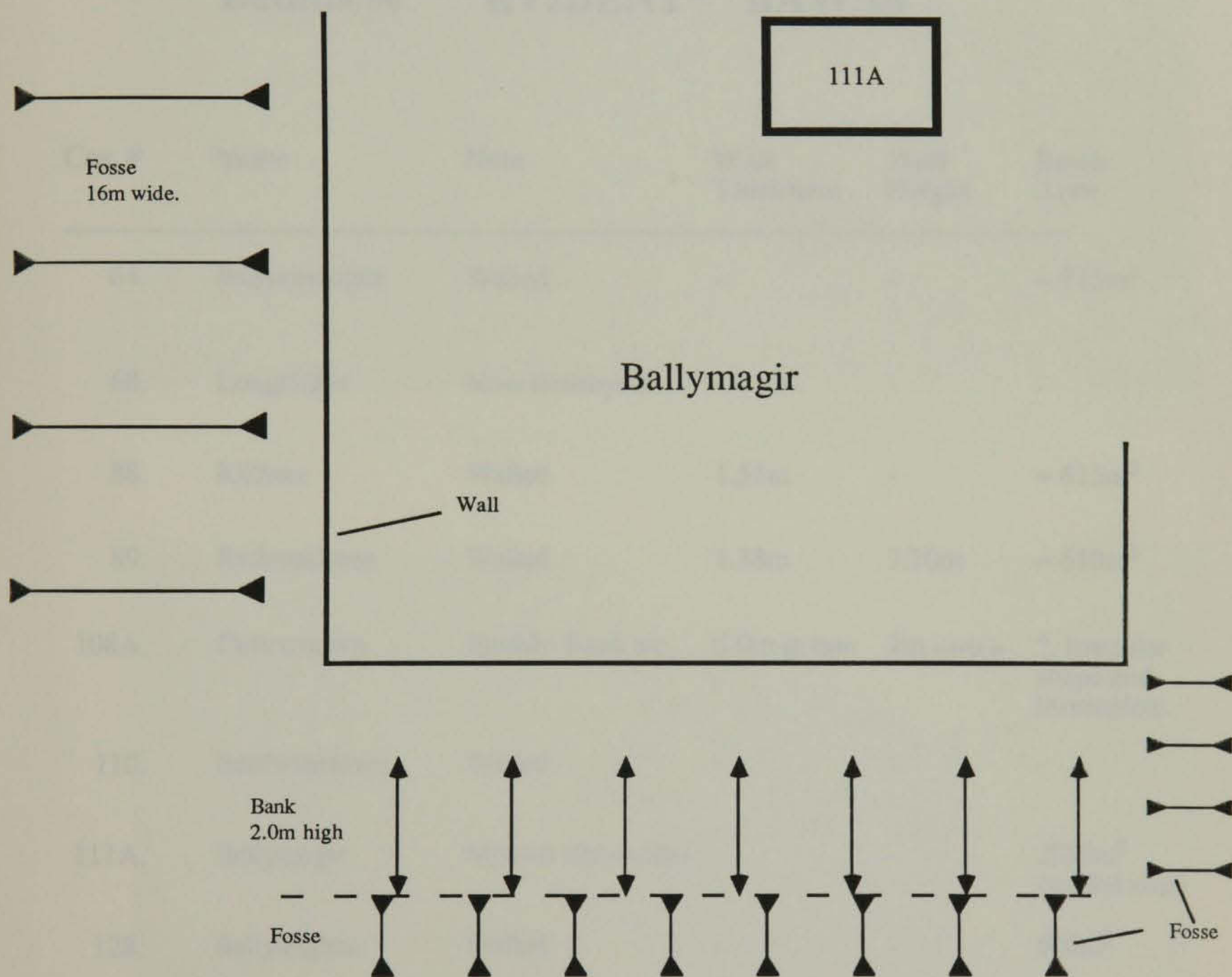


Table 5.3

Details of "EVIDENT" BAWNS

Cas. #	Name	Note	Wall Thickness	Wall Height	Bawn Area
64.	Ballykeerogue	Walled	-	-	$\approx 775\text{m}^2$
68.	Longraigue	Now destroyed	-	-	-
88.	Killiane	Walled	1.55m	-	$\approx 615\text{m}^2$
89.	Rathmacknee	Walled	1.38m	7.70m	$\approx 610\text{m}^2$
108A.	Cullenstown	Earthen Bank etc.	5.0m @ base	2m survives	?. Irregular shape and incomplete.
110.	Baldwinstown	Walled	-	-	-
111A.	Ballymagir	Moated site + walled	-	-	2080m^2 (walled area)
128.	Ballyteighue	Walled	-	-	600m^2
134.	Ladys Island	Walled	1.0m	-	-



Plate 5.4 Rathmacknee Bawn, showing allure and access stepping.



Plate 5.5 Rathmacknee bawn exterior, showing machicolis and bartizan.

Fig. 5.6

Schematic diagram of Bawn to Tower relationship in plan.

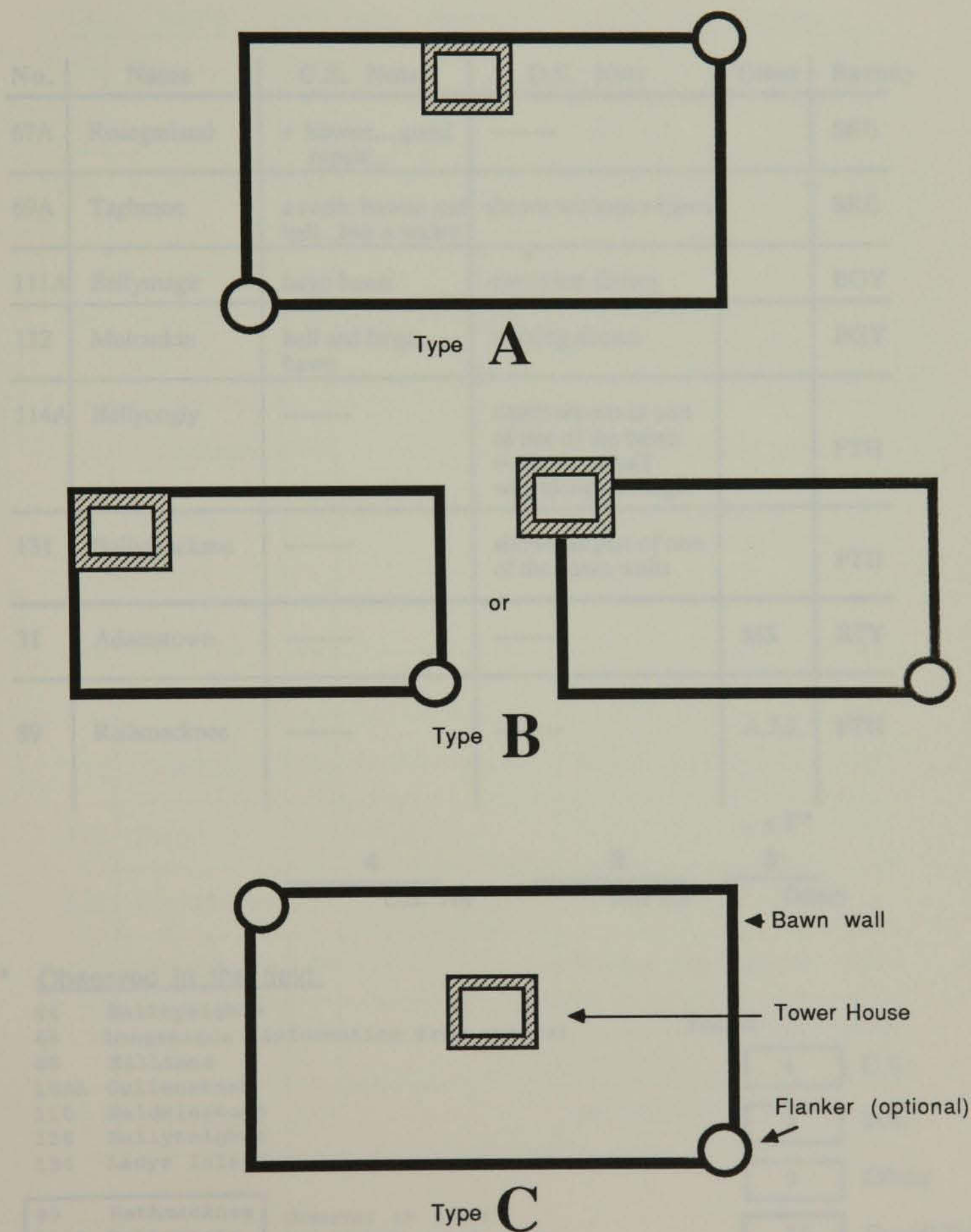


Table 5.7

Table showing Bawn Listings and subsequent Discovery.

No.	Name	C.S. Note	D.S. Note	Other	Barony
67A	Rosegarland	+ bawne....good repair...	-----		SRE
69A	Taghmon	a castle bawne and hall...has a weare.	shown without a bawn		SRE
111A	Ballymagir	large bawn	castle not shown		BGY
112	Mulrankin	hall and large bawn	nothing shown		BGY
114A	Ballycogly	-----	castle shown as part of one of the bawn walls about half way along its length		FTH
131	Ballymackane	-----	shown as part of one of the bawn walls		FTH
31	Adamstown	-----	-----	MS	BTY
89	Rathmacknee	-----	-----	A.J.J.	FTH

4

C.S. Tot

2

D.S Tot

+ 7*

9

Others

* Observed in the field.

- 64 Balltyeighue
- 68 Longraigue (information from owners)
- 88 Killiane
- 108A Cullenstown
- 110 Baldwinstown
- 128 Ballyteighue
- 134 Ladys Island

89 Rathmacknee

111A Ballymagir

114A Ballymagir

Observed in field but already noted above.

Totals

4

C.S.

2

D.S.

9

Others

15

Overall Total

(minimum No. with bawns)

10 - 3 = 7

Table 5.8

C.S. and D.S. representation of "Halls".

No.	Name	BNY	C.S.	Comment	D.S. illustration
64	Ballykeeroge	SBN	-----		Shows two adjacent smaller structures abutted, one on each side.
83B	Hayestown	FTH	-----		Shows gabled attached building on one side of lesser height than the Tower House.
84B	Newbay	FTH	-----		Shows attached structure with gabled roof, the Tower House roof being battlemented.
86	Johnstown	FTH	-----		Attached gabled structure.
88	Hellens	FTH	-----		Attached structure of half the height of the Tower House.
112	Mulrankin	BGY	"hall and large bawn"		----- (nothing shown)
113	Tagannan	FTH	-----		Shown with attached "hall"
123	Ballyhire	FTH	-----		Shown with attached "hall"
130	Churchtown	FTH	-----		Attached "hall" shown.
132	Tacumshin	FTH	-----		Shown with attached "hall"
135	Cas. Palliser	FTH	-----		shown with attached gabled structure.
137	Castletown	FTH	-----		Attached structure shown.

Table 5.9

Weirs as recorded in Civil and Down Surveys.

No.	Name	BNY	C.S. Note		D.S. Representation
5	Borresh	SWH	meare (sic) upon a small brooke.		----
7A	Ferns	SWH	2 weares upon the r. slane + 2 others with the "Abbey" in that parish		----
10A	Monart	SWH	and a weare	R	----
11B	Tomnemaghtiry	SWH	a mill and weare upon a small river	R	Shown near a bridge.
32A	Macmine	SRE	...and weare		----
35	Stokestown	BTY	weare		----
41A	Ballyshannon	SRE	and weare	R	----
46A	Growtown	SRE	and weare		----
62	Dunbrody	SBN	weare		----
69A	Taghmon	SRE	hath a weare	R	----
90A	Nuge	SBN	weare		----
92	Ballyhack	SBN	is out of repair weare	R	----
96-9	Clonmines	SBN	weare	R	----
---	Ardnacrush parish	SRE	"in each a castle and weare"		----
---	Clonmon parish	SRE			

↑
"R" denotes that it was listed as "Ruin" at the time of the Civil Survey (1654).



Plate 5.10

Dovecote in gable - Clougheast Castle.



Plate 5.11

Carved head - Ballyhack.

Table 6.1

Defensive Features

Castle #	Batter/ Talus	Murder hole	Machicolis/ Bartizan	Vault	Fosse/ Moat	Other.	Factor.
5.	B/T	√	-	√	√		4-5
19.	B	√	Bz	-	-		3-5
20.	B/T	-	-	√	-		2-5
25.	B/T	-	-	-	-		1-4
31.	B/T	-	-	√	-		1-5
32A.	B/T	P	-	√	-		2-5
33A.	B/T	√	-	√	-		3-5
35.	B	-	-	-	-		1-3
40.	B/T	√	M	√	-		4-5
41.	B/T	-	-	√	-		2-5
42.	B/T	√	-	√	P		4-5
53.	B/T	√	M	√	-		4-5
54.	B/T	√	M	√	-		4-5
56B.	B/T	√	-	√	-		3-5
58/1.	B/T	-	M	√	-		3-5
64.	B	-	P	-	P		3-5
65.	B/T	√	-	√	-		3-5
66.	B/T	-	-	-	-		1-5
69.	B/T	0	-	√	-		2-4
69A.	B/T	P	M/2xBz	√	P		5-5
70.	B/T	√	-	√	P		4-5
71.	B	√	-	√	-		3-5
73.	B	-	-	√	-		2-5
75.	B/T	√	Mx2	√	P		5-5
77.	B	-	-	√	-		2-5
78G.	-	√	-	√	-		2-5
81.	B	√	-	√	-		3-5
83.	B/T	-	-	√	P		3-5
87.	B/T	√	M	P	-		4-5
88.	B	√ x 2	M	√	-		4-5
89.	B/T	√	M	√	P		5-5
91.	B	√	M	√	-		4-5
92.	B/T	√	M/Bz	√	-		4-5
95.	B	√	M/Bz	0	-		3-4
97.	B/T	√	M	√	-		4-5
99.	B	0	M	√	-		3-4
100.	B/T	√	-	√	-		3-5
101.	B/T	√	M	√	-		4-5
104.	B/T	-	-	√	-		2-5
106.	B/T	0	M/Bz	-	P		3-4
107.	B/T	√	-	√	P		4-5
108A.	B/T	√	-	√	-		3-5
109.	B/T	-	-	√	-		2-5
110.	B/T	√	M	√	-		4-5

Castle #	Batter/ Talus	Murder hole	Machicolis/ Bartizan	Vault	Fosse/ Moat	Other.	Factor.
111A.	B/T	-	-	√ x 2	√		3-5
112.	B/T	√	-	√	P		4-5
114A.	B/T	√	M	√	-		4-5
115.	B	-	M/Bz	√	√		4-5
117.	B/T	0	M	√	-	Portcullis	4-5
120.	B/T	-	-	√	-		2-5
122.	B/T	√	-	√	-	Portcullis	4-5
124.	B/T	-	M	√	P		4-5
126.	B	√	M	√	P		5-5
128.	B/T	√	M	√	P		5-5
129.	B/T	√	-	√	P		4-5
130B.	B/T	-	M	√	-		3-5
133.	B	-	M/Bz	0	-		2-4
134.	B/T	√	M	√	-		4-5
136.	B/T	√	M	√	-	Portcullis	5-5
137.	B/T	√	-	√	-		3-5
138.	B	√ x 2	M	√ x 2	-		4-5

Code and Explanation of Table.

