

**Sacred Space:
Priorities, Perception and the Presence of God in Late Medieval Yorkshire Parish Churches**

4 Volumes

Volume 2: Still-Image Illustrations

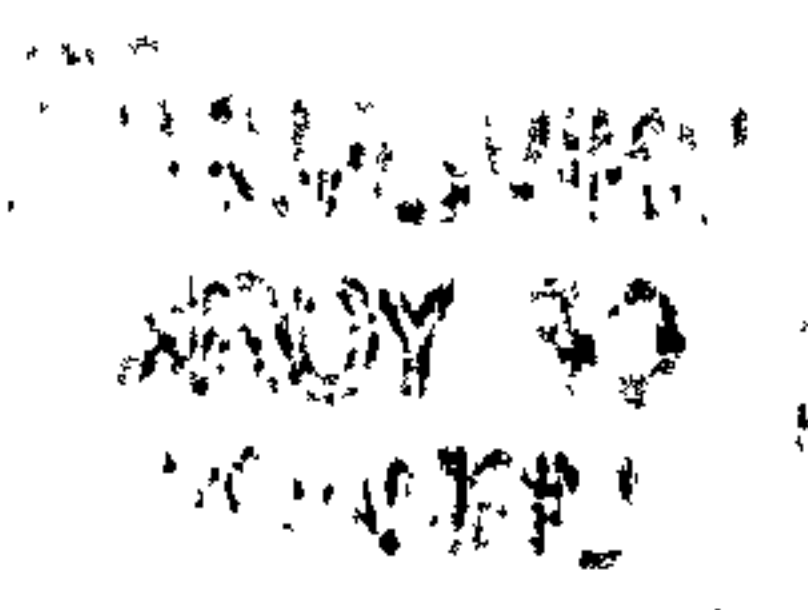
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Submitted for the qualification of PhD

The University of York

Centre for Medieval Studies

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CONTAINS PULLOUTS

Table of Illustrations

Figures.....	218
Figure 1 - Thurkill's vision: 'The geography of the afterlife'.....	218
Figure 2 - Comparison of cave art from Cap Blanc seen in light from a 55w incandescent bulb (upper) and an animal fat candle (lower), computer models rendered with Radiance.....	219
Figure 3 - 1:1 profile taken with a profile gauge from a St. Michael-le-Belfrey pier base.....	220
Figure 4 - St. Michael-le-Belfrey, York: Construction of 3D base.....	221
Figure 5 - St. Michael-le-Belfrey, York: Stone-by-stone elevations with field notes indicating corrections to be made.....	222
Figure 6 - Comparison of polygon handling by different 3D applications: Vectorworks (left), Cinema4D (right).....	222
Figure 7 - (right to left, upper to lower) Keyframes for animating the procession around the font in St. Mary, Thirsk.....	223
Figure 8 - St. Mary, Thirsk: Point-of-view isovist showing from where the Rood was visible (height: 5ft (1.5metres)).....	223
Figure 9 - York Minster precincts.....	224
Figure 10 - St. Michael-le-Belfrey, York: Plan.....	225
Figure 11 - St. Michael-le-Belfrey, York: Longitudinal section looking north c1537.....	226
Figure 12 - St. Michael-le-Belfrey, York: Transverse section looking east c1537.....	226
Figure 13 - St. Michael-le-Belfrey, York c1705.....	227
Figure 14 - St. Michael-le-Belfrey, York: West end before 1839.....	228
Figure 15 - St. Michael-le-Belfrey, York: West end after 1839.....	228
Figure 16 - John Speed's map of York c1611.....	229
Figure 17 - St. Michael-le-Belfrey, York: East wall, exterior, stone-by-stone	230
Figure 18 - St. Michael-le-Belfrey, York: North (upper) and south (lower) aisle walls, exterior elevations, stone-by-stone.....	231
Figure 19 - St. Michael-le-Belfrey, York: North (upper) and south (lower) aisle walls, exterior elevations, coursing.....	232
Figure 20 - St. Michael-le-Belfrey, York: North (upper) and south (lower) aisles, positions of putlog holes	233
Figure 21 - St. Michael-le-Belfrey, York: Moulding profiles and pier section.....	234
Figure 22 - St. Michael-le-Belfrey, York: Phased plan.....	235
Figure 23 - St. Michael-le-Belfrey, York: Plan, generative geometry.....	236
Figure 24 - St. Martin-le-Grand, York: Plan, generative geometry c1443.....	237
Figure 25 - York Minster, York: Masons' loft, tracing floor.....	238
Figure 26 - Location of Skirlaugh.....	239
Figure 27 - St. Augustine, Skirlaugh: Plan.....	240
Figure 28 - St. Augustine, Skirlaugh: Longitudinal section looking north.....	241
Figure 29 - St. Augustine, Skirlaugh: Transverse section looking east.....	241
Figure 30 - St. Augustine, Skirlaugh: Transverse section looking west.....	242
Figure 31 - St. Augustine, Skirlaugh: East and west end exterior elevations and plan, 1813.....	243
Figure 32 - St. Augustine, Skirlaugh: Interior perspective view c1844.....	244
Figure 33 - St. Augustine, Skirlaugh: Fragment of moulding from the roodscreen.....	245
Figure 34 - St. Stephen's Chapel, Westminster Palace: Longitudinal sections c1807.....	246
Figure 35 - Location of Skelton.....	247
Figure 36 - St. Giles, Skelton: Plan.....	248
Figure 37 - St. Giles, Skelton: Longitudinal section looking north c1247.....	249
Figure 38 - St. Giles, Skelton: Transverse section looking east c1247.....	249
Figure 39 - St. Giles, Skelton: Transverse section looking west c1247.....	250
Figure 40 - St. Giles, Skelton: Exterior c1733.....	250
Figure 41 - St. Giles, Skelton: Exterior c1844.....	251
Figure 42 - St. Giles, Skelton: Interior c1844.....	252
Figure 43 - St. Giles, Skelton: Interior c1843.....	253
Figure 44 - St. Giles, Skelton: Longitudinal section looking south c1843.....	254
Figure 45 - St. Giles, Skelton: South door.....	255
Figure 46 - St. Giles, Skelton: Fragment of medieval glass now in northwest aisle window.....	256
Figure 47 - St. Giles, Skelton: Alternative interior reconstruction c1247 with flat ceiling.....	256
Figure 48 - St. Giles, Skelton: Alternative interior reconstruction c1247 with arch brace trusses.....	257
Figure 49 - St. Giles, Skelton: Alternative interior reconstruction c1247 with tympanum in head of chancel arch.....	257
Figures 50, 51, 52, 53, 54 - (left to right, upper to lower) Capel-le-Ferne, Kent; Brechin Cathedral, Scotland; Little Hereford, Herefordshire; Castle Rising, Norfolk; Melton Constable, Norfolk: Chancel Arches.....	258
Figure 55 - St. Giles, Skelton: Plan, 21 June, 12:00PM.....	259
Figure 56 - St. Giles, Skelton: Plan, 21 June, 12:00PM with illuminance contour lines.....	259

Figure 57 - St. Giles, Skelton: Chancel, 21 June, 12:00PM.....	260
Figure 58 - St. Giles, Skelton: Chancel, 21 June, 12:00PM with illuminance contour lines.....	260
Figure 59 - St. Augustine, Skirlaugh: Plan, 21 June, 12:00PM.....	261
Figure 60 - St. Augustine, Skirlaugh: East end, 21 June, 12:00PM.....	261
Figure 61 - St. Giles, Skelton and St. Augustine, Skirlaugh: Illuminance histograms.....	262
Figure 62 - St. Augustine, Skirlaugh: Plan, 21 June, 12:00PM with illuminance contour lines.....	262
Figure 63 - St. Augustine, Skirlaugh: East end, 21 June, 12:00PM with illuminance contour lines.....	263
Figure 64 - Location of Patrington.....	264
Figure 65 - Patrington before inclosure in 1768.....	265
Figure 66 - St. Patrick, Patrington: Plan c1844.....	266
Figure 67 - St. Patrick, Patrington: West window tracery c1844.....	267
Figure 68 - St. Patrick, Patrington: Transepts interior looking north c1844.....	268
Figure 69 - St. Patrick, Patrington: Acoustic model, plan of acoustic model [Maddison's pier numbering in brackets].....	269
Figure 70 - St. Patrick, Patrington: Plan of acoustic model, positions of sound sources, receivers and audience.....	270
Figure 71 - St. Patrick, Patrington: Acoustic response (Source: High Altar), T30.....	271
Figure 72 - St. Patrick, Patrington: Acoustic response (Source: High Altar), SPL.....	271
Figure 73 - St. Patrick, Patrington: Acoustic response (Source: High Altar), C80.....	272
Figure 74 - St. Patrick, Patrington: Acoustic response (Source: High Altar), STI.....	272
Figure 75 - St. Patrick, Patrington: Acoustic model, wireframe, isometric view.....	273
Figure 76 - Location of Thirsk.....	274
Figure 77 - St. Mary, Thirsk: Plan.....	275
Figure 78 - St. Mary, Thirsk: Longitudinal section looking north c1460.....	276
Figure 79 - St. Mary, Thirsk: Transverse section looking east c1460.....	276
Figure 80 - St. Mary, Thirsk: Transverse section looking west c1460.....	277
Figure 81 - St. Mary, Thirsk: Nave roof construction.....	277
Figure 82 - St. Mary, Thirsk: Plan 1877.....	278
Figure 83 - St. Mary, Thirsk: Exterior from south c1821.....	278
Figure 84 - St. Mary, Thirsk: Exterior from south c1844.....	279
Figure 85 - St. Mary, Thirsk: Interior from chancel looking west c1844.....	280
Figure 86 - St. Mary, Thirsk: Nave generative geometry.....	281
Figure 87 - St. Mary, Thirsk: Nave bay elevation, generative geometry.....	282
Figures 88 (left) and 89 (right) - St. Mary, Thirsk: Access diagram (left) and Hillier and Hanson's 'typical' English parish church access diagram (right).....	283
Figures 90 (left) and 91 (right) - St. Mary, Thirsk: Eye-level (left) and knee-level (right) visibility graphs.....	283
Figure 92 - St. Mary, Thirsk: Rood 'arc of address' c1460.....	284
Figure 93 - St. Mary, Thirsk: Patronal image 'arc of address' c1460.....	284
Figure 94 - St. Mary, Thirsk: Image of St. Anne 'arc of address' c1460.....	285
Figure 95 - St. Mary, Thirsk: Static and dynamic visibility analyses.....	286
Figure 96 - Comparative dynamic visibility analyses.....	287
Figure 97 - Visibility graph comparisons.....	288
Plates.....	289
Plate 1 - The theodolite.....	289
Plate 2 - St. Michael-le-Belfrey, York: Pier base.....	290
Plate 3 - St. Michael-le-Belfrey, York: North aisle, third bay from east, exterior, original photo (left) - Corrected photo with stone-by-stone tracing (right).....	291
Plate 4 - St. Michael-le-Belfrey, York: West end with southwest corner of York Minster on left.....	292
Plate 5 - St. Michael-le-Belfrey, York: Exterior from York Minster southwest tower looking southeast.....	292
Plate 6 - St. Michael-le-Belfrey, York: Interior looking east from gallery.....	293
Plates 7 (left) and 8 (right) - St. Michael-le-Belfrey, York: Sixteenth century desk ends (left) and bench standard (right).....	294
Plate 9 - St. Michael-le-Belfrey, York: Original vestry door (now behind early eighteenth century reredos).....	294
Plate 10 - St. Mary, Beverley: Nave looking east.....	295
Plate 11 - St. Augustine, Skirlaugh: Exterior from the southeast.....	296
Plate 12 - St. Augustine, Skirlaugh: Interior looking west.....	296
Plate 13 - St. Augustine, Skirlaugh: Exterior, join of tower and west wall.....	297
Plate 14 - St. Augustine, Skirlaugh: Remains of wall texts.....	298
Plate 15 - St. Augustine, Skirlaugh: Remains of figural scene, south end of west wall.....	299
Plate 16 - St. Augustine, Skirlaugh: Remains of stencilling (black) on red ground, south wall between the third and fourth bays from the east.....	299
Plate 17 - St. Augustine, Skirlaugh: Fragments of medieval glass, east window.....	300
Plates 18 (left) and 19 (right) - St. Augustine, Skirlaugh: South (left) and north (right) image brackets,	

east wall.....	301
Plate 20 - New College Chapel, Oxford: Interior looking east (left); Exterior, left four bays hall, right six bays chapel and ante-chapel.....	301
Plate 21 - York Minster, York: Great East Window (panel 8j), The Temple in Jerusalem.....	302
Plate 22 - York Minster, York: Great East Window (panel 7e), The Temple in Heaven.....	303
Plates 23, 24, 25, 26 - (left to right, upper to lower) York Minster, York: Great East Window panel 8j, details (upper left, lower left); panel 1e; panel 7e, detail (right).....	304
Plate 27 - St. Giles, Skelton: Exterior from southwest.....	305
Plate 28 - St. Giles, Skelton: South door.....	305
Plate 29 - St. Giles, Skelton: Chancel looking east.....	306
Plate 30 - St. Giles, Skelton: Chancel arches.....	307
Plate 31 - St. Giles, Skelton: Image bracket north of High Altar, east wall.....	308
Plate 32 - St. Giles, Skelton: Font.....	308
Plate 33 - St. Patrick, Patrington: North transept exterior.....	309
Plates 34 (left) and 35 (right) - St. Patrick, Patrington: Nave west window tracery (left) and north transept north window tracery (right).....	309
Plate 36 - St. Patrick, Patrington: Exterior from southeast.....	310
Plate 37 - St. Patrick, Patrington: Exterior from south.....	311
Plate 38 - St. Patrick, Patrington: Spire from northwest.....	311
Plate 39 - St. Patrick, Patrington: Interior, nave and chancel looking east.....	312
Plate 40 - St. Patrick, Patrington: Lady Chapel vault.....	312
Plate 41 - St. Patrick, Patrington: Easter sepulchre.....	313
Plate 42 - St. Patrick, Patrington: Font.....	313
Plate 43 - St. Patrick, Patrington: Roodscreen.....	314
Plate 44 - St. Patrick, Patrington: Stairs over south side of south crossing arch, east end.....	314
Plate 45 - St. Patrick, Patrington: Capital of northeast tower pier.....	315
Plate 46 - St. Mary, Thirsk: Exterior from south.....	316
Plate 47 - St. Mary, Thirsk: Head of south door.....	316
Plate 48 - St. Mary, Thirsk: Nave interior looking west.....	317
Plate 49 - St. Mary, Thirsk: Nave roof.....	317
Plate 50 - St. Mary, Thirsk: Roof boss, north aisle.....	318
Plate 51 - St. Mary, Thirsk: Truss corbel, south aisle, north side.....	318
Plate 52 - St. Mary, Thirsk: St. Anne Chapel, south aisle, east end.....	319
Plate 53 - St. Mary, Thirsk: Font, font cover, tower arch.....	320
Plates 54 (left) and 55 (right) - St. Mary, Thirsk: Fifteenth century bench (left) and desk (right) ends...	321
Plate 56 - St. Mary, Thirsk: Medieval glass, south aisle, east window.....	321
Plate 57 - St. Mary, Thirsk: Medieval glass, north aisle, west window.....	322
Plate 58 - St. Mary, Thirsk: Monumental brass to Robert Thresk, south aisle.....	322
Plate 59 - St. Mary, Thirsk: Interior between 1844 and 1877.....	323
Plate 60 - St. Mary, Thirsk: Southeast tower buttress.....	324
Plate 61 - St. Mary, Thirsk: Northeast tower buttress.....	325
Plate 62 - St. Mary, Thirsk: Foundation of earlier chancel.....	326
Plate 63 - St. Mary, Thirsk: Porch exterior from south.....	326
Plate 64 - St. Mary, Thirsk: Porch and south aisle join from east.....	327
Plate 65 - St. Mary, Thirsk: Porch vault springer.....	327
Plate 66 - St. Mary, Thirsk: Tower exterior from west.....	328
Plate 67 - St. Mary, Thirsk: Chancel exterior from south.....	329

Figures

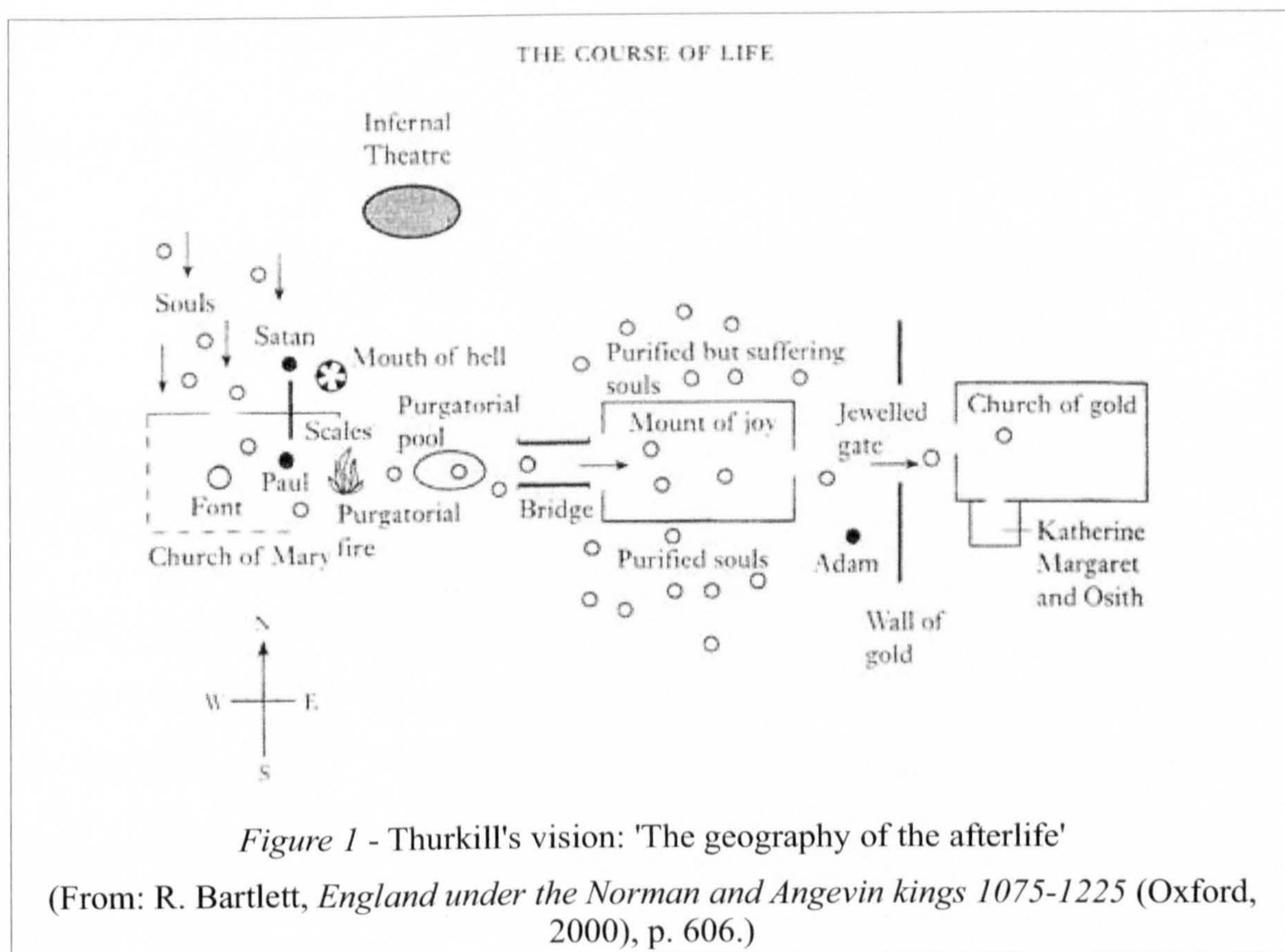




Figure 2 - Comparison of cave art from Cap Blanc seen in light from a 55w incandescent bulb (upper) and an animal fat candle (lower), computer models rendered with *Radiance*

(From: K. Devlin, A. Chalmers and D. Brown, 'Predictive lighting and perception in archaeological representations', *UNESCO world heritage in the Digital Age: 30th anniversary digital congress* (2003), p. 5, Available:

<http://www.virtualworldheritage.org/index.cfm?pg=Home&l=en>)



Figure 3 - 1:1 profile taken with a profile gauge from a St. Michael-le-Belfrey pier base

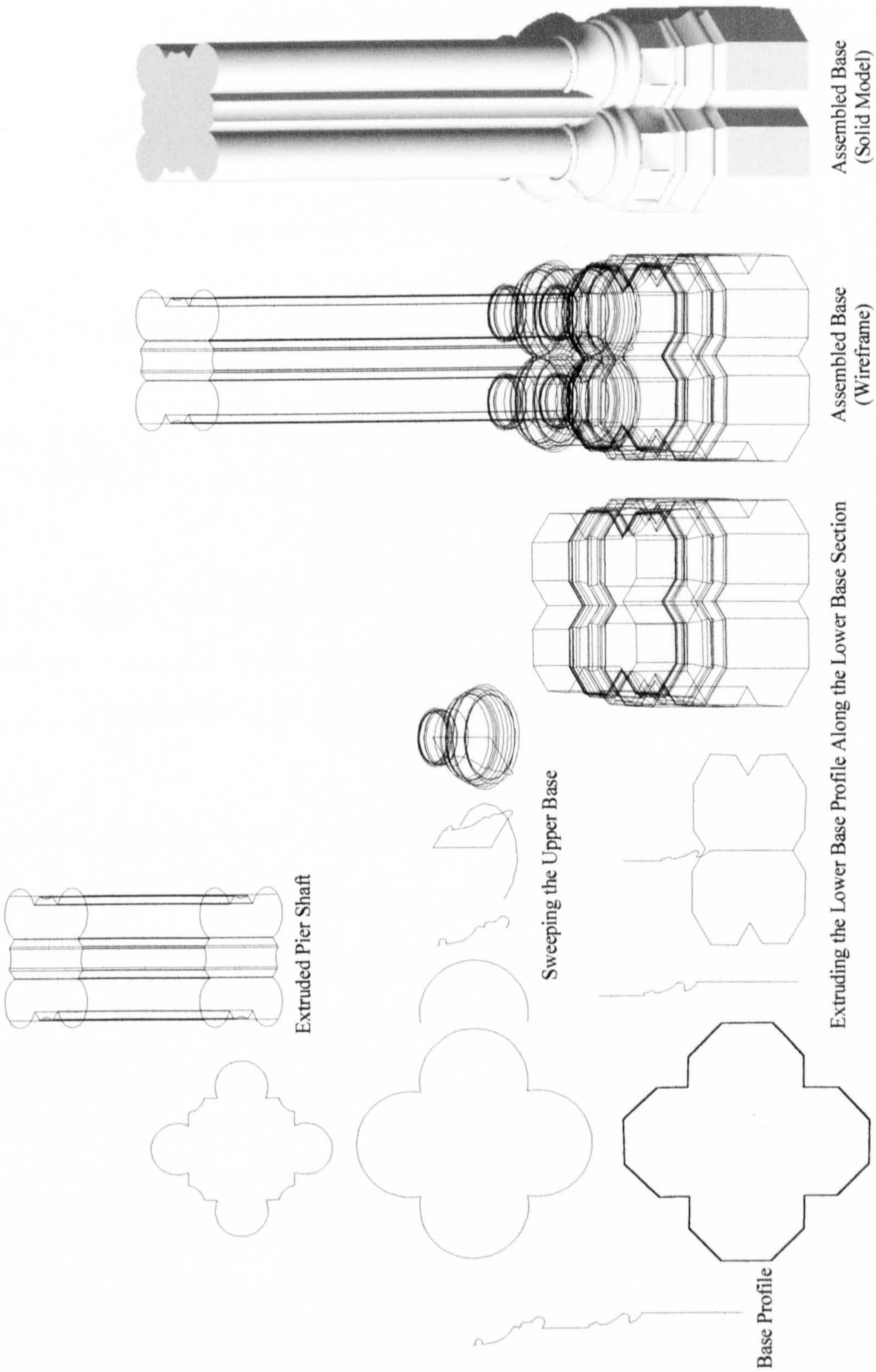


Figure 4 - St. Michael-le-Belfrey, York: Construction of 3D base

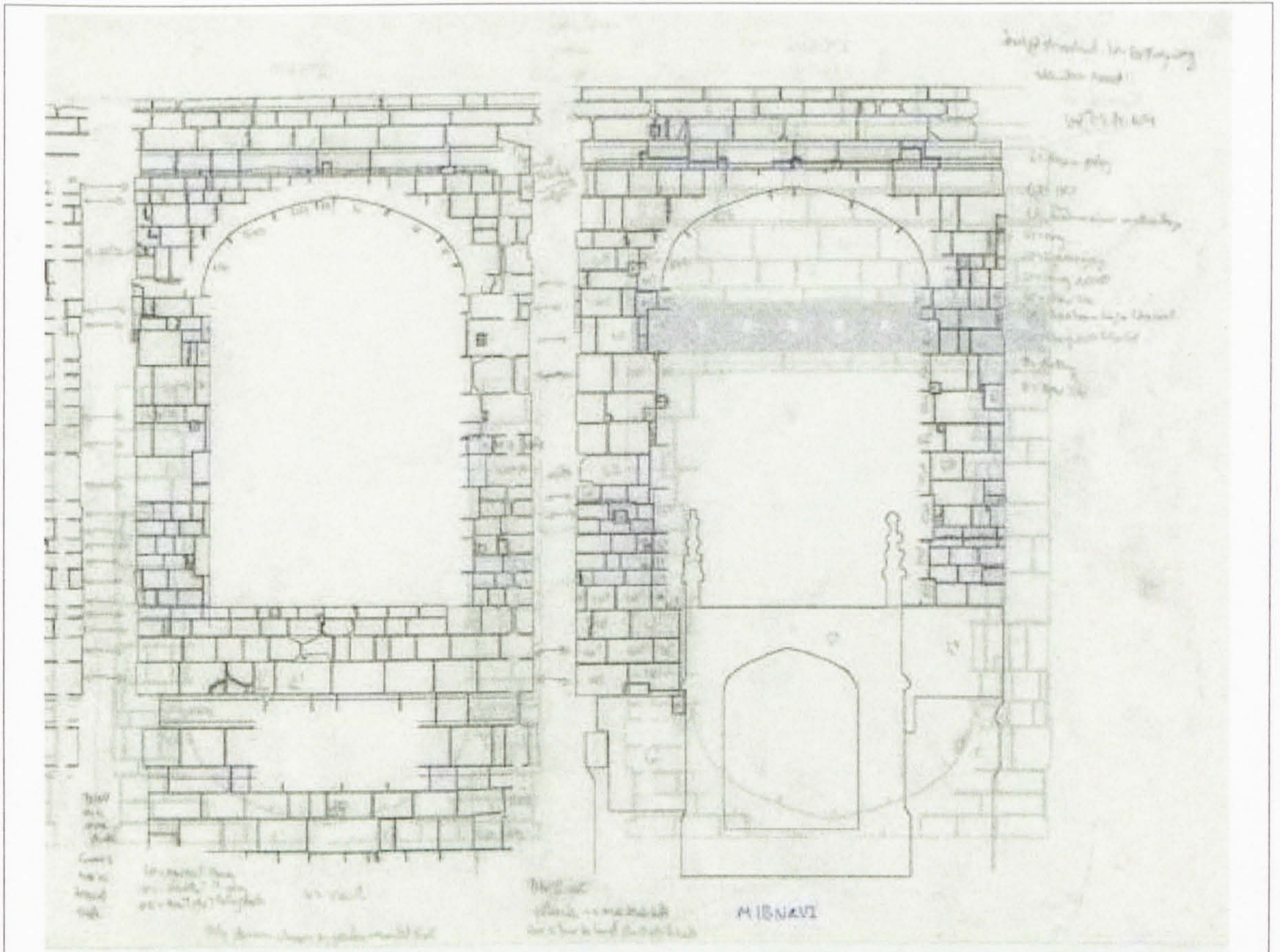


Figure 5 - St. Michael-le-Belfrey, York: Stone-by-stone elevations with field notes indicating corrections to be made

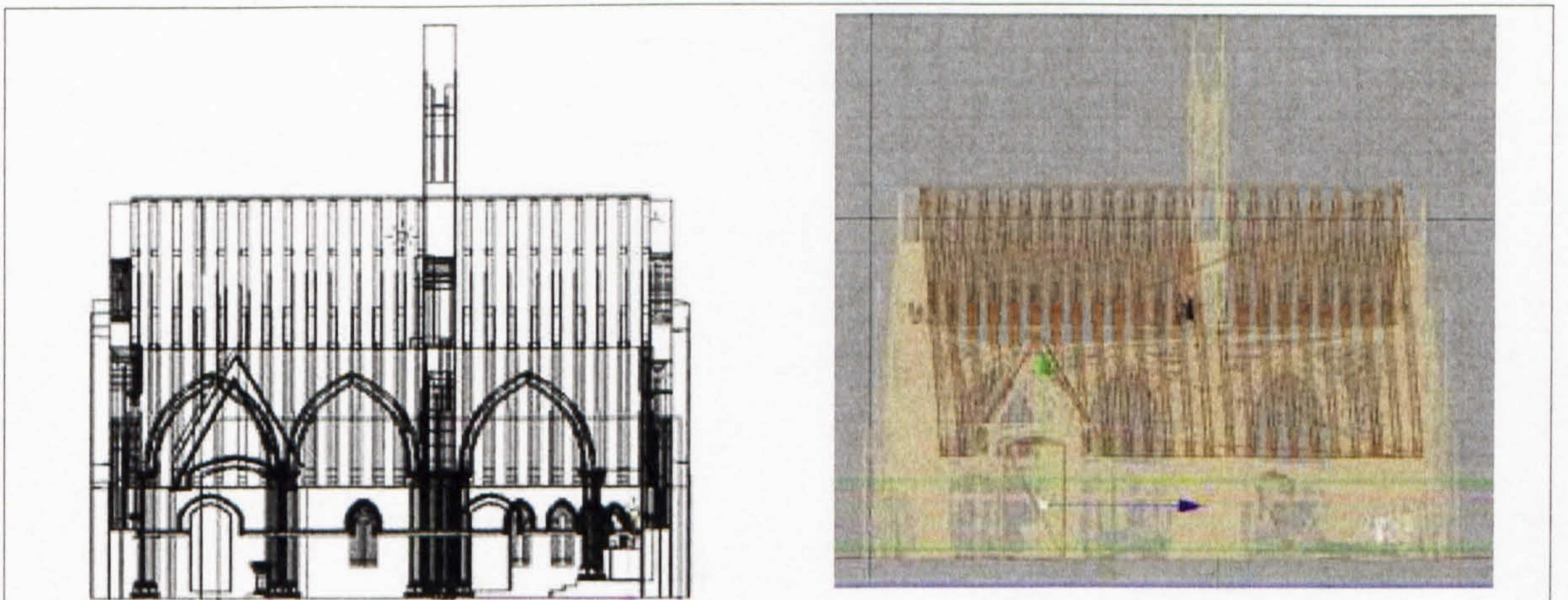


Figure 6 - Comparison of polygon handling by different 3D applications: *Vectorworks* (left), *Cinema4D* (right)

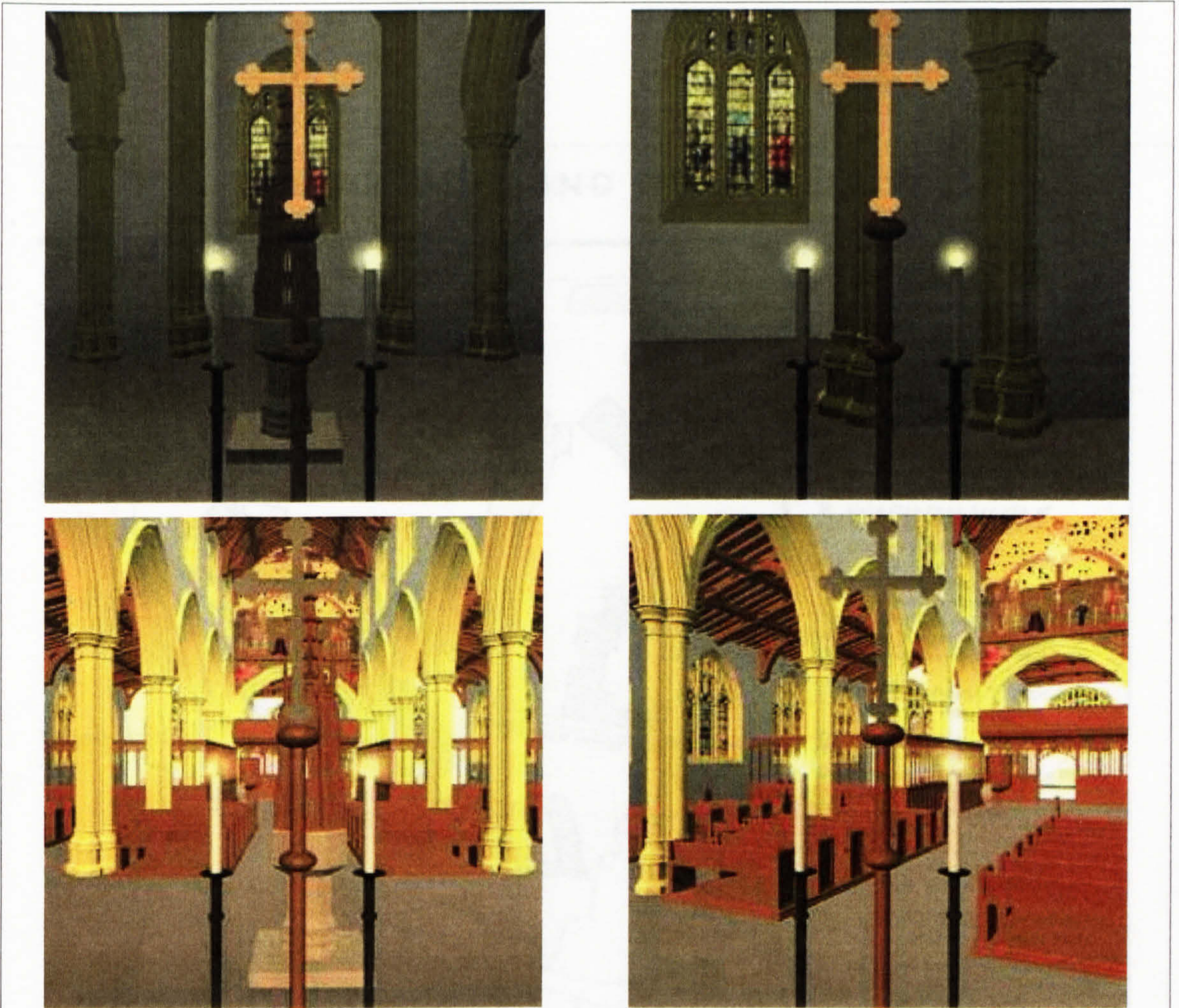


Figure 7 - (right to left, upper to lower) Keyframes for animating the procession around the font in St. Mary, Thirsk

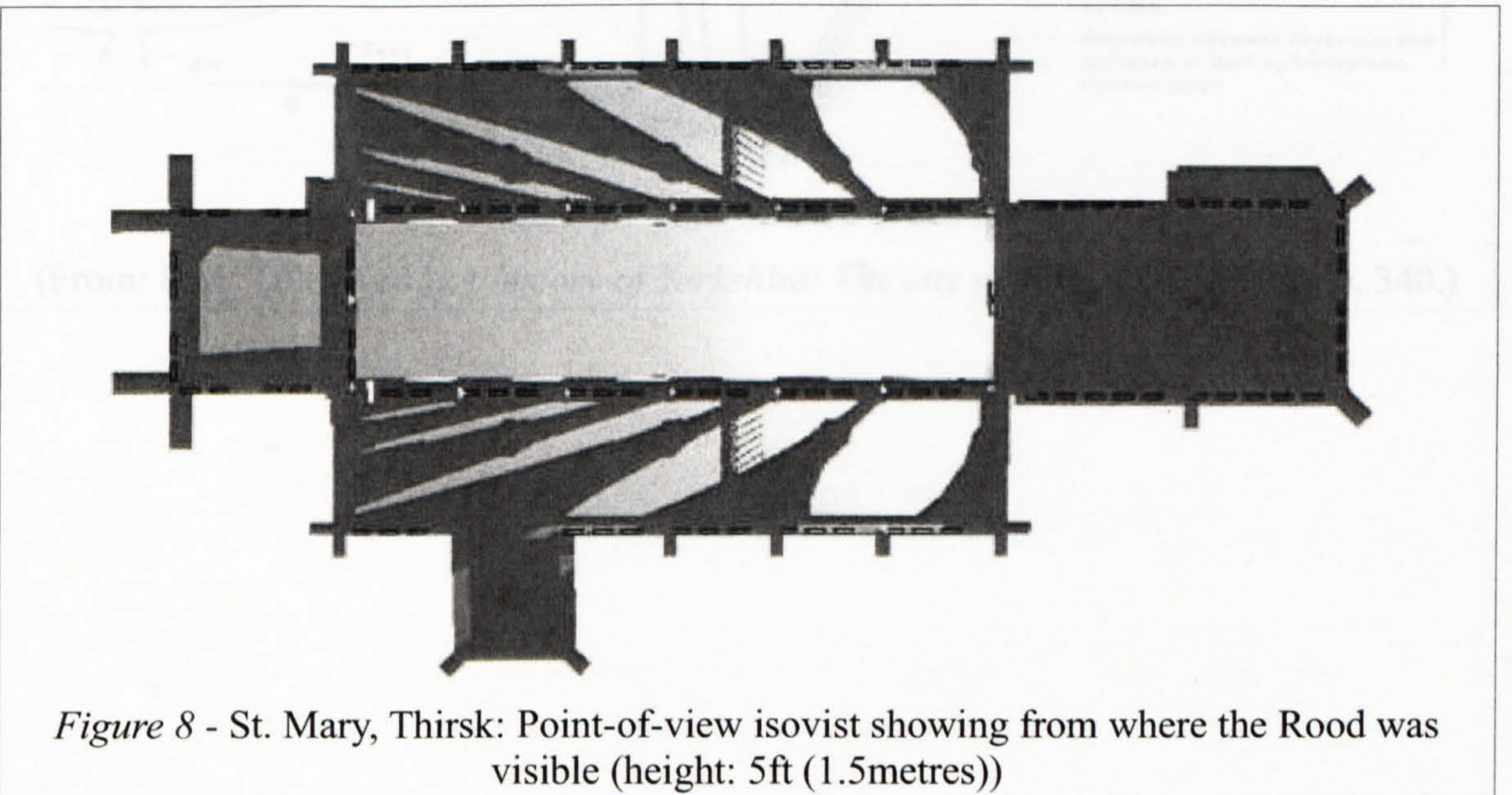


Figure 8 - St. Mary, Thirsk: Point-of-view isovist showing from where the Rood was visible (height: 5ft (1.5metres))

THE MINSTER AND ITS PRECINCTS

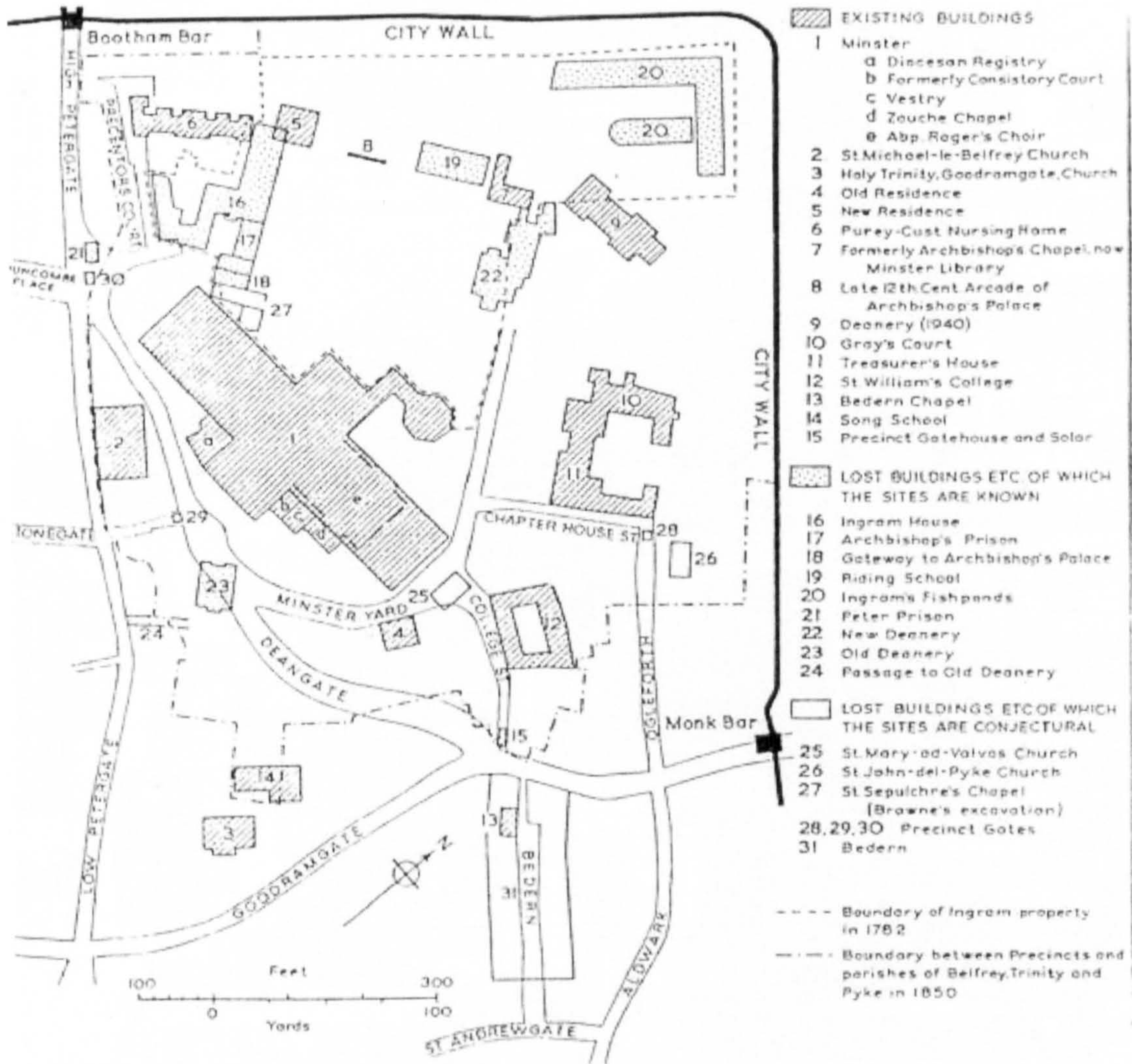


Figure 9 - York Minster precincts

(From: P.M. Tillott (ed.), *A history of Yorkshire: The city of York*, VCH (1961), p. 340.)

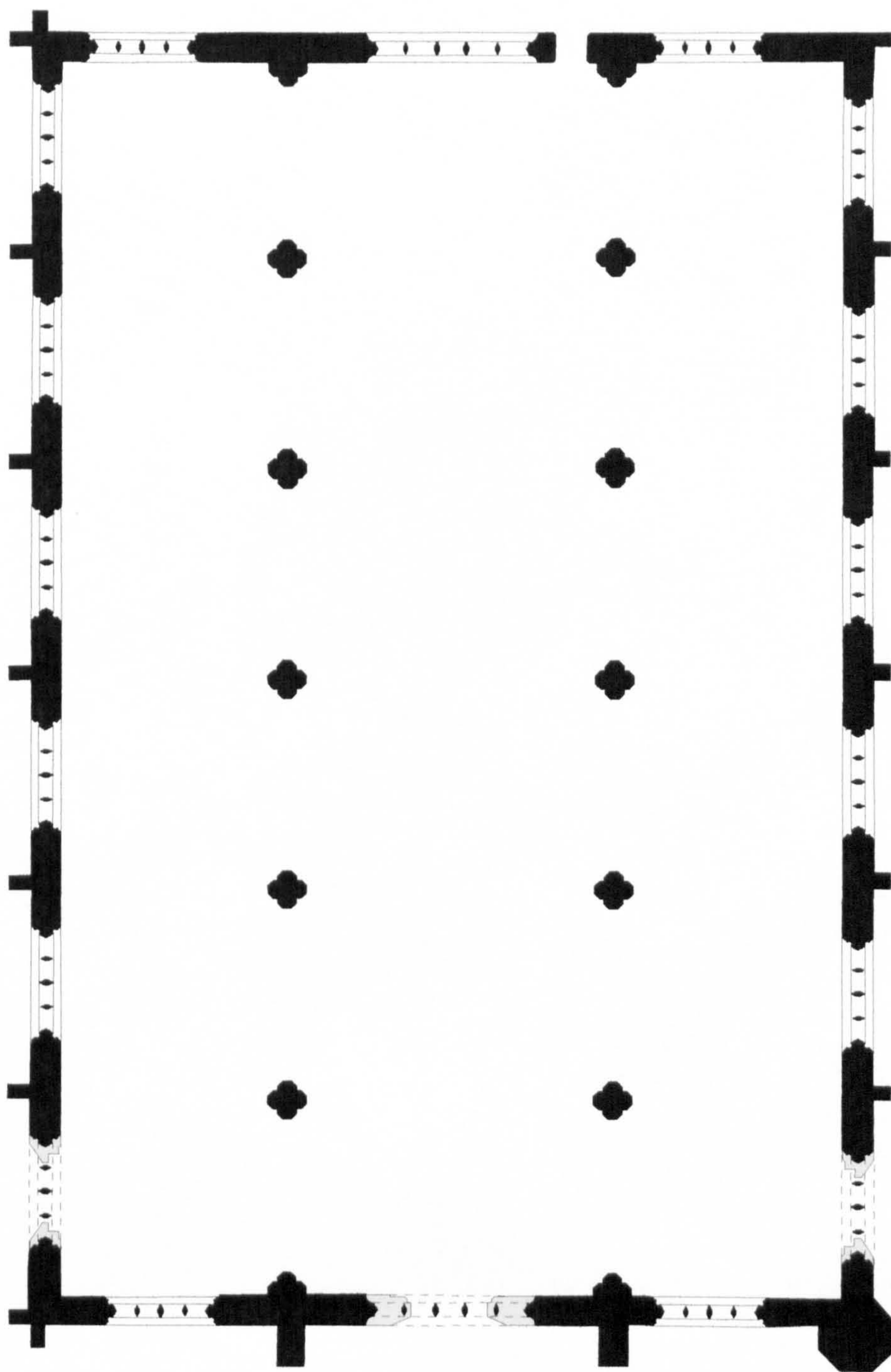


Figure 10
St. Michael-le-Belfrey, York: Plan



Figure 11 - St. Michael-le-Belfrey, York: Longitudinal section looking north *c1537*



Figure 12 - St. Michael-le-Belfrey, York: Transverse section looking east *c1537*



Figure 13 - St. Michael-le-Belfrey, York c1705

(Kip and Tempest after Place c1705, detail. Published: B. Wilson and F. Mee, *The medieval parish churches of York: The pictorial evidence*, Archaeology of York, Supplementary Series fasc. 1/1 (1998), p. 131.)



Figure 14 - St. Michael-le-Belfrey, York: West end before 1839

(Thomas Shotter Boys. Published: B. Wilson and F. Mee, *The medieval parish churches of York: The pictorial evidence*, Archaeology of York, Supplementary Series fasc. 1/1 (1998), p. 133.)

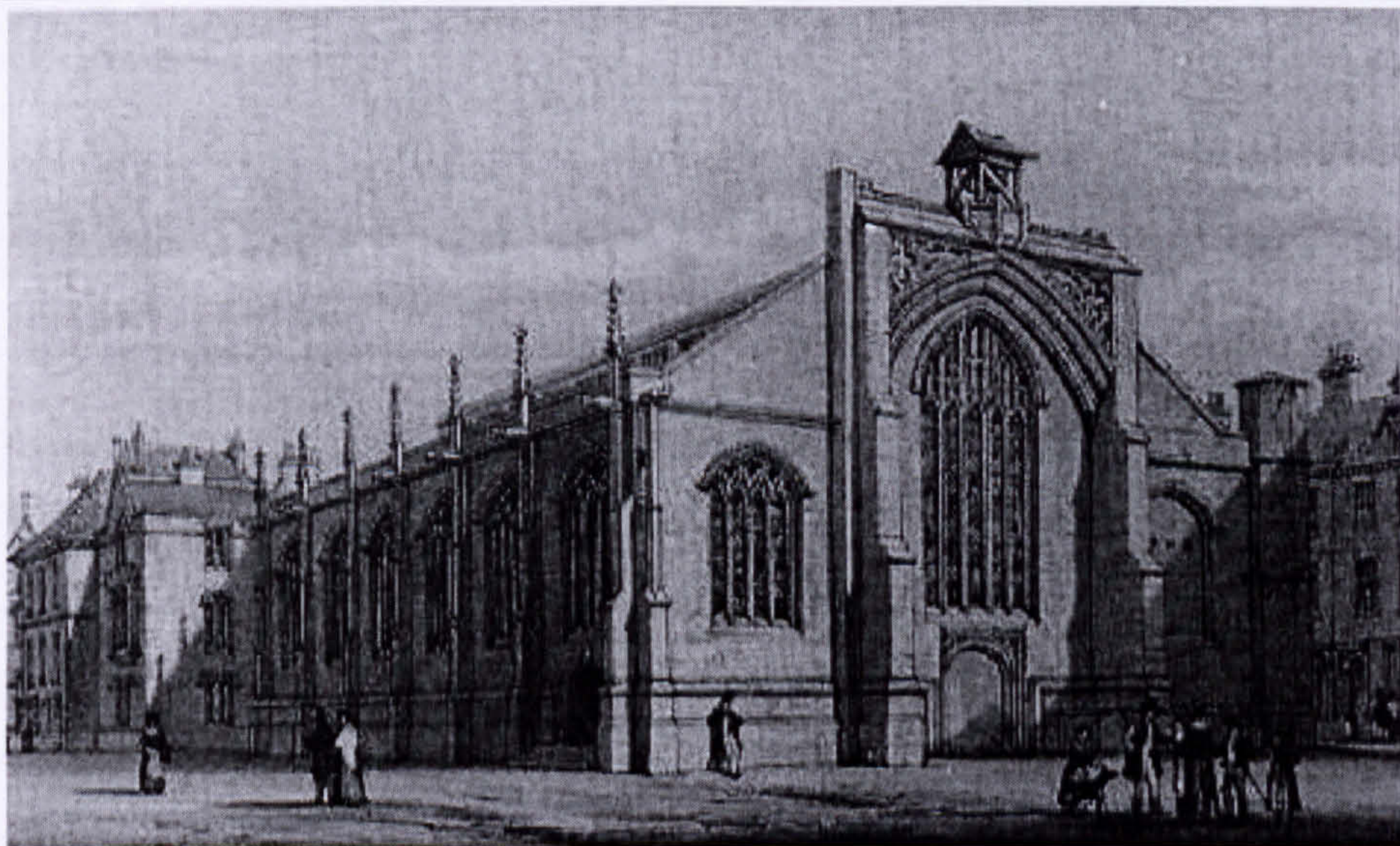


Figure 15 - St. Michael-le-Belfrey, York: West end after 1839

(Francis Bedford. Published: B. Wilson and F. Mee, *The medieval parish churches of York: The pictorial evidence*, Archaeology of York, Supplementary Series fasc. 1/1 (1998), p. 133.)



Figure 16 - John Speed's map of York c1611

(From: J. Speed, *The theatre of the Empire of Great Britaine* (London, 1612), Available: <http://faculty.oxy.edu/horowitz/home/johnspeed/Cities30.htm>)

North

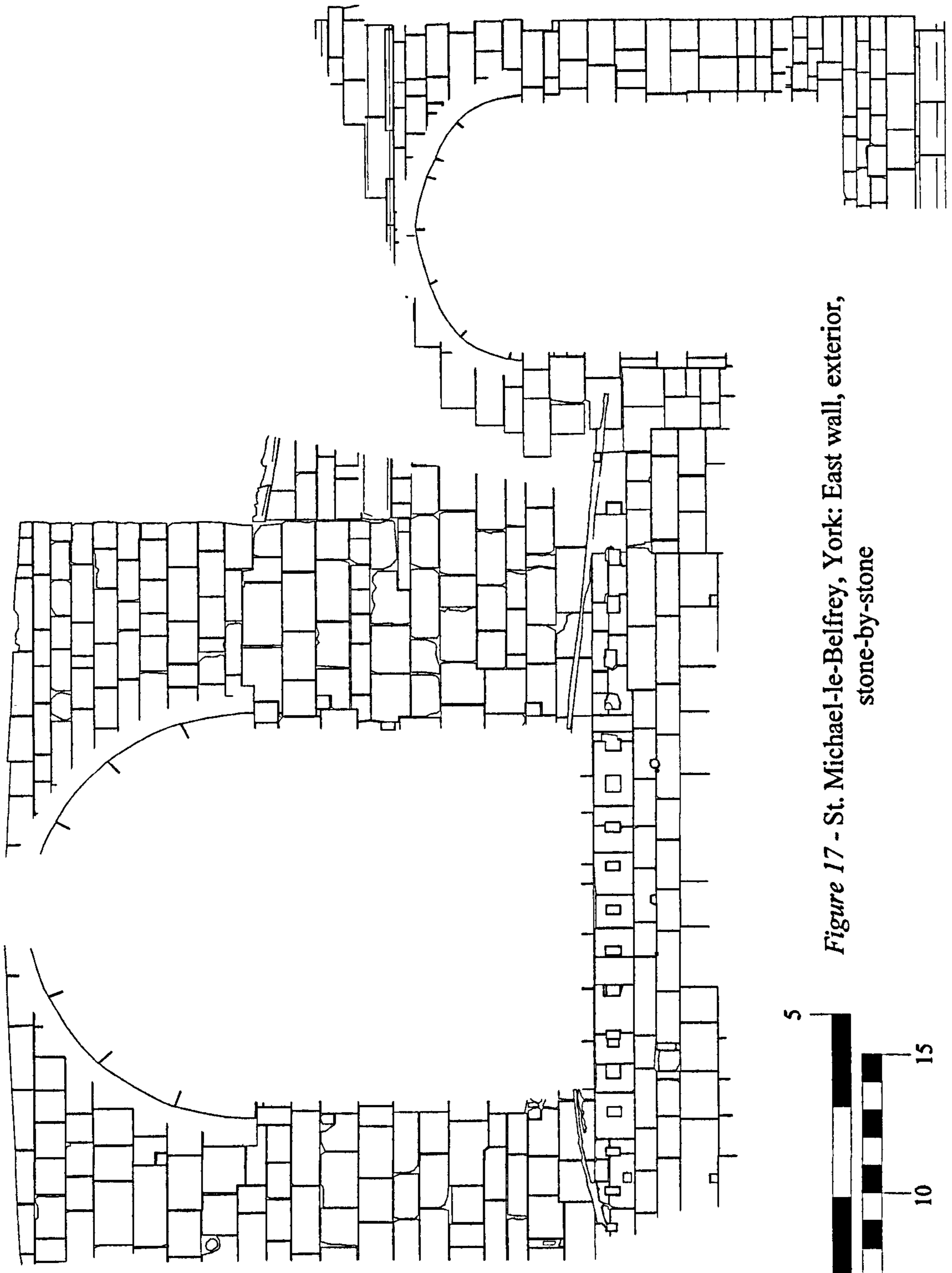
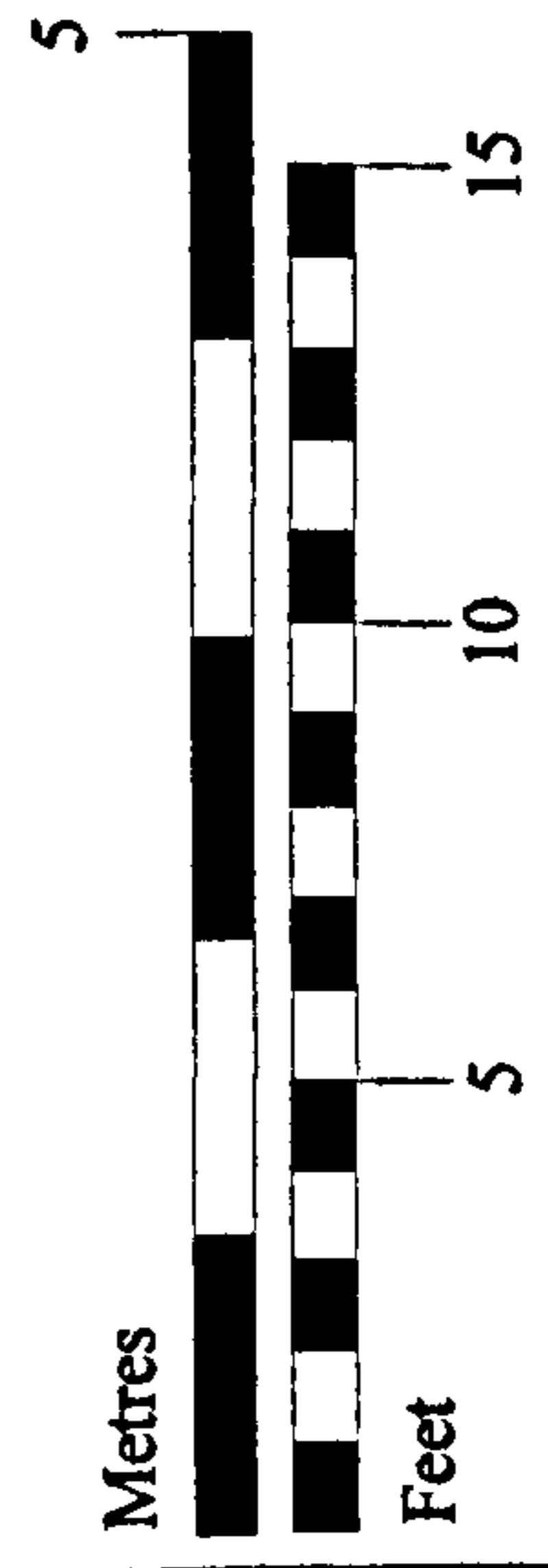


Figure 17 - St. Michael-le-Belfrey, York: East wall, exterior, stone-by-stone



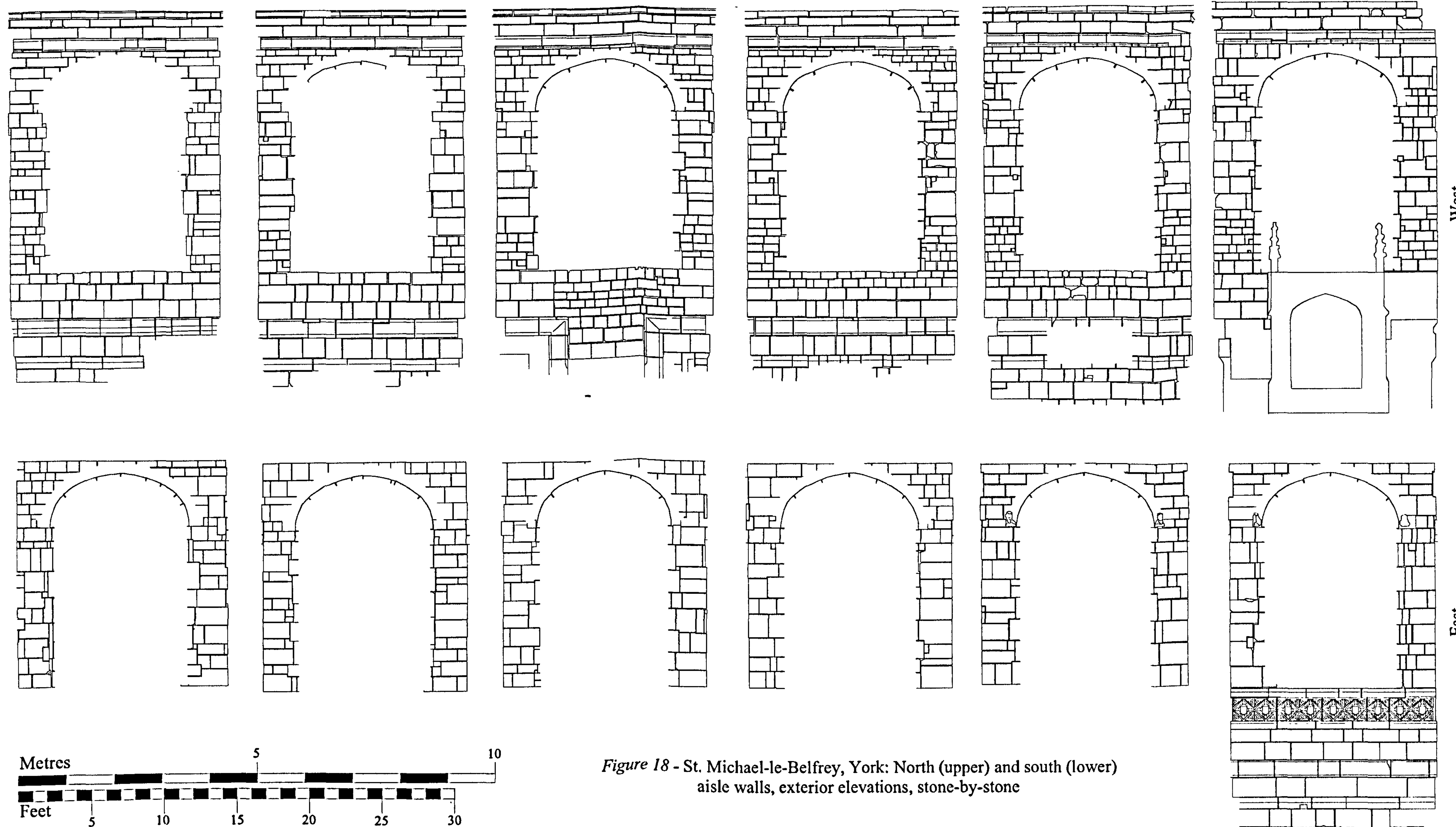
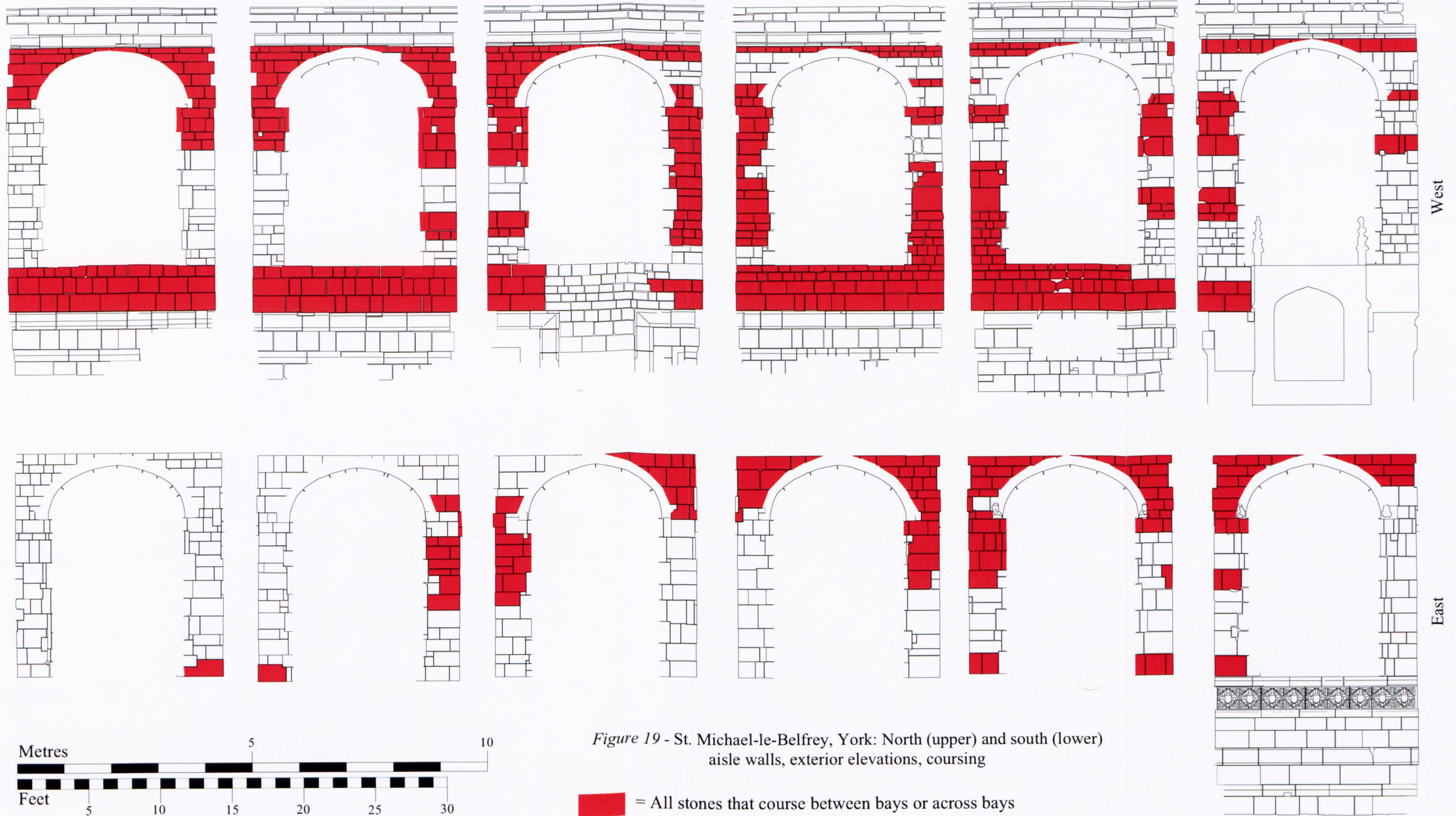


Figure 18 - St. Michael-le-Belfrey, York: North (upper) and south (lower) aisle walls, exterior elevations, stone-by-stone

Original in colour



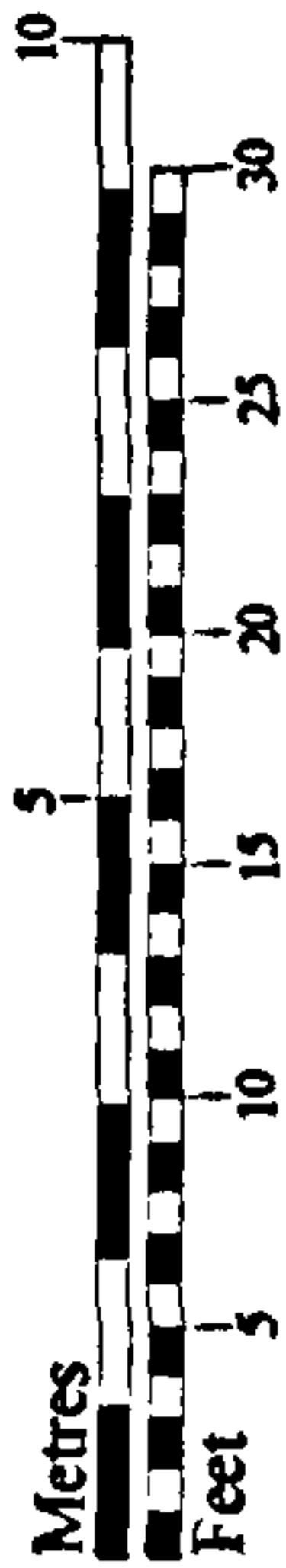
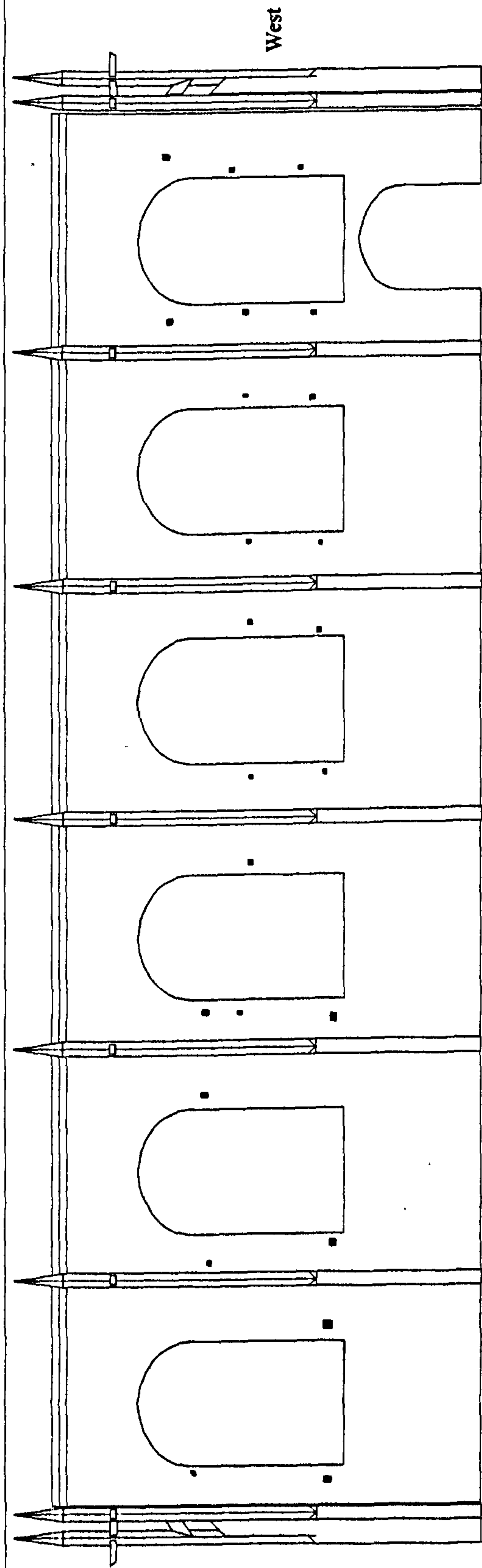
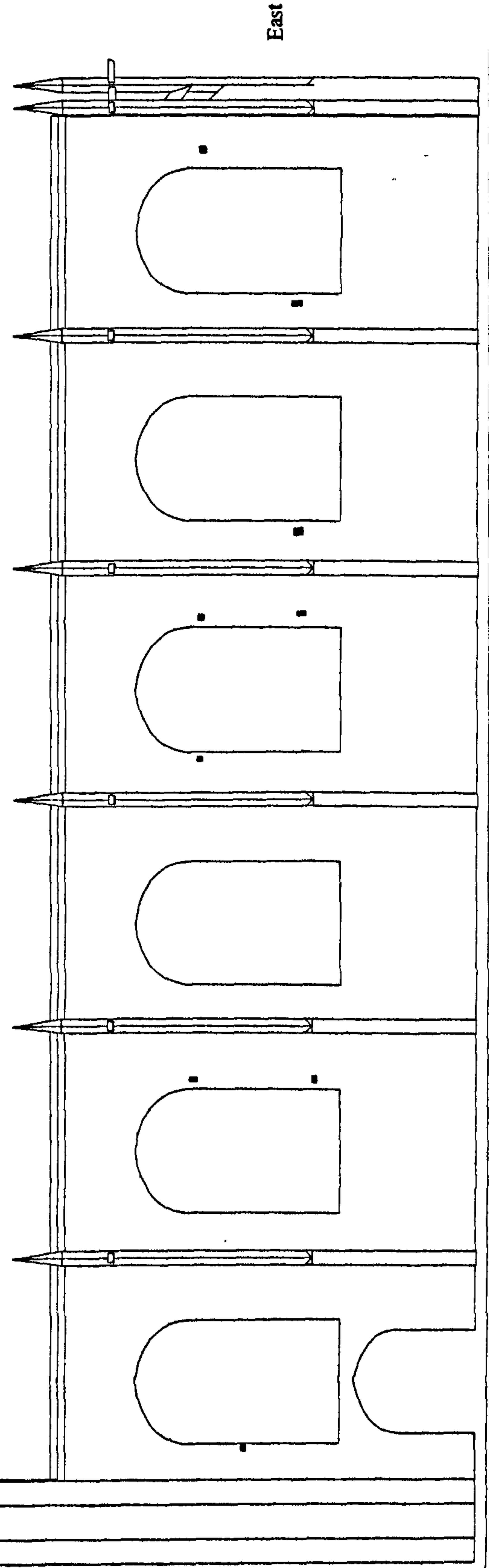
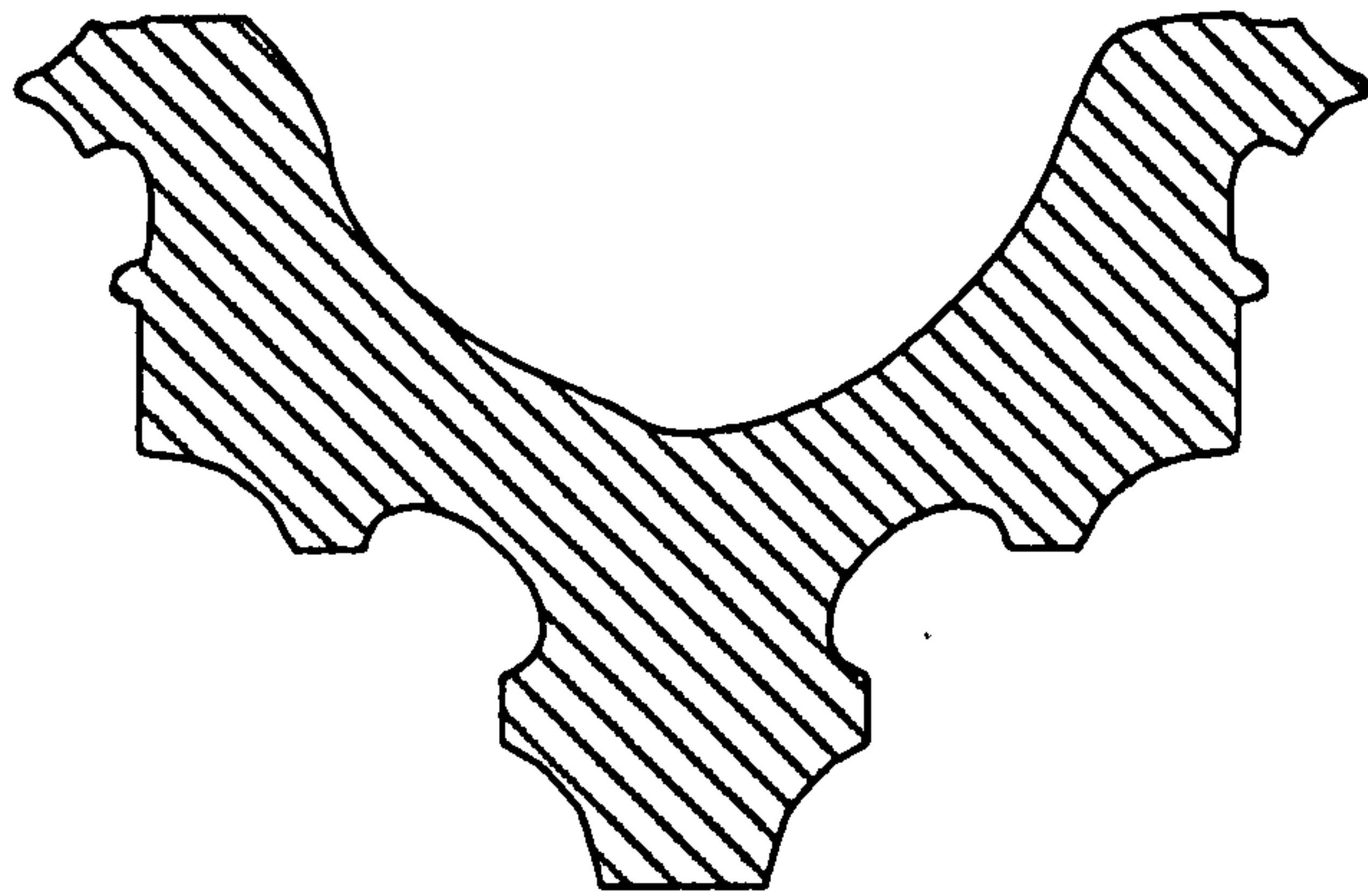


Figure 20 - St. Michael-le-Belfrey, York: North (upper) and south (lower) aisles, positions of putlog holes

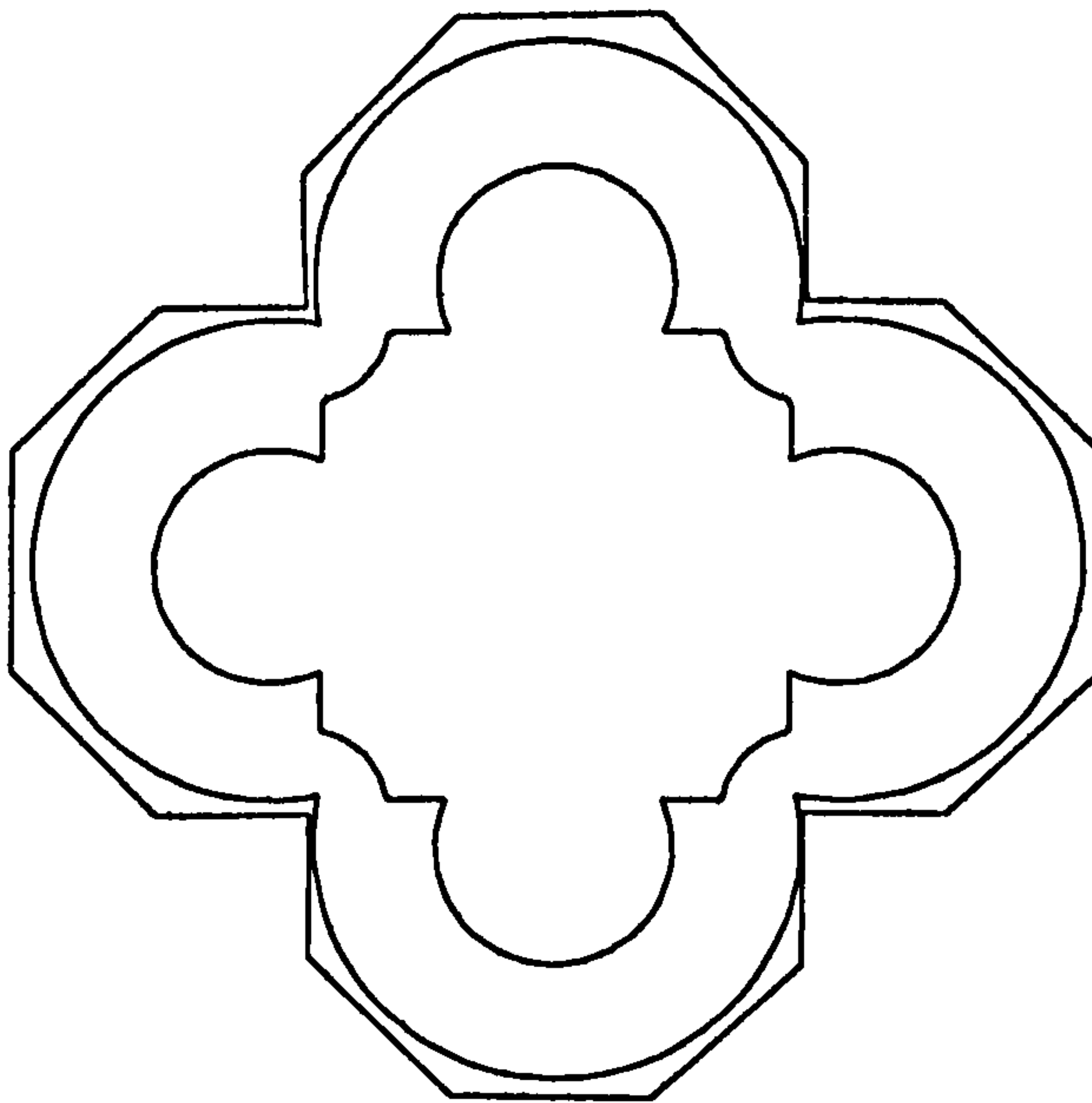




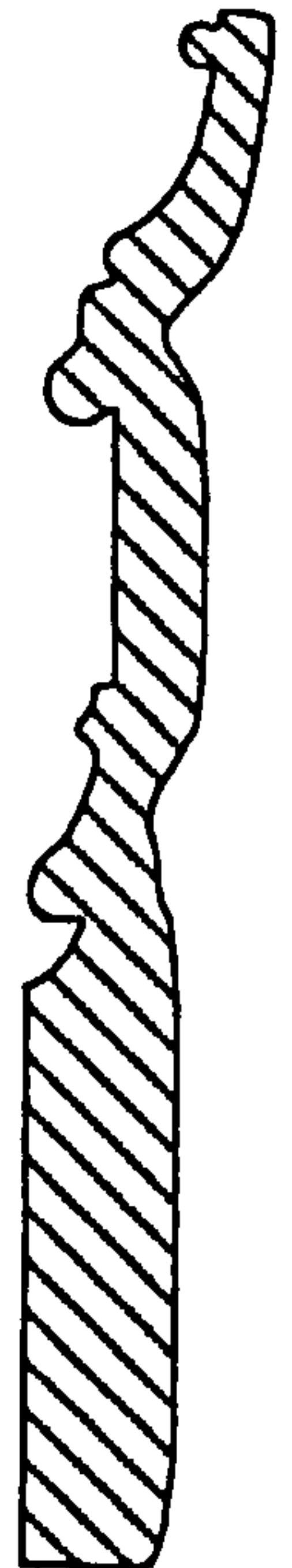
Arcade Arch



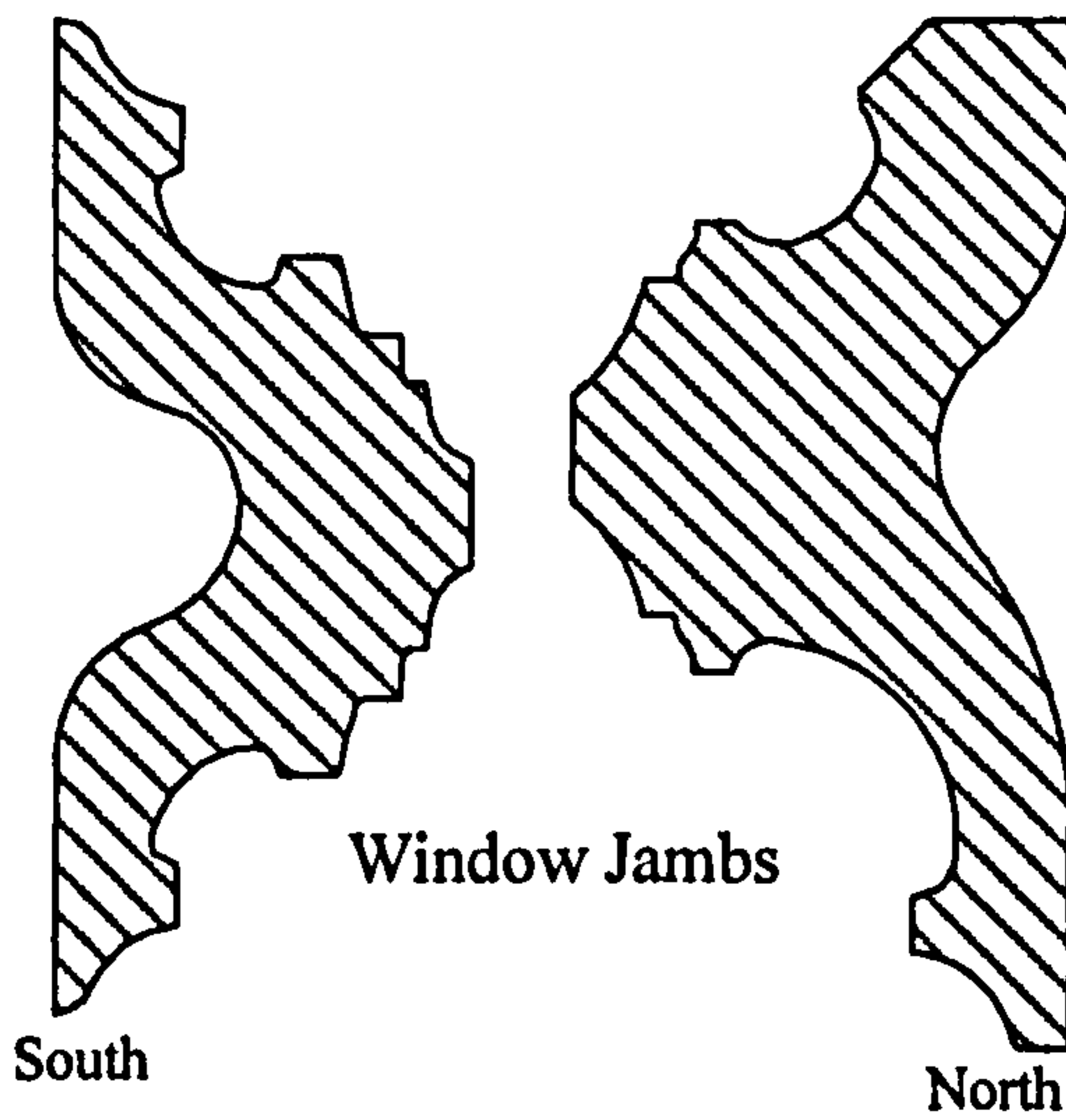
Pier Capital



Pier Section



Pier Base



Window Jambs

South

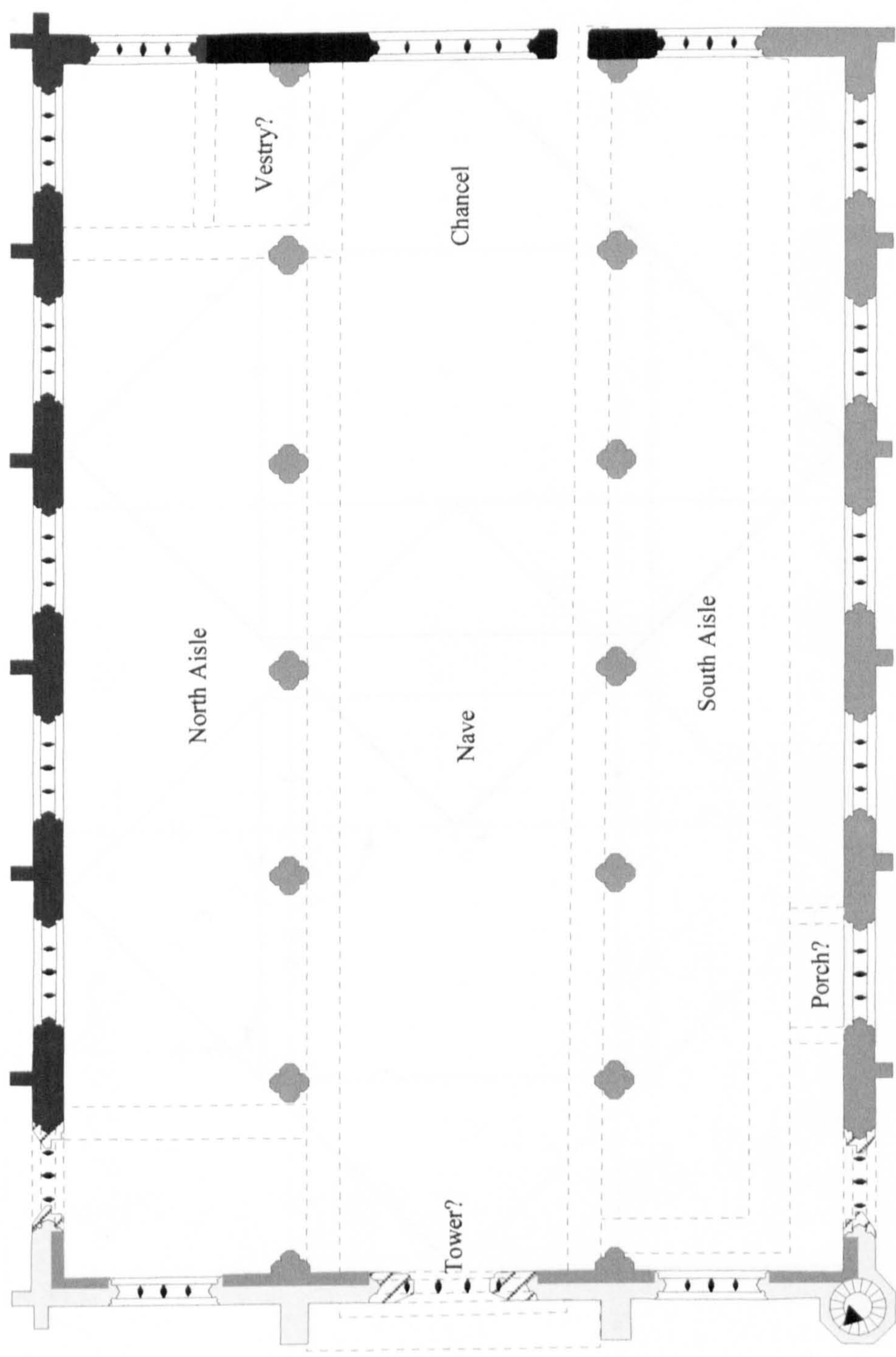
North

Figure 21 - St. Michael-le-Belfrey, York:
Moulding profiles and pier section

Centimetres (10s)



Inches



- 14C
- Late 15C?
- 1525-1537
- 1867
- Pre-1525?