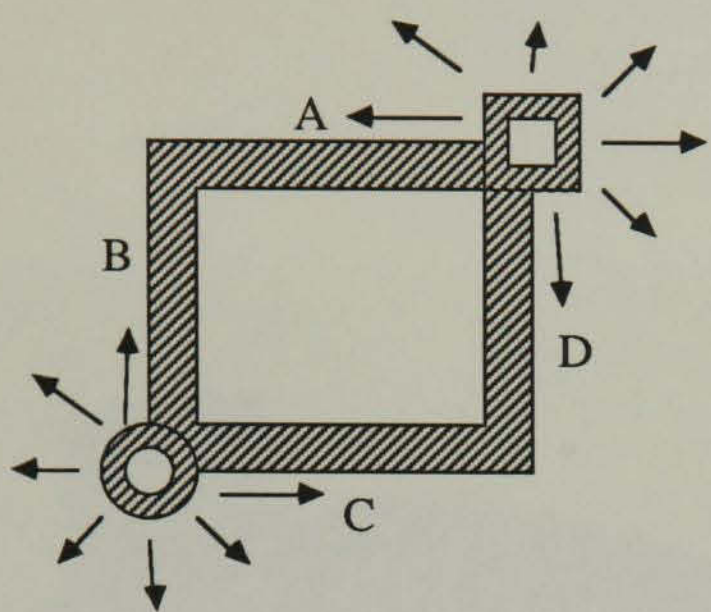
√	=	This feature is known to have been present.
0	=	This feature was not present.
B	=	Batter (was present)
T	=	Talus (was present)
B/T	=	Both Batter and talus were present.
x 2	=	There were two of this feature evident.
M	=	There was a machicolis in evidence.
Bz	=	A Bartizan was present.
P	=	There is reason to suspect that the feature was present but not enough evidence to confirm it beyond doubt.
-	=	Evidence was inconclusive as to the presence or absence of the feature.

This table excludes other defensive aspects, such as loops, gun-ports and battlements as virtually all castles would have had them anyway.

The **Factor** is a measure of how defensive the castle was / may have been, based on the presence of the features in question. The figure on the left indicates the number of defensive features which the castle was **known** to have had - this must be regarded as a minimum number. That on the right indicates the number of defensive features that may have been present. The measure for each castle therefore is out of 5. It will be seen that in almost all cases all features may have been present. In many cases most were in evidence. Cases where any of the features in question were **known** to be absent are few. Even in such cases it is usually only one feature which was absent.

Fig. 6.2

Principle of Flanking fire.



Illustrating how a tower with two Flankers can provide horizontal covering fire to all four faces from loops in flanking tower walls. Arrows show some possible directions of fire.

Schematic Sectional Plan.

Fig. 6.3

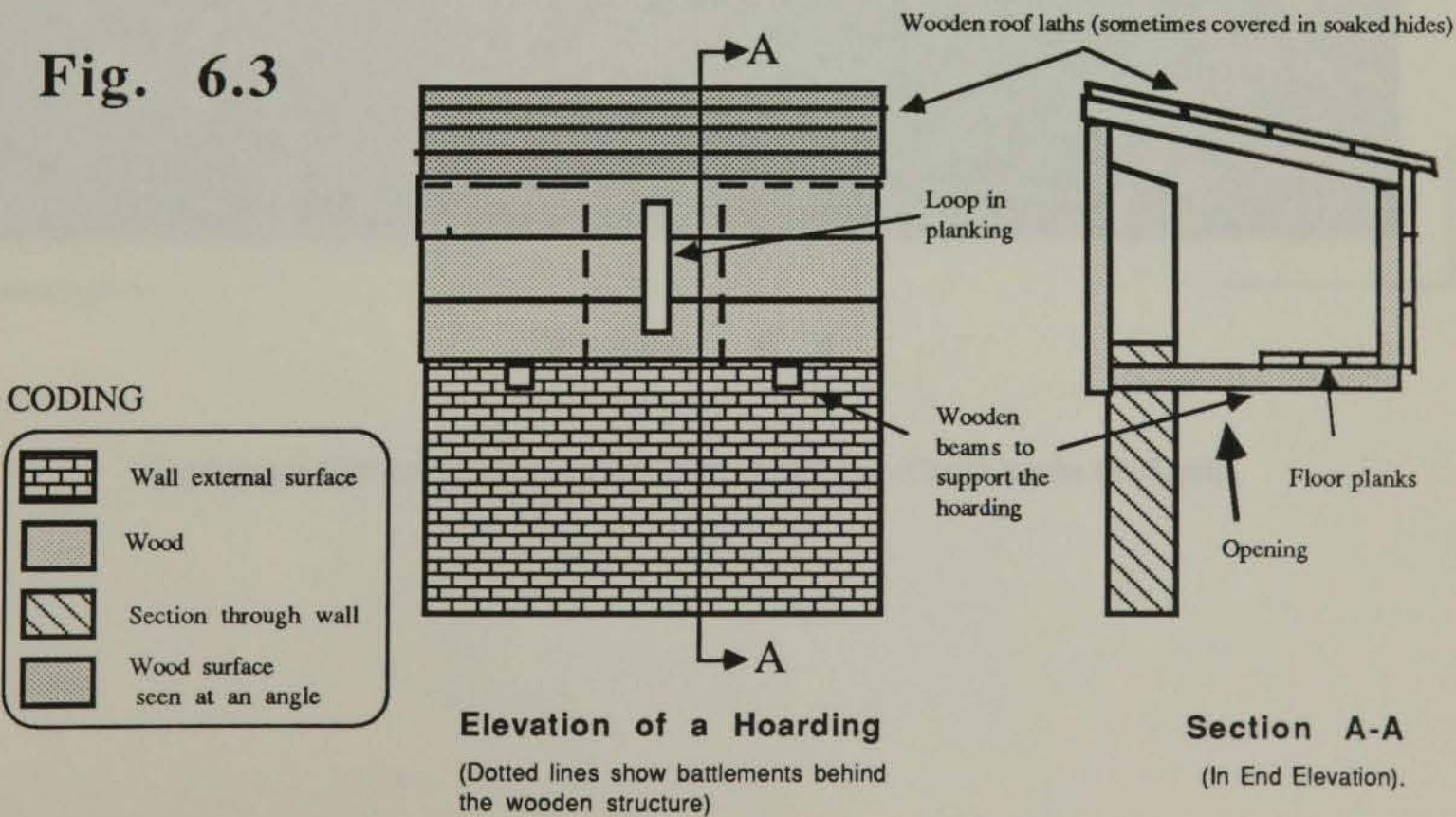




Plate 6.4

Battlements with put-log holes suitable for Hoarding, - Castle Roche Co. Louth.

Fig. 6.5

Schematic diagram of Machicolis.

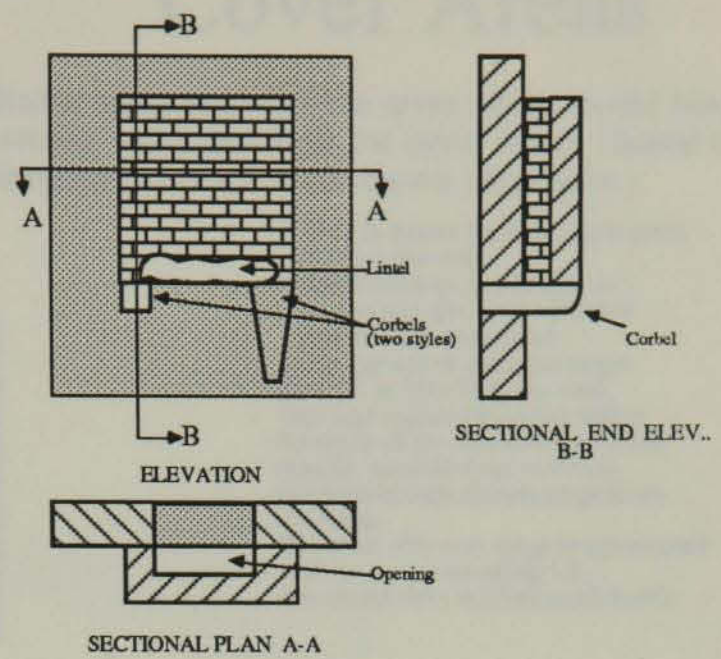


Fig. 6.6

Battlement Detail.

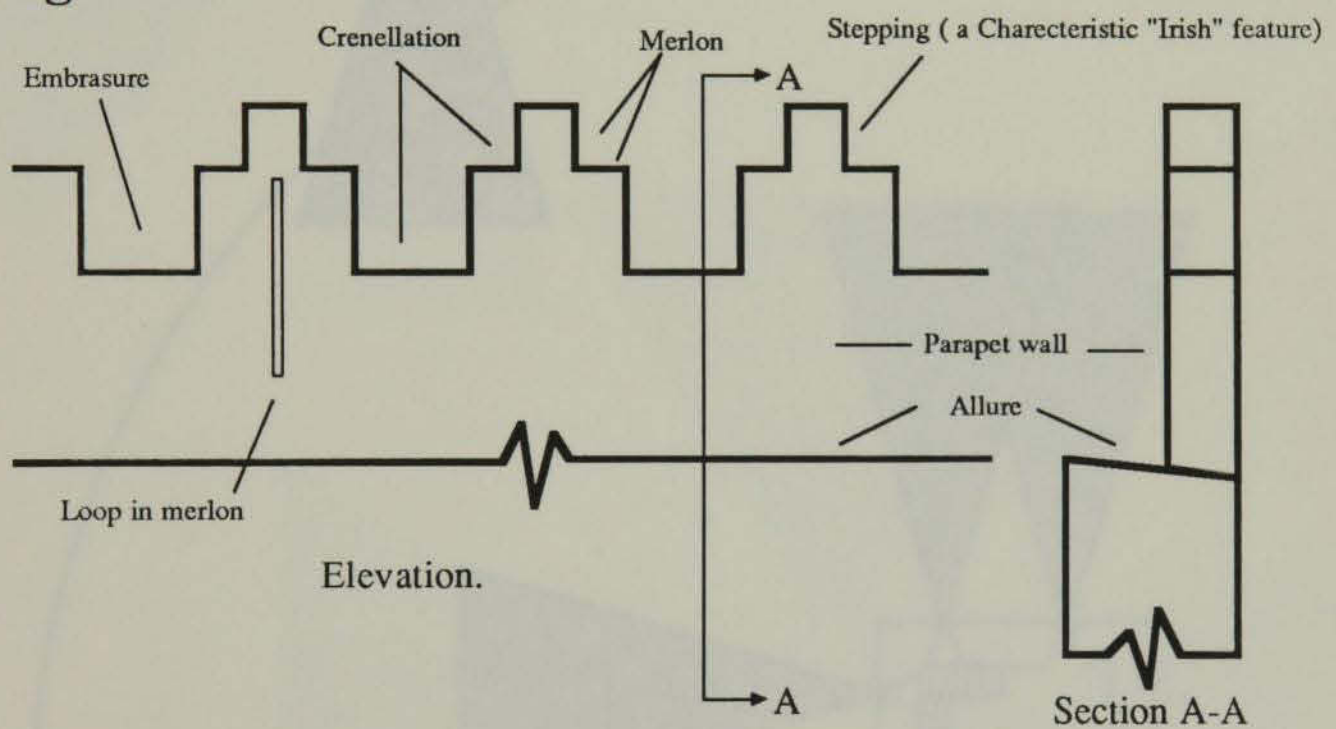


Fig. 6.7

Section through a loop

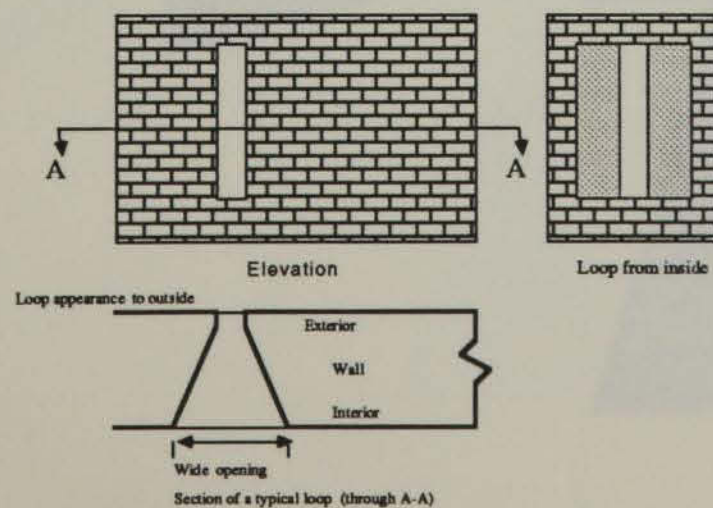
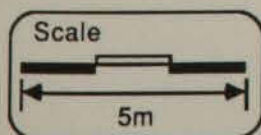
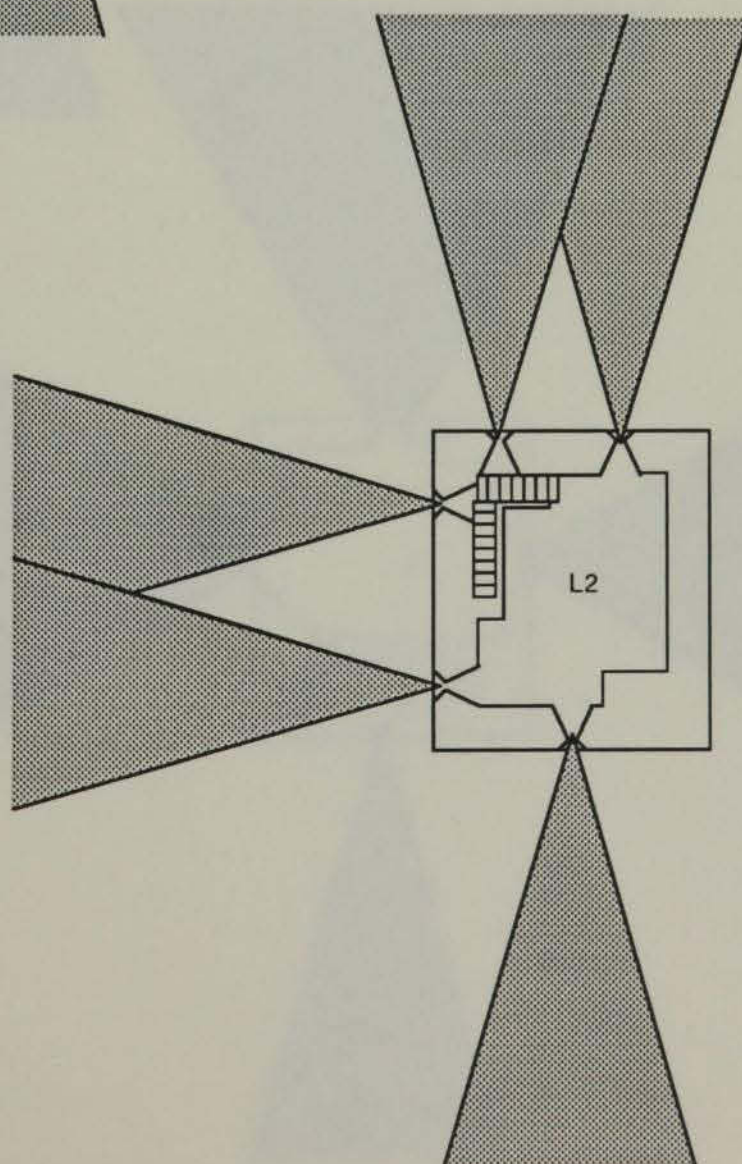
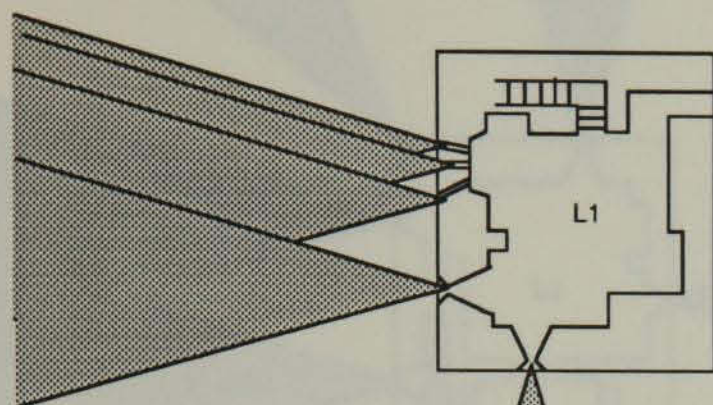


Fig. 6.8

Cover Areas

Shaded areas represent the areas which would have been covered - with crossbow (or small arms). (Based on Ferrycarrig.) (Each level shown separately.)

- Cover is shown for loops, gun ports and windows only.
- The battlements, machicolis etc. which would also have afforded cover are not represented.
- Assailant was at optimum target distance at 18m from the wall.
- One was vulnerable to fire within the angle of the shaded areas, these may be continued out to two to three times their shown range from the walls.
- The most effective range is represented with an arc surrounding L2, - this would have applied to, all levels.



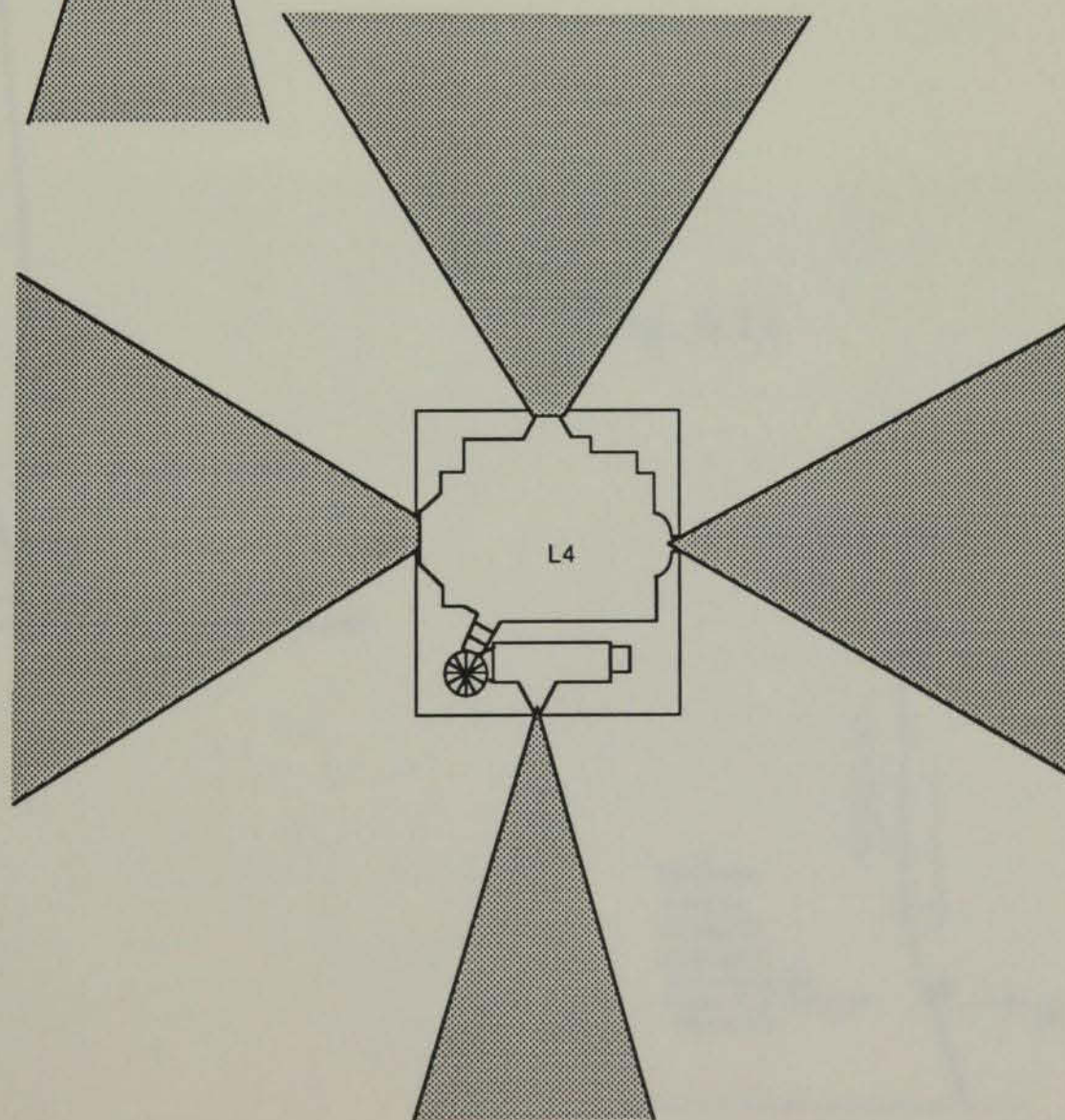
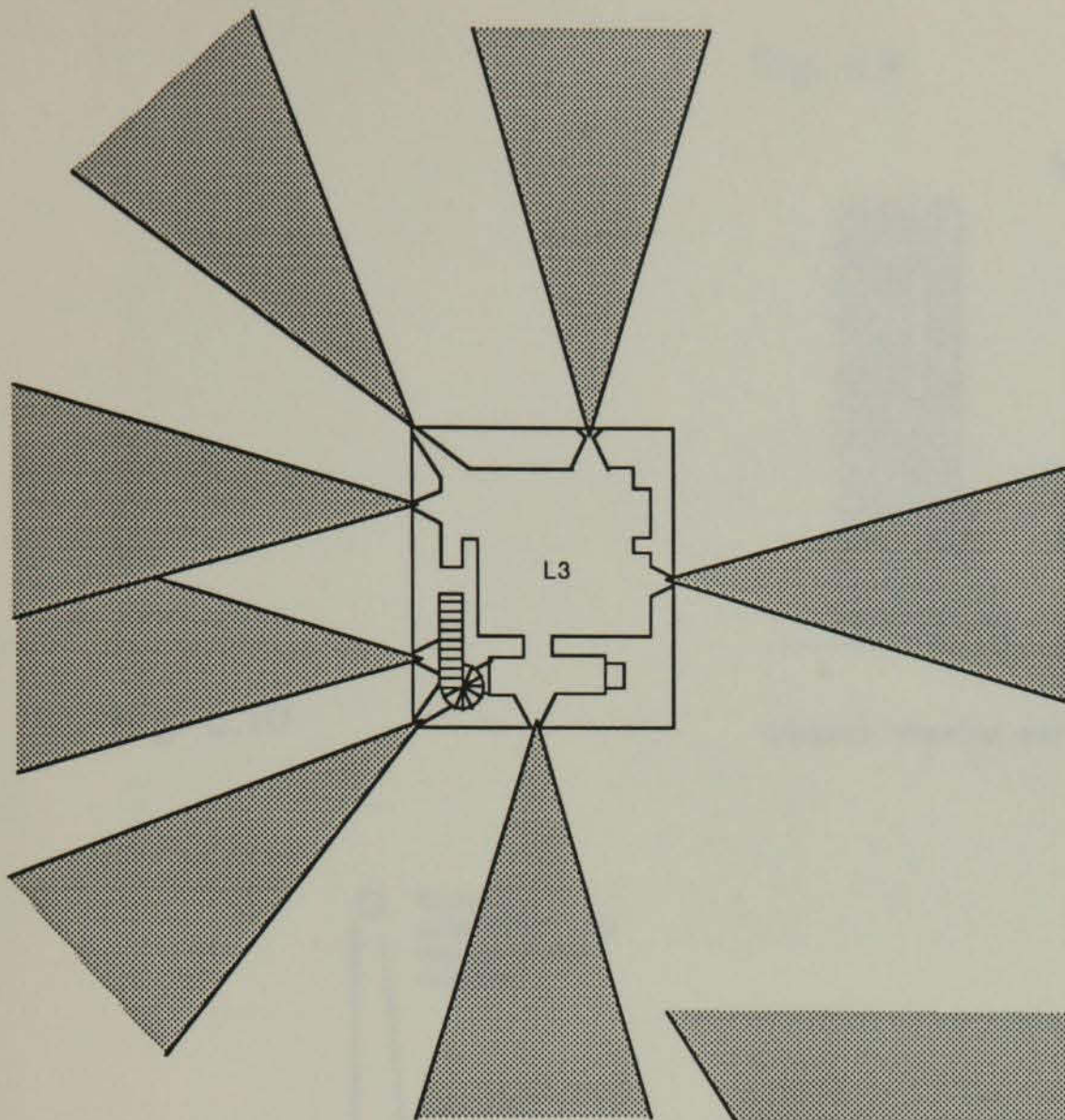


Fig. 6.9

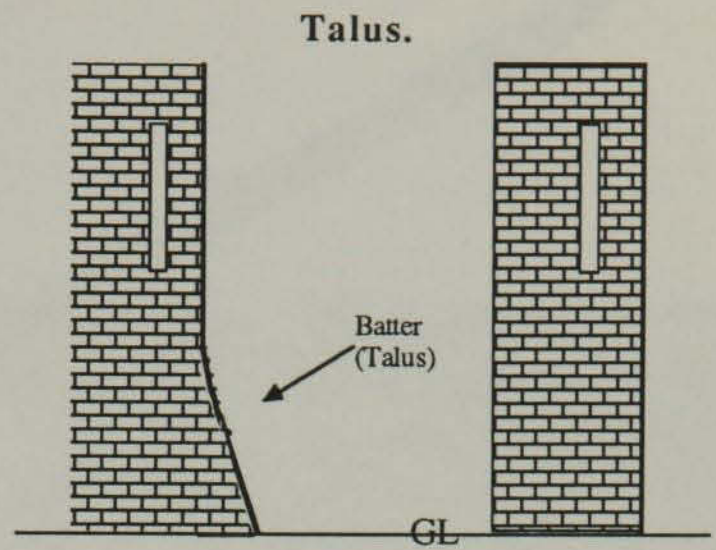


Diagram showing wall face with and without Talus

Fig. 6.10

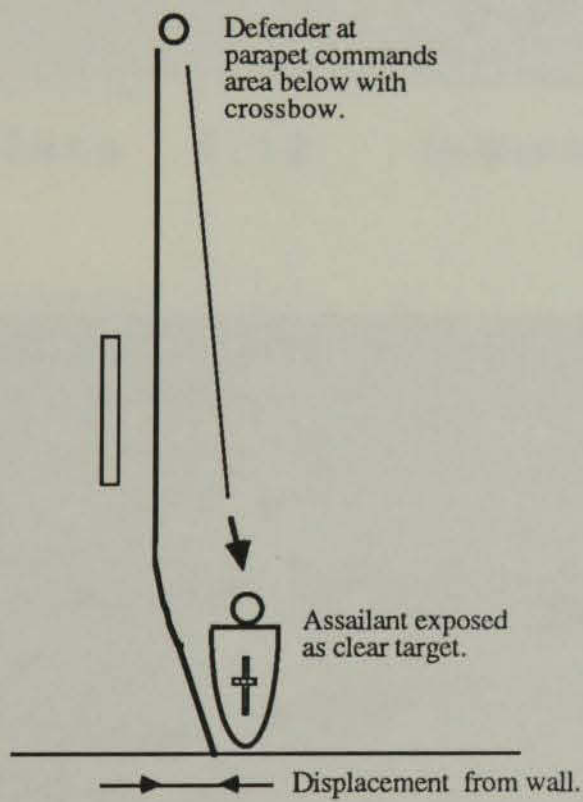


Fig. 6.11

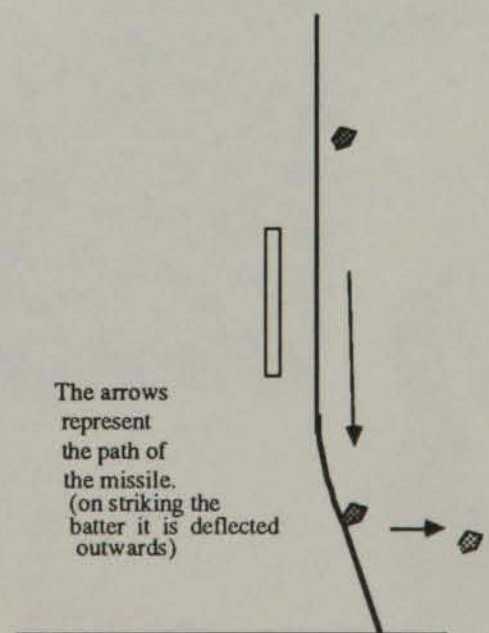


Diagram showing possible missile deflection from the batter / talus..