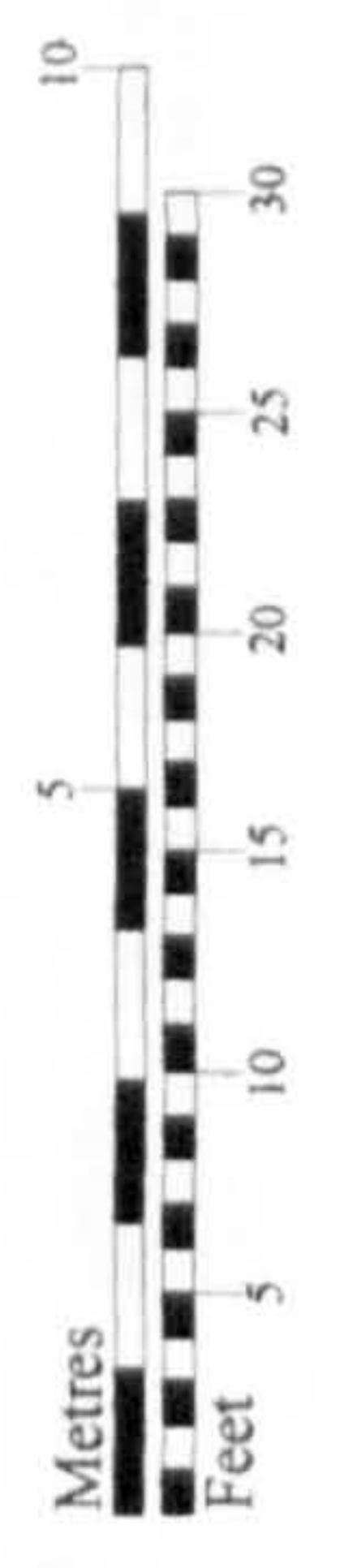


Figure 22
 St. Michael-le-Belfrey, York: Phased plan

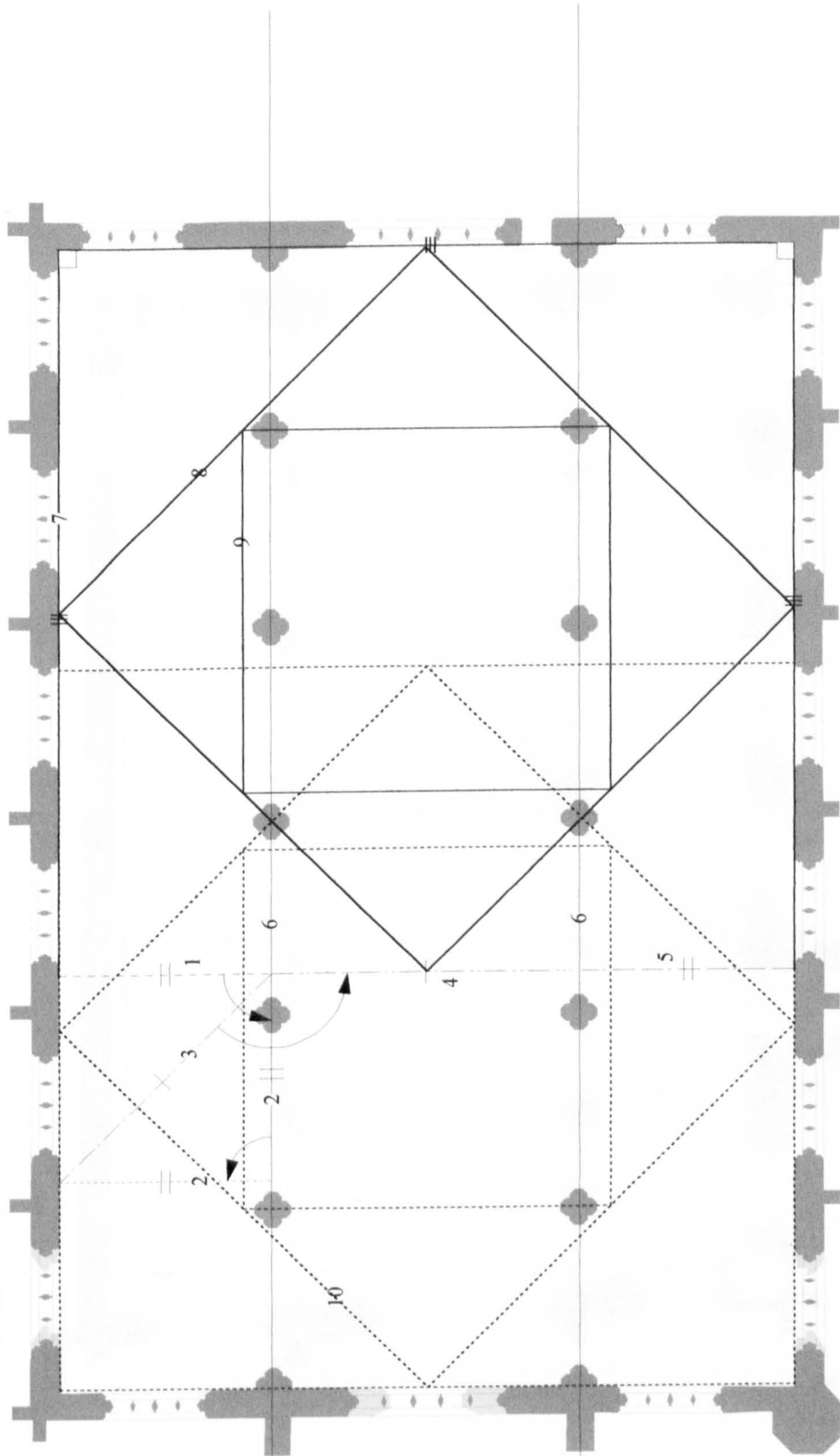


Figure 23
St. Michael-le-Belfrey, York: Plan,
generative geometry

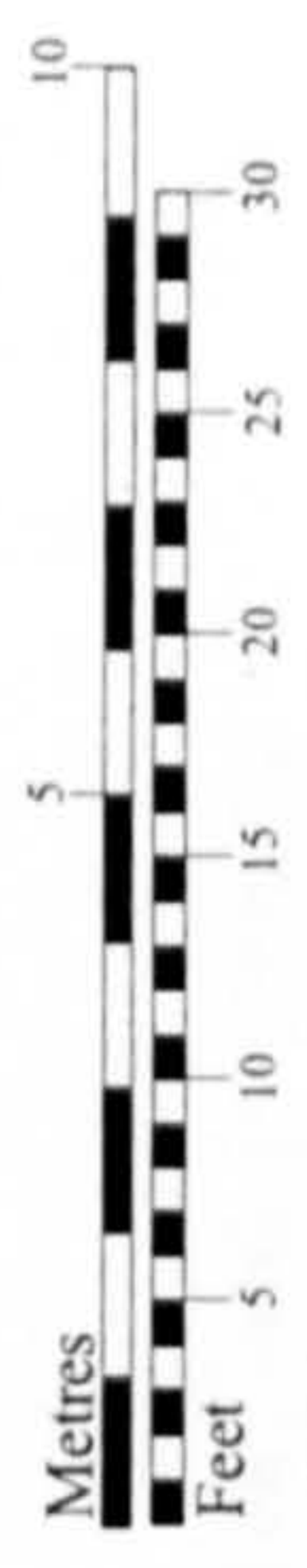
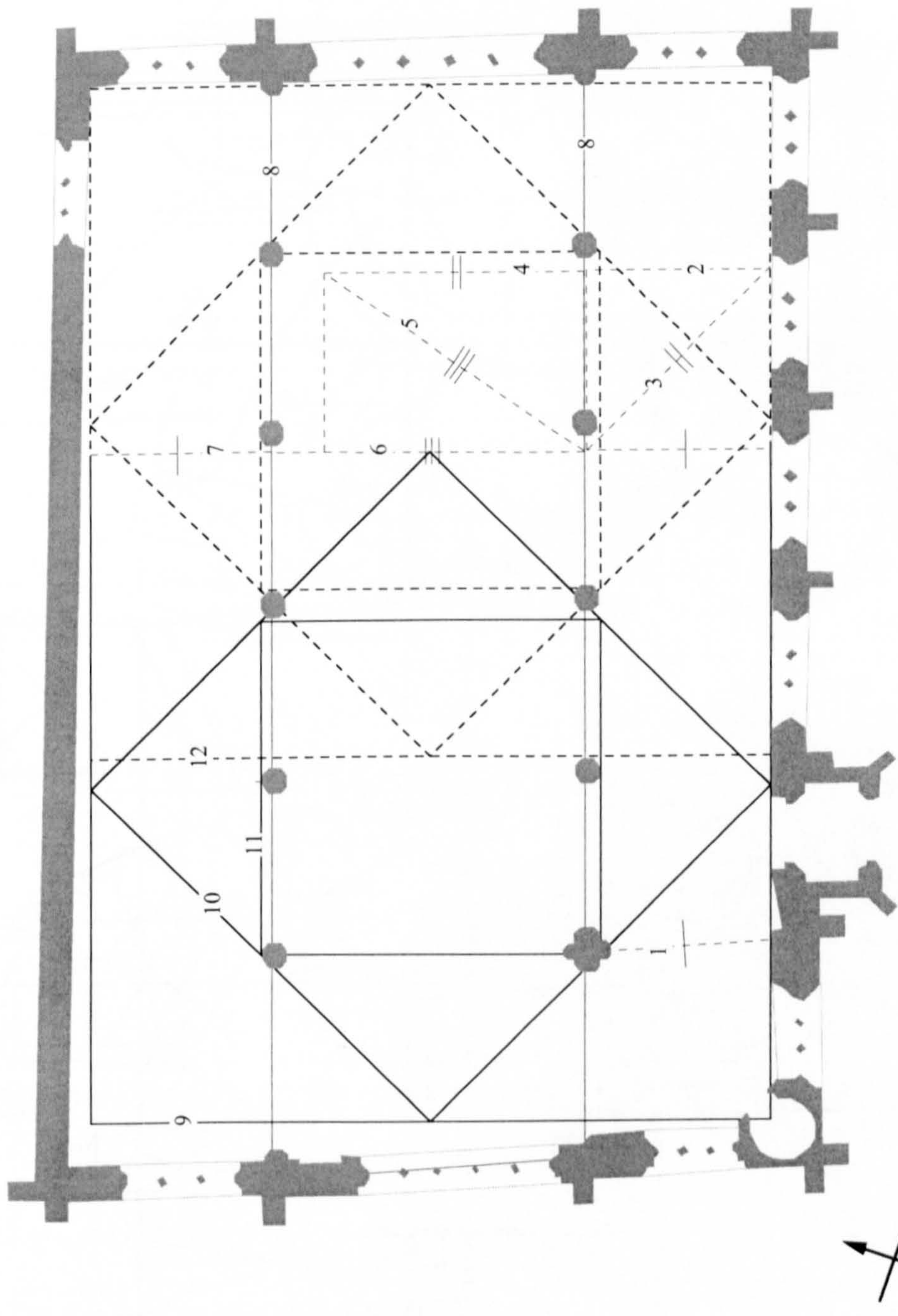
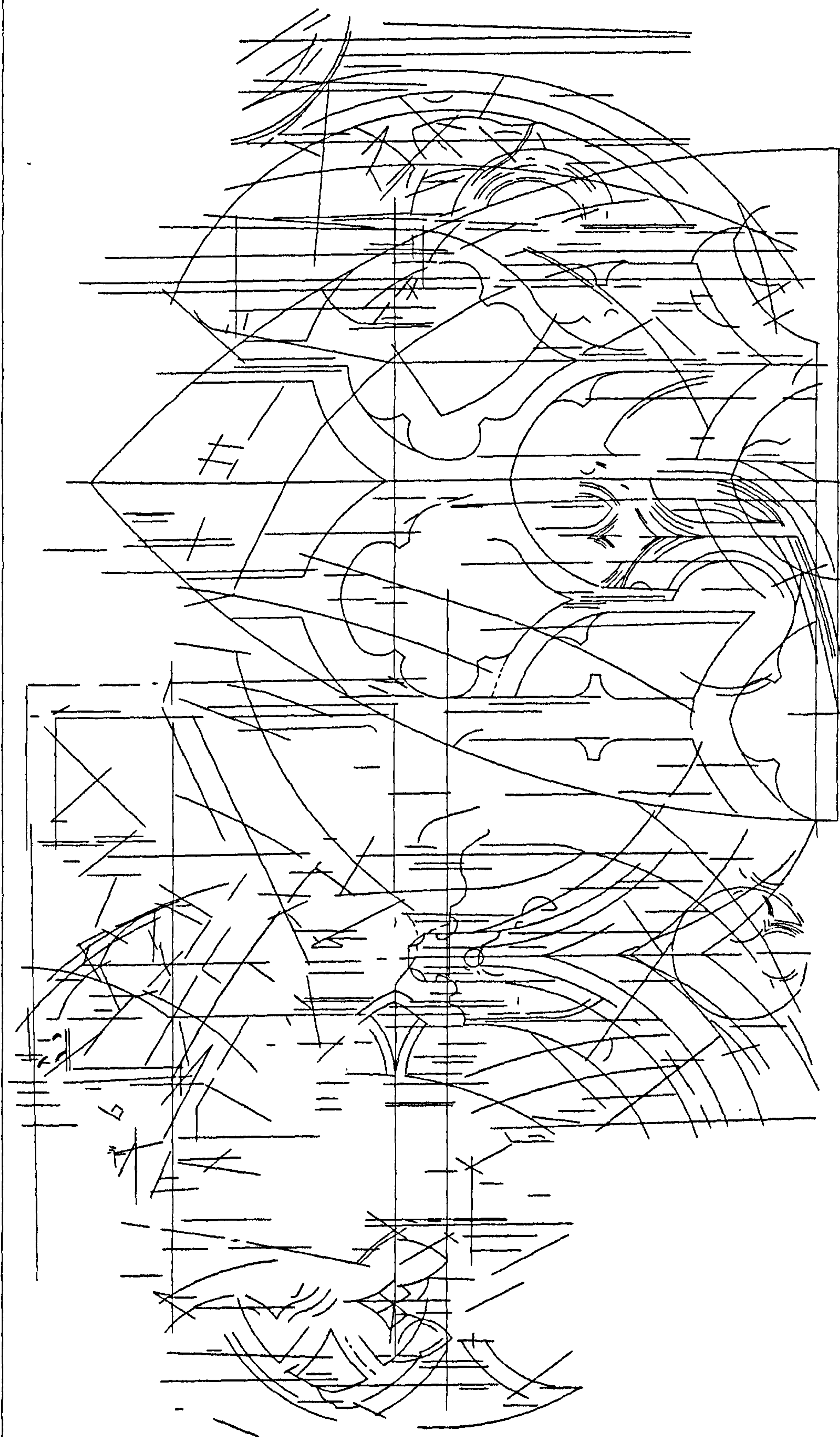


Figure 24 - St. Martin-le-Grand, York: Plan,
 generative geometry c1443
 (Plan after: RCHMEY, *An inventory of the historical
 monuments in the city of York: The central area* (London, 1981), p. 27.)



Metres
Fect

Figure 25 - York Minster, York: Masons' Loft, tracing floor
(Drawing by Alex Holton, after: J. Harvey, 'Architectural history from 1291 to 1558', in G.E. Aylmer
and R. Cant (eds.), *A history of York Minster* (Oxford, 1977), p. 166)

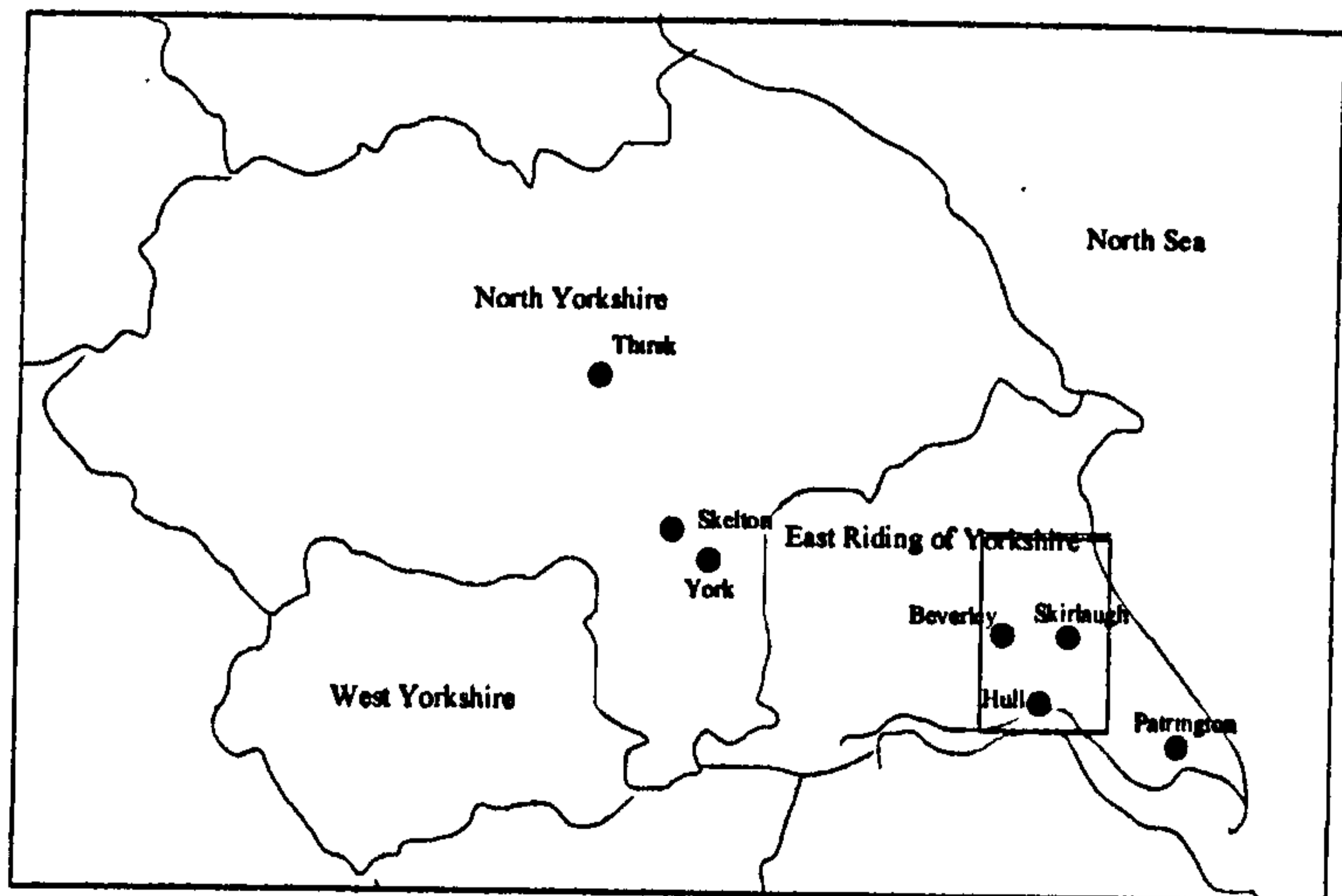
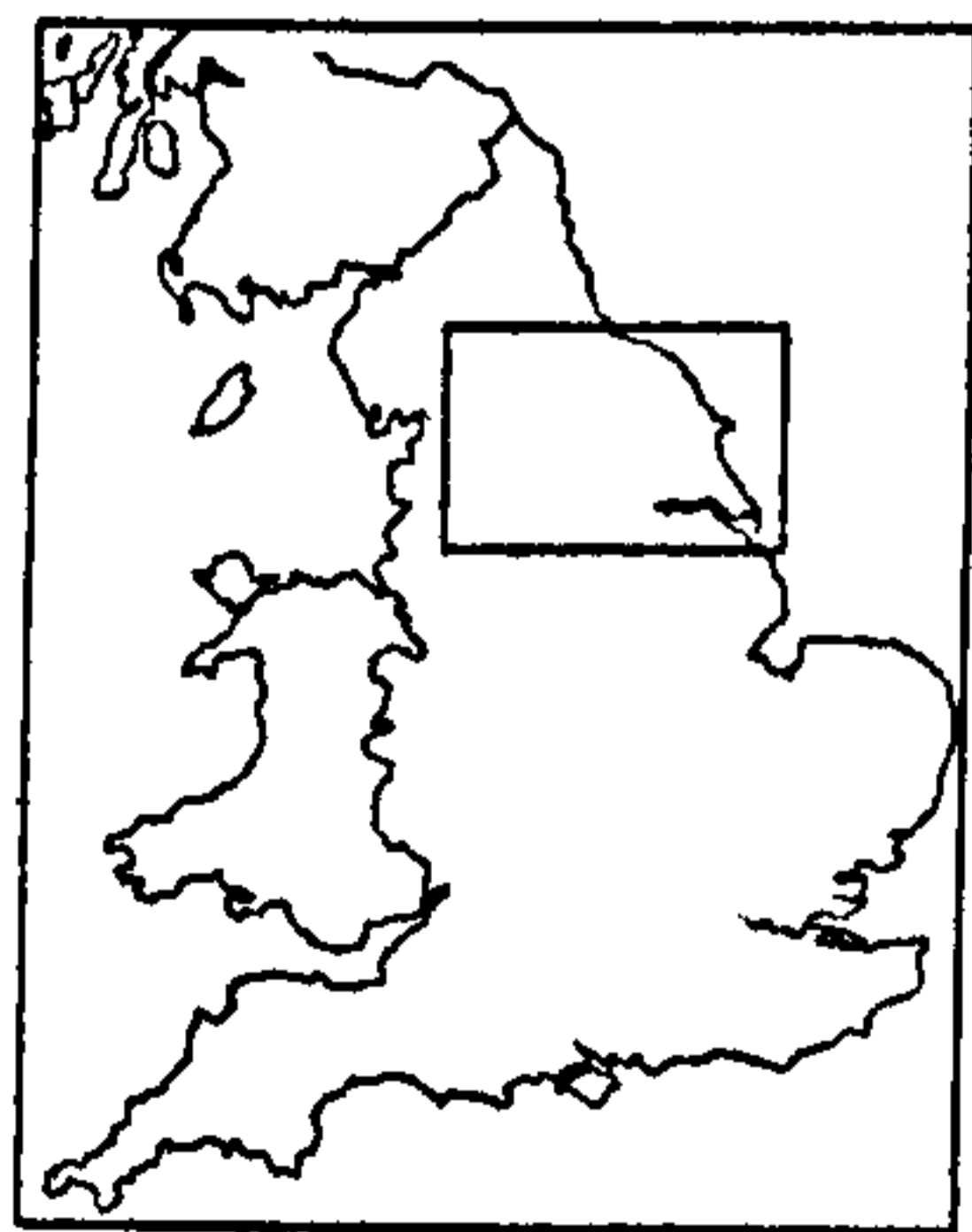
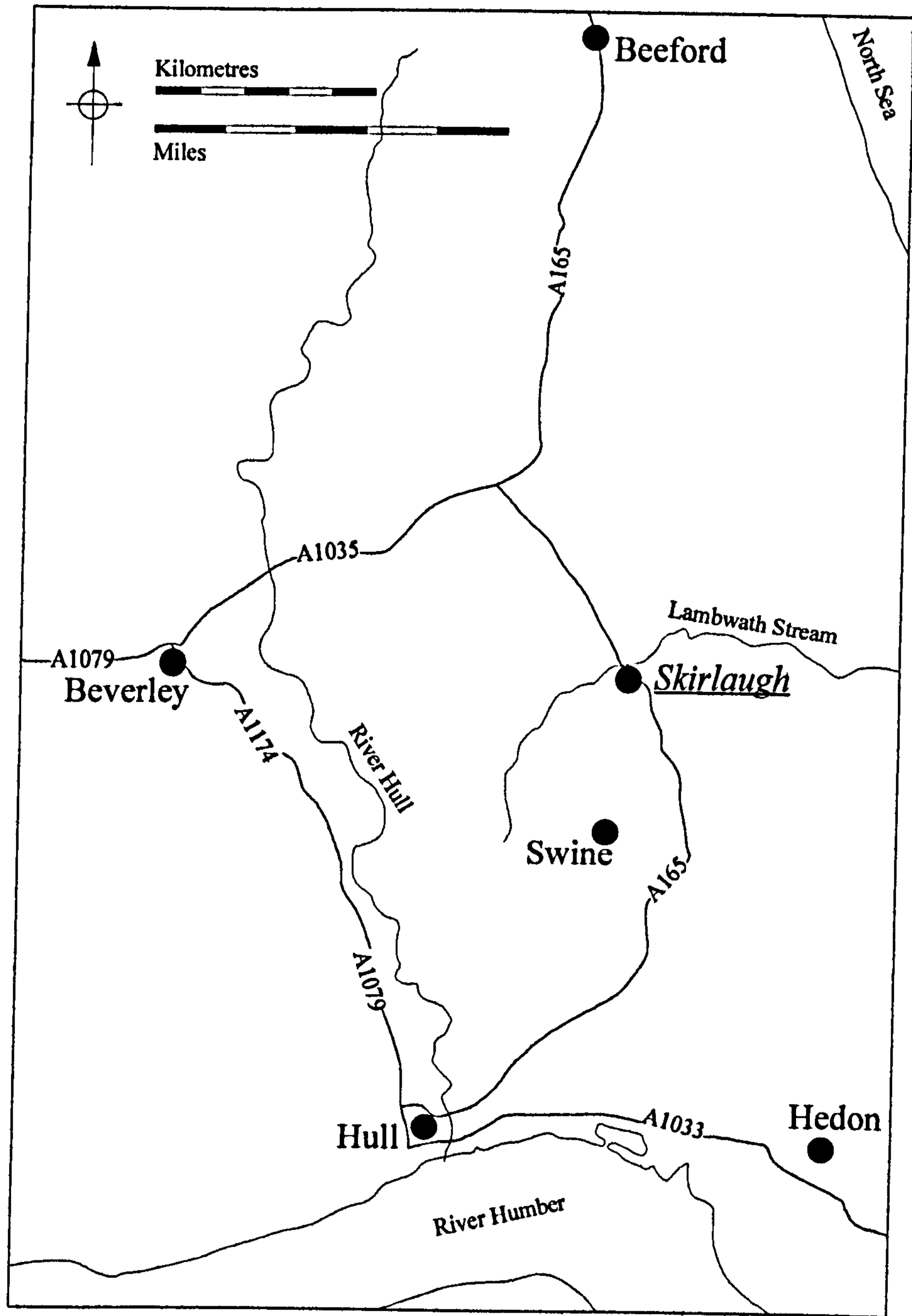