Plate 6.12 Medieval Sword. (Copyright National Museum of Ireland.)



Plate 6.14
Cannon. (A "Falcon" - firing a 2.6 lb shot.) [Photo by permission - Nat. Museum Irl.]



Plate 6.14a

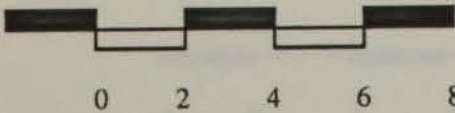
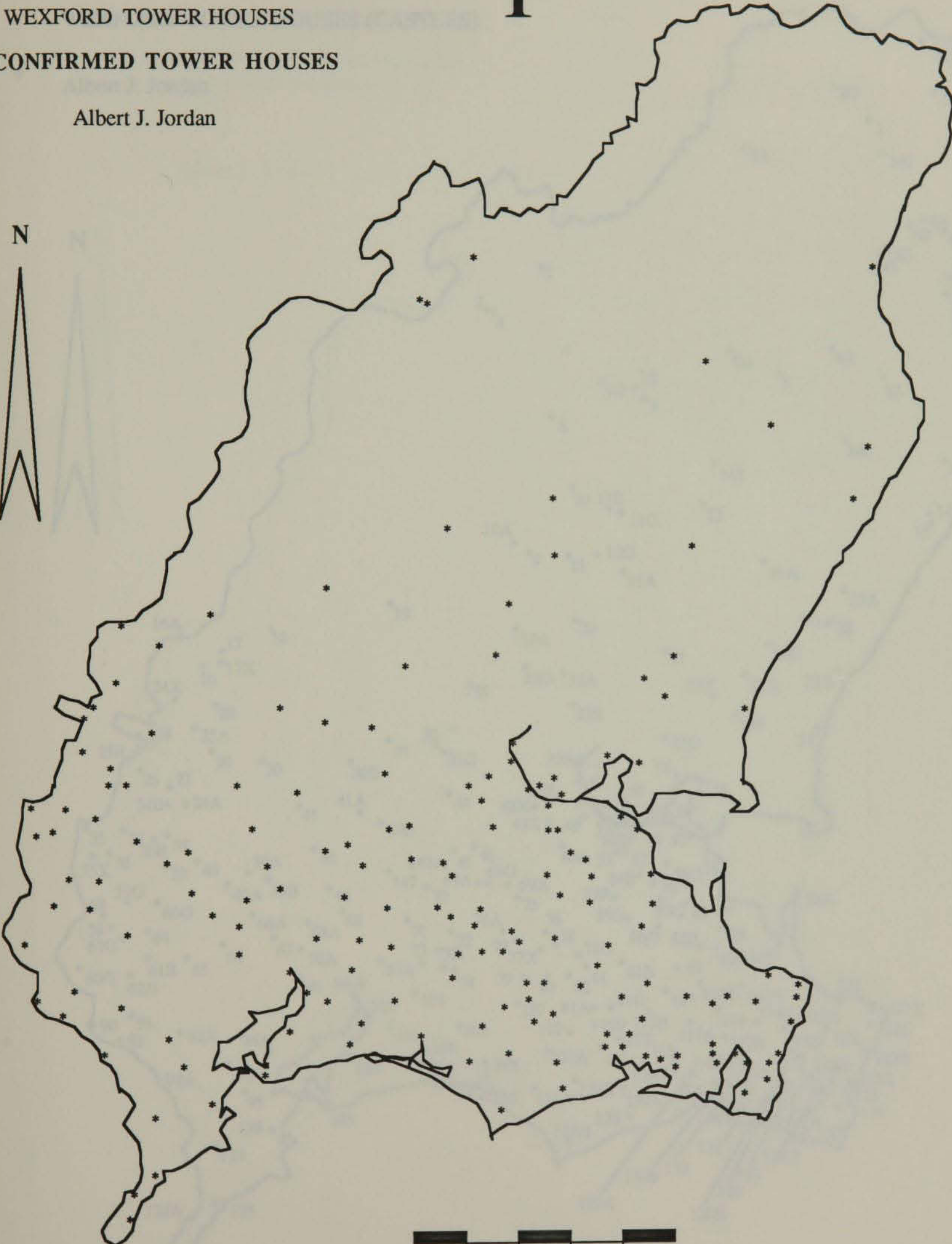
A "Falcon" - Cannon firing a shot weighing 2.6 lbs - based on bore diameter.

1

WEXFORD TOWER HOUSES

CONFIRMED TOWER HOUSES

Albert J. Jordan



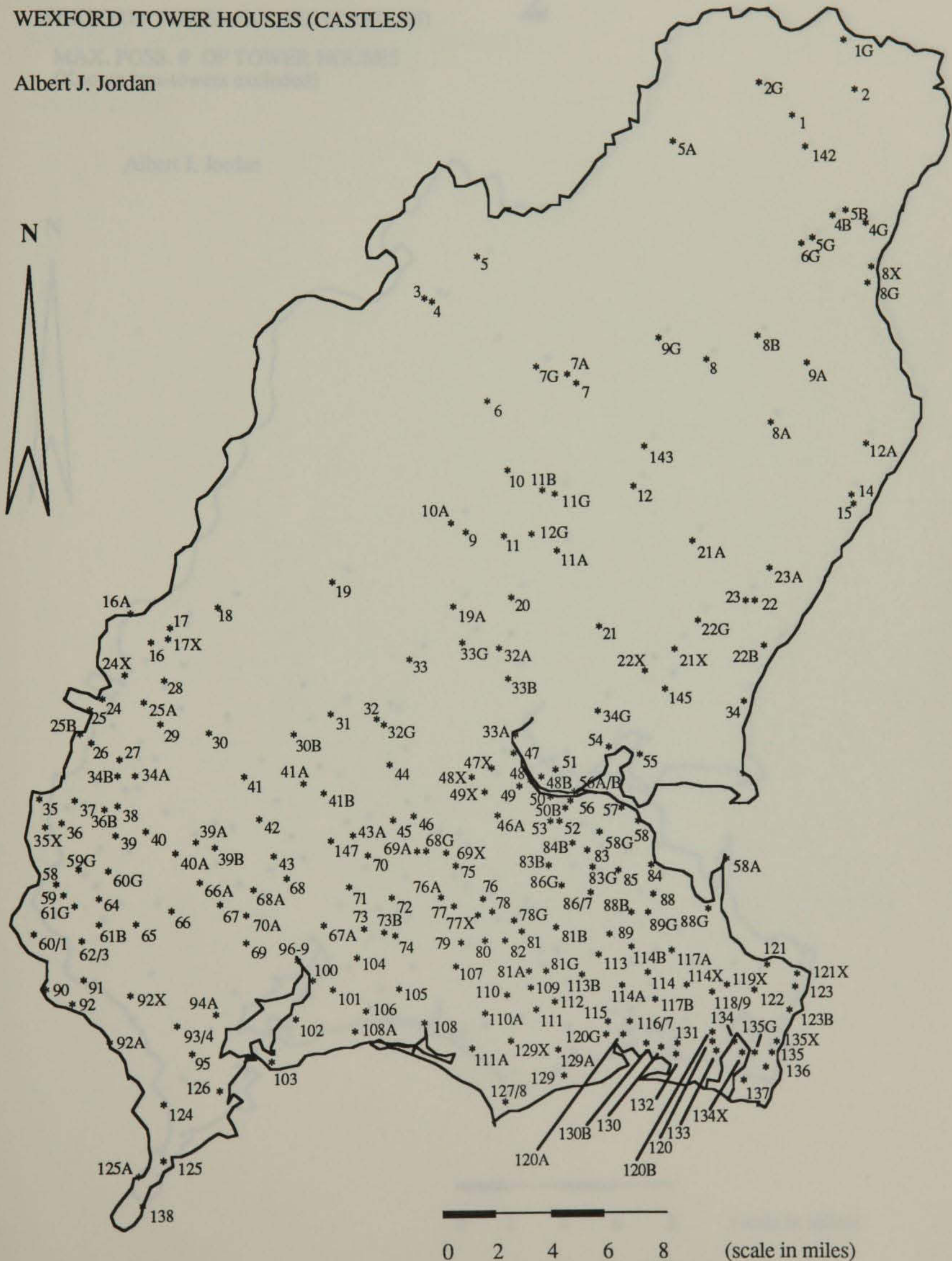
(scale in miles)

For identification of sites see "Map #" - overleaf.

Map

WEXFORD TOWER HOUSES (CASTLES)

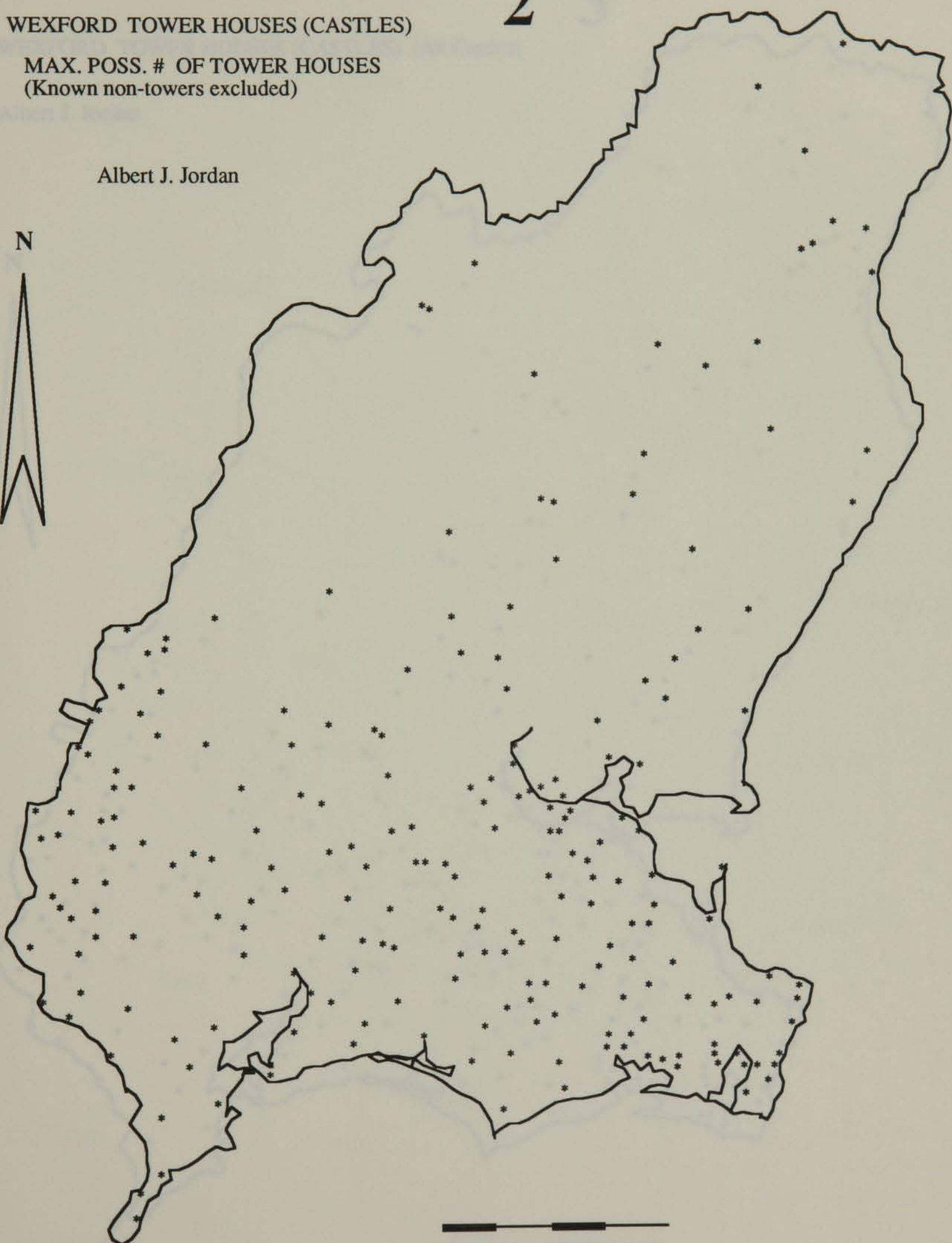
Albert J. Jordan



WEXFORD TOWER HOUSES (CASTLES)

MAX. POSS. # OF TOWER HOUSES
(Known non-towers excluded)

Albert J. Jordan



0 2 4 6 8 (scale in miles)

For identification of sites see Map #

WEXFORD TOWER HOUSES (CASTLES) (All Castles)

Albert J. Jordan



0 2 4 6 8 (scale in miles)

For identification of castles / sites see Map #

WEXFORD TOWER HOUSES (CASTLES)

Baronies (shown with max. located tower houses)

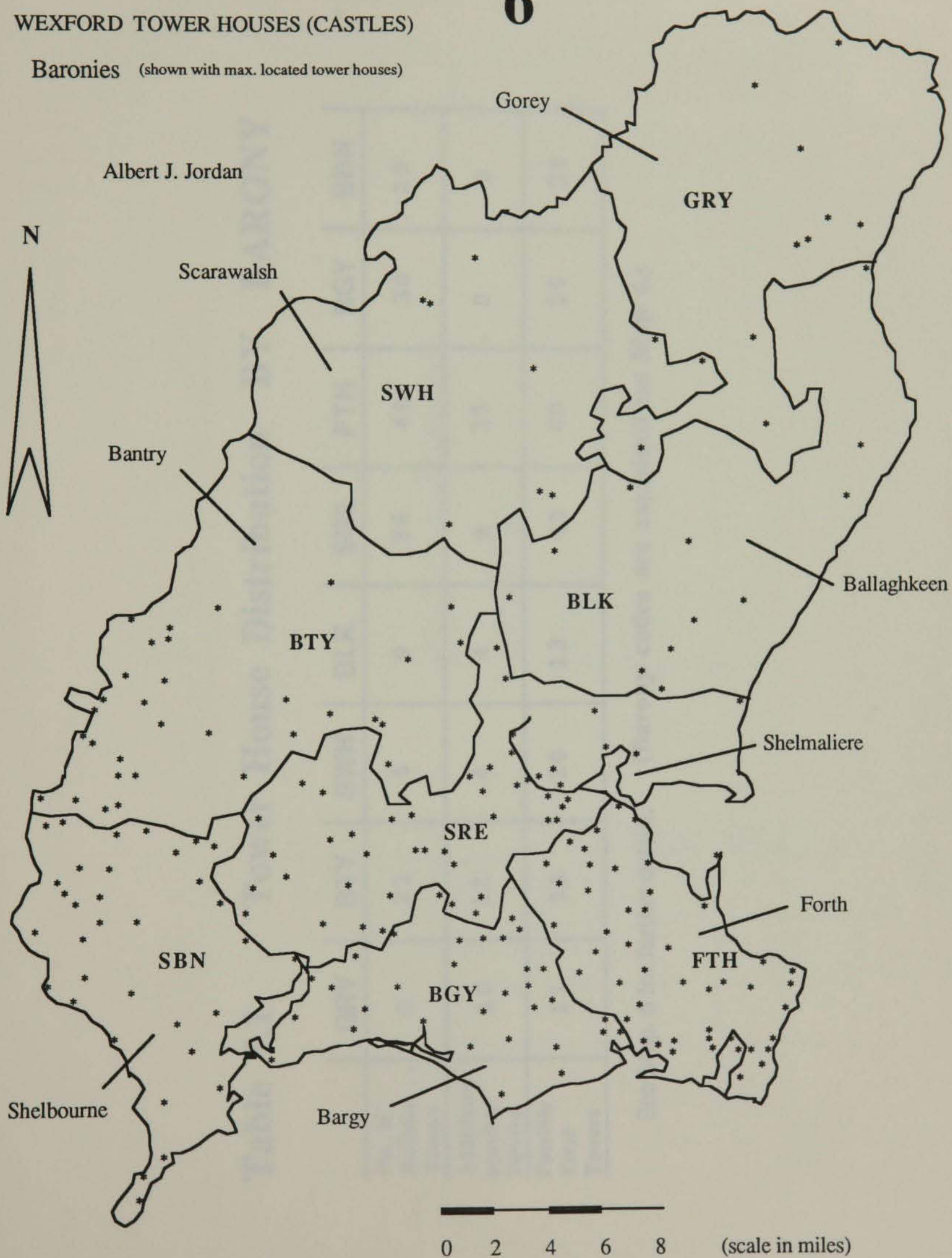


Table 7.1 Tower House Distribution BY BARONY

	GRY	BTY	SWH	BLK	SRE	FTH	BGY	SBN
No. of Definite Towers	1	21	6	9	36	49	30	29
Additional possible Towers	10	12	4	4	9	11	0	9
Possible Total Towers	11	33	10	13	45	60	30	38

See Map. 6 for further details. (Barony codes are explained on Map 6.)

Table 7.2 Ordnance Datum

Height above sea level (Ordnance datum).					
	0-100 O.D.	100-200	200-300	300-400	400-500
DEFINITE TOWER HOUSES	95 52.5% 79.6% < 200 O.D. 96.7% < 300 O.D.	49 27.1%	31 17.1%	6 3.3%	0 0%
POSSIBLE TOWER HOUSES	113 47.1%	70 29.2%	42 17.5%	14 5.8%	1 0.4%

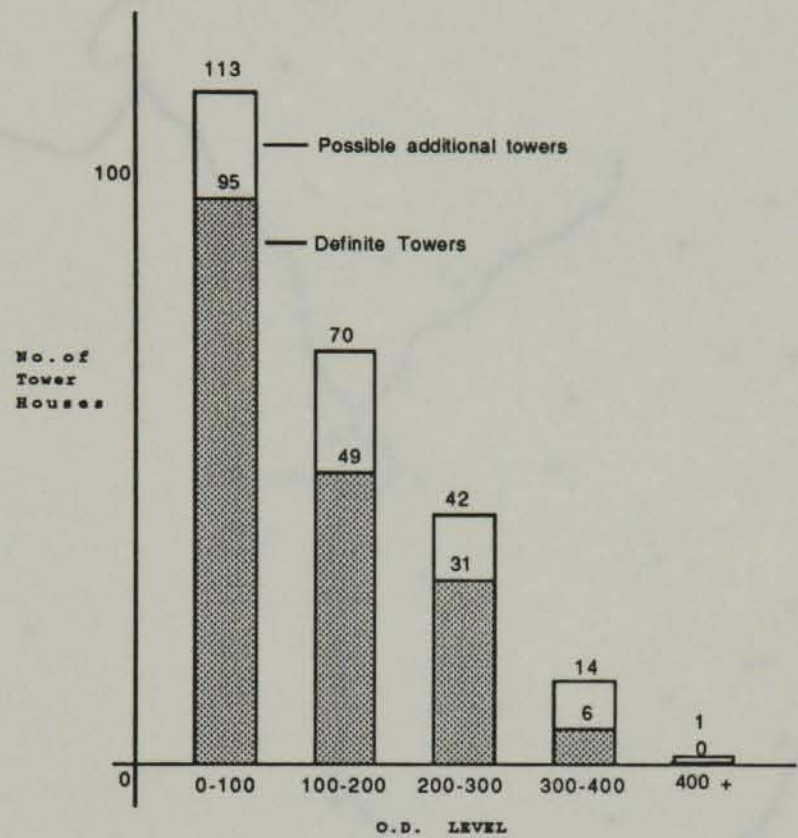


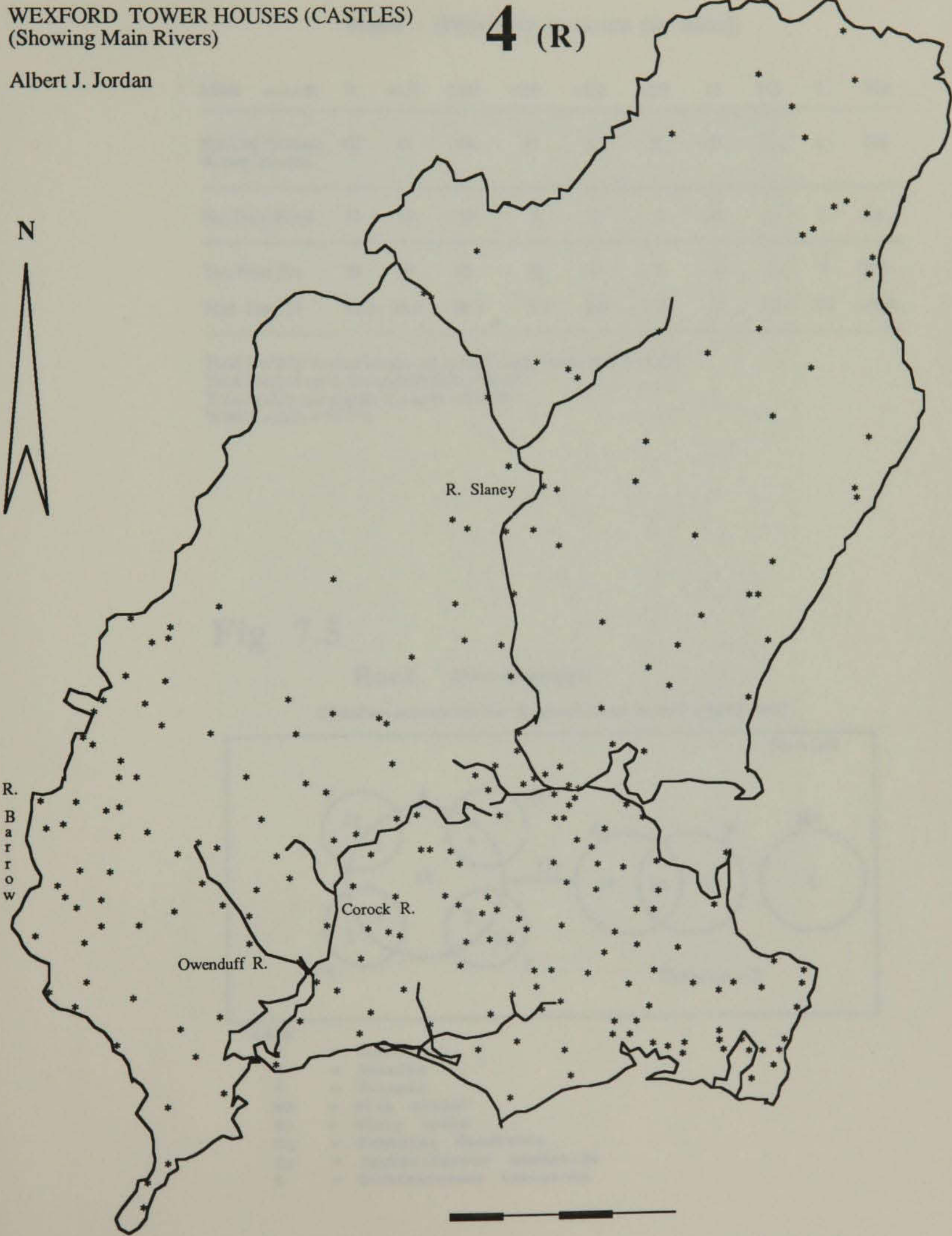
Table 7.3 Soils

Type #	Description	% of Co.	% of Def. Towers on	# Def. towers on	Poss. % Towers on	Note
1	Suitable for pasture and cultivation - "Wide use range" - "No serious limitations"	54.26	63.50	115	155	
2	"Moderate suitability" liable to periodic drought.	4.71	2.2	4	6	
3	"Moderate suitability" Natural drainage imperfect	0.62	1.65	3	3	
6	"Somewhat limited" poor natural drainage	18.10	24.30	44	54	
8	"Poor for cultivated crops moderate for pasture; Serious drainage problem.	9.02	1.10	2	6	Only in the West of the county.
15	"Variable" from slight to serious limitations.	5.08	7.18	13	16	
Totals.		100%	100%	181	240	

WEXFORD TOWER HOUSES (CASTLES)
(Showing Main Rivers)

Albert J. Jordan

4 (R)



0 2 4 6 8 (scale in miles)

For identification of sites see Map #

Table 7.4

Water - (Proximity to rivers [in miles])

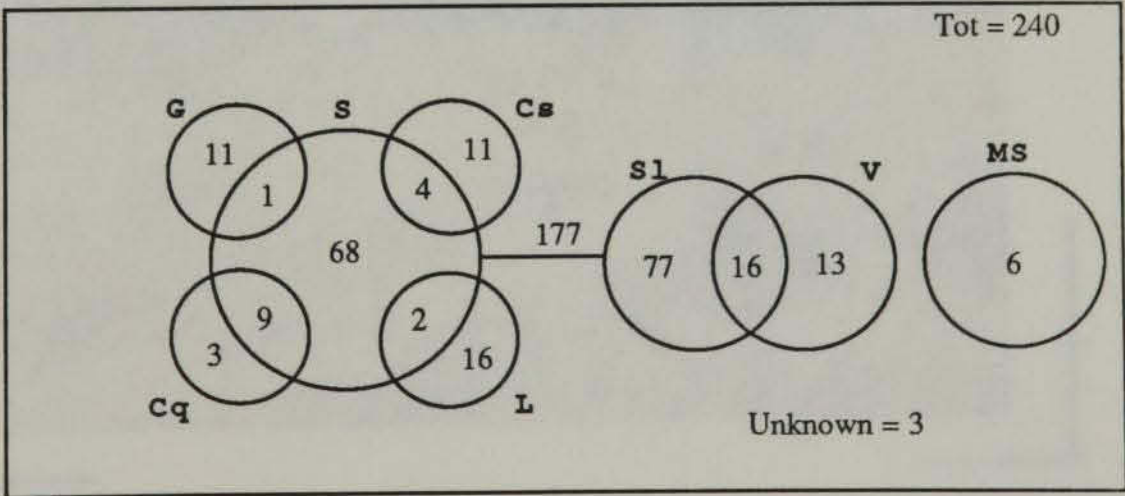
Miles →	0	c1/8	c1/4	c3/8	c1/2	c2/3	c1	1-2	?	Tot.
No. Def. Towers	62	41	48	15	5	2	0	2	6	181
% Def. Towers										
No. Poss. Extra	17	18	15	5	1	1	0	1	1	59
Tot. Poss. No	79	59	63	20	6	3	0	3	7	240
Max. Poss. %	33.0	24.6	26.3	8.3	2.5	1.2	0	1.2	2.9	100%

Total Definite towers located up to half a mile from river = 94.2%
Total located up to one quarter mile = 83.3%
Total within one eighth of a mile = 56.8%
Within a mile = 95.7%

Fig 7.5

Rock (Bedrock Geology)

(Numbers indicate the No. of castles found on each type of rock)



- CODE
- S = Slate
 - G = Granite
 - V = Volcaic
 - MS = Mica schist
 - Sl = Slaty rocks
 - Cq = Cambrian Quartzite
 - Cs = Carbiniferous Sandstone
 - L = Carbiniferous Limestone



Plate 7.6

Mountgarrett Castle.

WINDFORD TOWER HOLMES & CASTLE
(Showing "Pill Castle")

Albert J. Jordan



Plate 7.7

Ferrycarrig Castle.

WEXFORD TOWER HOUSES (CASTLES)
(Showing "Pill Castles")

Albert J. Jordan

5 (P)



- Confirmed "Pill" Castles
- Probable "Pill" Castles

0 2 4 6 8 (scale in miles)

For castle / site identification see "Map #"

WEXFORD TOWER HOUSES (CASTLES)

Map **O**

Occupants

Albert J. Jordan



CODE

†	Held of the King	*	Roche
▲	"Gaelic" Irish	+	Furlong
✱	Cheevers	✱	Hore
✱	Brownes	✱	Sutton
◇	Devereux	✱	Synnott

For identification of castles other than those belonging to these occupants see "Map #"



Plate 9.1

"Structure A" - Danes Castle.