Figure 26 - Location of Skirlaugh

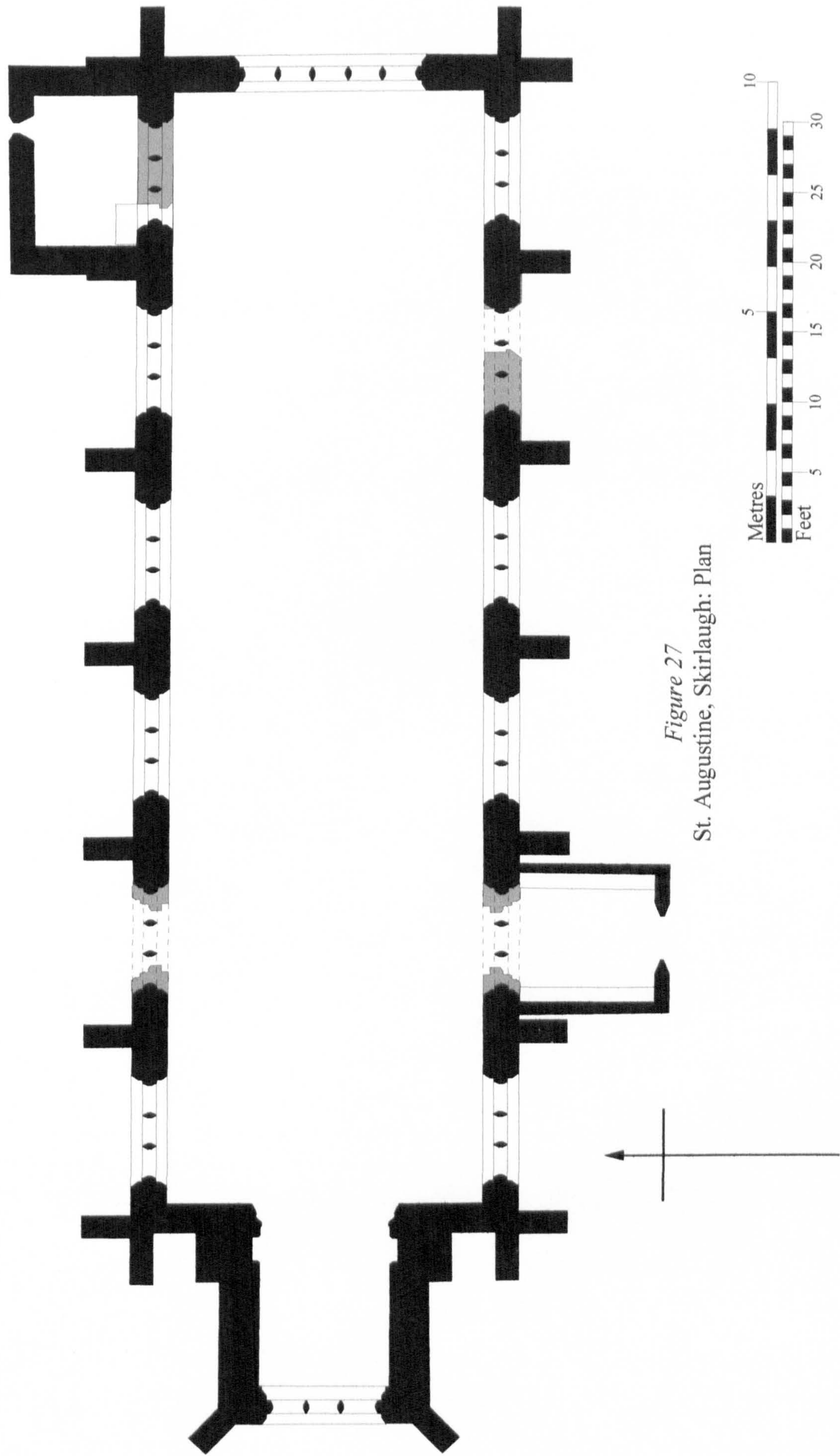


Figure 27
St. Augustine, Skirraugh: Plan

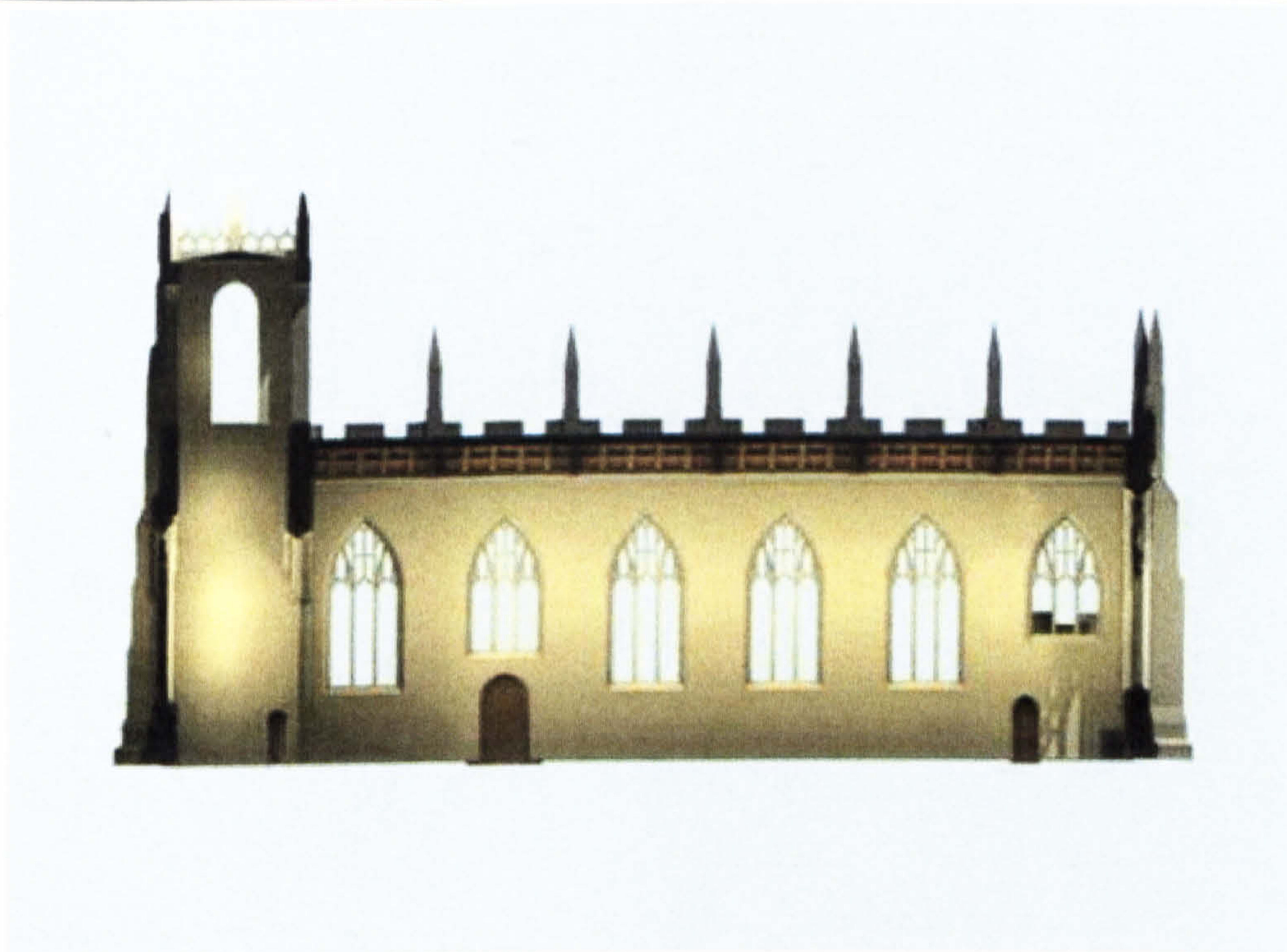


Figure 28 - St. Augustine, Skirlough: Longitudinal section looking north



Figure 29 - St. Augustine, Skirlough: Transverse section looking east

Original in colour

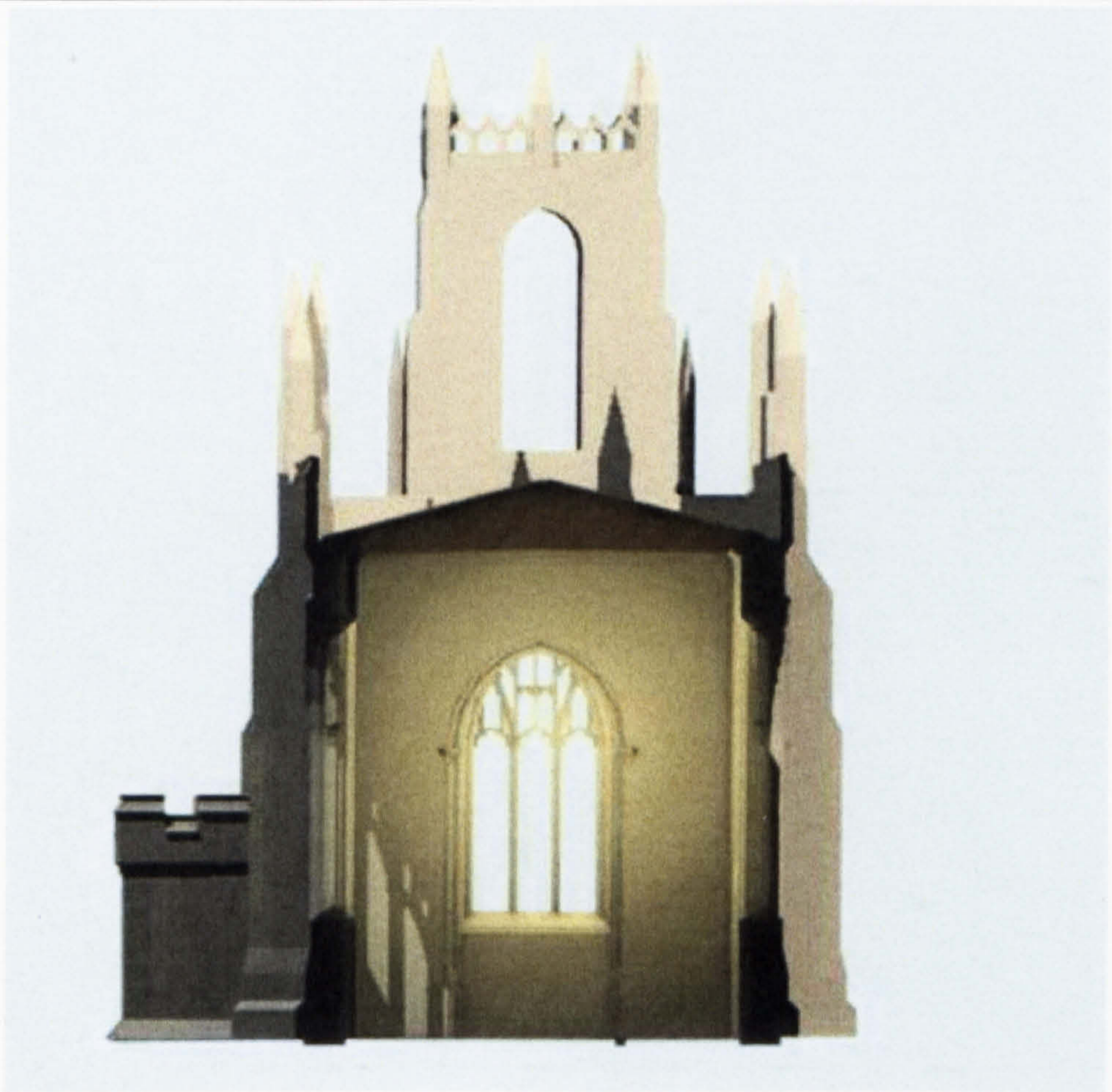


Figure 30 - St. Augustine, Skirlough: Transverse section looking west

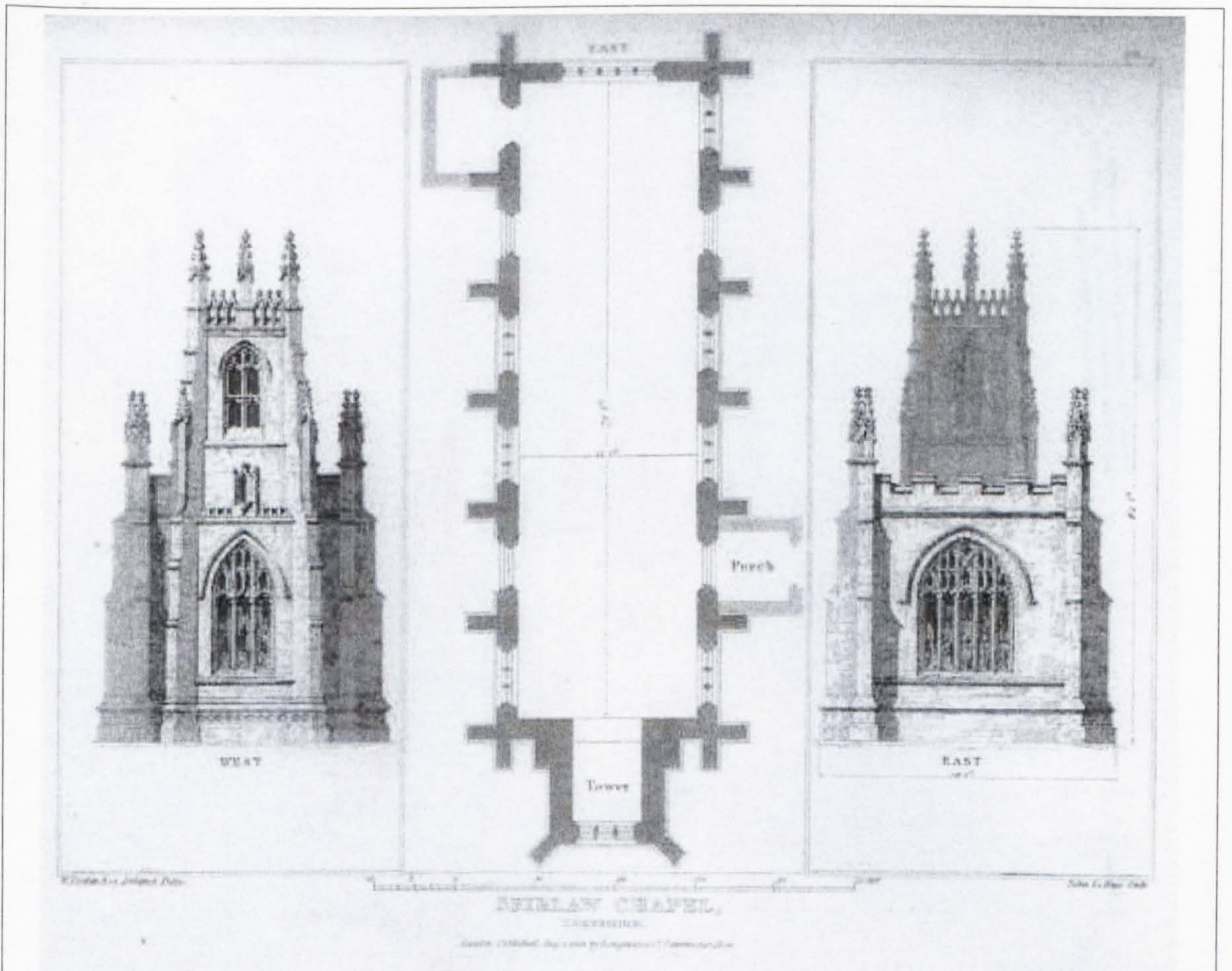
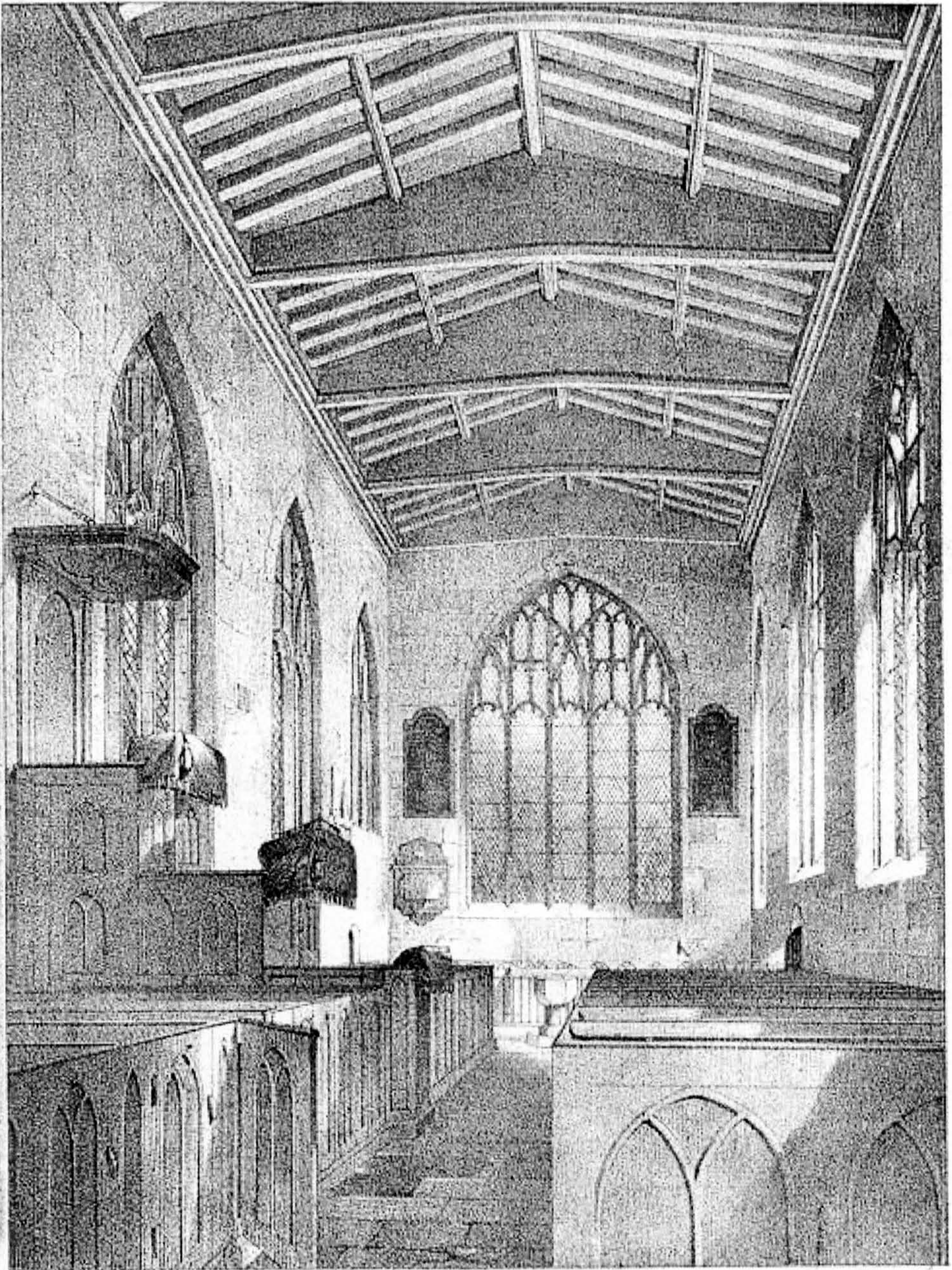


Figure 31 - St. Augustine, Skirlaw: East and west end exterior elevations and plan, 1813
 (From: J. Crosse, 'Skirlaw Chapel, Yorkshire', in J. Britton, *The architectural antiquities of Great Britain* (London:1835), 4: Figure between pp. 98-99.)

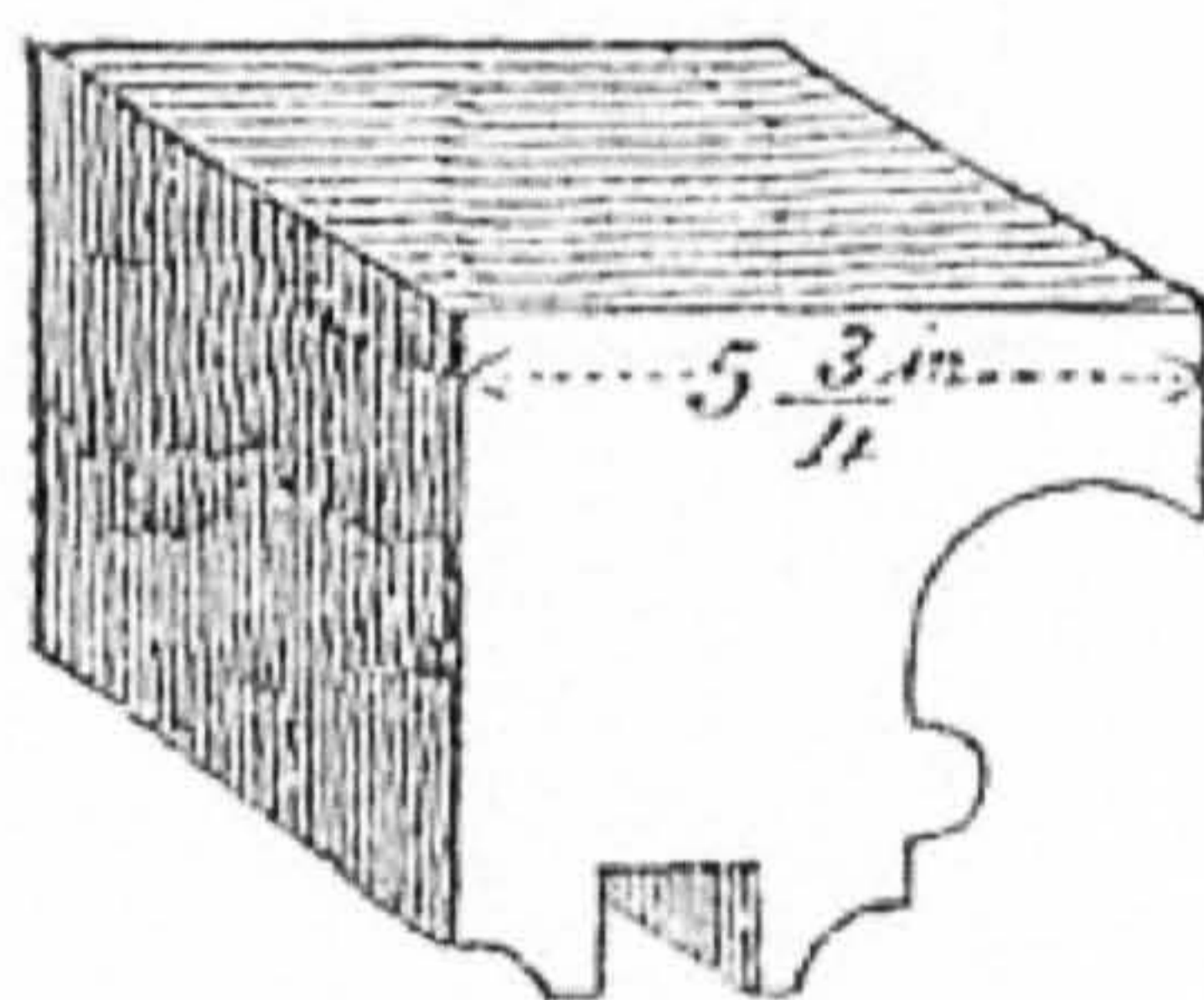


W. Barnes del. et lith.

INTERIOR VIEW OF ST. AUGUSTINE'S CHURCH, SKIRLAUGH.

Engraved from a drawing by W. Barnes, del. et lith.

*Figure 32 - St. Augustine, Skirlaugh: Interior perspective view c1844
(From: G.A. Poole, *St. Augustine, Skirlaugh* (Leeds, 1844).)*



Section of a
Fragment of Beam
of Roodscreen

Figure 33 - St. Augustine, Skirlaugh: Fragment of moulding from the roodscreen
(From: G.A. Poole, *St. Augustine, Skirlaugh* (Leeds, 1844).)

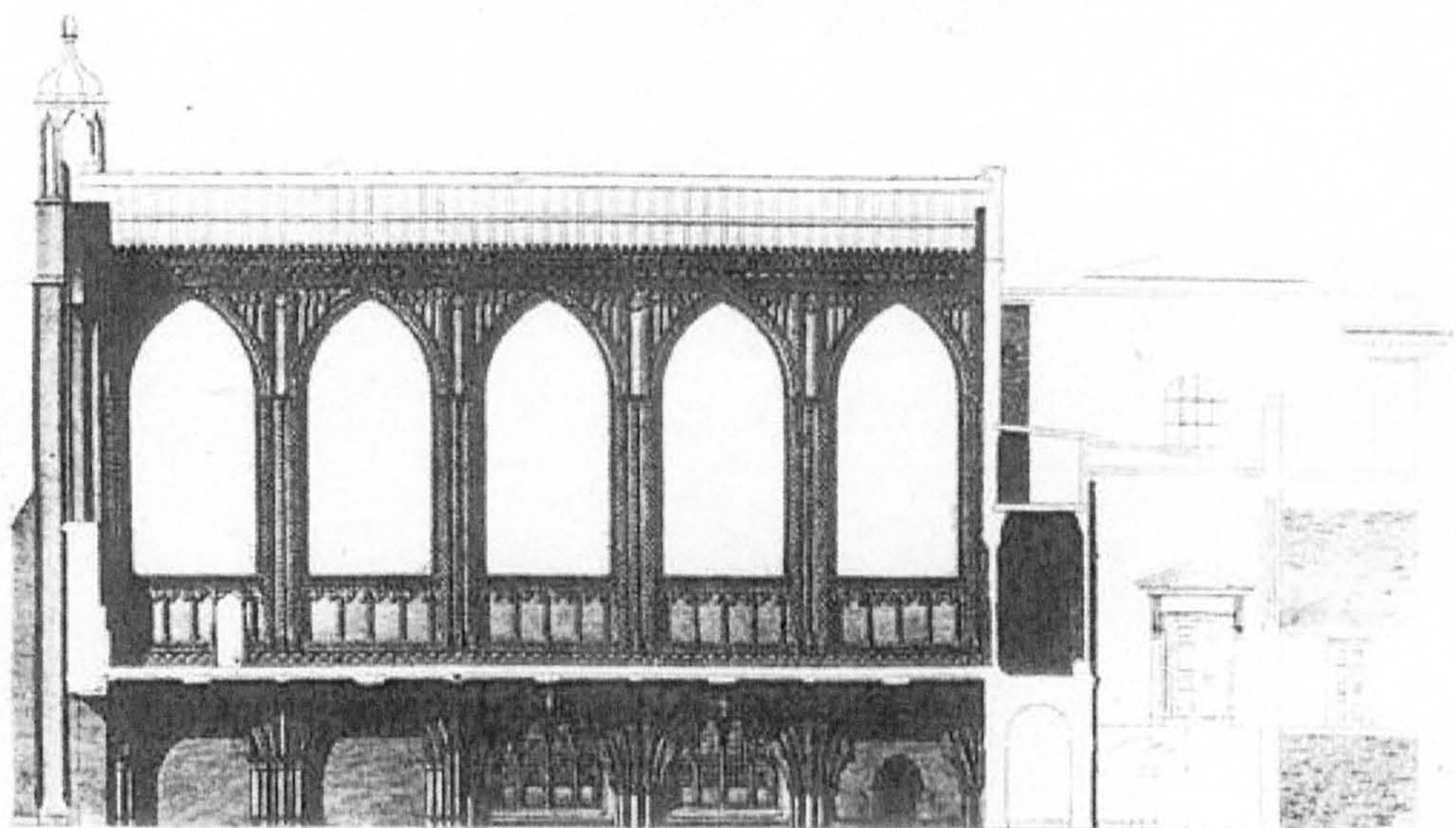
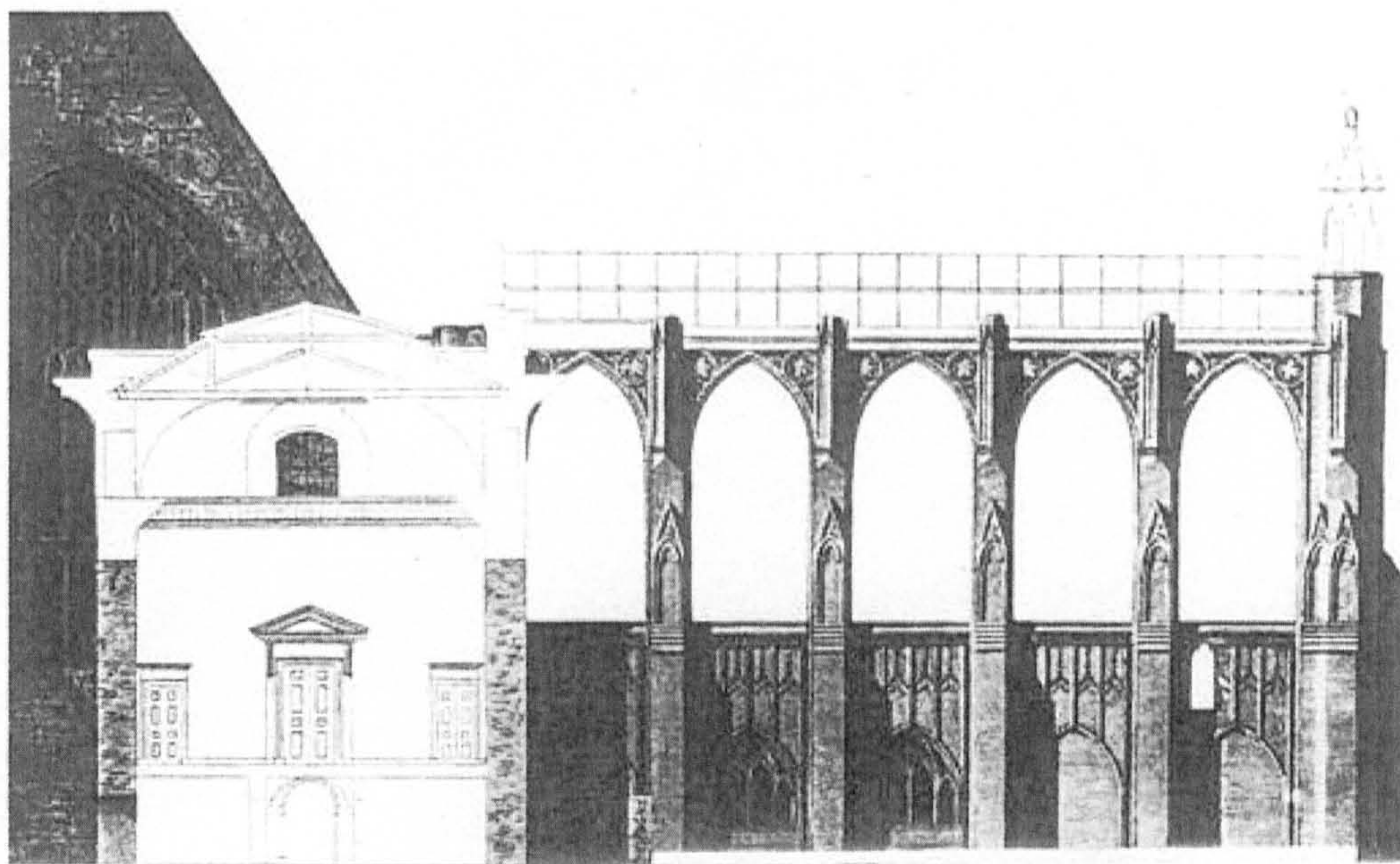


Figure 34 - St. Stephen's Chapel, Westminster Palace: Longitudinal sections c1807

(John Carter. Published: J. Topham, *Some account of the collegiate Chapel of St. Stephen, Westminster*, Society of Antiquaries (London, 1795-1807), reprinted in H.M. Colvin, 'St. Stephen's Chapel', in H.M. Colvin (ed.), *The history of the King's Works* (London, 1963), 1: plate 33.)

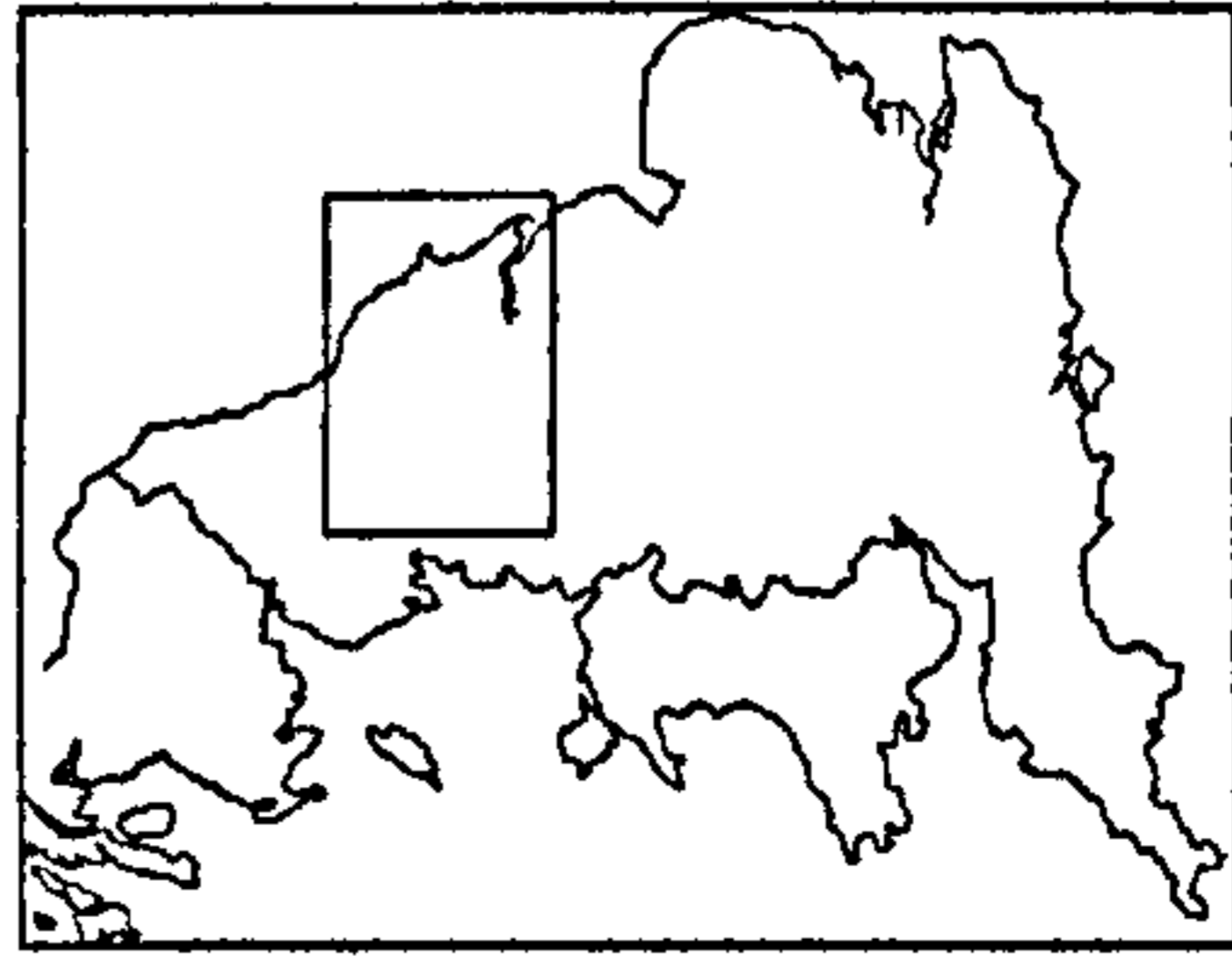
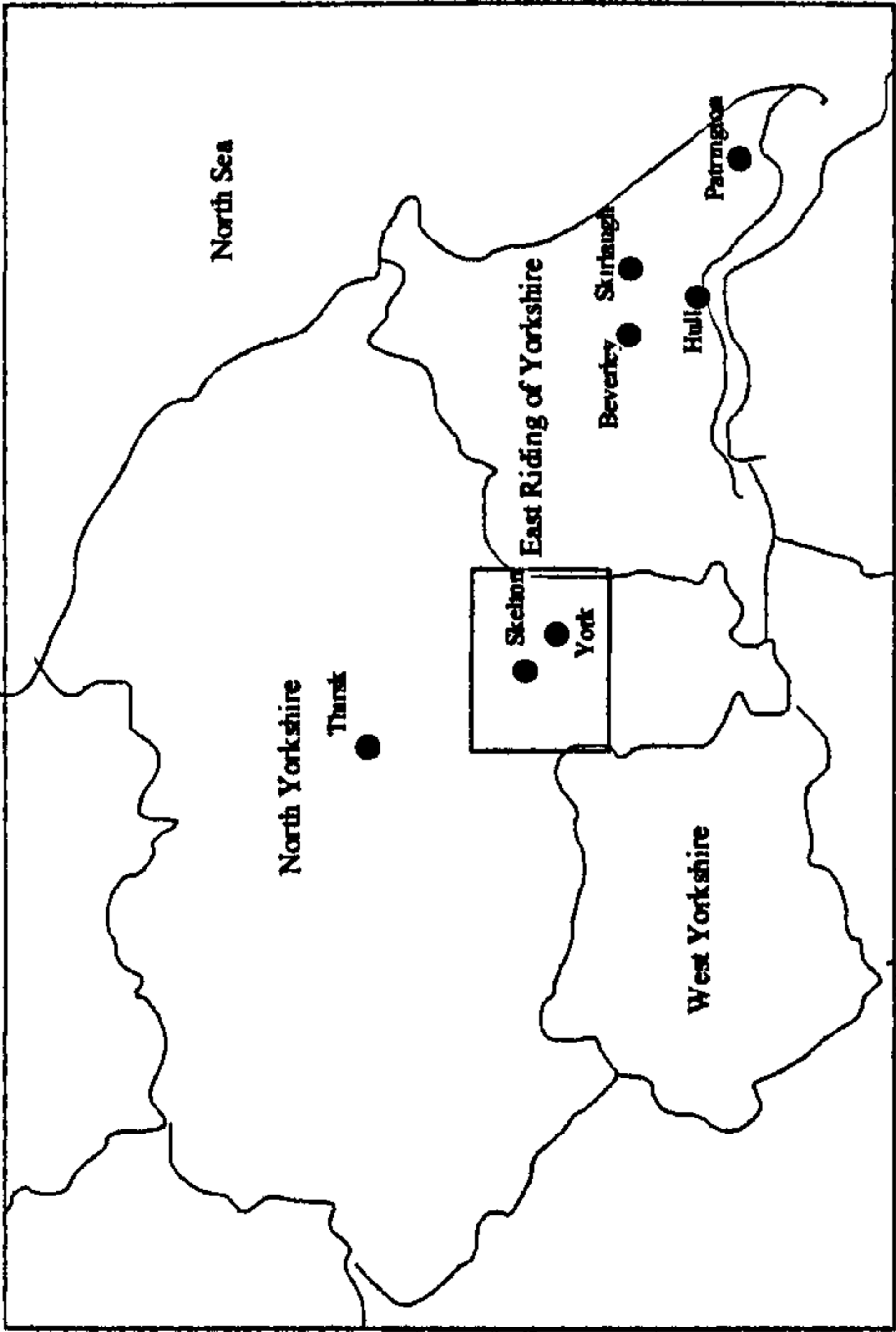
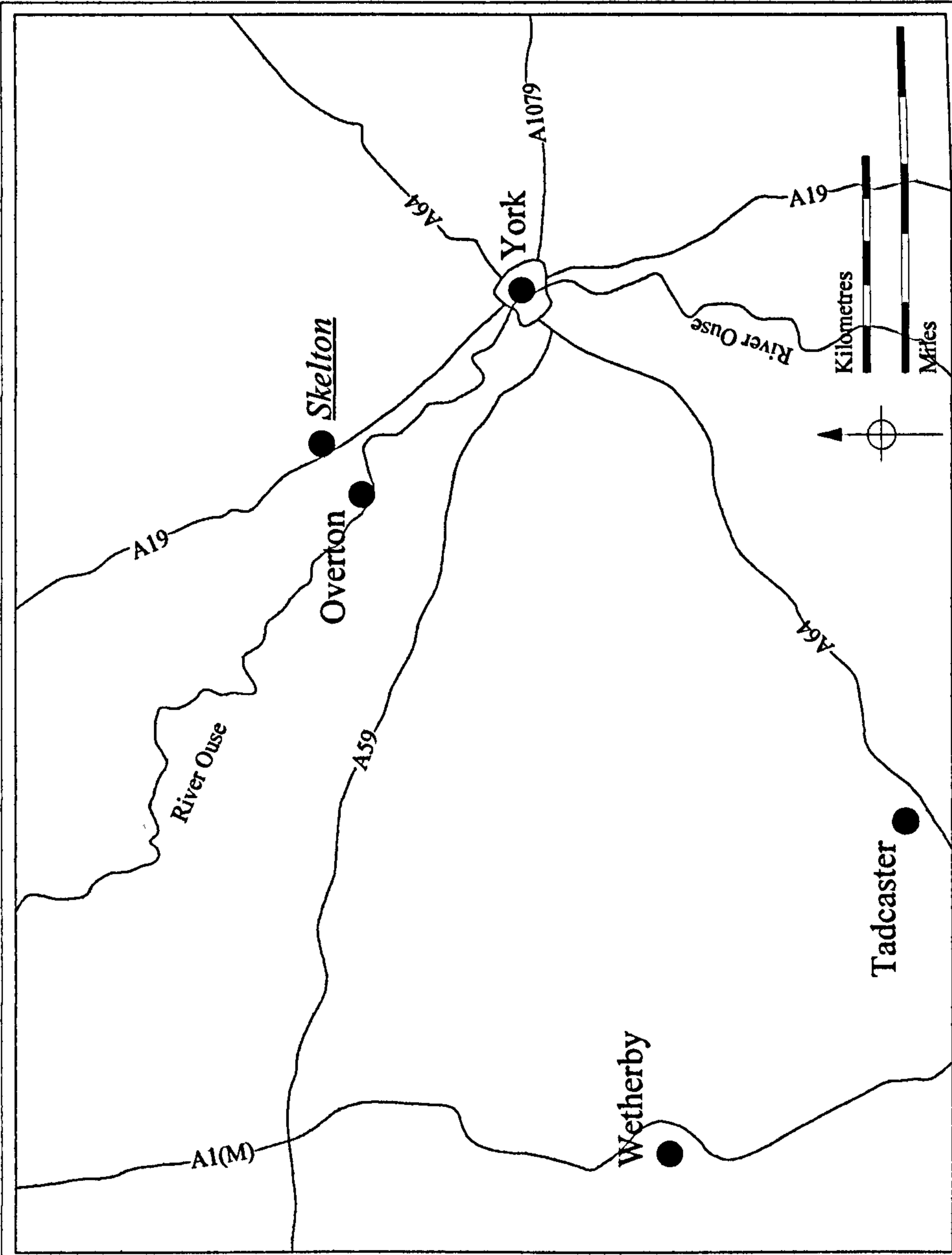


Figure 35 - Location of Skelton

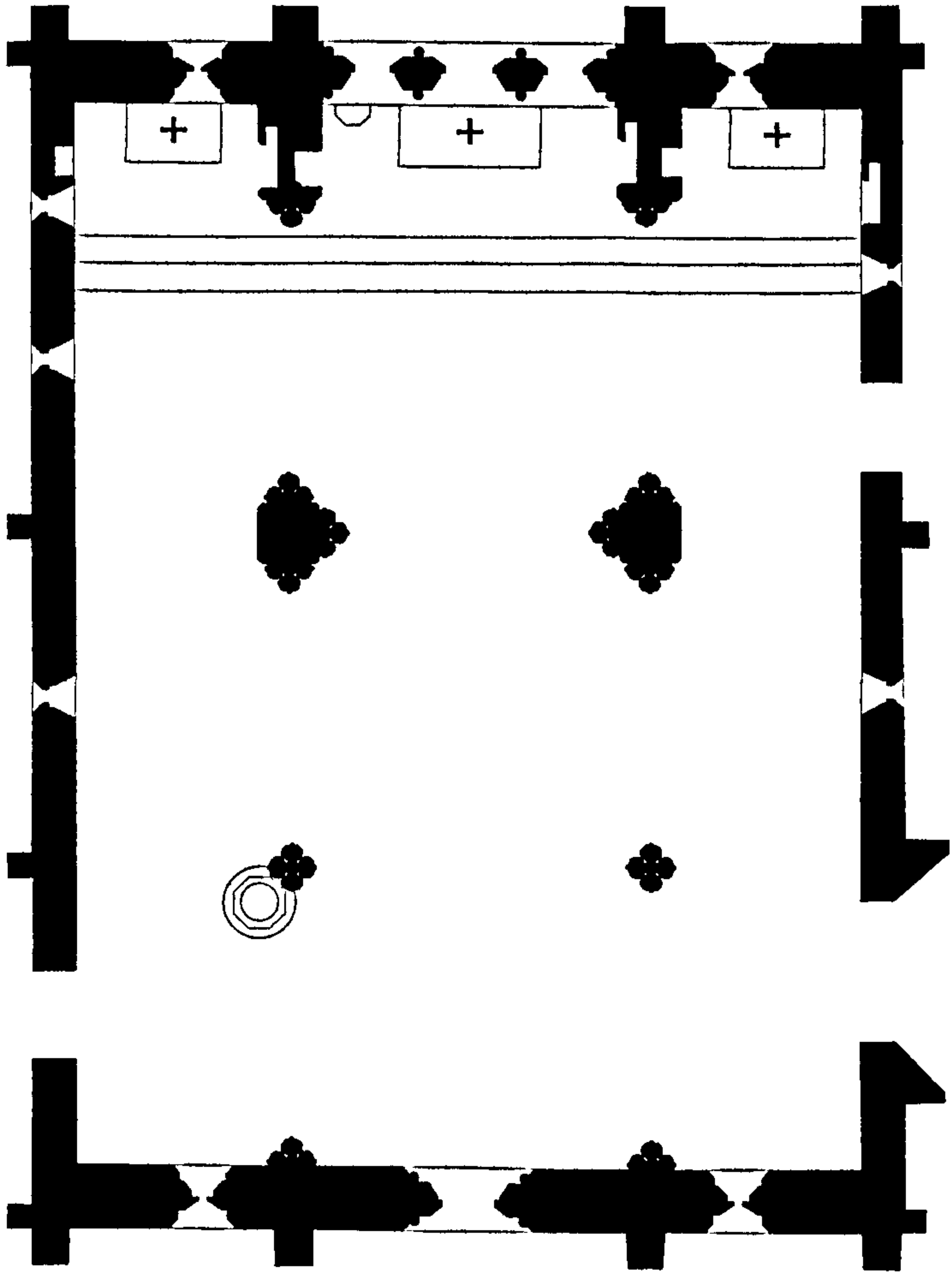
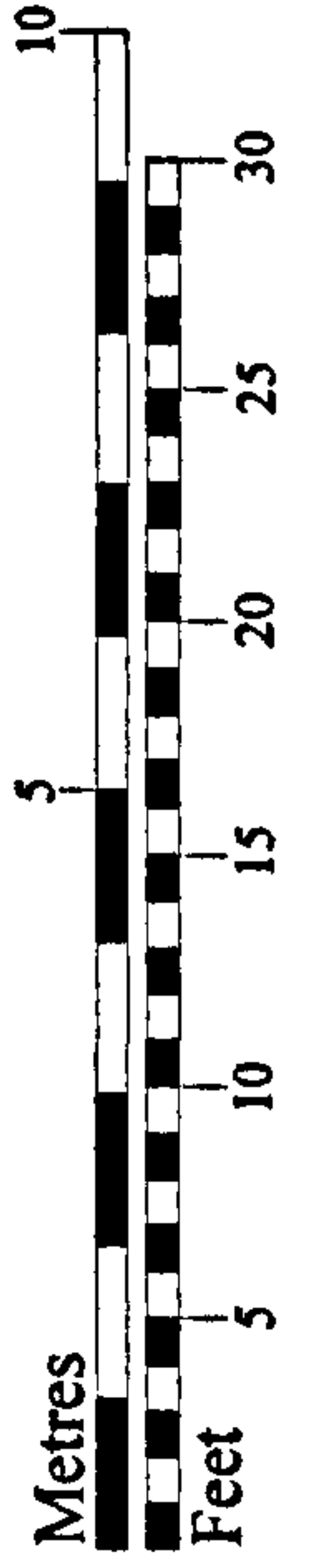