Plate 9.2

"Structure B" - Clougheast Castle.



Plate 9.3

Ballinkeel "Castle".



Plate 9.4

Coolhull Castle.

Documentary Chronology (Time Line)

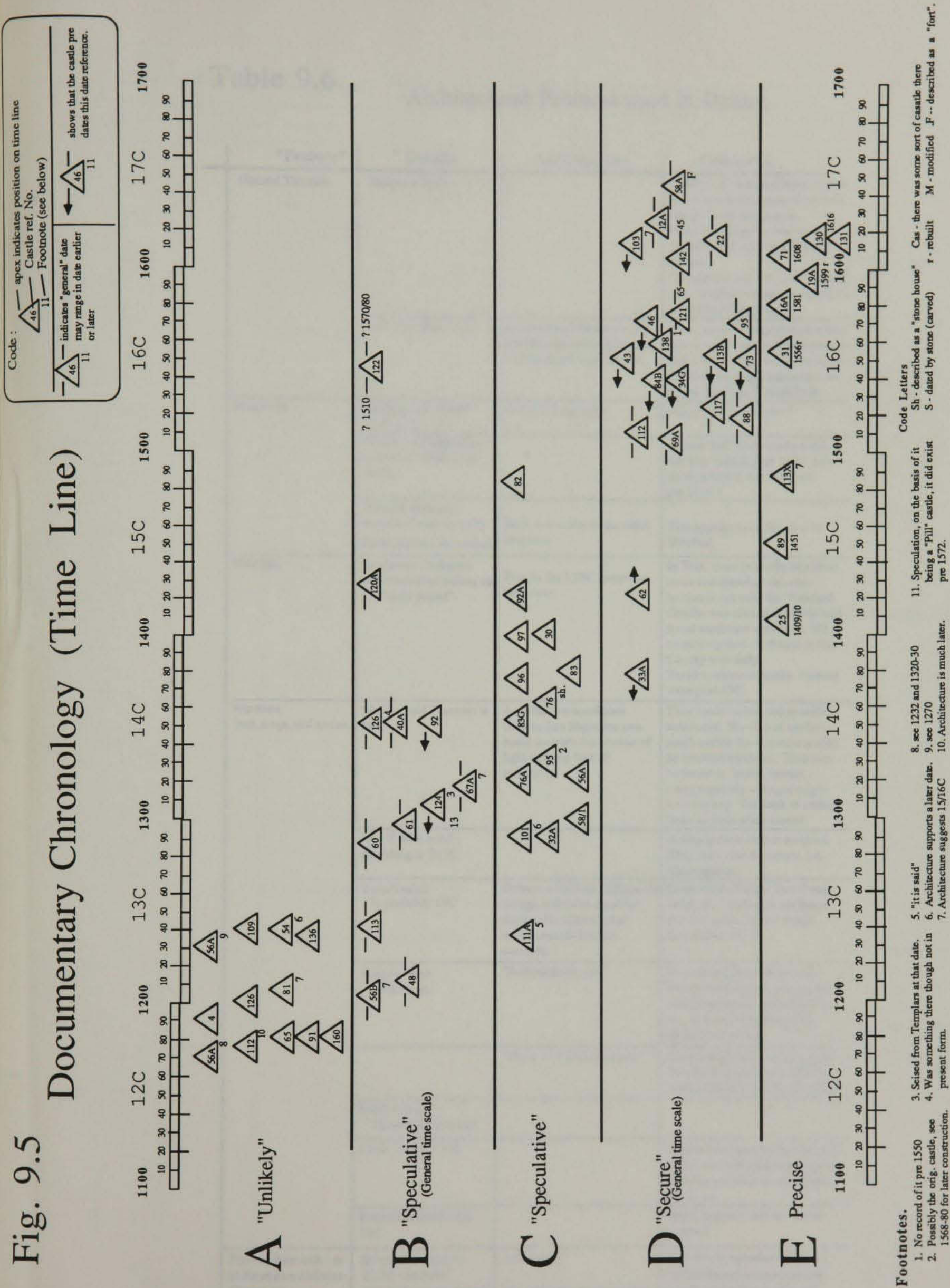


Table 9.6

Architectural Features used in Dating.

"Feature"	Details	Assumptions	Comment.
General Theories	Simple = Early		Absence of vault and batter makes the structure simpler and yet both are relatively late in date. Plank centering too was more complex and yet it is an "early" feature. Complexity and simplicity would more properly be seen as functions of wealth / resources.
	Less defensible = Late	As conditions become more peaceful one could give ones comfort needs a preference.	Some areas were more secure than others, and therefore less defensive features i.e. larger windows might be used, we might attribute it to a later date than it actually is.
Woodwork	Wallplate introduced 1475-1575	Continued thereafter	Why not in use earlier ?
	"Beam - wallplate construction" 1430-1600 only.		A "rounded" date - surely it did not stop suddenly @ 1600, how do we know it was not used pre 1430 ?
	"Double floor construction" runs to 1475. Built in joists are earlier.	Both dont occur in the same structure.	This appears to be the case in Wexford.
Materials	Sandstone cut frames and trimmings belong to the "early period".	That in the L13C limestone took over.	In Wex. there is hardly any limestone and therefore this contention is not valid for Wexford. Granite was always available, and it and sandstone were used. We cannot say that sandstone in this County was early. Besides, all/most castles / towers were post 13C.
Windows incl. loops and arches.	Mullion and Transom is late.	As defensive conditions became less important one could increase the amount of light without fear of insecurity	They could be inserted in earlier structures. We cannot say how much earlier the structure is than its inserted windows. They can be found in "early" towers. being regularly arranged might hold the key. Difficult to arrange them as such when inserts.
	M + T with hood - moulding is E17C		A very general date is assigned. They may also be inserts, i.e. Mountgarrett.
	Twin-Trefoil Is probably 15C	Perhaps a little less defensible though still quite securely shutterable allows some move towards internal comforts	Does it then follow that if only loops and small opes are found that the castle / tower would date to pre 15C ?
	Cusped Ogee a 15C type.	"Rathmacknee type"	If based only on one securely dated castle, can we assume that such features are typical of that era, or even if the date of the structure is correct.
		"Many 15 / 16C examples"	Once a style is introduced it can be copied at any later date and even inserted in earlier structures.
	Pointed Arch "all castles, all dates"		
	Cross Loops = 14C		Need not necessarily be true of all areas - as most Wex towers post-date this period it is not of great use to us.
	Round Headed Loops = 16C		Might they not sometimes be inserts ?
Pointed door arch - as at Newbawn / Mount-Garrett etc.	Seems to belong to E15C - as these structures are reasonably securely dated to that period.	A fashion ? The work of a contemporary team of masons ?	Could be the product of a later workshop and inserted later to conform to a fasion. But this is not apparent from the evidence.

Table 9.7

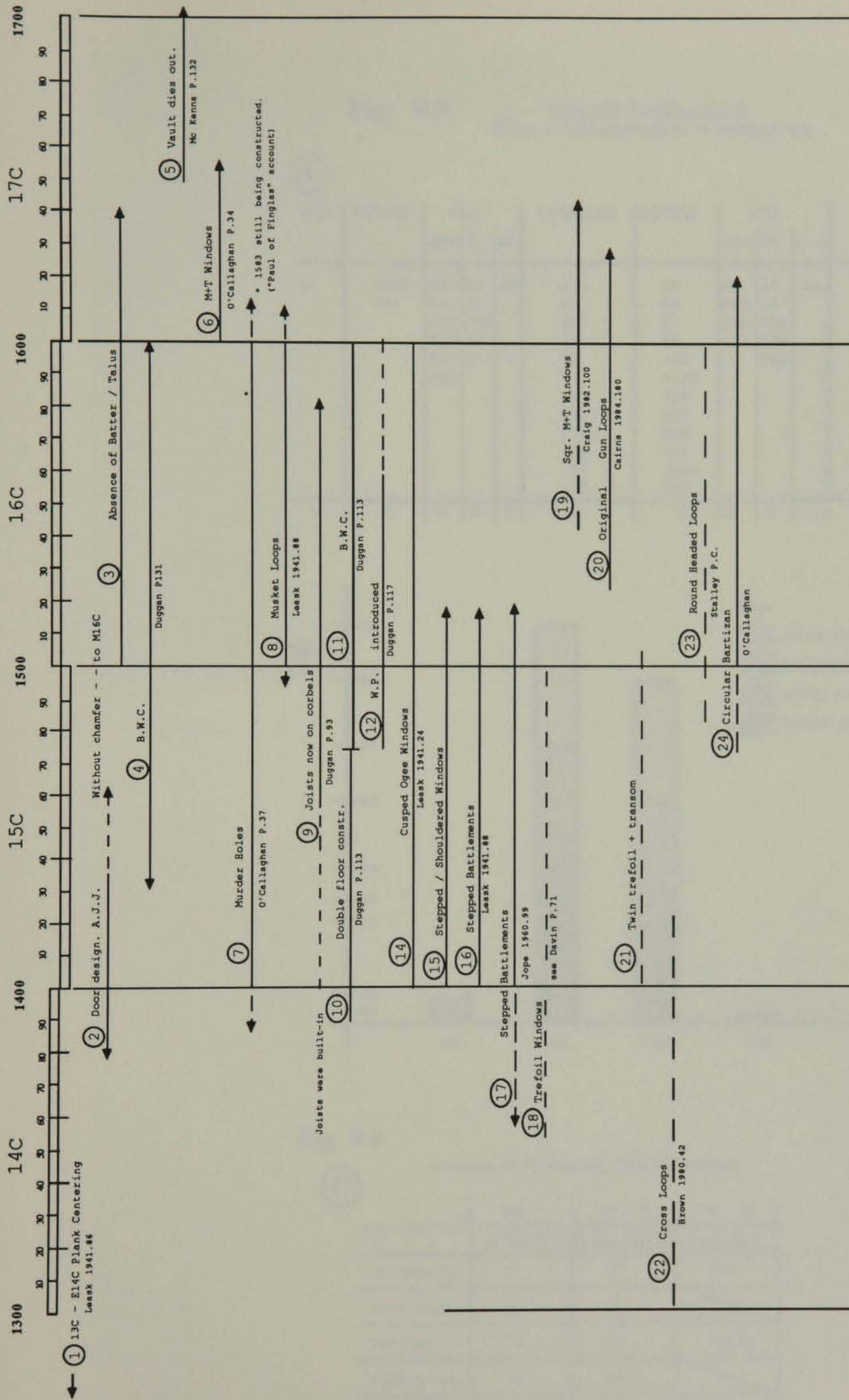
Architectural suggested dates for individual castles.

Cas.#	Suggested Date	Based on supposition / Feature #.	Comment	Cas.#	Suggested Date	Based on supposition / Feature #.	Comment
5	E (early)	9		112	L15/E16C	14 16 7 11/12	
25	E15C	10 2 6	The doorway and the possible double floor perhaps hint at a date in the E15C. But the absence of vault and M+T windows argue for a later date. The M+T's however appear to be a later insertion.	129	15/16C	21 7	
31	M16C	8/20 23 11/12	Might be insertions. Look to be original Poss. L15C	56A	15C	22 8 7 11/12	Very difficult to insert later on - because at corners, though they may be copies. Pt. #8 appear to be inserts.
35	L17C	5 6 19	Also thin walls, but because of modern modifications it is difficult to tell; certainly the relatively large rectangular windows were enlarged at a relatively late date - post constr.				Could almost fit anywhere L14-16C as it has a broad range of features.
40	15/16C	7 10	Might have had a double floor.	89	15C	24 14 16/17 7 11/12	Could of course be inserts.
41	14C	22	Might be an insert or copy. Little other architectural pointers.	114A	15/16C	18 19 7	
42	E15C	2 9		115	16C	24	
64	L15/E16C	11/12 19	Might be inserts.	116/7	L15/16C	23 11/12	
65	15C	7 9 18		122	L15/E16C	7 11/12	
91	L15/E16C	7 11/12		130B	14/15C	22 7	Inaccessible so internal features not taken into account.
92	L15/E16C	11/12 7 14 24		133	16C	24 19 16 5 8/20 11/12	Definitely late.
53	L15/E16C	11/12 7		134	15/16C	22 19 7 11/12	
54	15/16C	7 2		137	15/16C	7	Not many features; vague date.
87	15/16C	7 16	Often added later to many structures.	33A	15/16C	19 7	Could be inserts.
88	L15/E16C	14 16 10 7		73	M16C	24 19	
58	L15/E16C	11/12		95	L16C	7 27 19	
45	16C	8		97	E15C	10 7	
69A	16C	19 24	Inaccessible so all factors could not be assessed.	100	15C	2 7	
70	E15C	7 9		101	15/16C	7	
71	L15/16C	7 11/12	Extensive modifications make it difficult to assess.	106	16C	24 2 16/17	This however appears to be a copy of earlier door style.
75	L15/16C	7 11/12 8	Prob. L15C because of musket loops and the BWC	108A	L15/16C	7 11/12	Window modifications.
78G	E15C	7 9		124	14/15C	17 1 14 18 11/12	Might be later.
81	15C	7 9 11/12 25		126	M16C	7 14 11/12	
107	15C	7 10		136	15/16C	23 16/17 19 7 11/12	
110	L15/16C	17 7 11/12		138	M16C	16/17 11/12 7	

Code:- C = Century
E = Early
M = Middle
L = Late

Fig. 9.8

Architectural Guidelines of Chronology



Code

(22) Feature reference Number

— Period for which this feature is believed to have been in use.

→ Probable extension of period (unknown timespan) in indicated directions

--- Likely periods of use or extensions of "accepted" use range

Fig. 9.9 General Architectural Date / Chronological Conclusions.

(A)

14C	14/15C	15C			L15/E16C	15/16C	16C			17C
		Gnl.	E.	M.			Gnl.	M.	L.	
41	130B 124	65	42	89	64	40	45	31	95	35
		81	70		91	54	69A	73		
		107	78G		92	87	115	106		
		56A	97		53	58	133	126		
		99	25		88	129		138		
		100			71	114A				
					75	134				
					110	137				
					112	33A				
					128	101				
					117	108A				
					122	136				
1	2	6	5	1	12	12	4	5	1	1

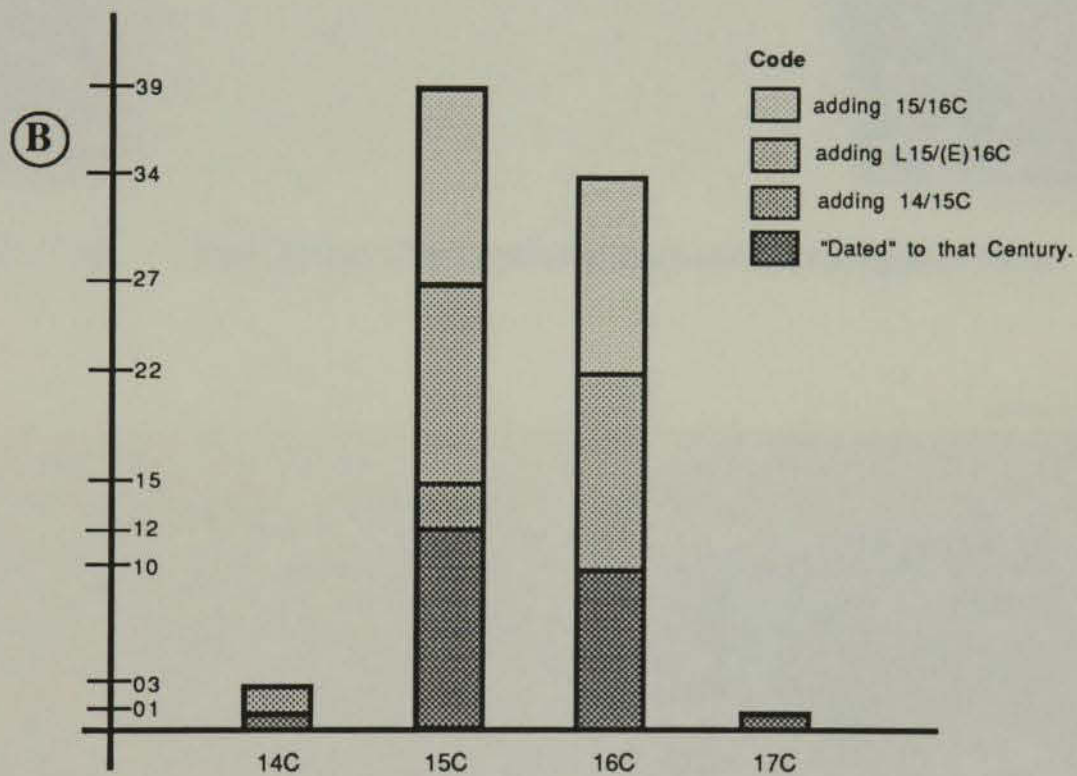


Fig. 9.9 Summary of Architectural Date Conclusions

(C)

	Col. I	Col. II	Col. III
	# (Number)	% (percentage)	Combined %
14th Century	1	2	2-6
14/15 Cent.	2	4	
15th Cent.	12	24	24-72
L15/E16 Cen.	12	24	
15/16 Cent.	12	24	
16th Cent.	10	20	10-68
17th Cent.	1	2	
Totals	50	100	



Plate 9.10 "Shoe" from a sword scabbard, discovered at Clougheast Castle.



Plate 9.11 Sample which was dendrochronologically dated,- from Fethard Castle.

Fig. 9.12

The Tower House as seen in the Chronology of the Irish Castle

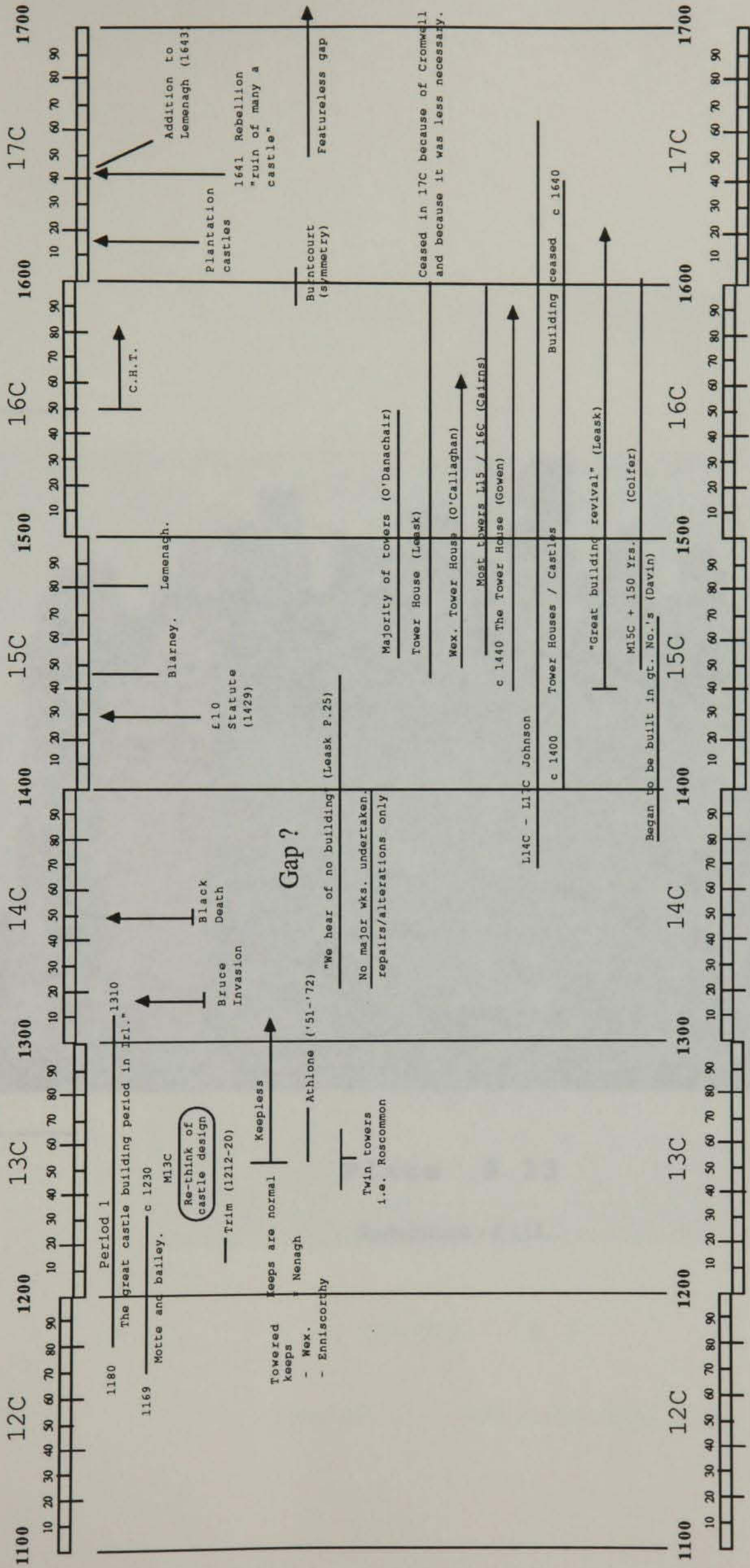




Plate 9.13

Rathshillane - # 133.



Plate 10.1

Tower split in two - Baldwinstown - #110.



Plate 10.2

Ivy cover, - Mulrankin - # 112, (see also Plate 7.6).

Fig. 10.3

Destruction Curve based on sample of 83 castles.
(With a conjectural projection of total destruction.)

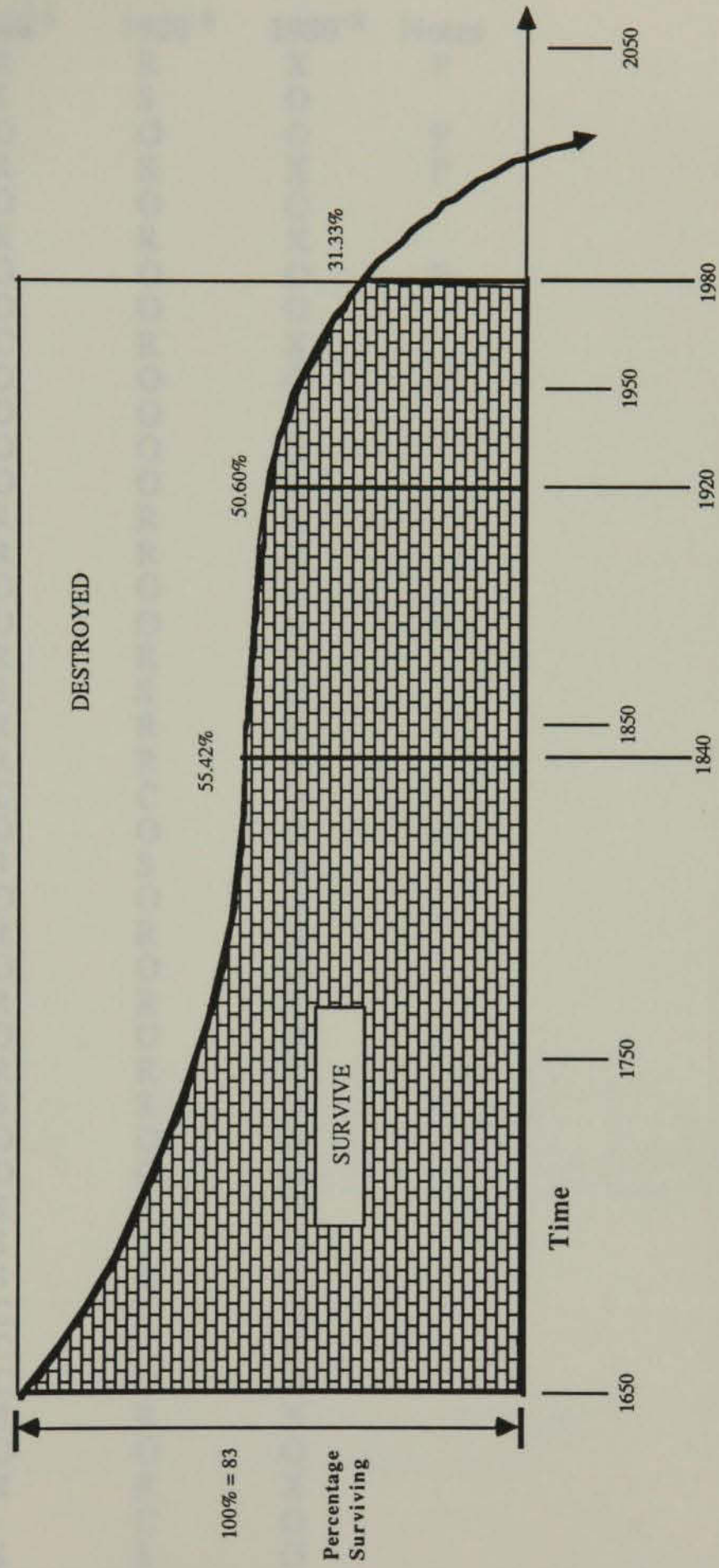


Table 10.3a Changing Status of Individual Castles 1650`s-1980`s

Col.1	Col.2	Col.3	Col.4	Col.5	Col.6
Castle No.	1650`s	1840`s	1920`s	1980`s	Notes
1	R	R	R	X	P
2	R	S	S	O	
2A	R	O	O	O	P
4	R	R	R	X	P
4A	C	O	O	O	
5	R	R	R	X	
5A	R	O	O	O	P
6A	C	O	O	O	
7A	C	C	R	X	
9A	R	O	O	O	P
10A	C	O	O	O	
11A	R	O	O	O	
11B	C	O	O	O	
19	C	R	R	X	
20	R	R	R	O	
21A	R	O	O	O	
23A	R	O	O	O	P
26	C	R	R	O	
30	C	S	S	O	
31	C	R	R	X	
33A	C	R	R	X	
35	C	C	C	O	
37	C	O	O	O	P
38	C	S	S	O	
39A	R	O	O	O	
40	C	R	R	O	
40A	C	O	O	O	
41	C	R	R	X	
41A	C	O	O	O	
42	R	R	R	X	
43	C	S	S	O	
43A	R	O	O	O	
46A	C	O	O	O	
47	C	S	S	O	
48	C	S	S	O	
51	C	S	S	O	
53	R	C	R	O	
54	C	C	C	X	
62	C	C	C	O	
66	R	R	R	X	
66A	R	O	O	O	
67	C	R	R	X	
67A	C	-	C	O	
68	C	S	S	O	
68A	C	O	O	O	
69A	C	C	R	O	
70A	C	O	O	O	
71	C	C	O	O	
72	C	S	S	O	
73	C	C	C	X	
74	C	S	S	O	
76A	C	C	C	X	
77	R	R	R	O	
78	R	C	R	X	

Continued Over /

Col.1	Col.2	Col.3	Col.4	Col.5	Col.6
Castle No.	1650`s	1840`s	1920`s	1980`s	
79	C	R	S	O	
81	C	C	C	O	
81A	C	O	O	O	
82	C	S	S	O	
90A	C	O	O	O	
91	C	R	R	O	
92	C	R	R	X	
94	C	S	S	O	
100	C	C	R	X	
101	C	R	R	X	
103	C	R	S	O	
104	C	R	R	X	
107	C	R	R	X	
108	C	R	S	O	
108A	C	-	C	O	
109	C	R	C	O	
110	C	R	R	O	
110A	C	O	S	O	
111	C	S	S	O	
111A	C	O	O	O	
112	C	R	R	X	
115	C	C	C	X	
124	C	R	R	X	
125	C	R	R	X	
126	C	C	R	O	
128	C	C	C	O	
129	C	R	R	X	
129A	C	O	O	O	
138	C	C	C	X	
					(No. Standing)
					(Percentage Destroyed)
					(Percentage Remaining)
					(Percentage Destruction -extra)