Figure 36
St. Giles, Skelton: Plan



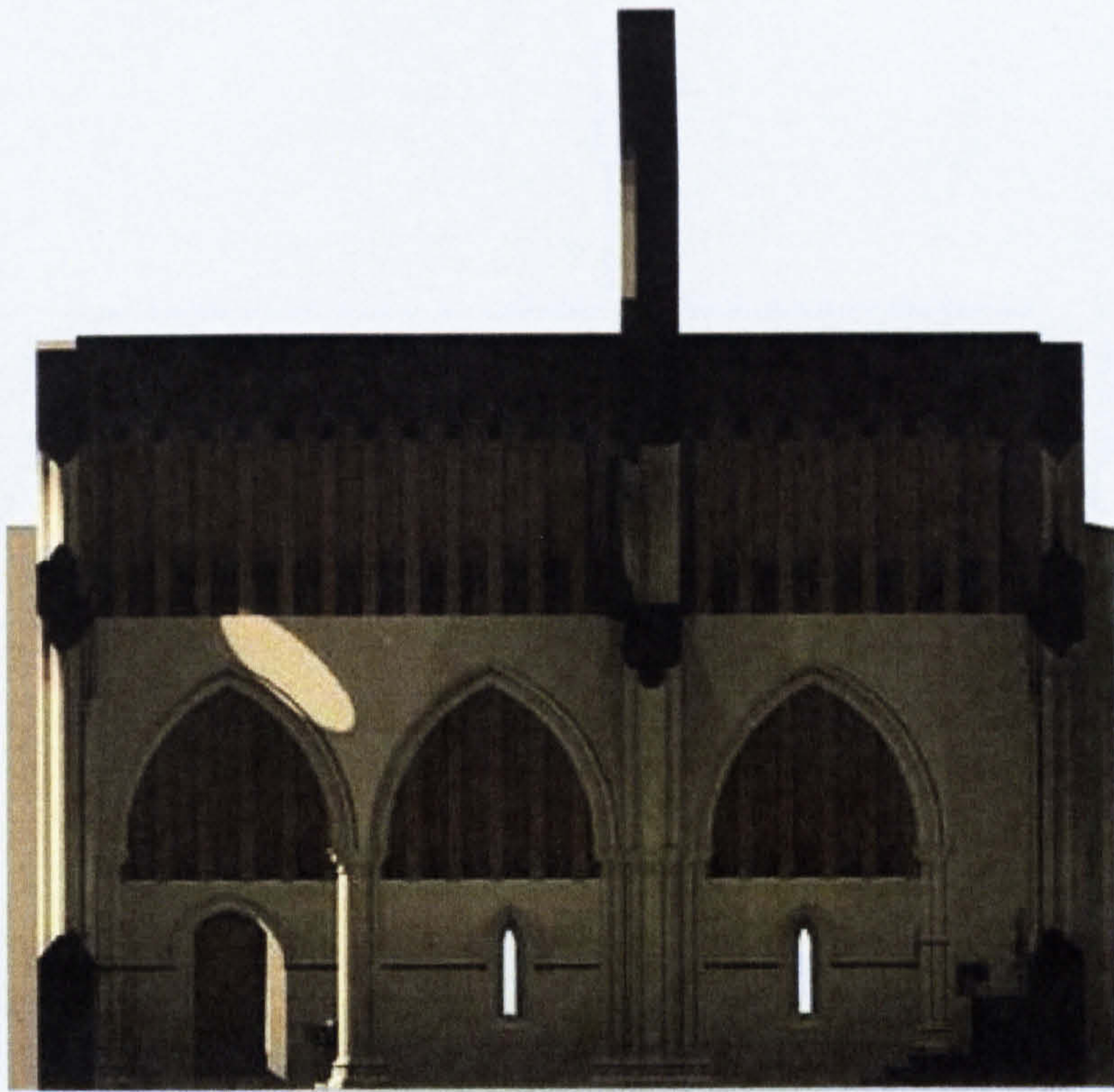


Figure 37 - St. Giles, Skelton: Longitudinal section looking north c1247

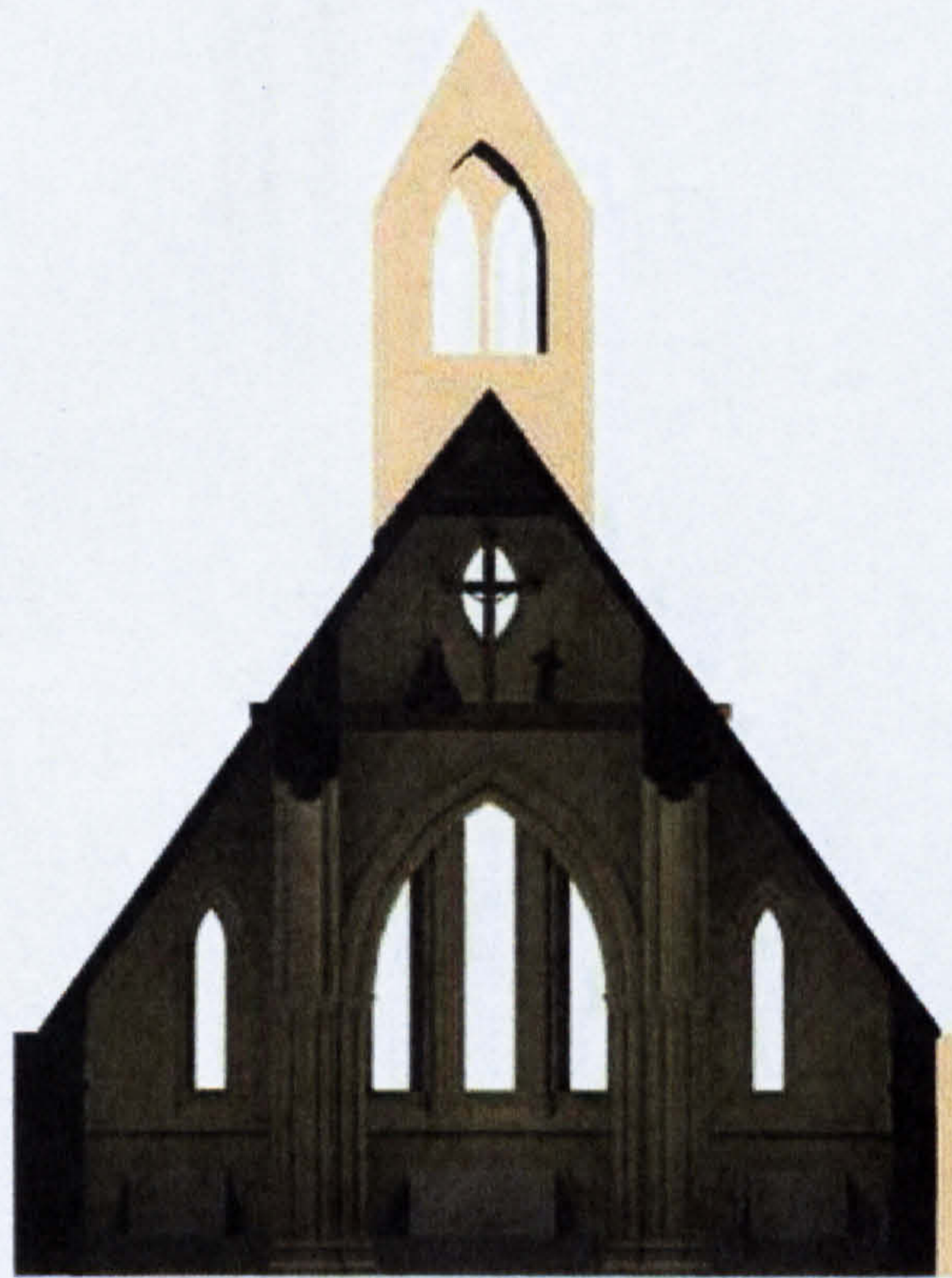


Figure 38 - St. Giles, Skelton: Transverse section looking east c1247



Figure 39 - St. Giles, Skelton: Transverse section looking west c1247

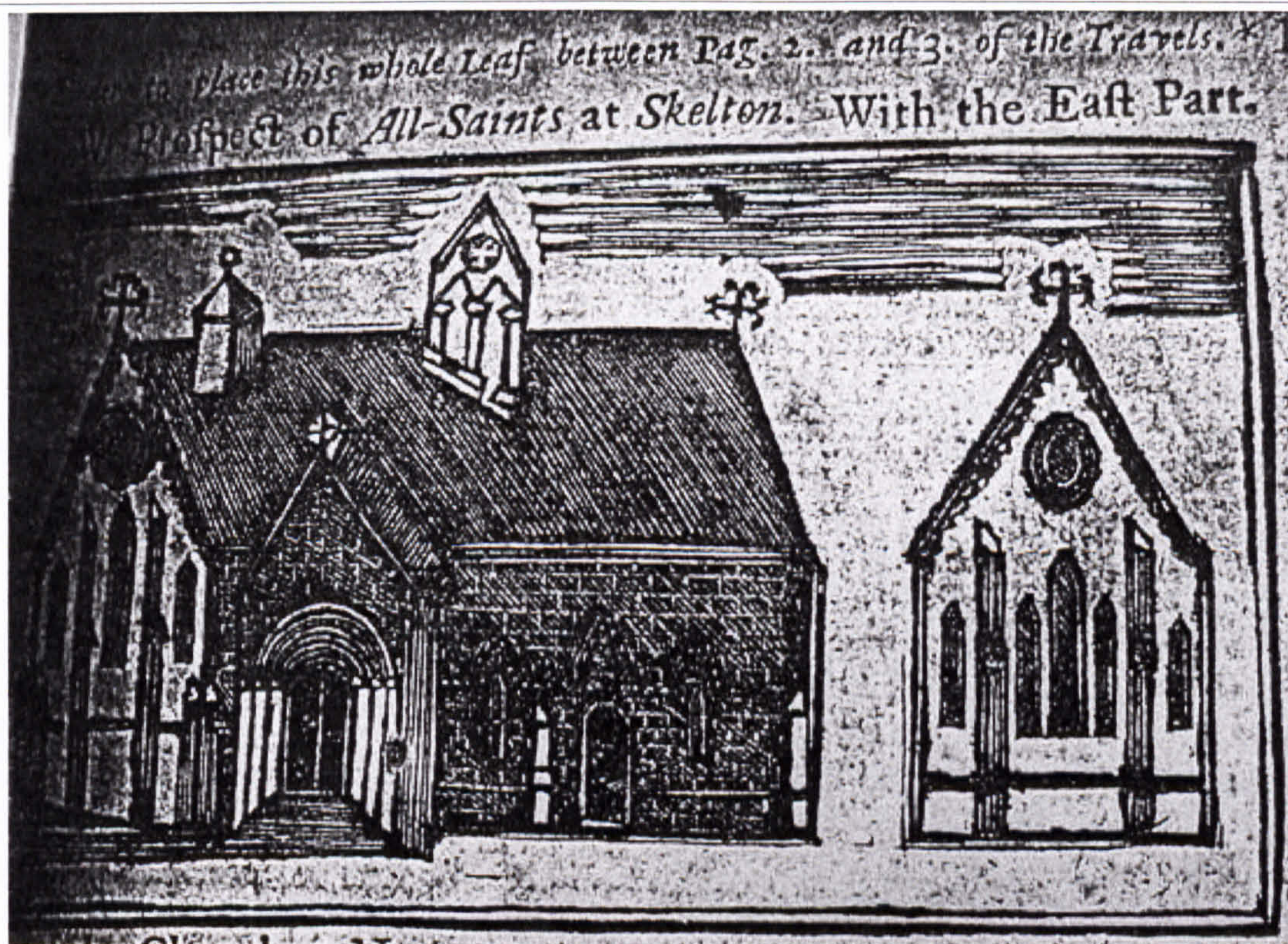


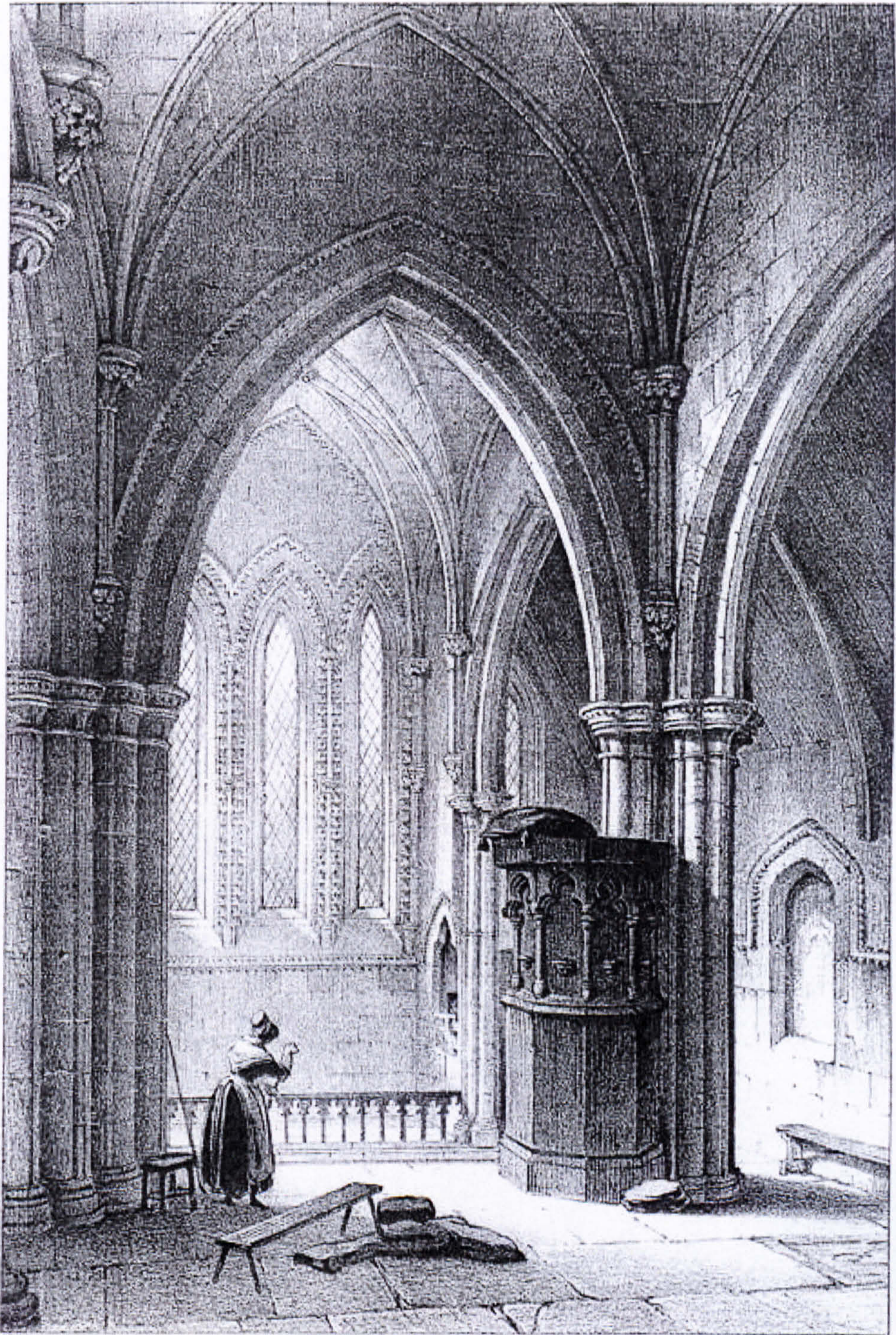
Figure 40 - St. Giles, Skelton: Exterior c1733

(Thomas Gent. From: T. Gent, 'A journey into some parts of Yorkshire', *The antient and modern history of the loyal town of Rippon* (York, 1733), Pl. between pp. 2-3.)



SKELTON CHURCH. South West View.

Figure 41 - St. Giles, Skelton: Exterior c1844
(From: G.A. Poole, *All Saints, Skelton* (Leeds, 1844).)



INTERIOR OF SKELTON CHURCH.

Printed and Published by T. W. Green, 34, Cross Street, Leeds.

Figure 42 - St. Giles, Skelton: Interior c1844
(From: G.A. Poole, *All Saints, Skelton* (Leeds, 1844).)

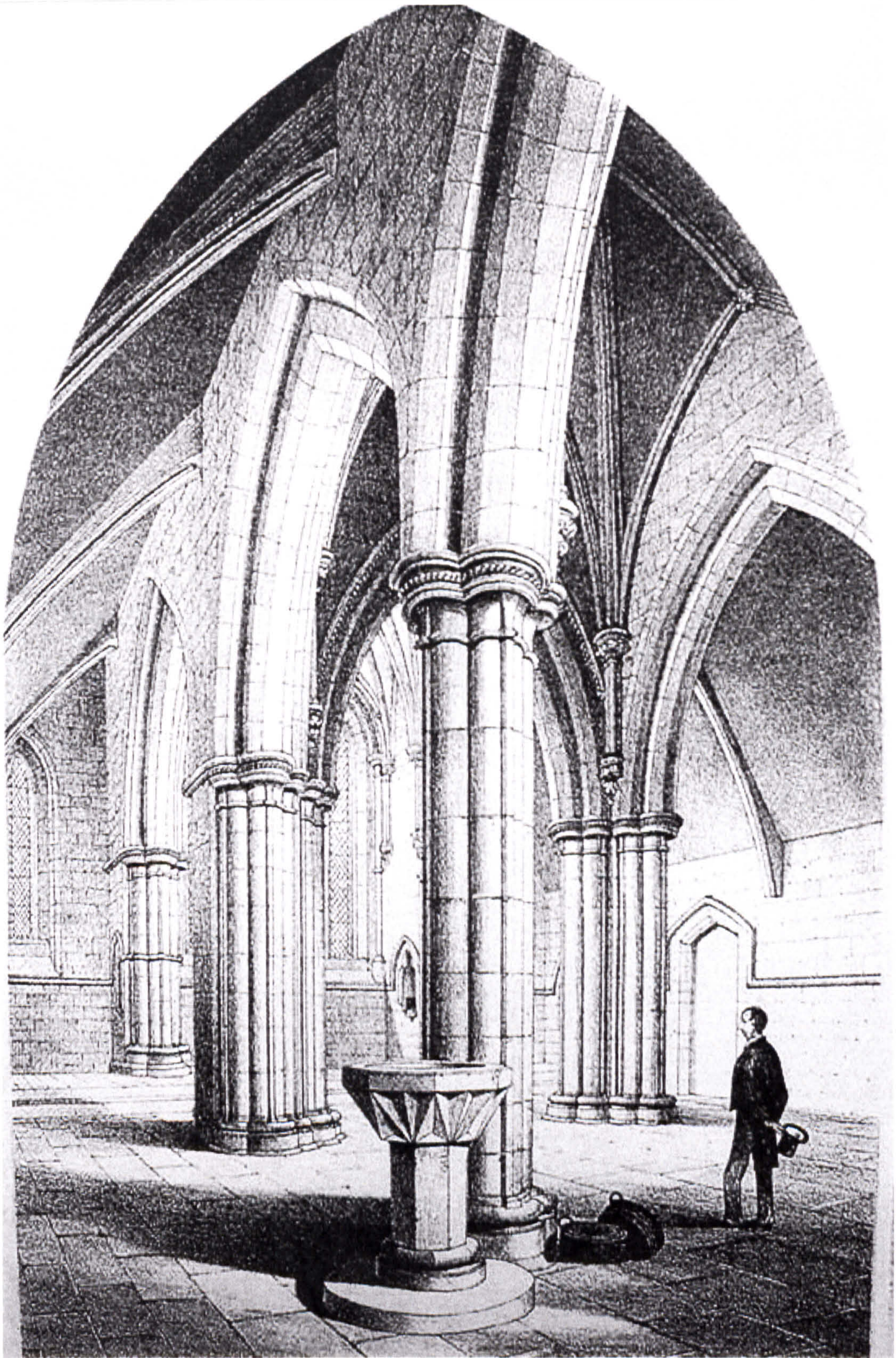


Figure 43 - St. Giles, Skelton: Interior c1843

(Ewan Christian. From: E. Christian, *Architectural illustrations of Skelton church, Yorkshire* (London, 1846), **pl. 2.**)

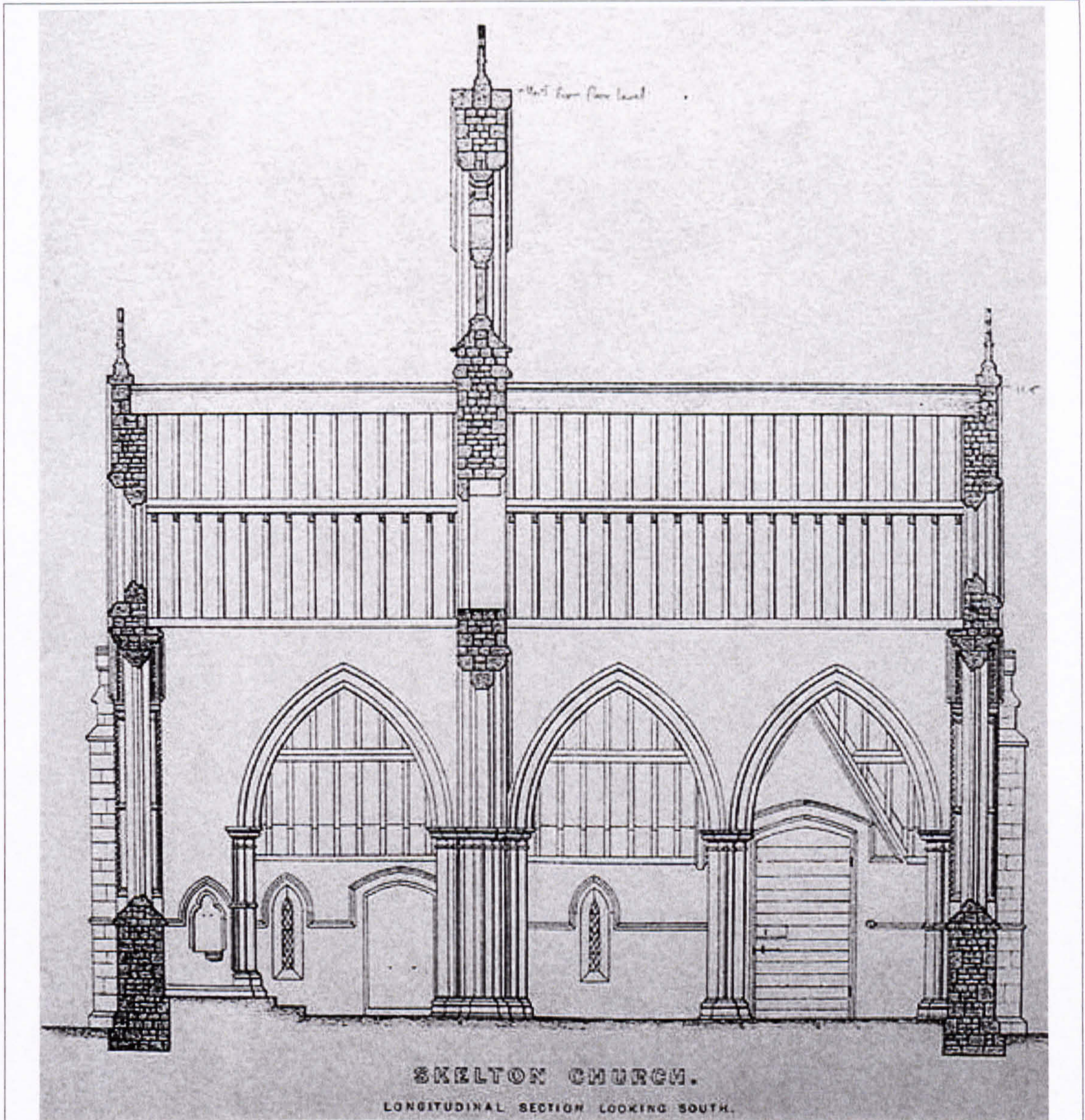


Figure 44 - St. Giles, Skelton: Longitudinal section looking south c1843
(Ewan Christian. From: E. Christian, *Architectural illustrations of Skelton church, Yorkshire* (London, 1846), pl. 8.)

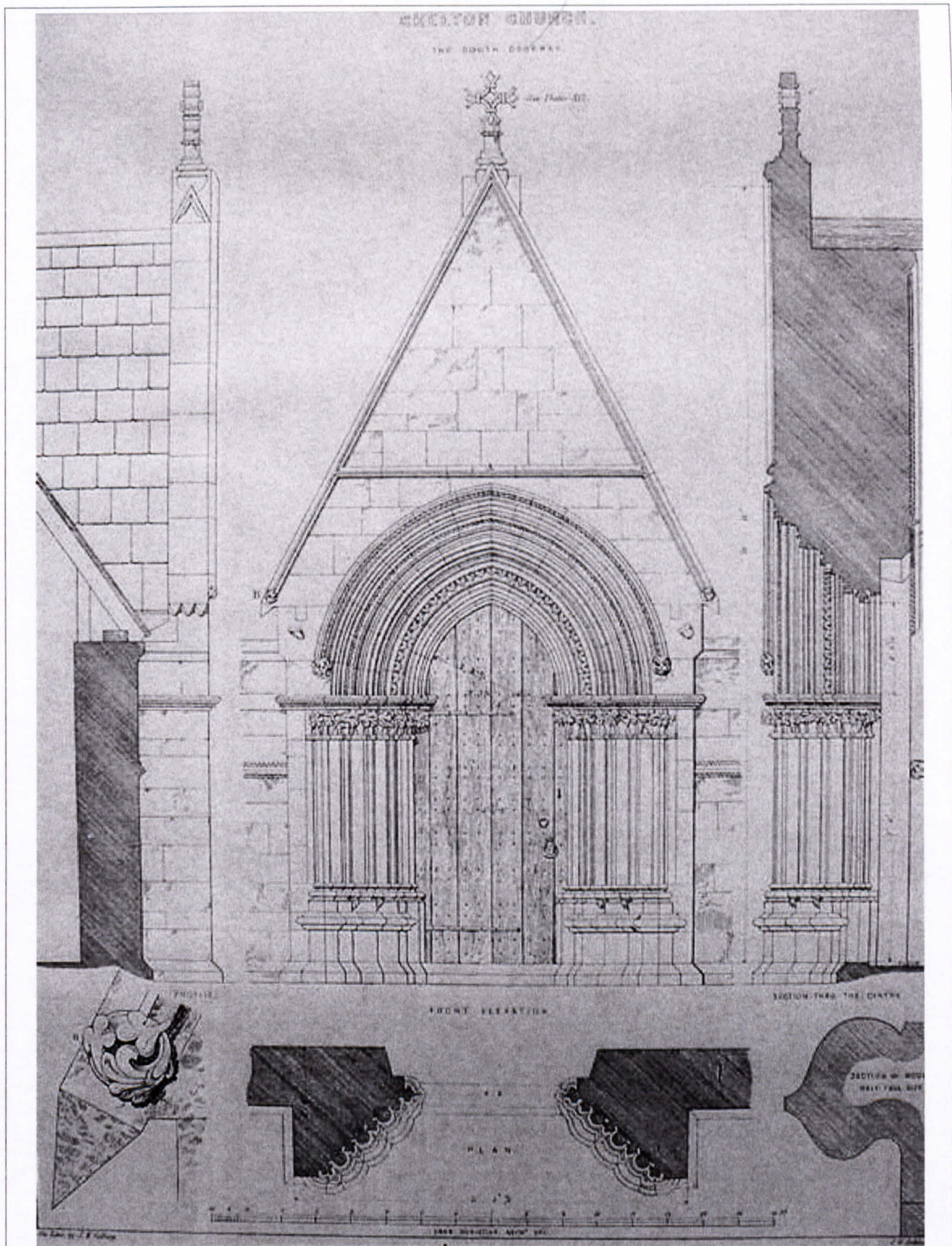


Figure 45 - St. Giles, Skelton: South door

(Ewan Christian. From: E. Christian, *Architectural illustrations of Skelton church, Yorkshire* (London, 1846), pl. 9.)

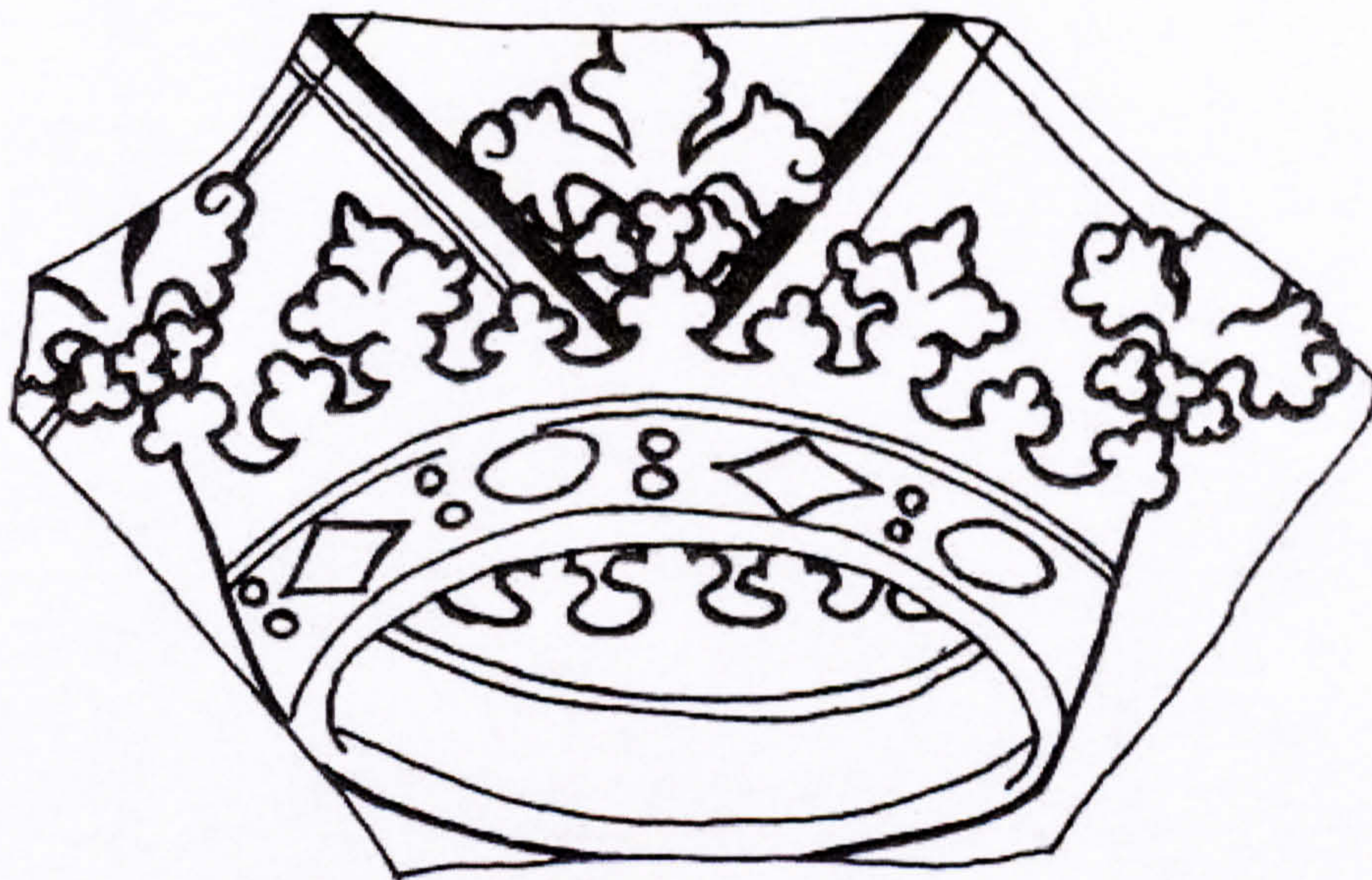


Figure 46 - St. Giles, Skelton: Fragment of medieval glass now in northwest aisle window
(From: C. Wilson, D.E. O'Connor, and A.J. Thompson, *St Giles, Skelton: A brief guide* (York, 1978), p. 8.)



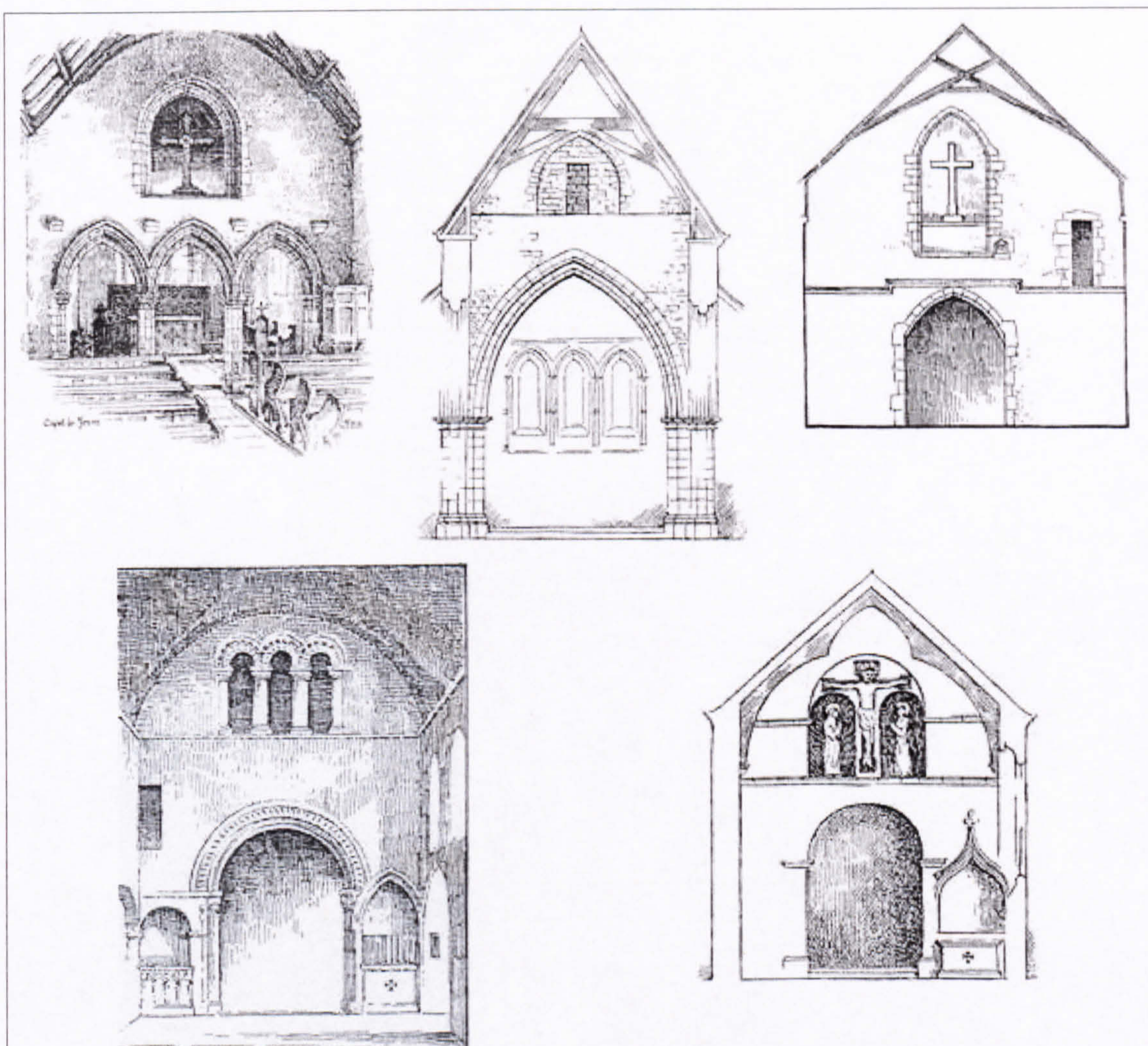
Figure 47 - St. Giles, Skelton: Alternative interior reconstruction c1247 with flat ceiling



Figure 48 - St. Giles, Skelton: Alternative interior reconstruction c1247 with arch brace trusses



Figure 49 - St. Giles, Skelton: Alternative interior reconstruction c1247 with tympanum in head of chancel arch



Figures 50, 51, 52, 53, 54 - (left to right, upper to lower) Capel-le-Ferne, Kent; Brechin Cathedral, Scotland; Little Hereford, Herefordshire; Castle Rising, Norfolk; Melton Constable, Norfolk: Chancel Arches

(From: F.B. Bond and B. Camm, *Roodscreens and roodlofts* (London, 1909), 1: 39, 41-43.)

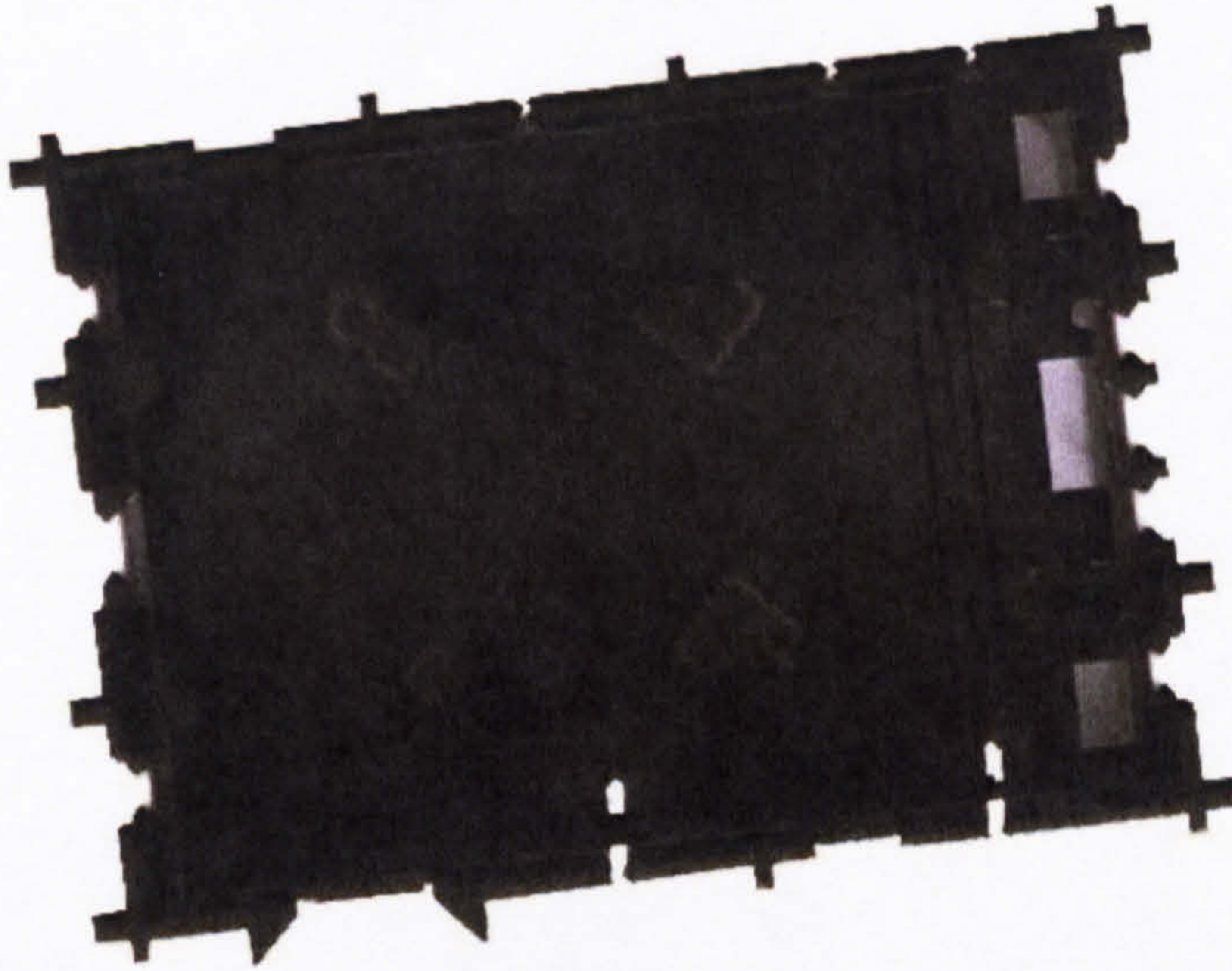


Figure 55 - St. Giles, Skelton: Plan, 21 June, 12:00PM

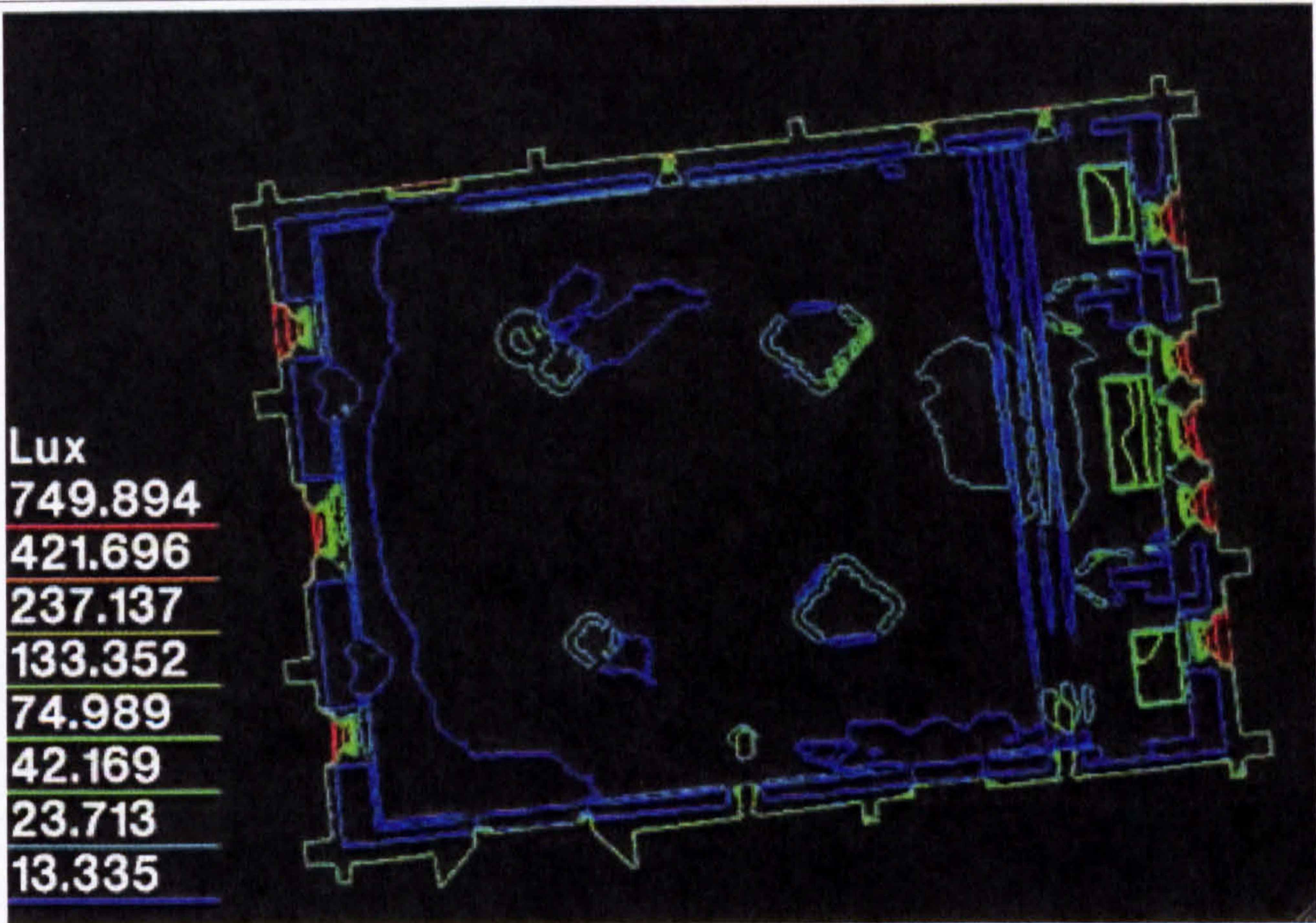


Figure 56 - St. Giles, Skelton: Plan, 21 June, 12:00PM with illuminance contour lines
(Warmer colours indicate regions of brighter light)

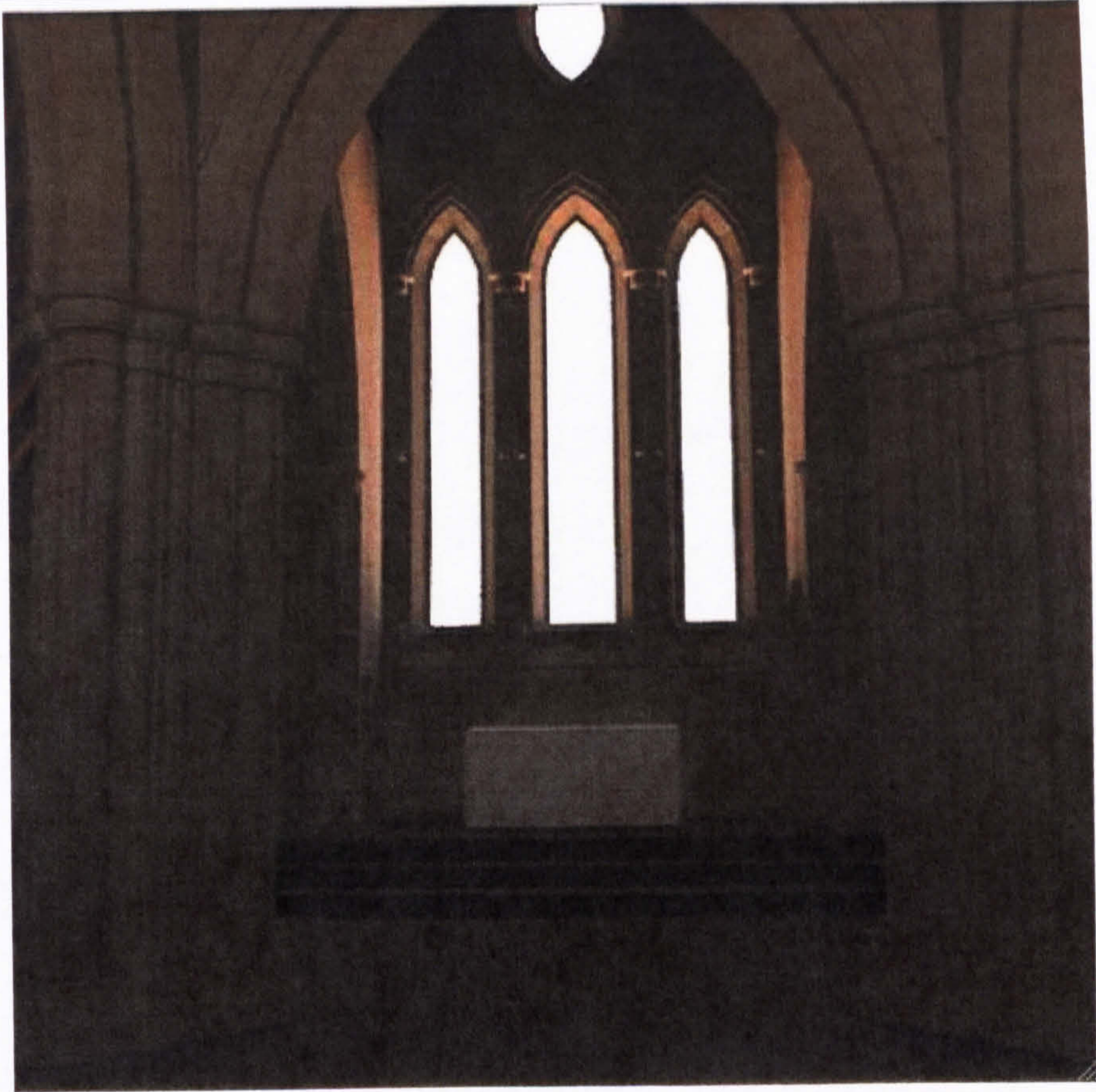


Figure 57 - St. Giles, Skelton: Chancel, 21 June, 12:00PM

Originals in colour

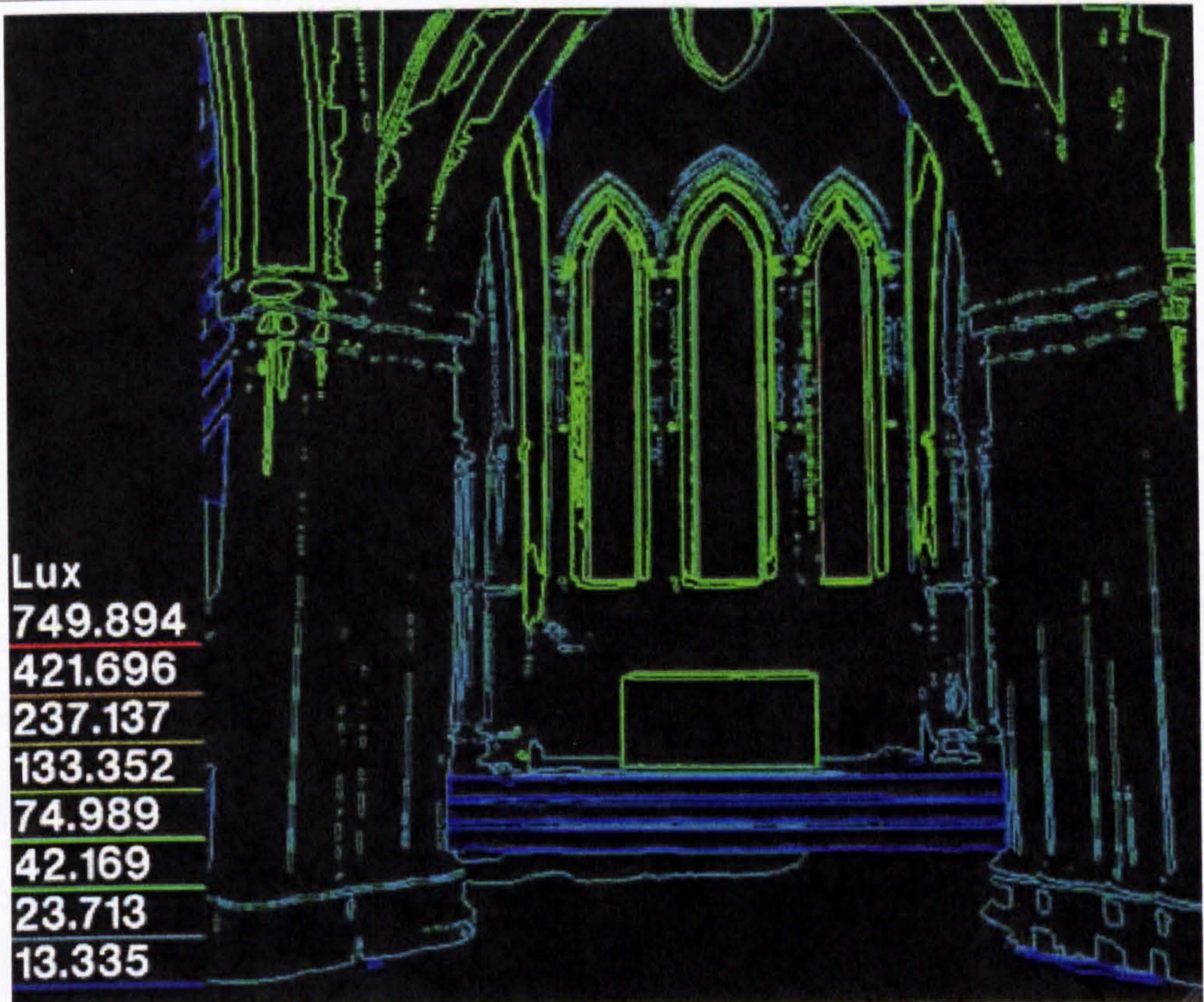


Figure 58 - St. Giles, Skelton: Chancel, 21 June, 12:00PM with illuminance contour lines
(Warmer colours indicate regions of brighter light)

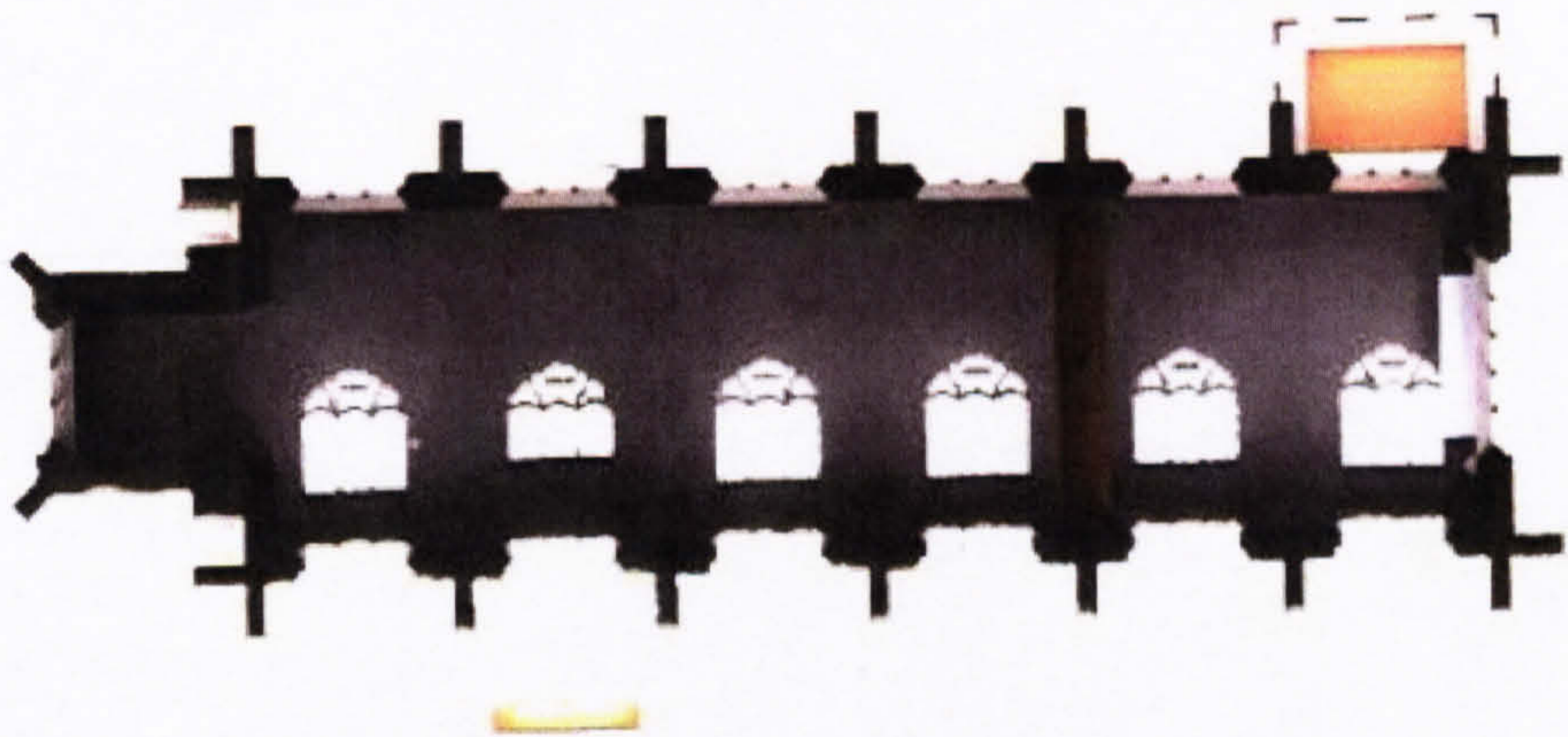


Figure 59 - St. Augustine, Skirlaugh: Plan, 21 June, 12:00PM



Figure 60 - St. Augustine, Skirlaugh: East end, 21 June, 12:00PM

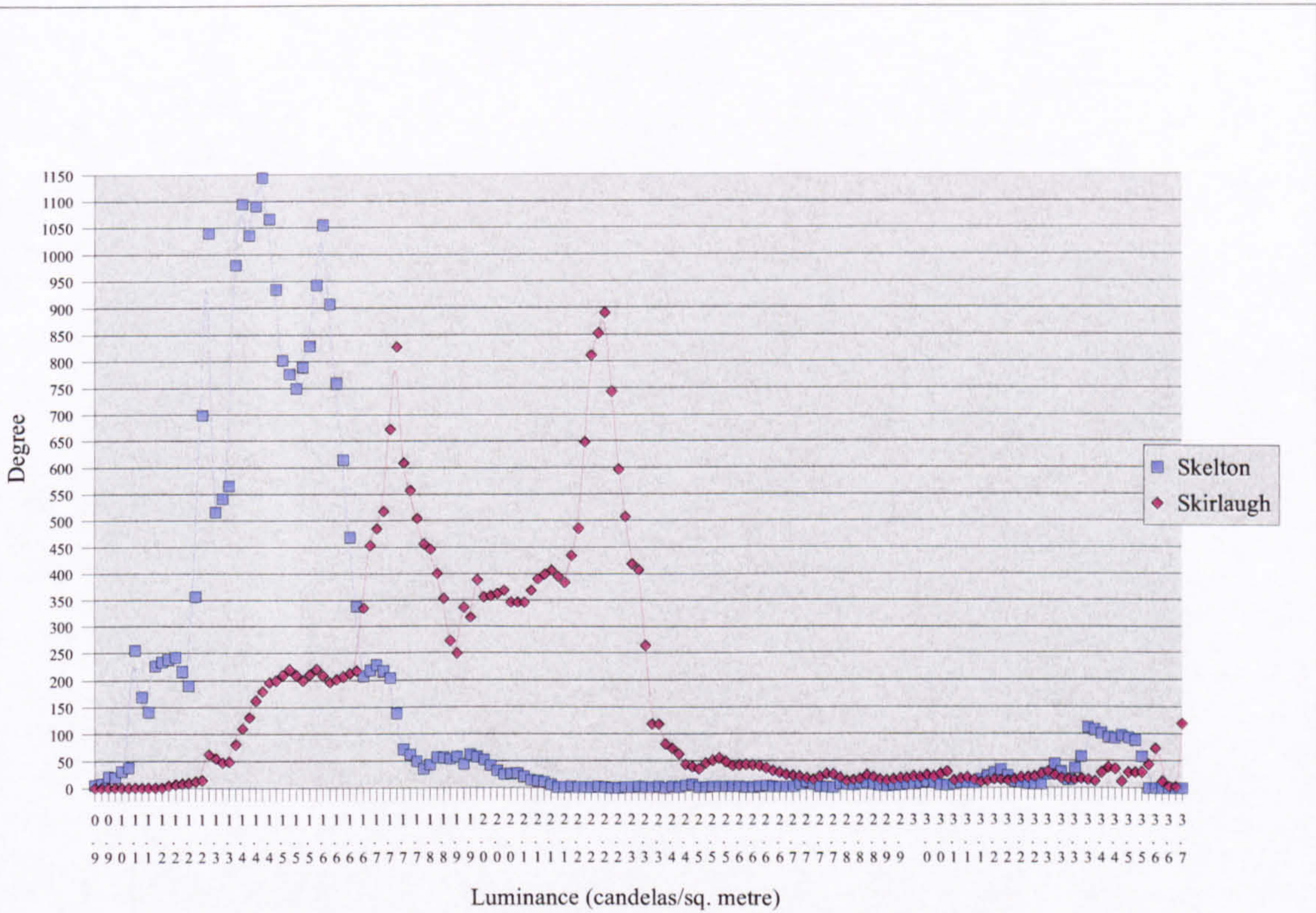


Figure 61 - St. Giles, Skelton and St. Augustine, Skirlaugh: Illuminance histograms

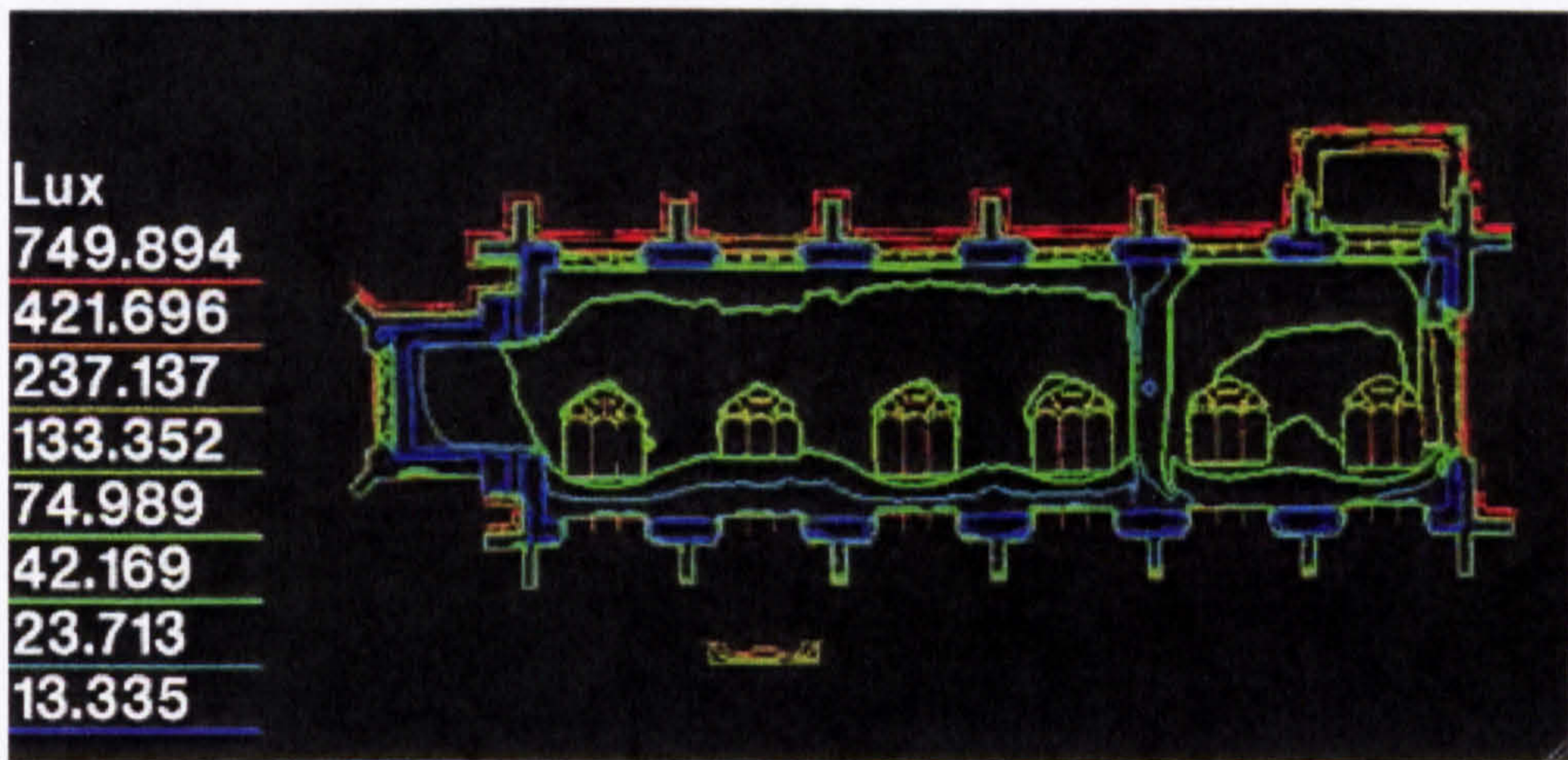


Figure 62 - St. Augustine, Skirlaugh: Plan, 21 June, 12:00PM with illuminance contour lines

(Warmer colours indicate regions of brighter light)

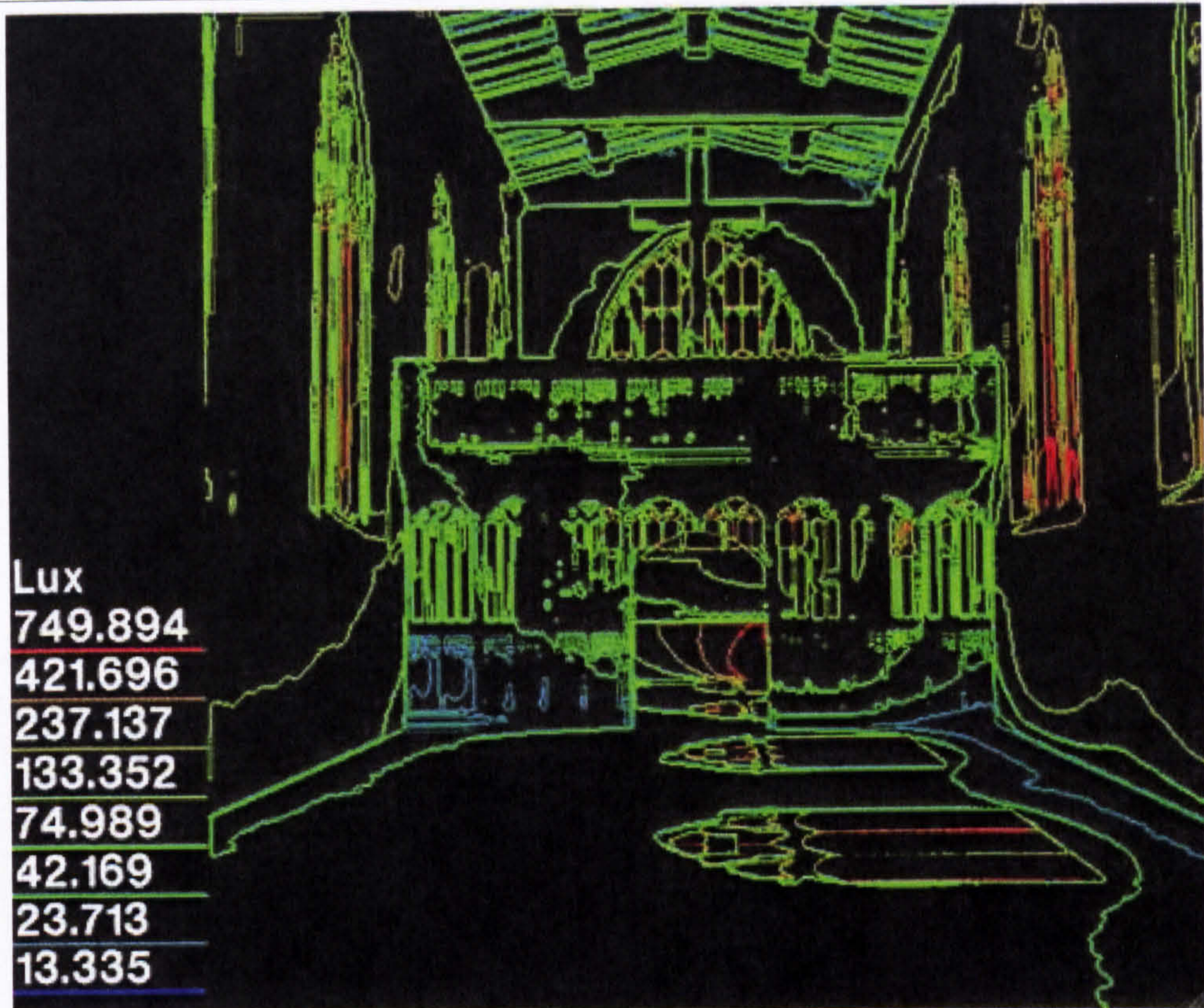


Figure 63 - St. Augustine, Skirlaugh: East end, 21 June, 12:00PM with illuminance contour lines

(Warmer colours indicate regions of brighter light)

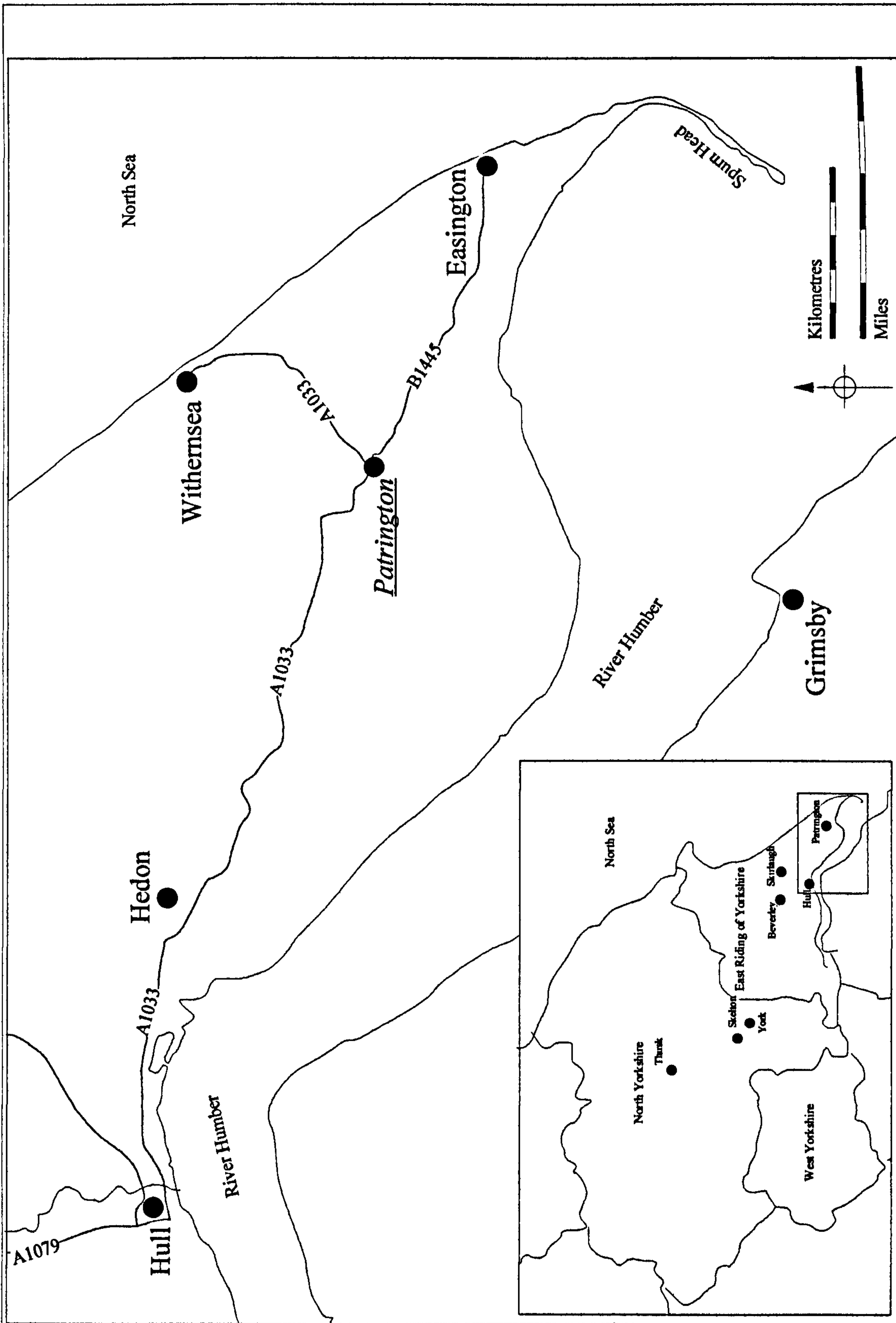
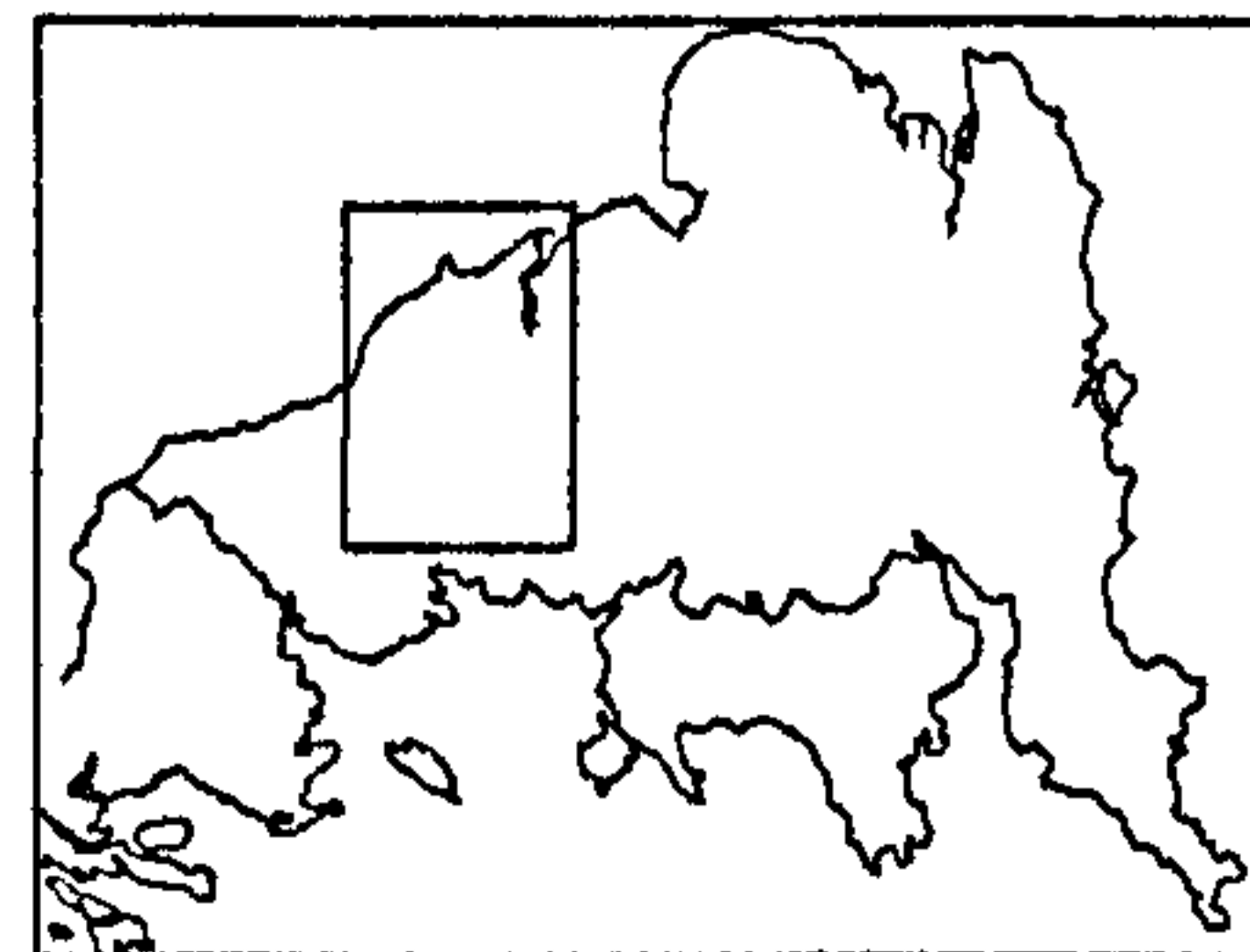
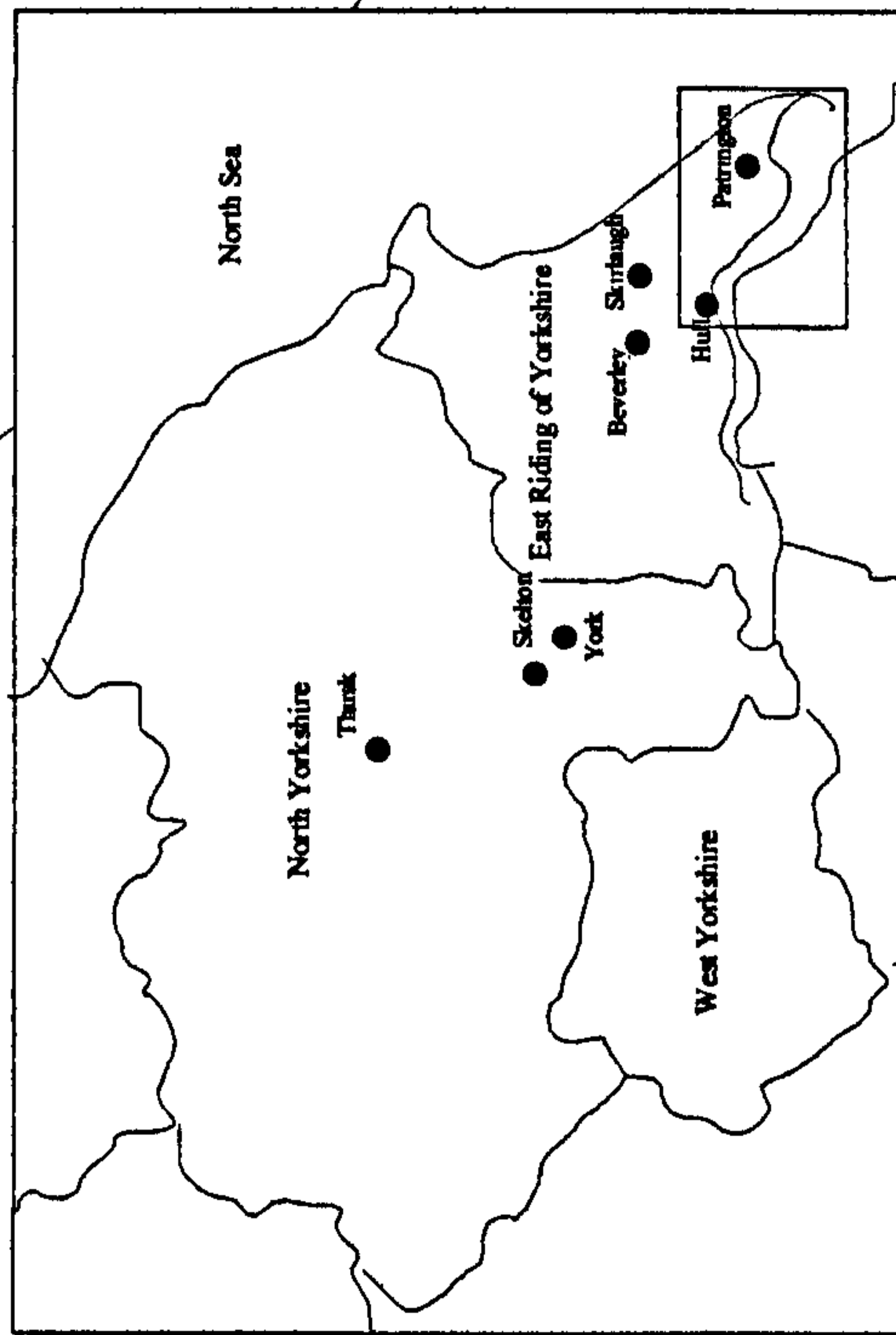


Figure 64 - Location of Patrington



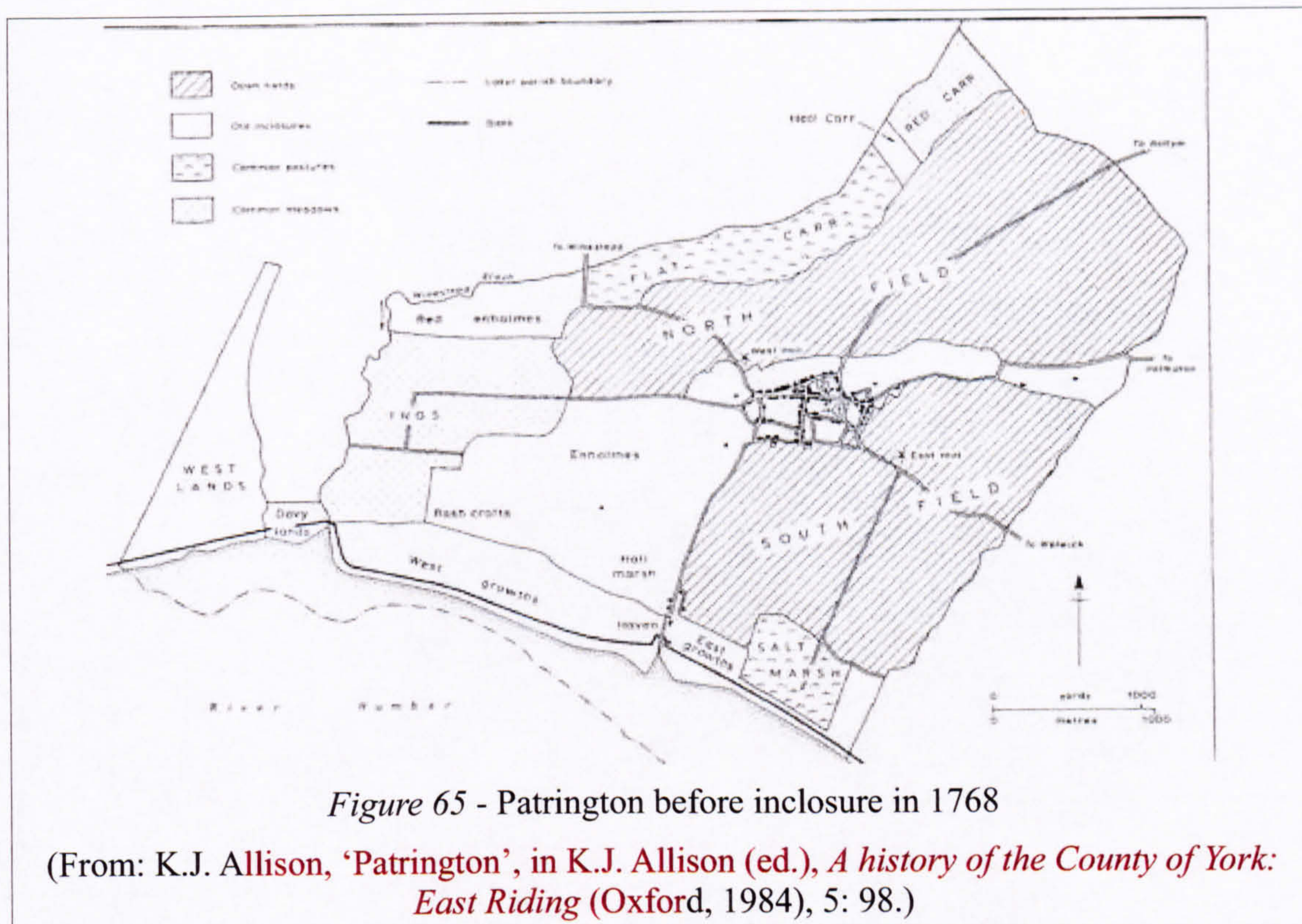


Figure 65 - Patrington before inclosure in 1768

(From: K.J. Allison, 'Patrington', in K.J. Allison (ed.), *A history of the County of York: East Riding* (Oxford, 1984), 5: 98.)

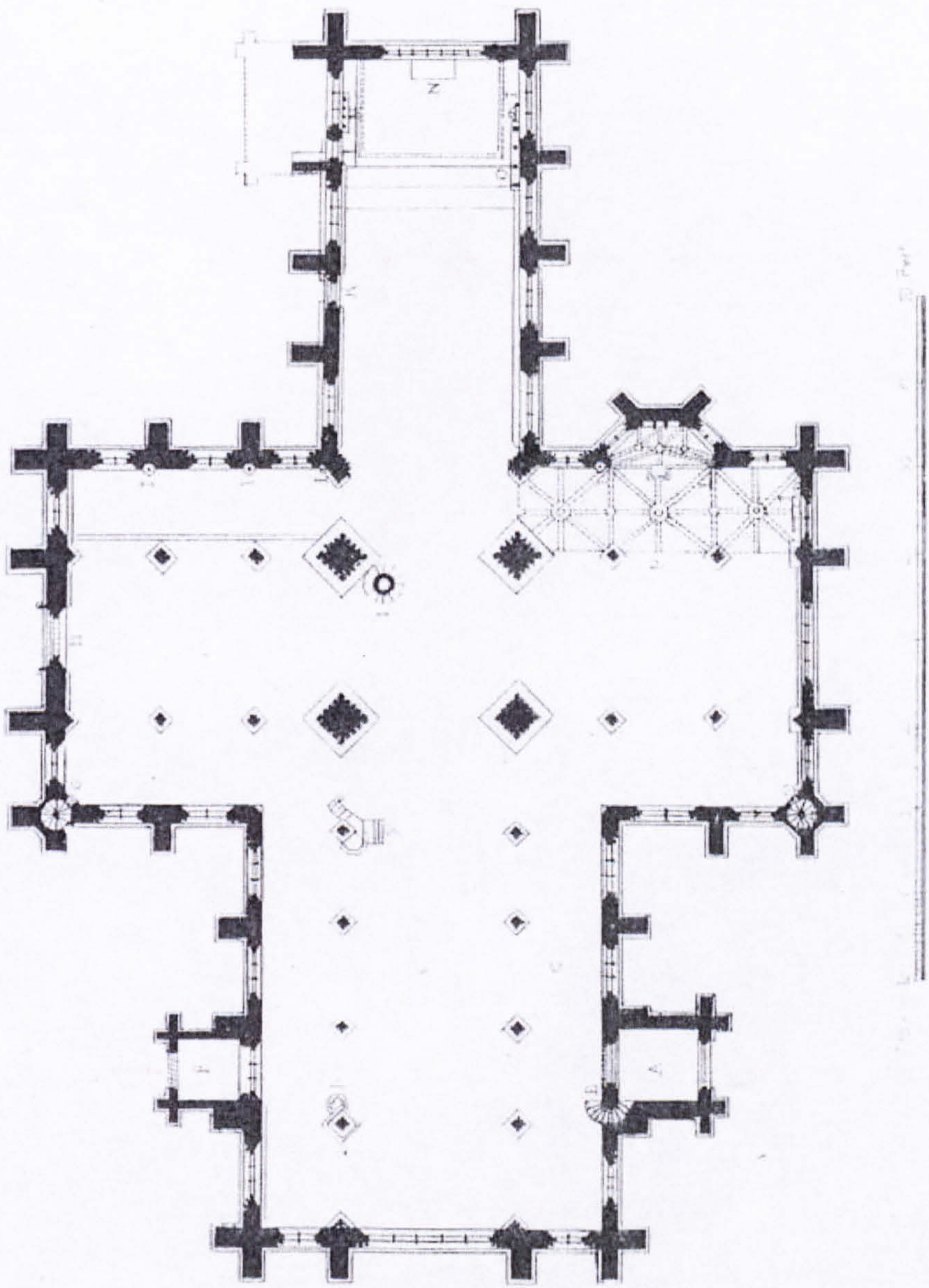


Figure 66 - St. Patrick, Patrington: Plan c1844
(From: G.A. Poole, *St. Patrick, Patrington (Leeds, 1844)*.)