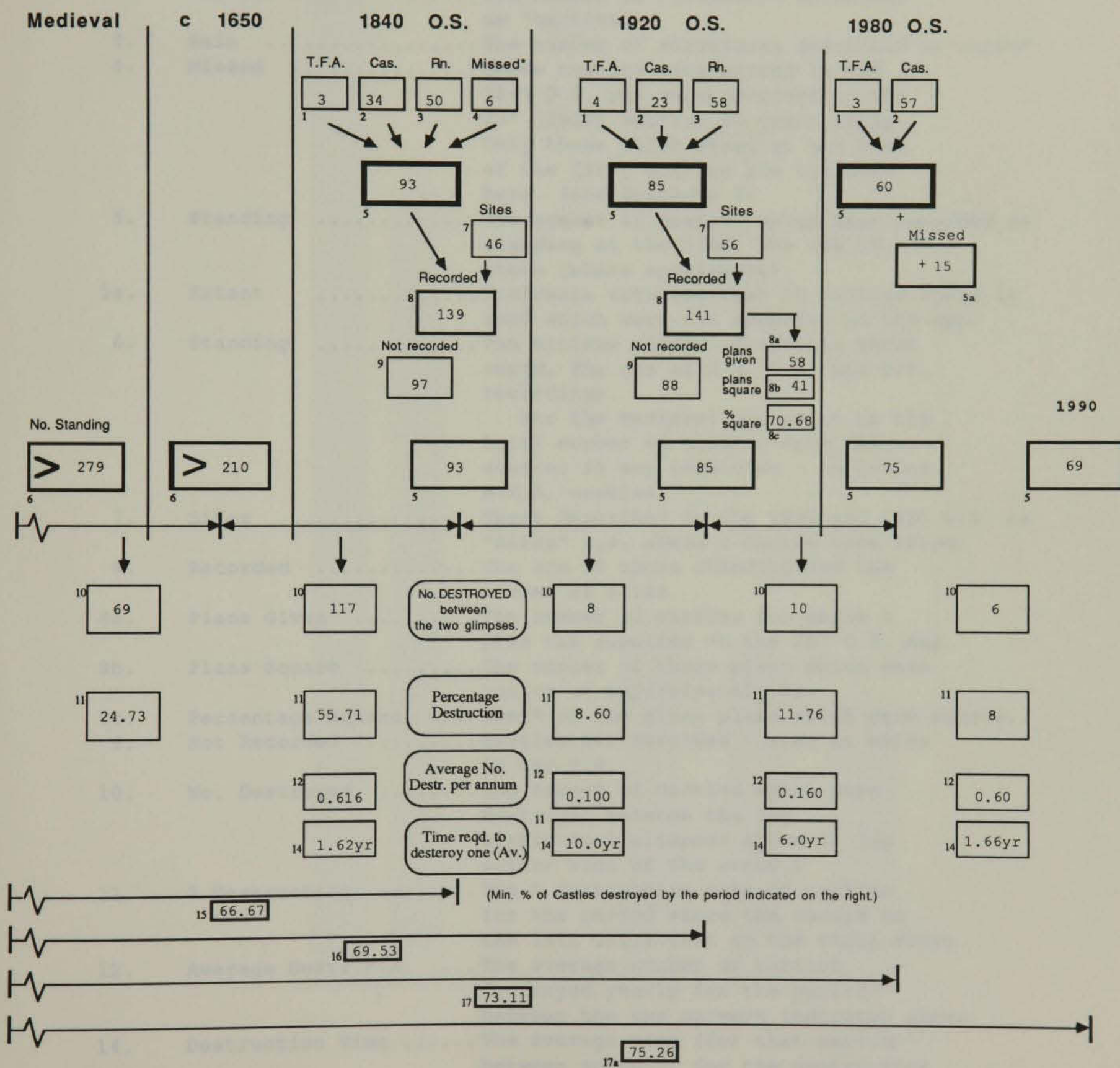
Notes

- Col.1 gives the castle Reference Number.
 Col.2 is the condition of the castle as recorded by the C.S. / D.S. c1650
 Col.3 records how the 1840`s Ordnance Survey described the Castle.
 Col.4 1920`s
 Col.5 1980`s
 Col.6 Where a "P" is used it denotes that the castle in question was a Plantation Castle.

- "C" = noted as "Castle"
 "R" = noted as "Ruin"
 "S" = noted as "Site"
 "O" / "-" = Not Recorded.
 "X"= was noted though status not specified.

Fig. 10.4

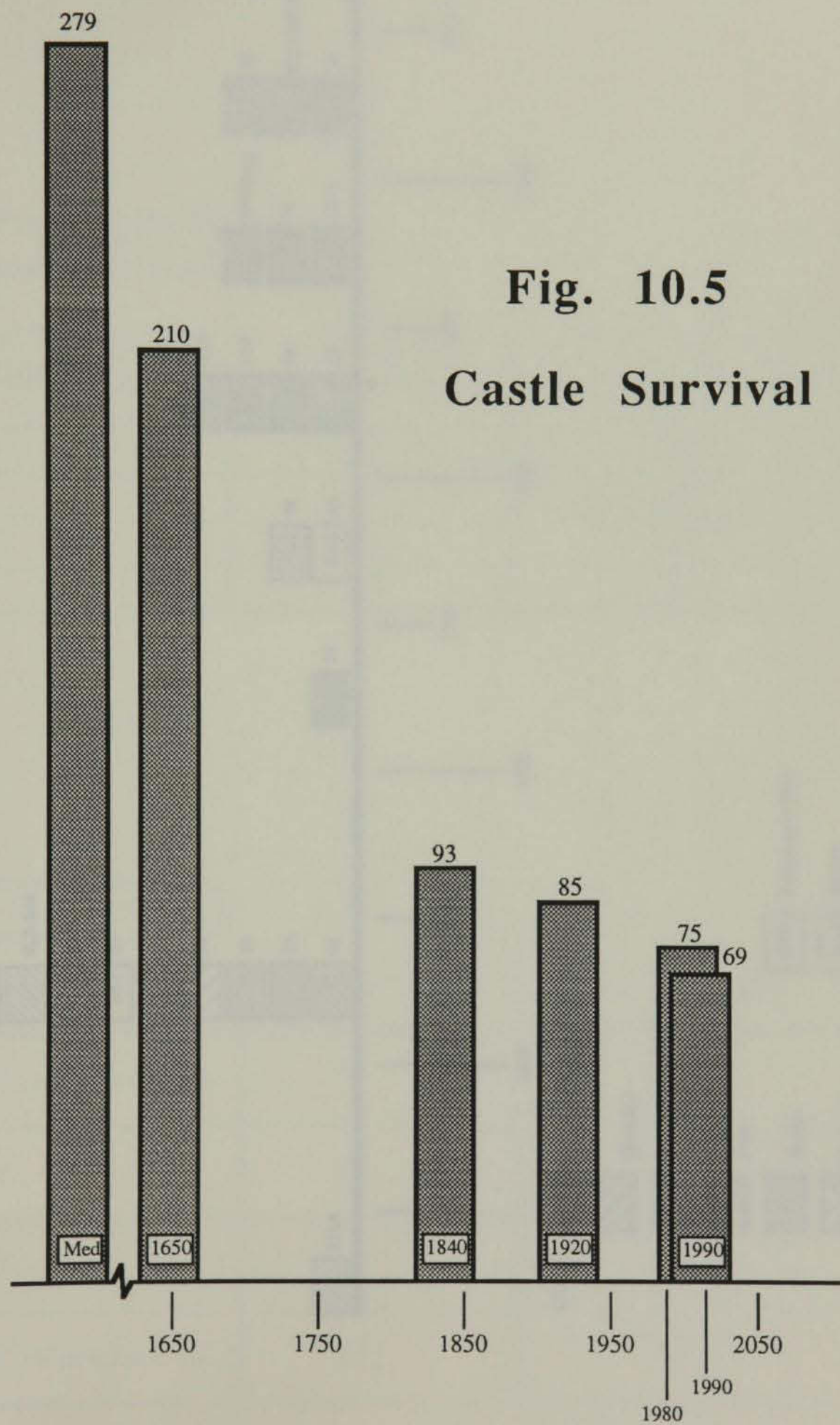
The status / condition of the Wexford Castles as recorded in the various surveys



* No. missed in this survey but recorded in 1920 O.S. ; they therefore must have existed in 1840. (Records only those actually standing.)

EXPLANATION OF TABLE

Box #	Title	How figure is arrived at / calculated
1.	Tower, Fort, Abbey.....	The number of structures referred to as such in any of the 3 Ordnance Surveys. (Part of these being a castle.)
2.	Castle	The number of structures described as "castles"
3.	Ruin	The number of structures described as "ruins".
4.	Missed	These castles were missed in the 1840 O.S. but were recorded in the 25" (1920) edition 80 years later. Only those which stood at the time of the first edition are included here. (see footnote *)
5.	Standing	The number of castles which were recorded as standing at the time. The sum of 1-4 above (where applicable).
5a.	Extant	Fieldwork revealed that 15 castles stood in 1980 which were not apparent on the map.
6.	Standing	The minimum number of castles which stood. The sum of C.S. O.S. and D.S. recordings. For the Medieval period it is the total number of castles from all sources in any condition - including N.M.A. castles.
7.	Sites	Those described in the 1840 and 1920 O.S. as "sites" i.e. where a castle once stood.
8.	Recorded	The sum of those standing and the number of sites.
8a.	Plans Given	The number of castles for which a plan was supplied on the 25" O.S. map.
8b.	Plans Square	The number of those plans which were square or approximately so.
8c.	Percentage Square	The % of the given plans which were square.
9.	Not Recorded	Castles not recorded - even as sites in the O.S..
10.	No. Destroyed	The number of castles which were destroyed between the two statistical glimpses above it (on either side of the arrow.)
11.	% Destruction	The % destruction rate of castles for the period since the record on the left until that on the right above.
12.	Average Destr.P.A. ...	The average number of castles destroyed yearly for the period between the two surveys indicated above.
14.	Destruction Time	The average time (for that period between surveys) for the destruction of one castle.
15.	Destruction %	The minimum percentage of castles which had been destroyed by that survey period (1840).
16.	Destruction %	Percentage destroyed by 1920.
17.	Destruction %	Percentage destroyed by 1980.
17a.	Destruction %	Percentage destroyed by 1990.



Time period is shown in box at bottom of each bar,- No. of castles at top.

Fig. 10.6

PERIODS OF DESTRUCTION AND DAMAGE

Known focal points.

. (The numbers refer to specific castles.)

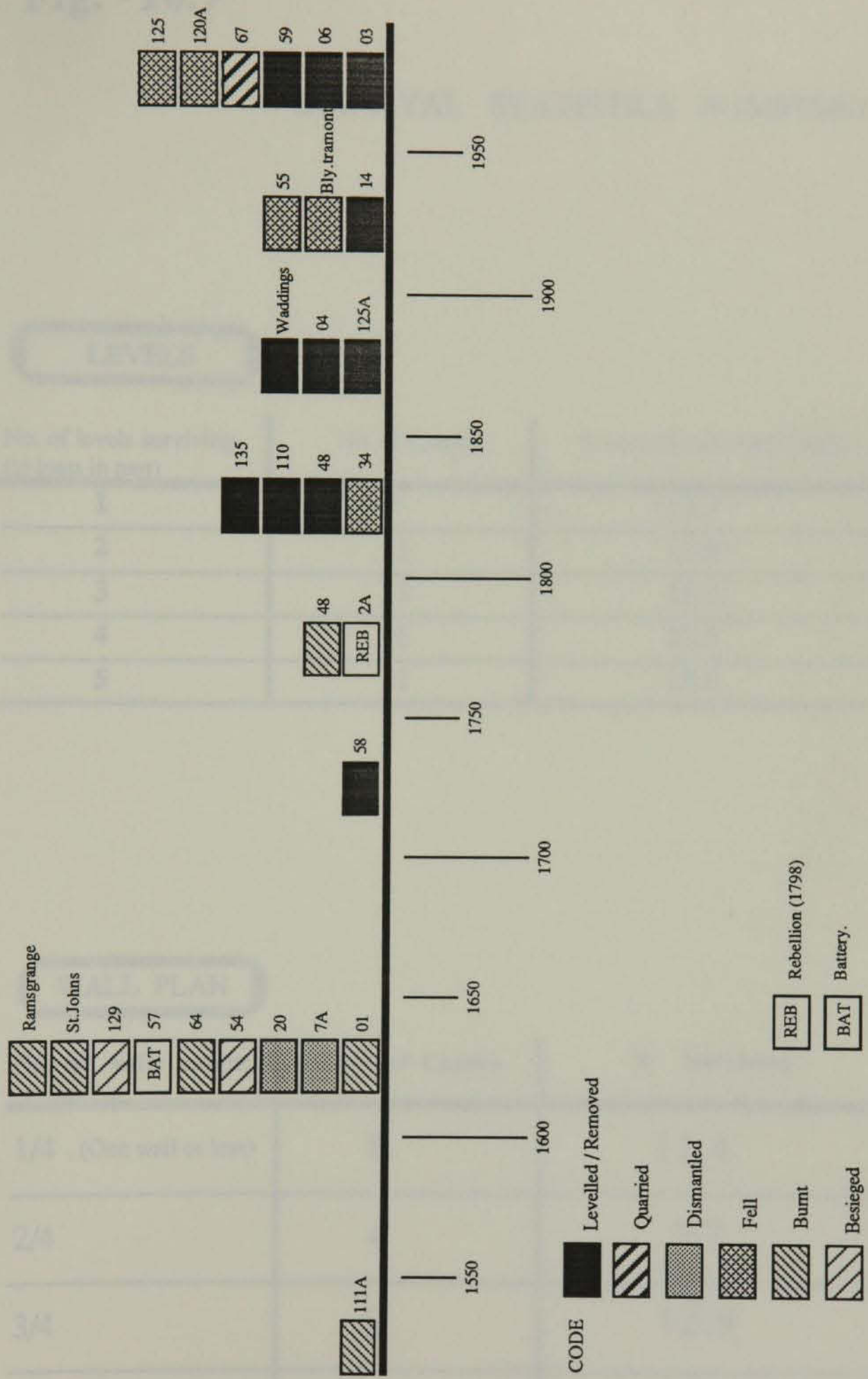


Fig. 10.7

SURVIVAL STATISTICS SUMMARY

LEVELS

No. of levels surviving (at least in part)	No. of Castles	% of total surviving Castles
1	9	12.7
2	12	16.9
3	13	18.3
4	16	22.5
5	21	29.6

WALL PLAN

No. of walls extant	No. of Castles	% Surviving
1/4 (One wall or less)	8	11.4
2/4	4	5.7
3/4	9	12.9
4/4 (Complete at G.L.)	49	70.0