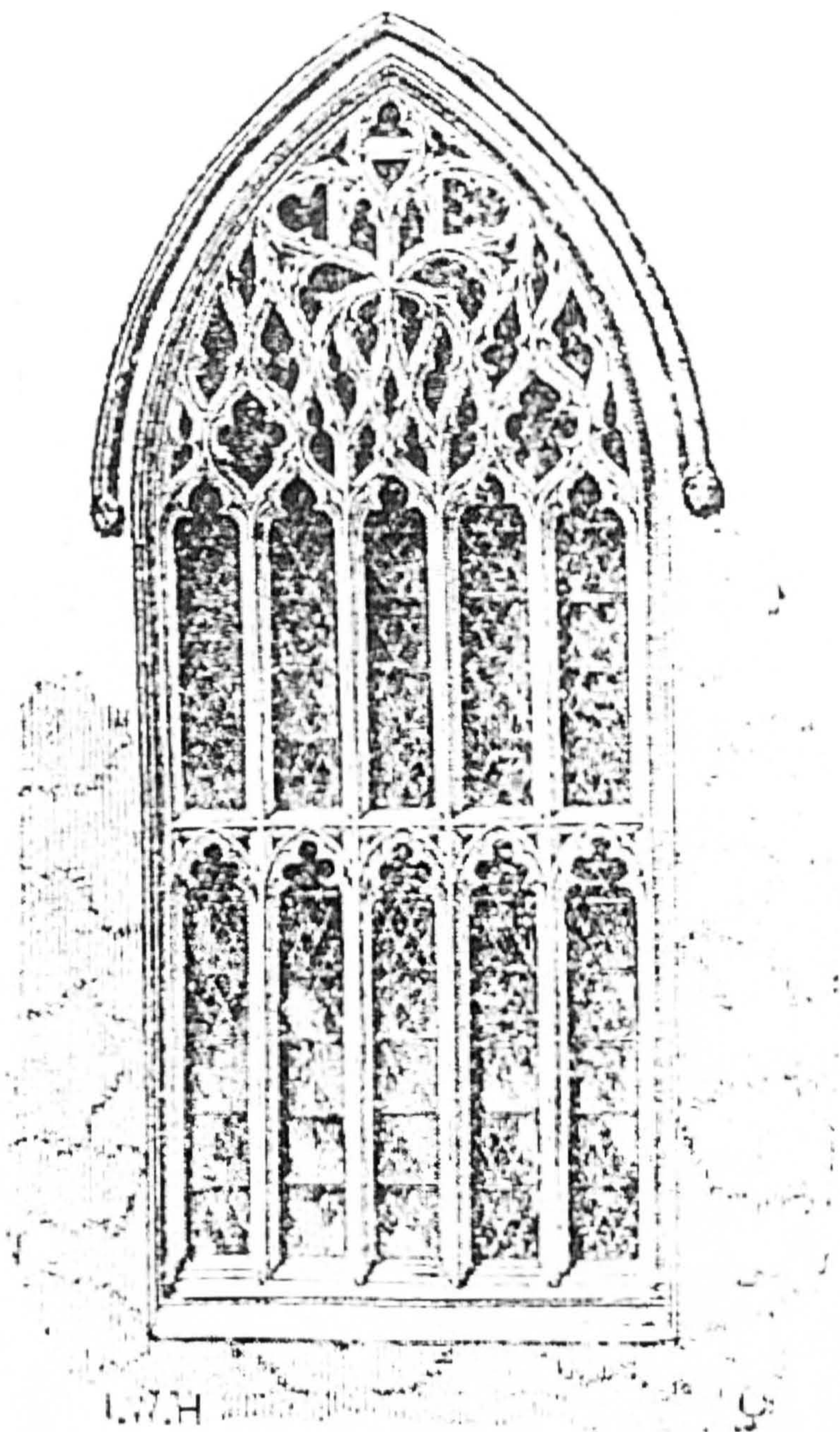


Figure 67 - St. Patrick, Patrington: West window tracery c1844
(From: G.A. Poole, *St. Patrick, Patrington* (Leeds, 1844))

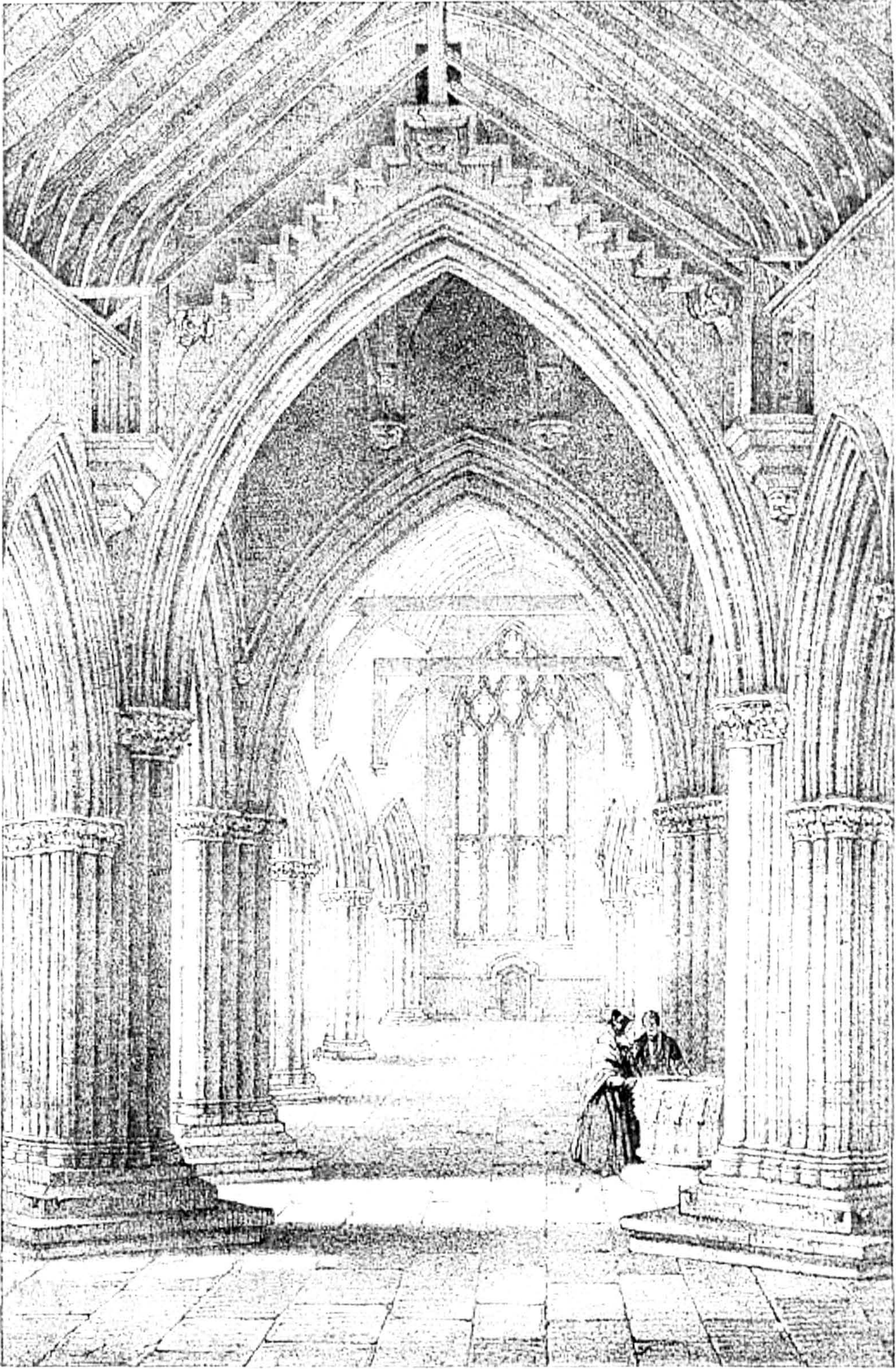


Figure 68 - St. Patrick, Patrington: Transepts interior looking north c1844
(From: G.A. Poole, *St. Patrick, Patrington* (Leeds, 1844).)

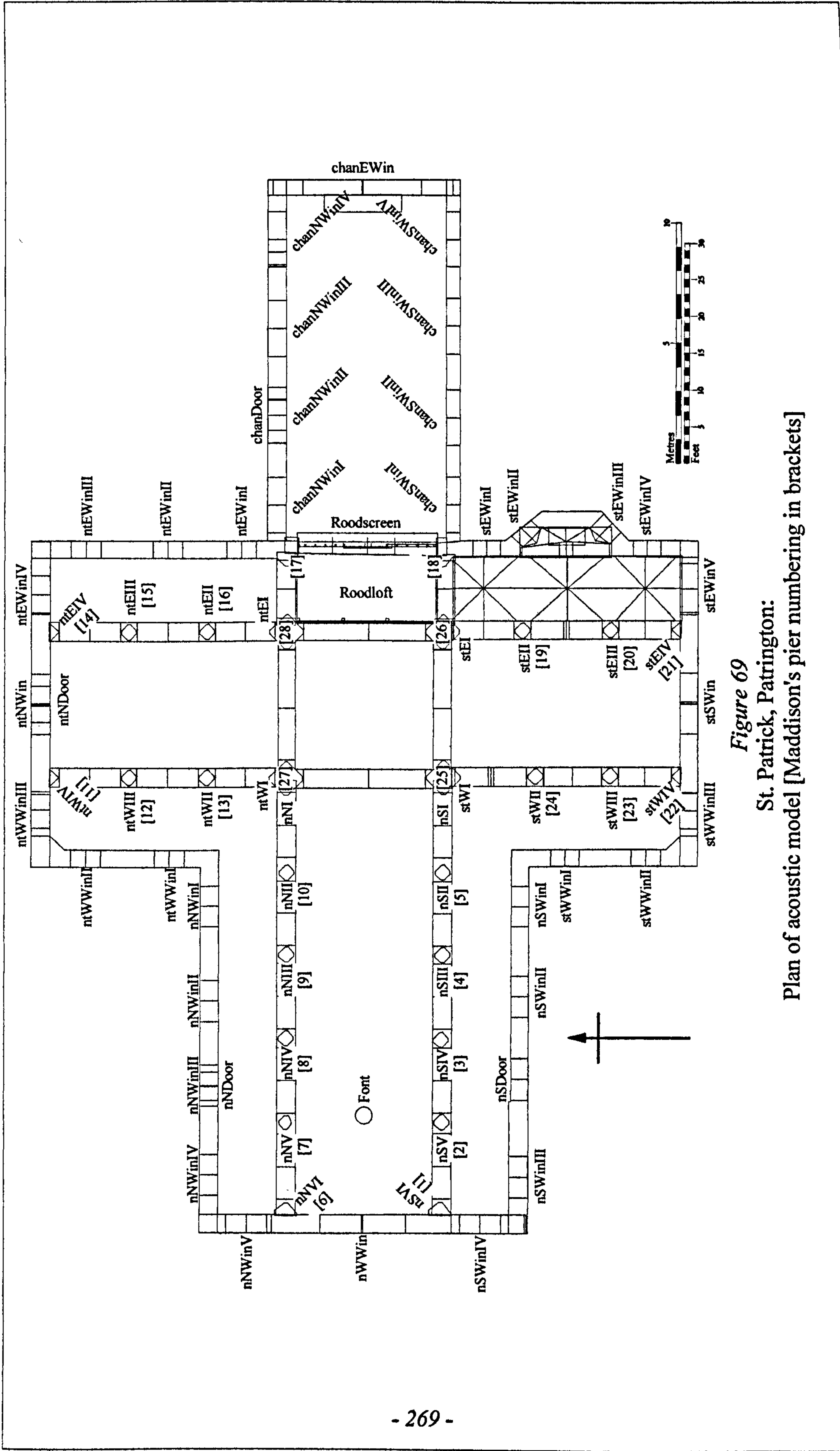


Figure 69
St. Patrick, Patrington:
Plan of acoustic model [Maddison's pier numbering in brackets]

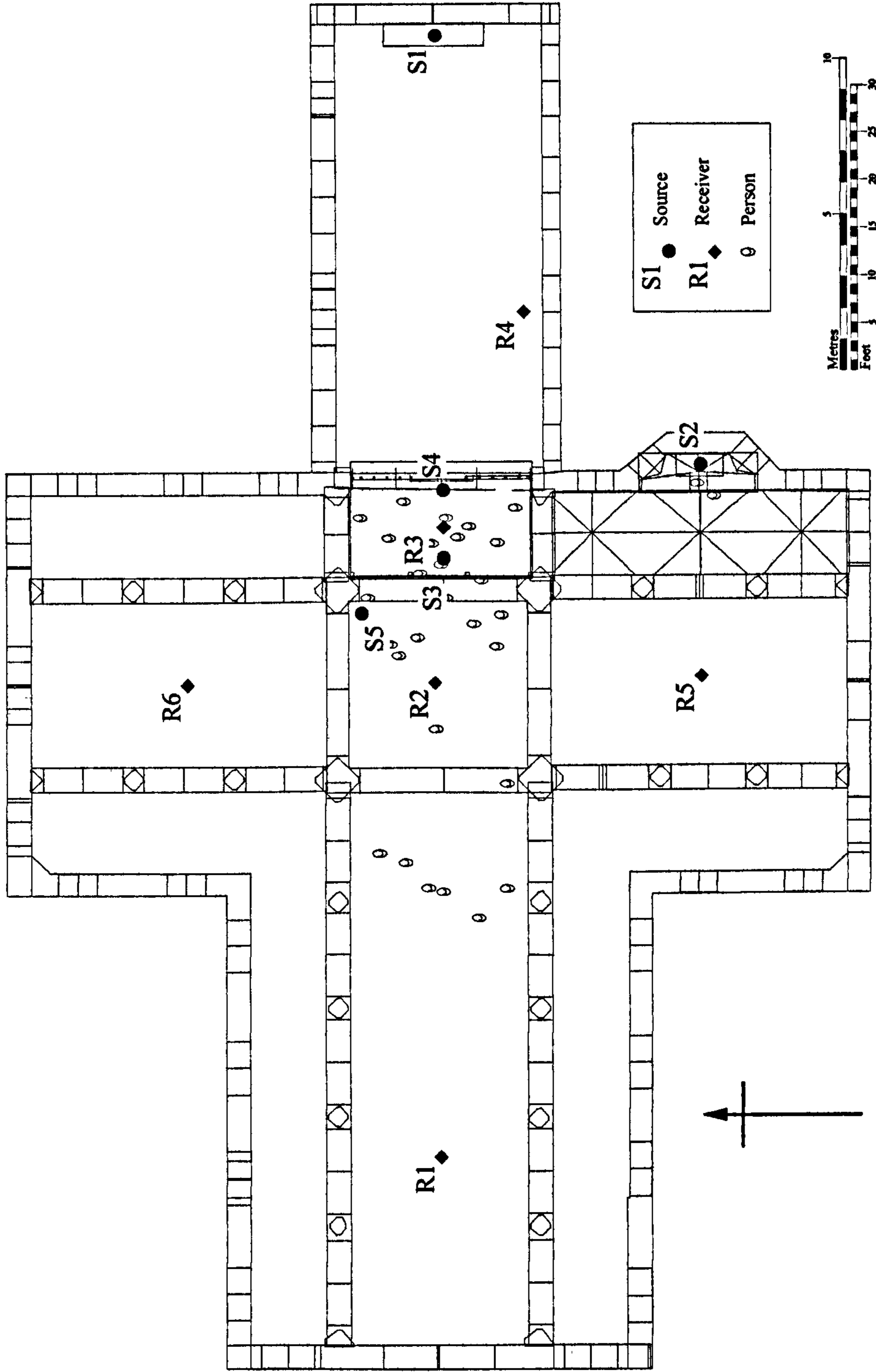


Figure 70
 St. Patrick, Pattrington: Plan of acoustic model,
 positions of sound sources, receivers and audience

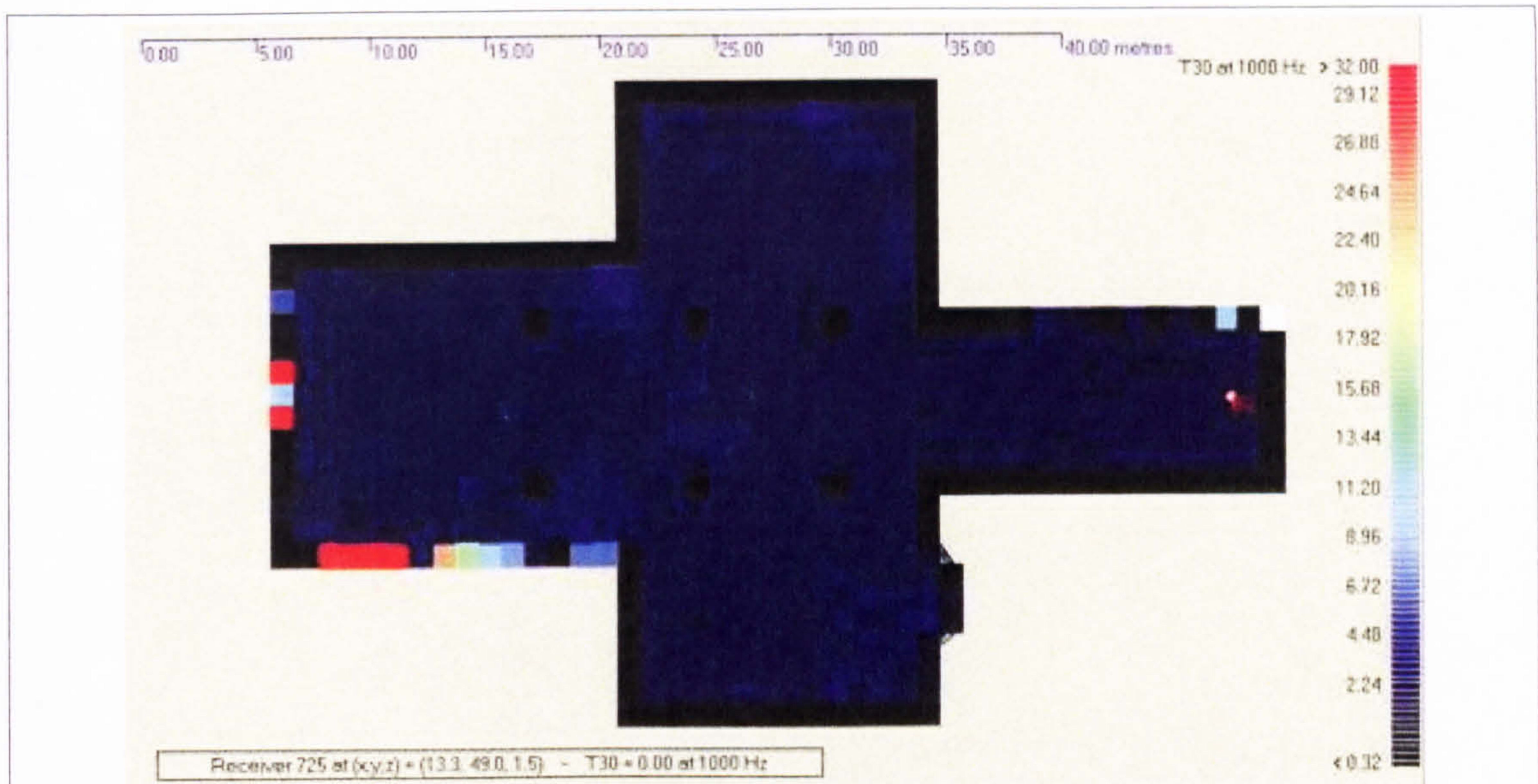


Figure 71 - St. Patrick, Patrington: Acoustic response (Source: High Altar), T30
(Uniformity of colour indicates an acoustically diffuse space.)

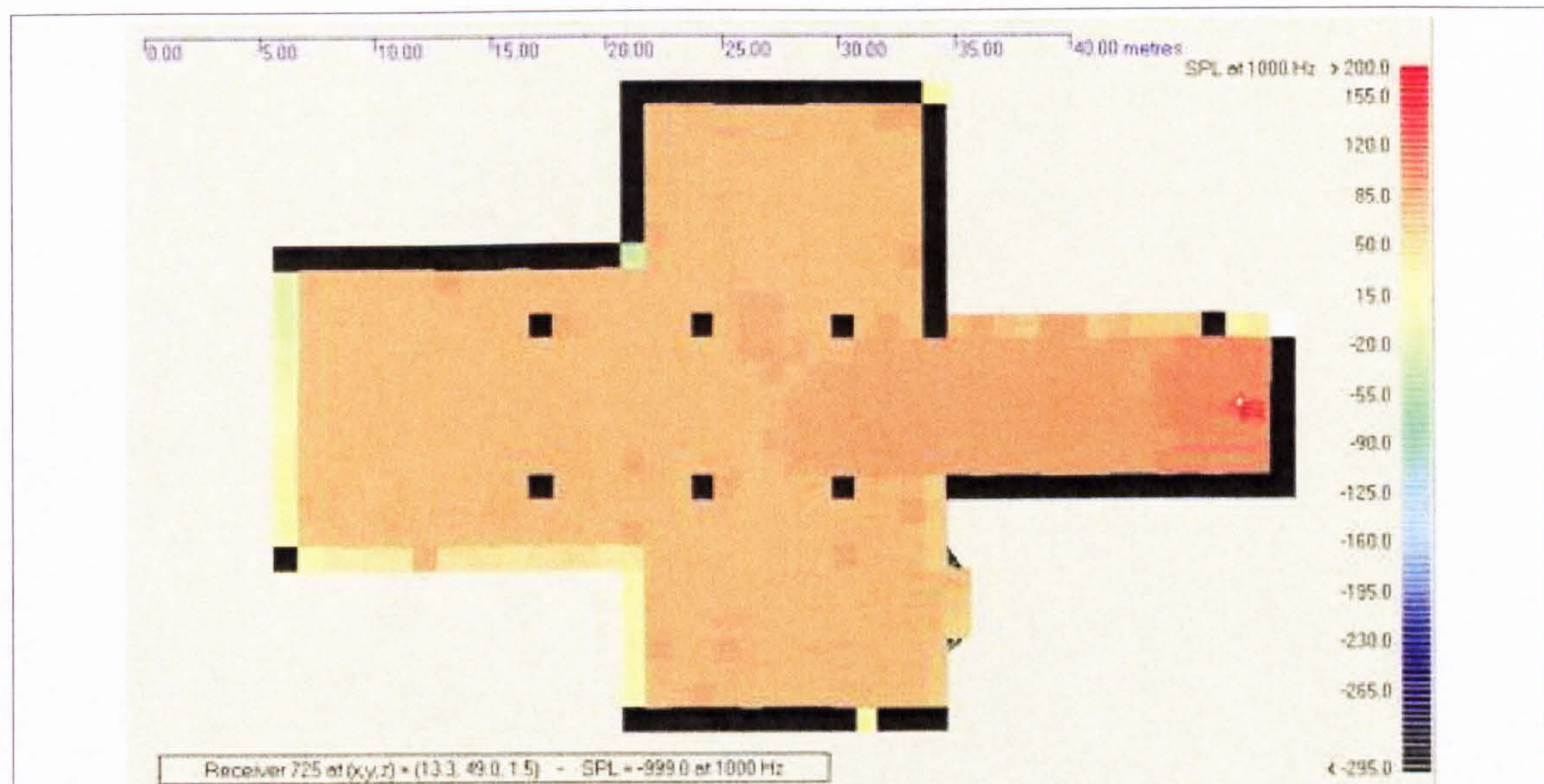


Figure 72 - St. Patrick, Patrington: Acoustic response (Source: High Altar), SPL
(Warmer colour indicates higher SPL (louder areas).)

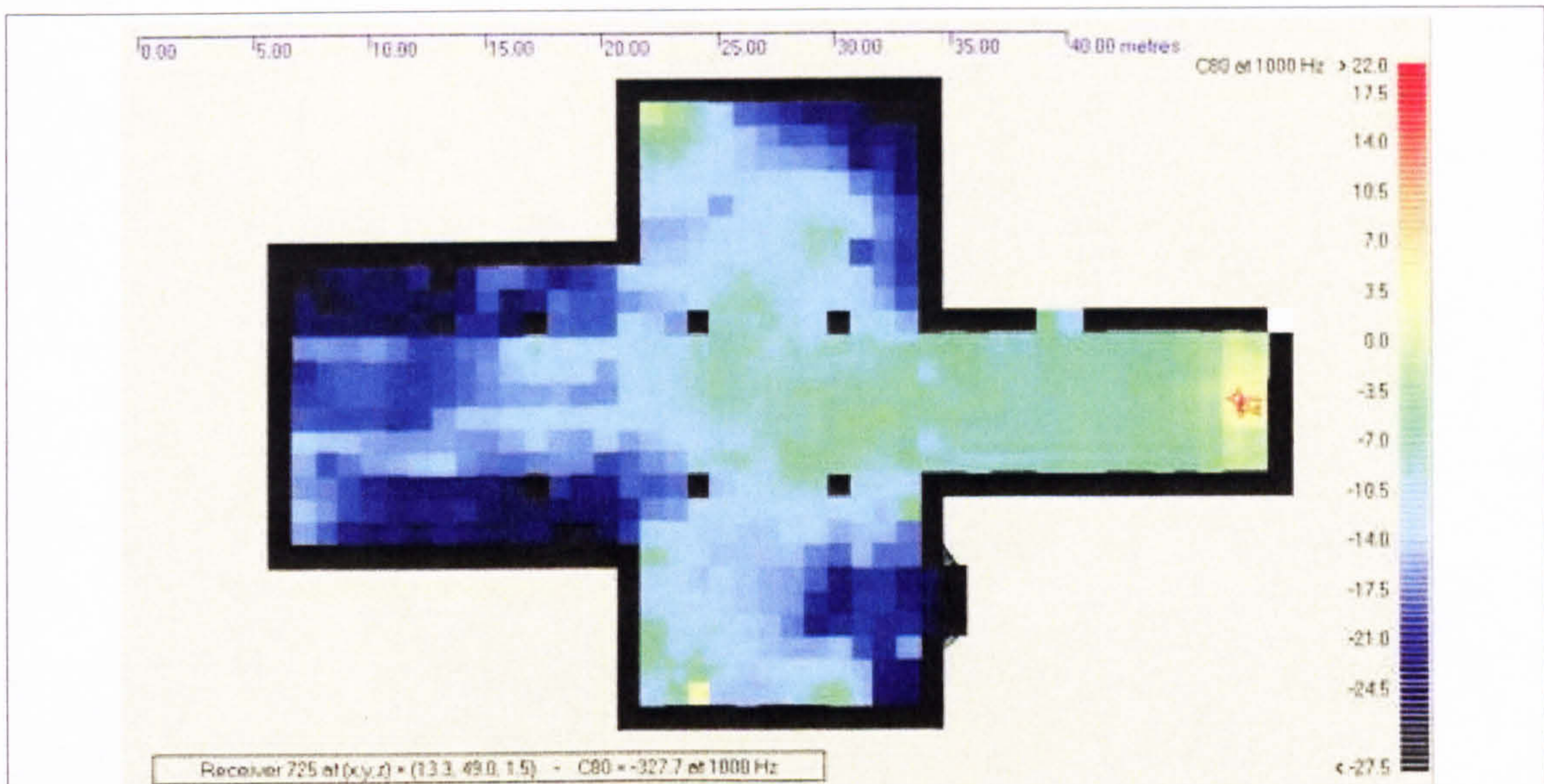


Figure 73 - St. Patrick, Patrington: Acoustic response (Source: High Altar), C80 (Colours in the range from -3.5 to 3.5 indicate good C80 (clarity) with warmer or colder colours indicating regions of increasingly poor clarity.)

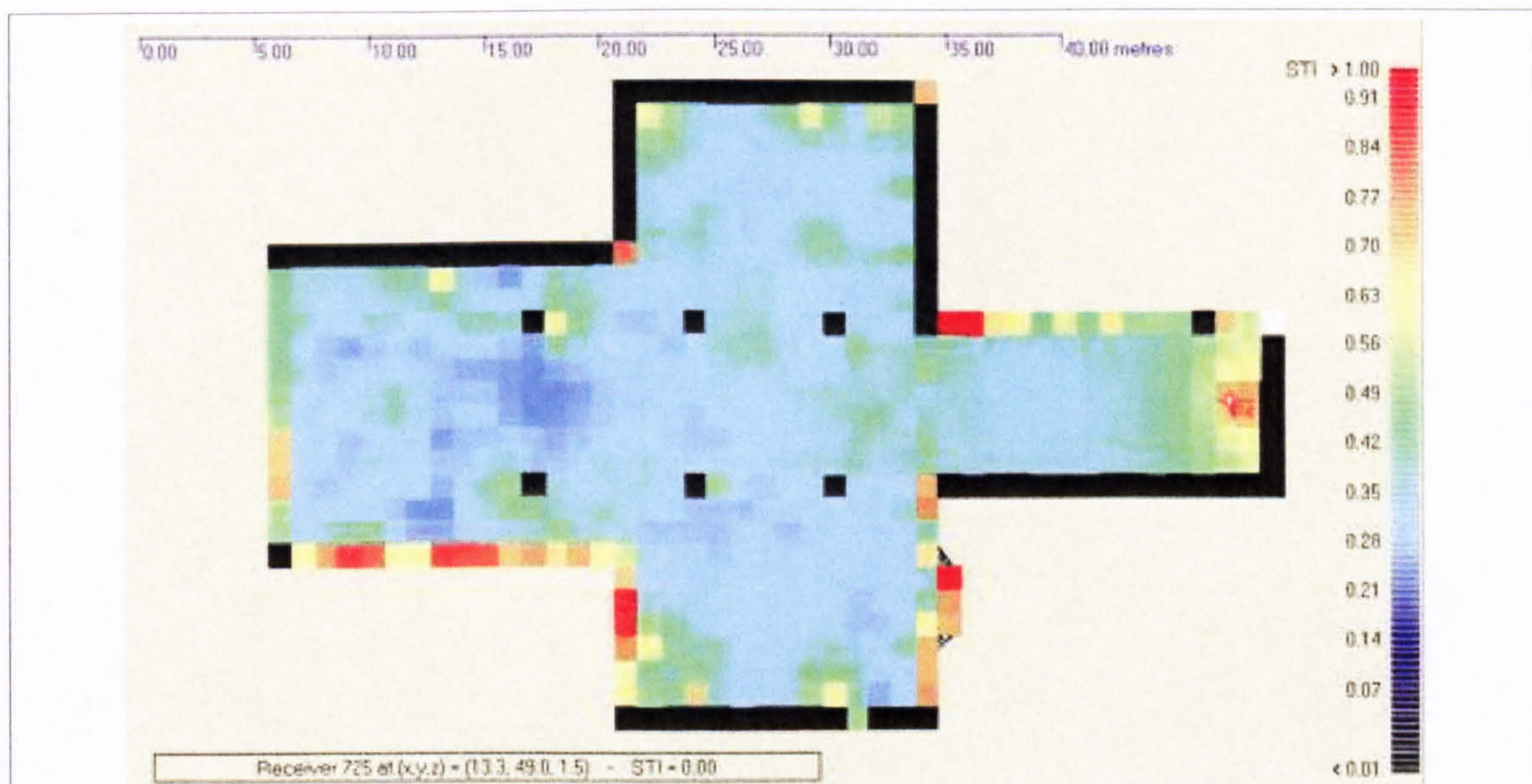


Figure 74 - St. Patrick, Patrington: Acoustic response (Source: High Altar), STI (Warmer colours indicate better STI (speech intelligibility).)

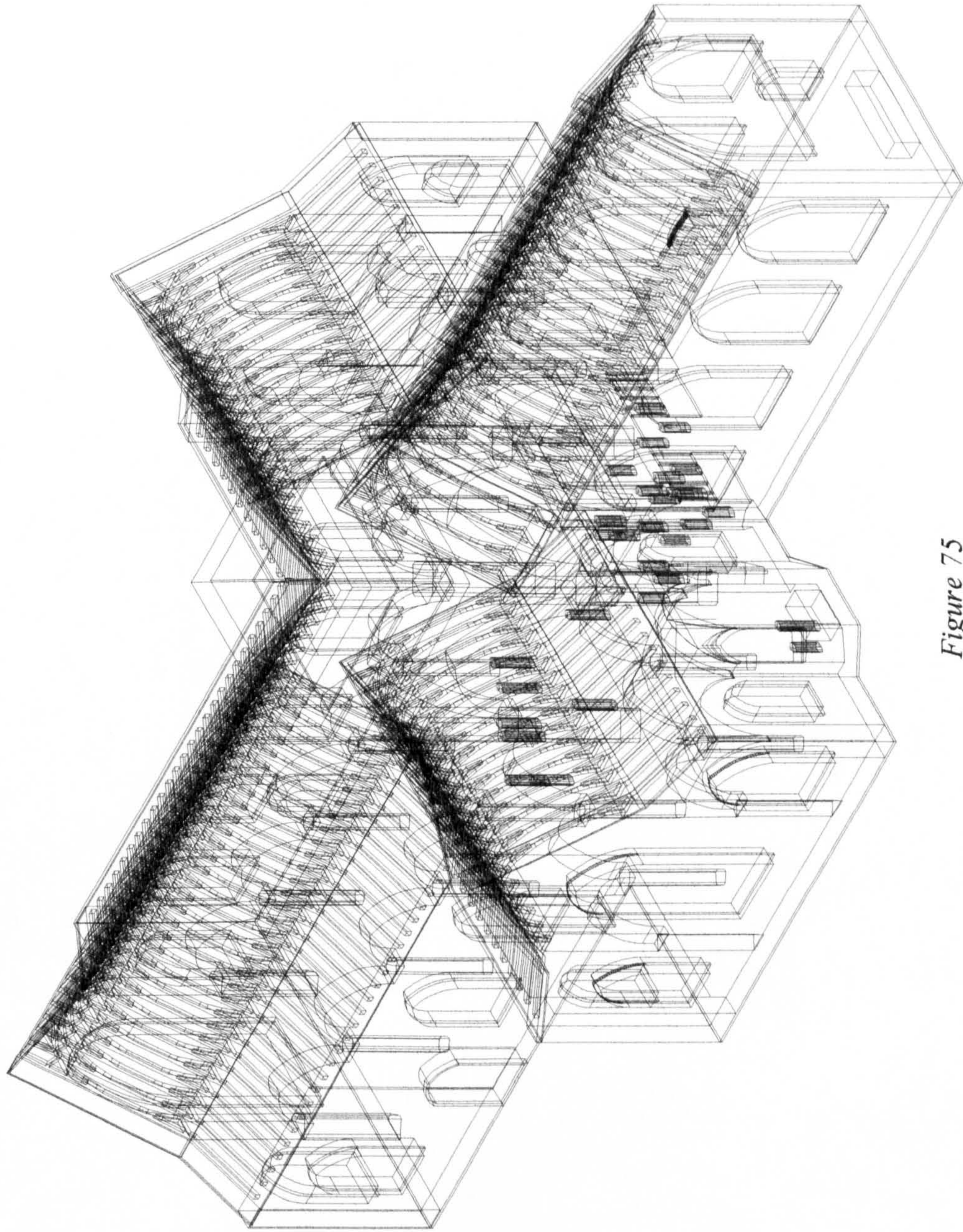


Figure 75
St. Patrick, Patrinton: Acoustic model,
wireframe, isometric view

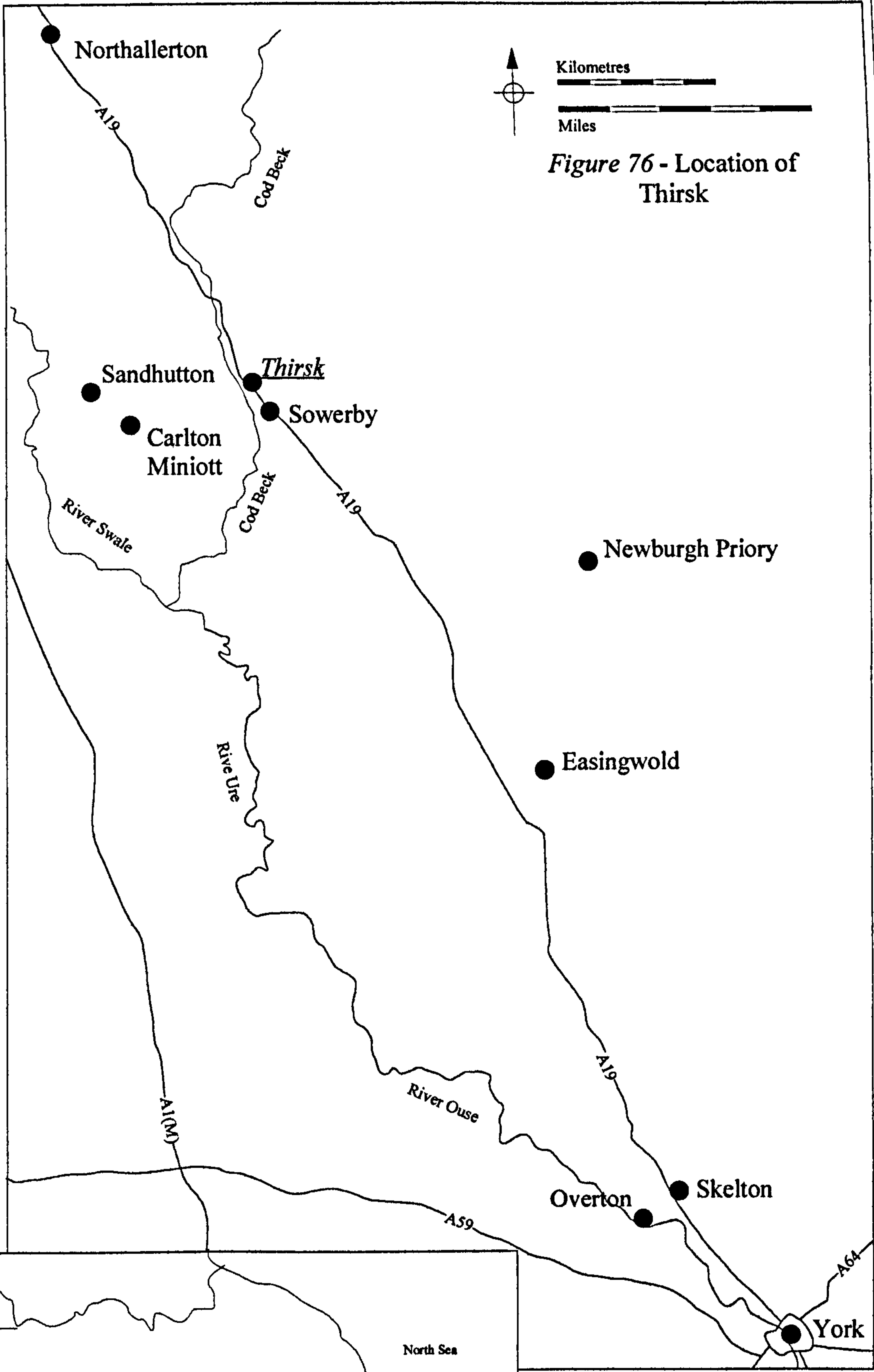
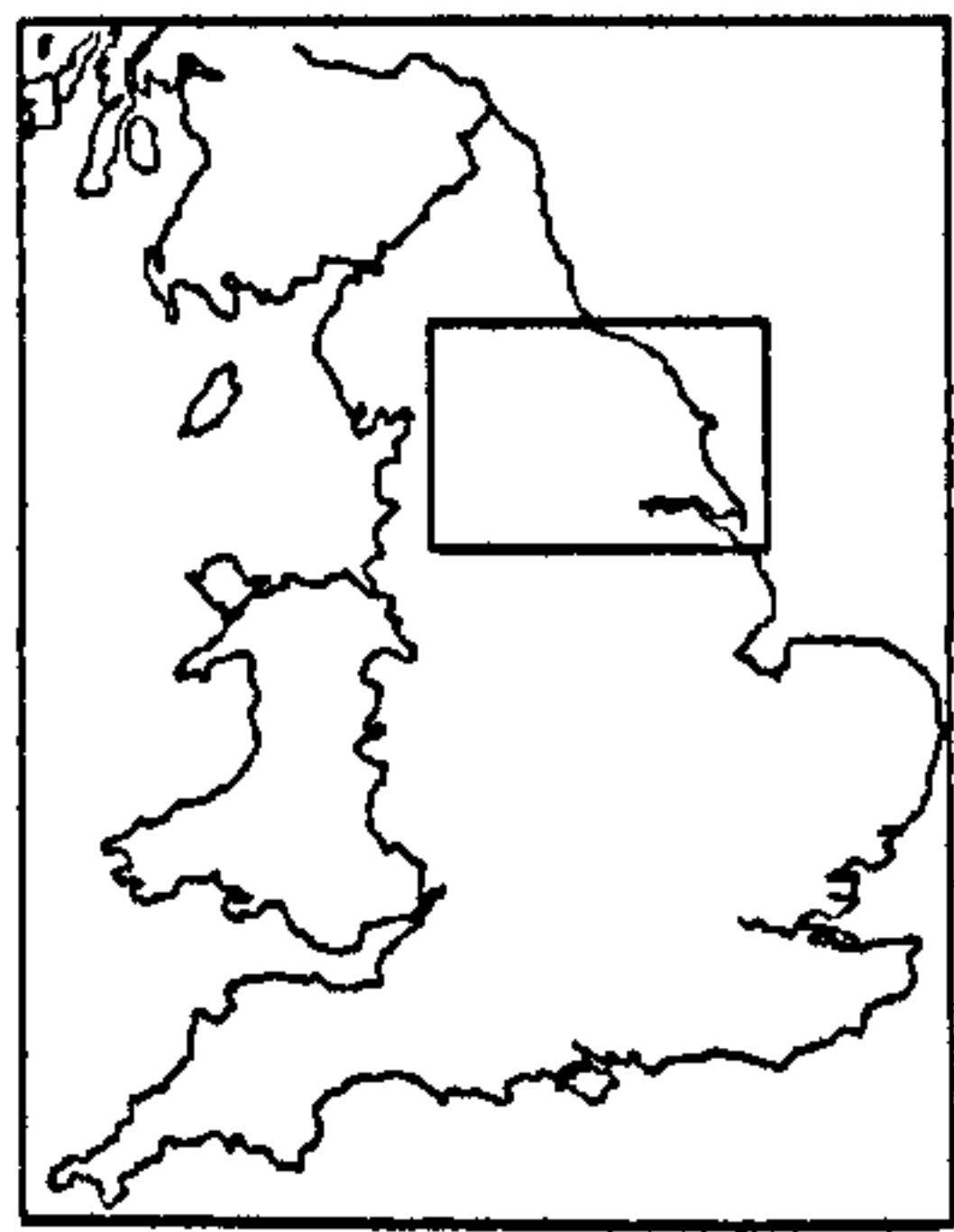
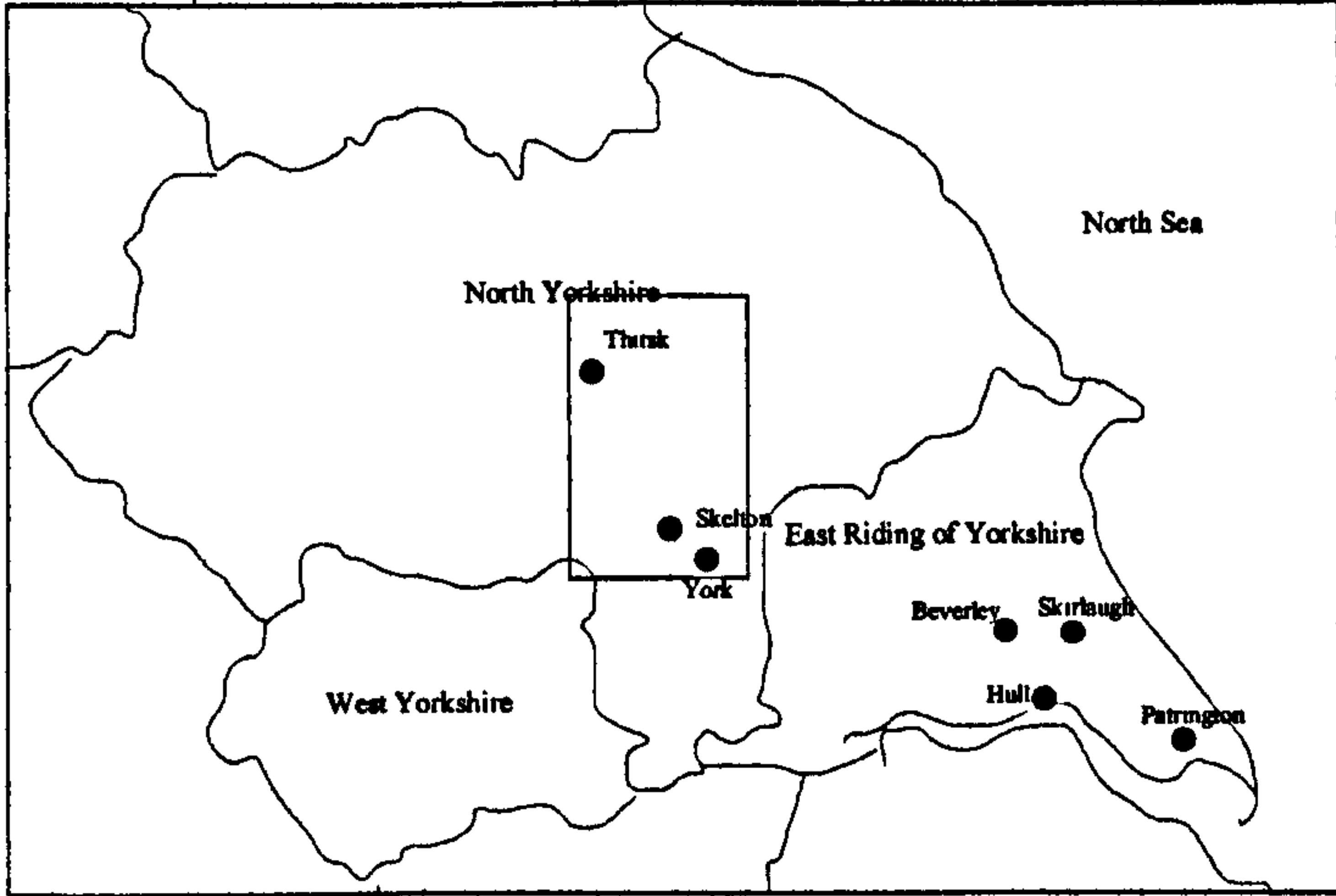


Figure 76 - Location of Thirsk



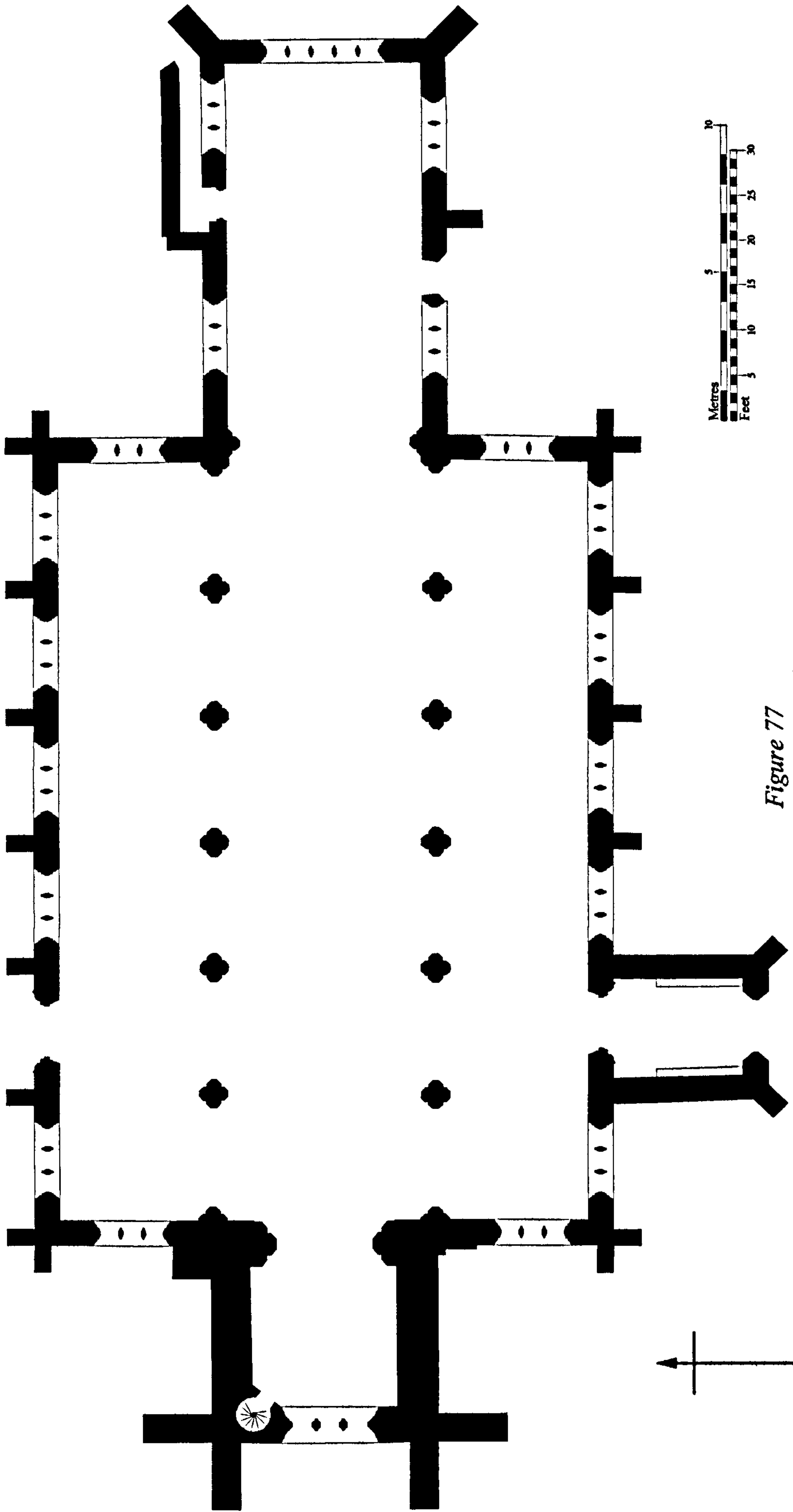


Figure 77
St. Mary, Thirsk: Plan

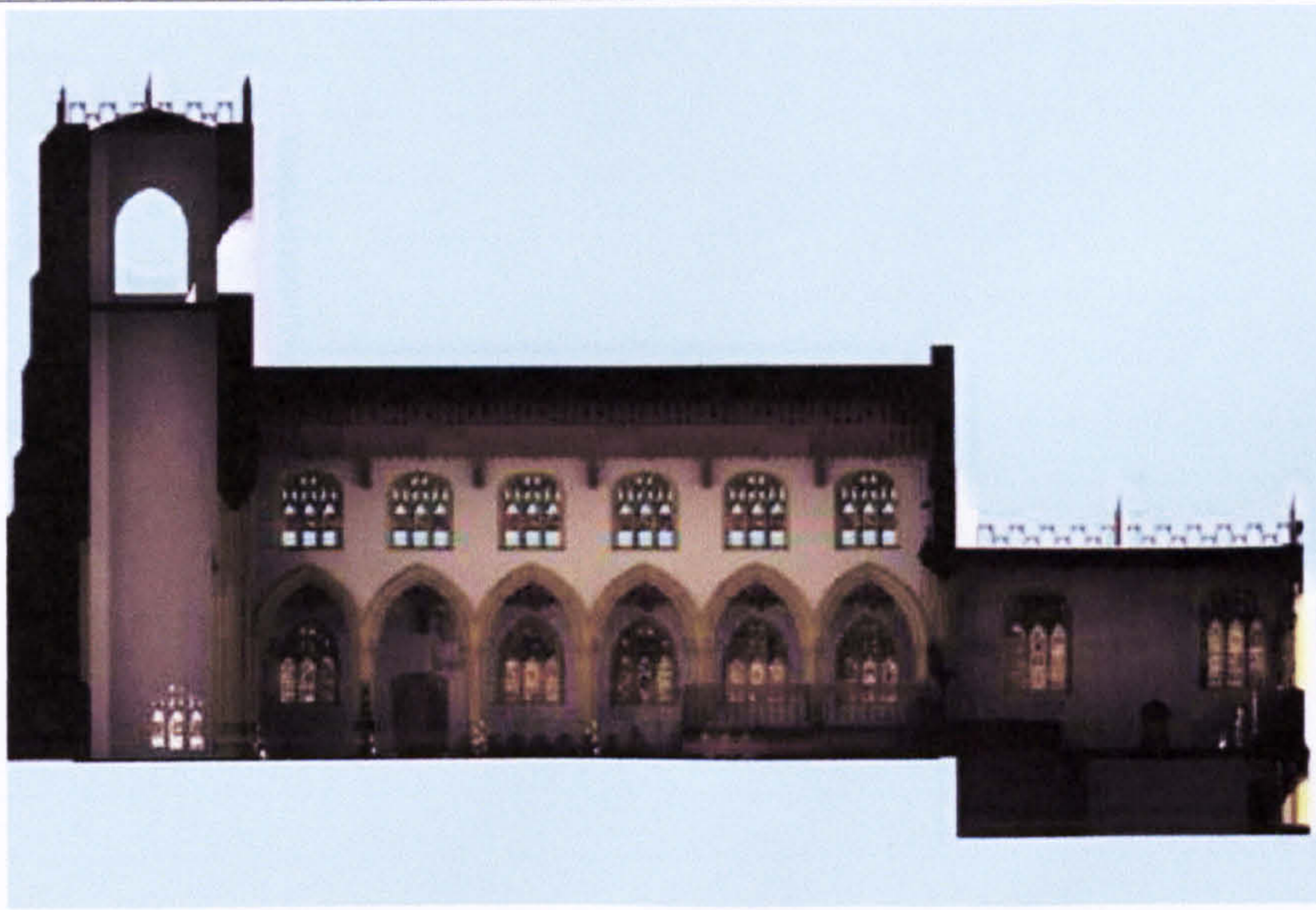


Figure 78 - St. Mary, Thirsk: Longitudinal section looking north c1460

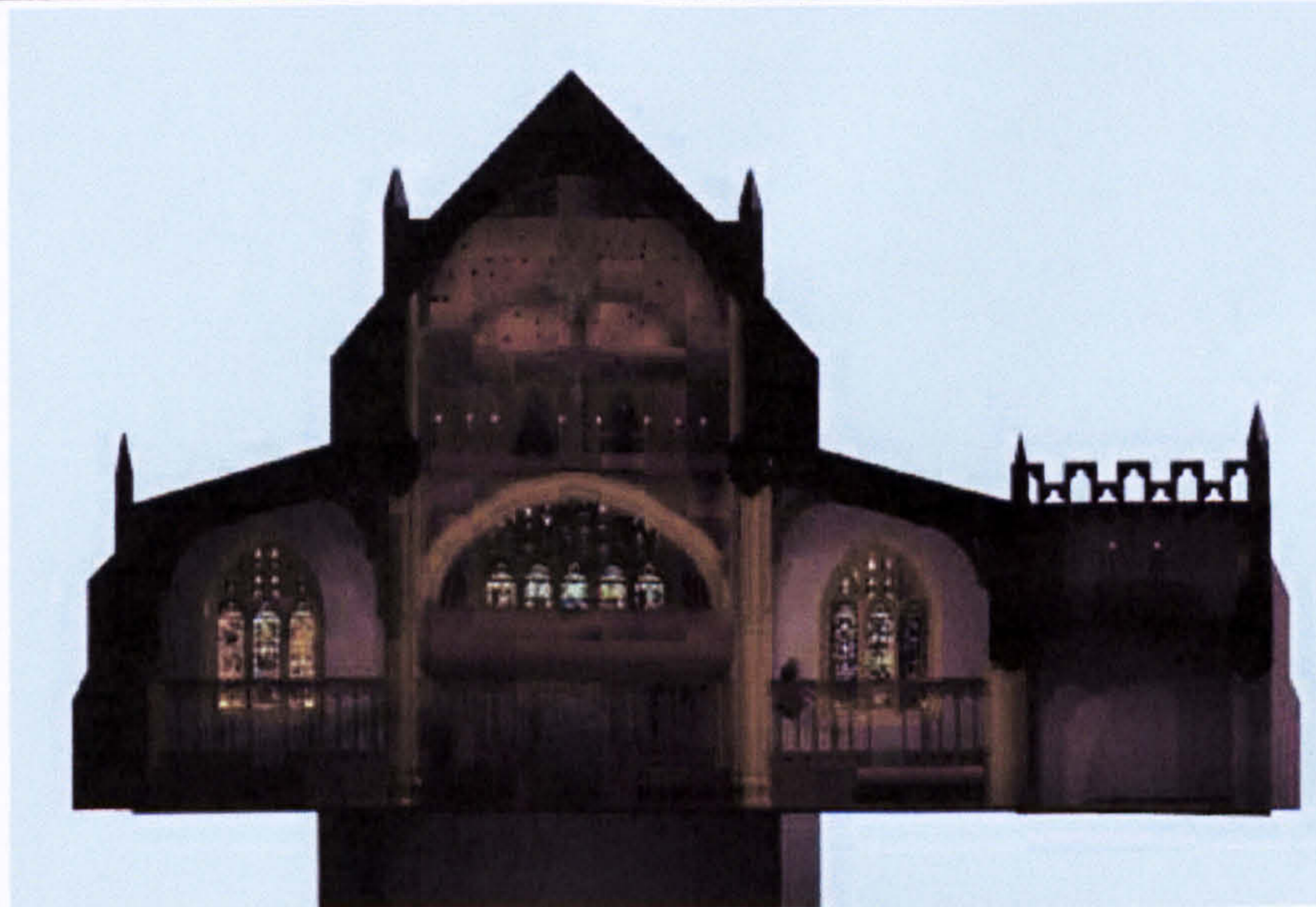


Figure 79 - St. Mary, Thirsk: Transverse section looking east c1460

Original in colour



Figure 80 - St. Mary, Thirsk: Transverse section looking west c1460

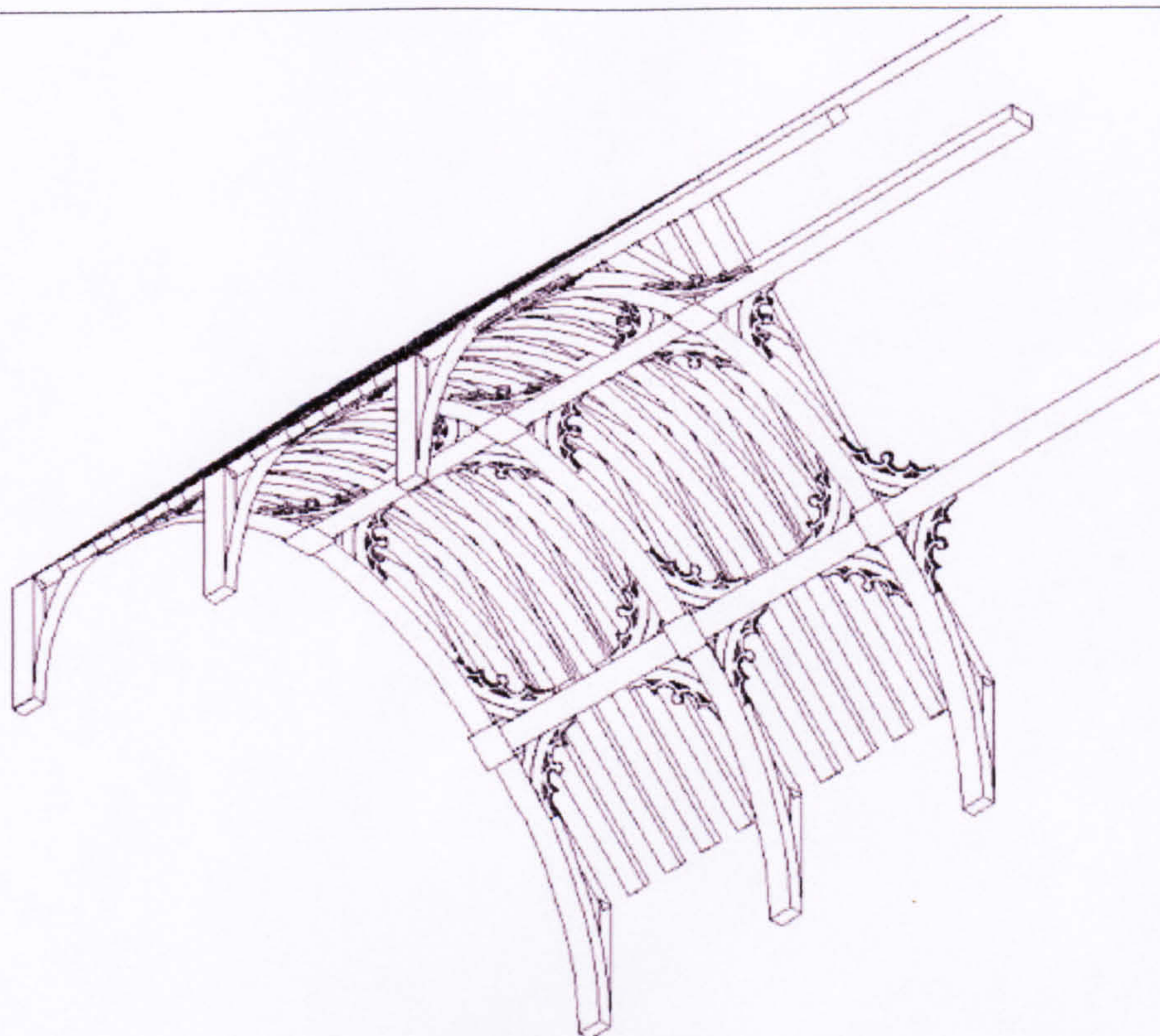


Figure 81 - St. Mary, Thirsk: Nave roof construction

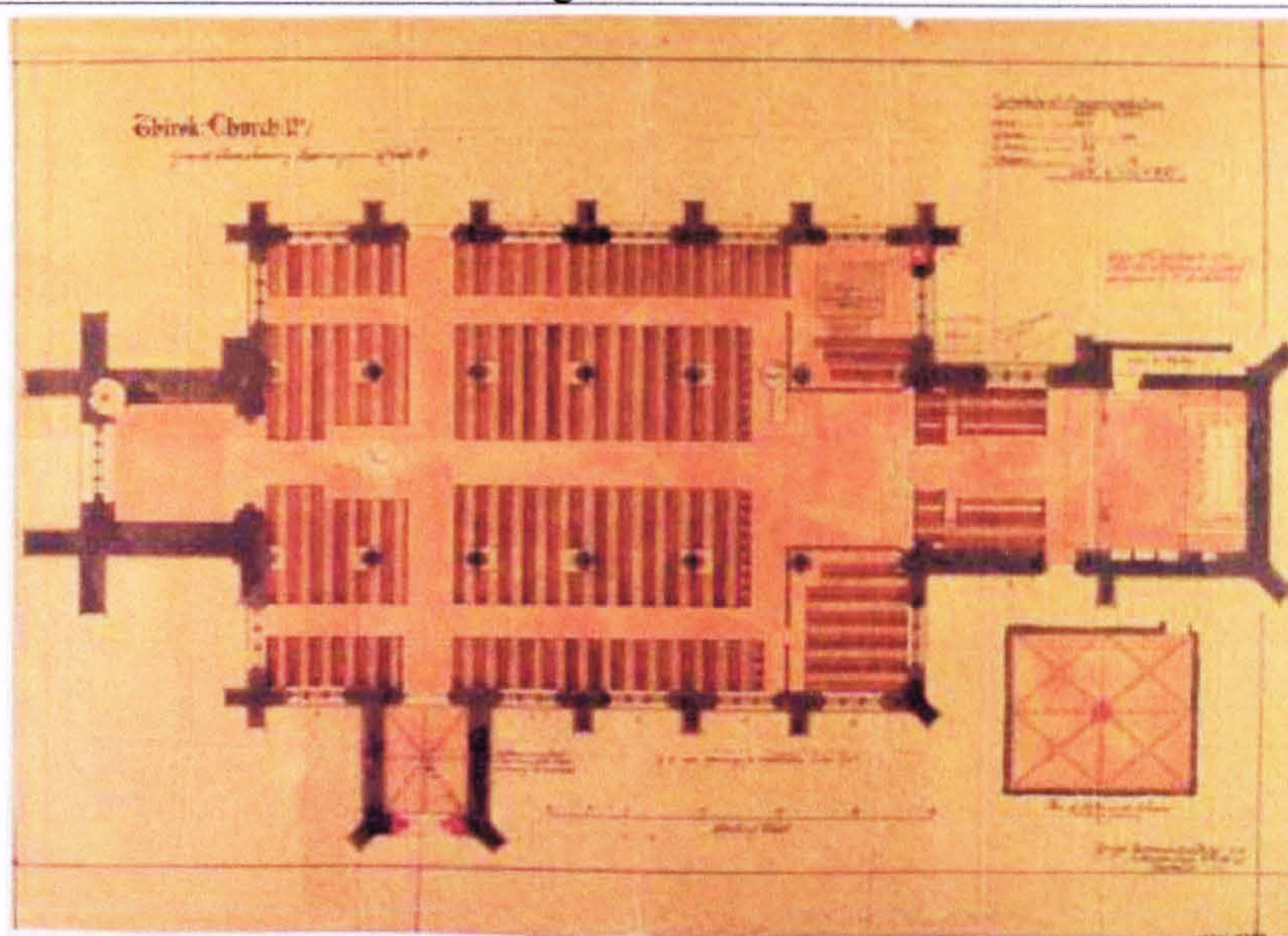
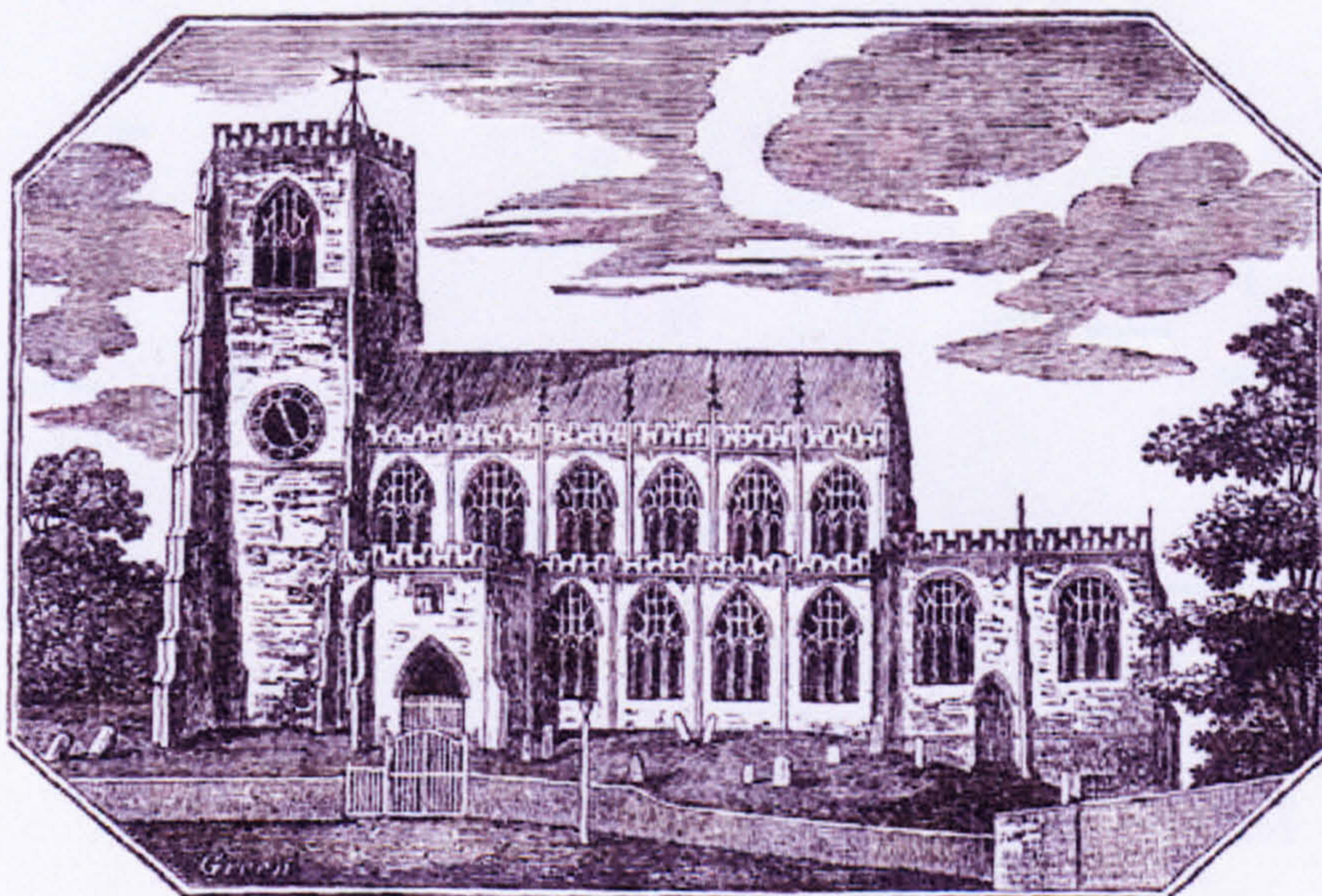


Figure 82 - St. Mary, Thirsk: Plan 1877
(George Street, Lambeth Palace Library, ICBS 7787)



SOUTH VIEW OF THE PARISH CHURCH OF THIRSK.

Figure 83 - St. Mary, Thirsk: Exterior from south c1821

(From: J.B. Jefferson, *The history of Thirsk; including an account of its once celebrated castle, Topcliffe, Byland, and Rievalx abbeys etc. etc., and other remains of antiquity in the neighbourhood, with biographical notices of eminent men* (Thirsk, 1821), frontispiece.)

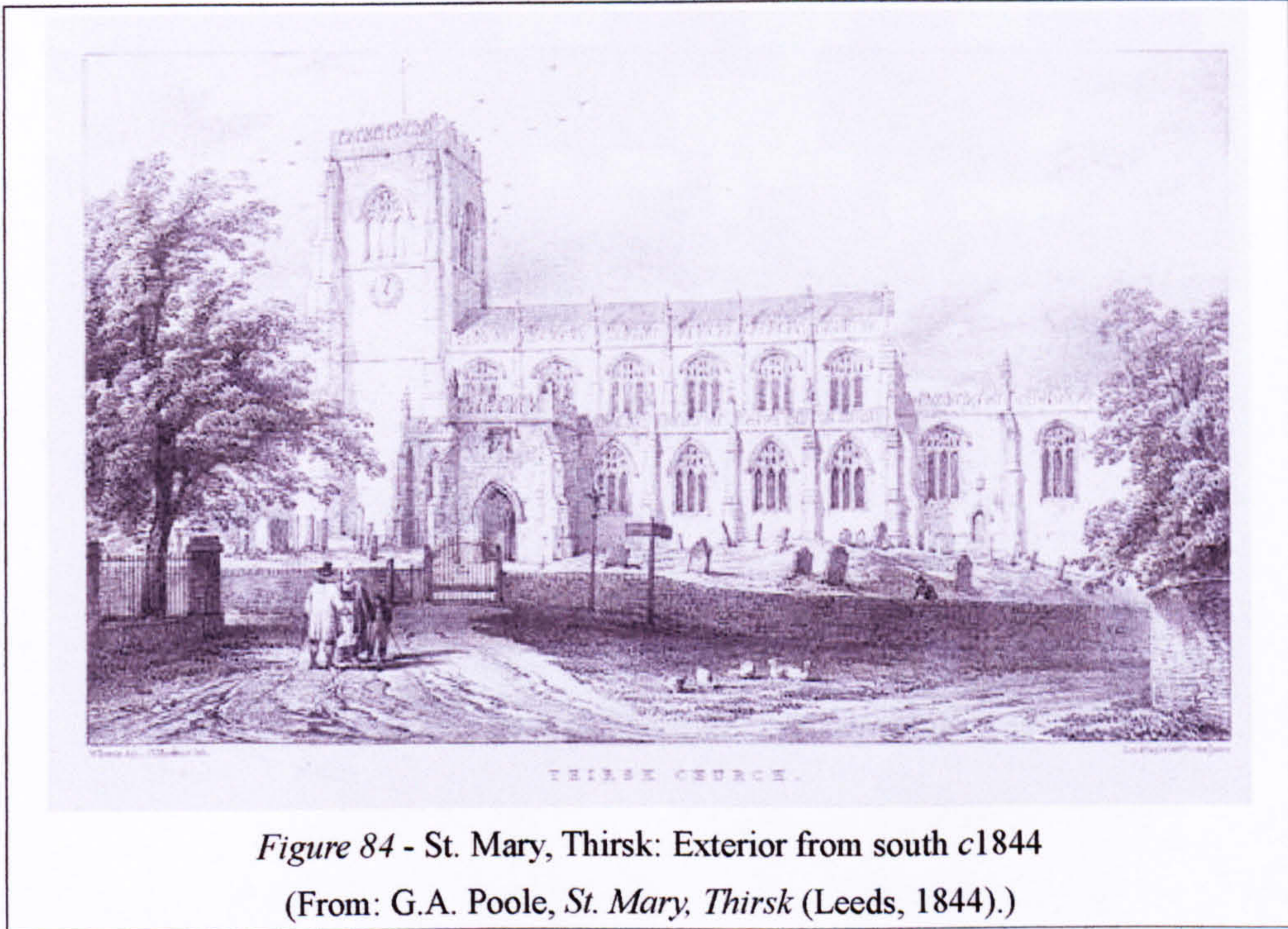


Figure 84 - St. Mary, Thirsk: Exterior from south c1844
(From: G.A. Poole, *St. Mary, Thirsk* (Leeds, 1844).)



Figure 85 - St. Mary, Thirsk: Interior from chancel looking west c1844
(From: G.A. Poole, *St. Mary, Thirsk* (Leeds, 1844).)

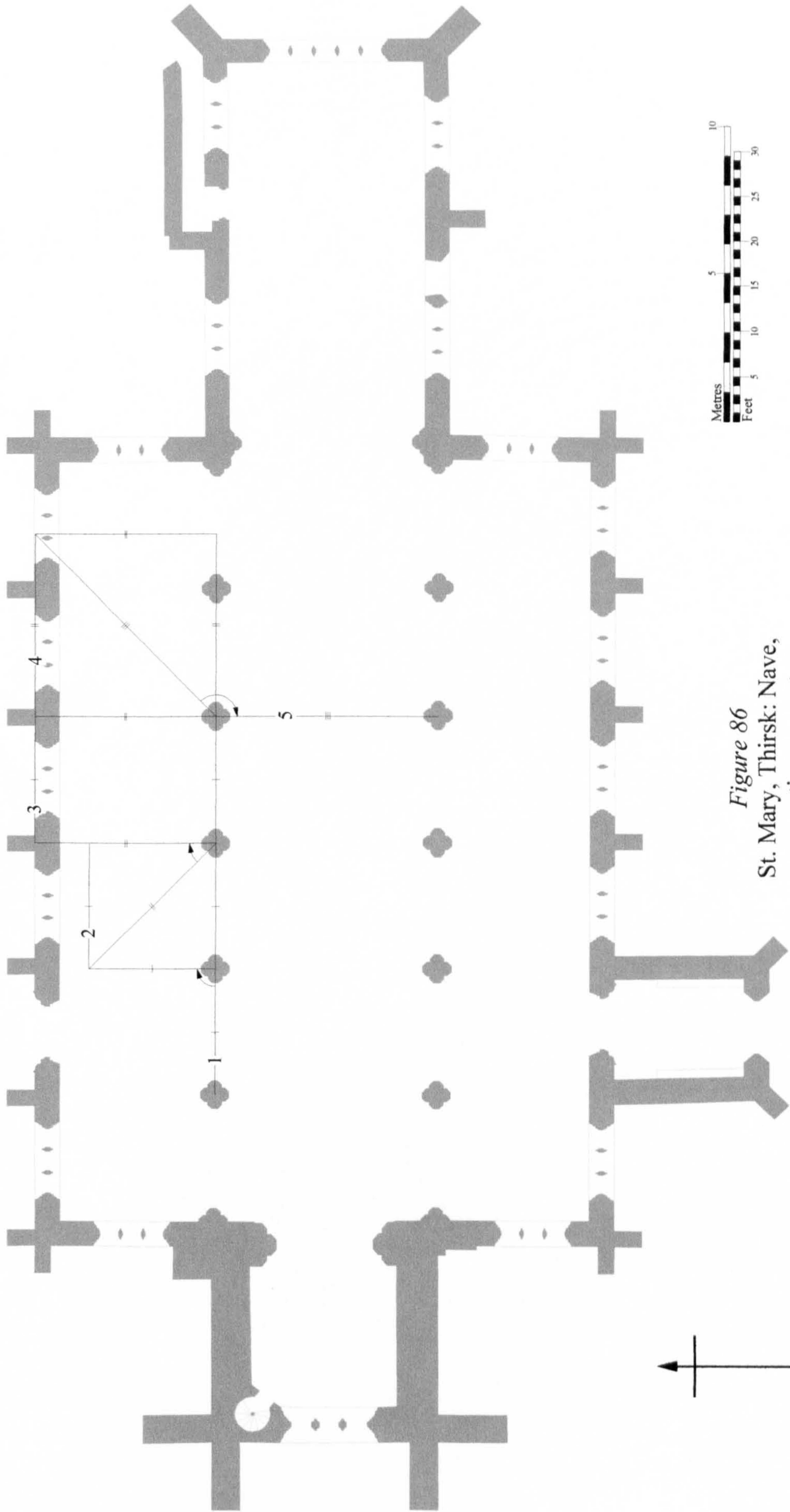
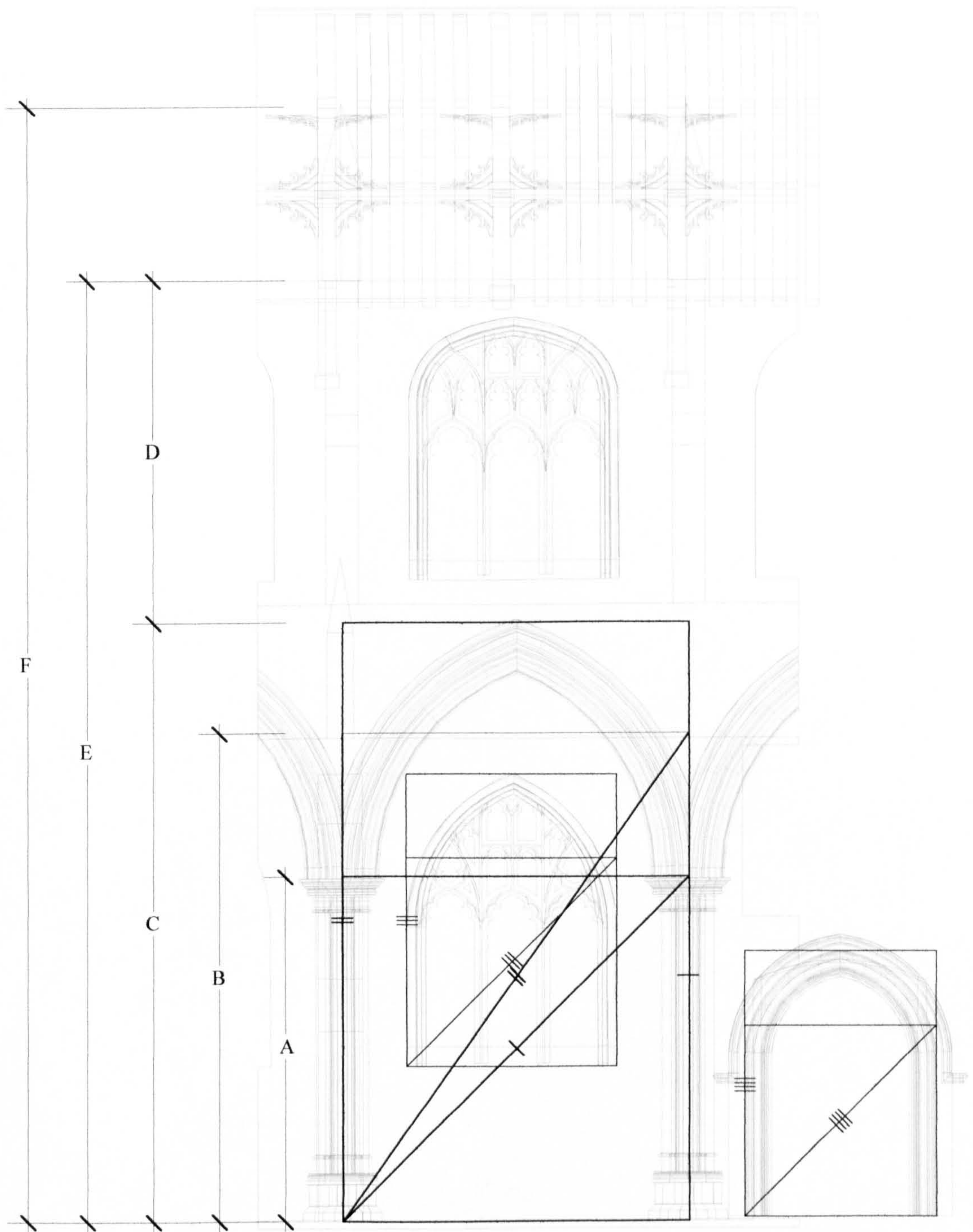


Figure 86
 St. Mary, Thirsk: Nave,
 generative geometry



- A - Length of Bay:Arcade Arch Spring = 1:1
- B - Length of Bay:Height of Aisle Wall = $1:\sqrt{2}$
- C - Length of Bay:Height of Arcade Arch = $1:\sqrt{3}$
 - Width of Nave:Height of Arcade Arch = 1:1
- D - Width of Aisle (to Outside of Wall):Height of Clerestory = 1:1

- E - Height of Nave Wall:Total Church Width = $1:\sqrt{3}$
- F - Height of Nave Roof Arch Braces:
 Total Church Width = $1:\sqrt{2}$



Figure 87 - St. Mary, Thirsk: Nave Bay Elevation,
 generative geometry

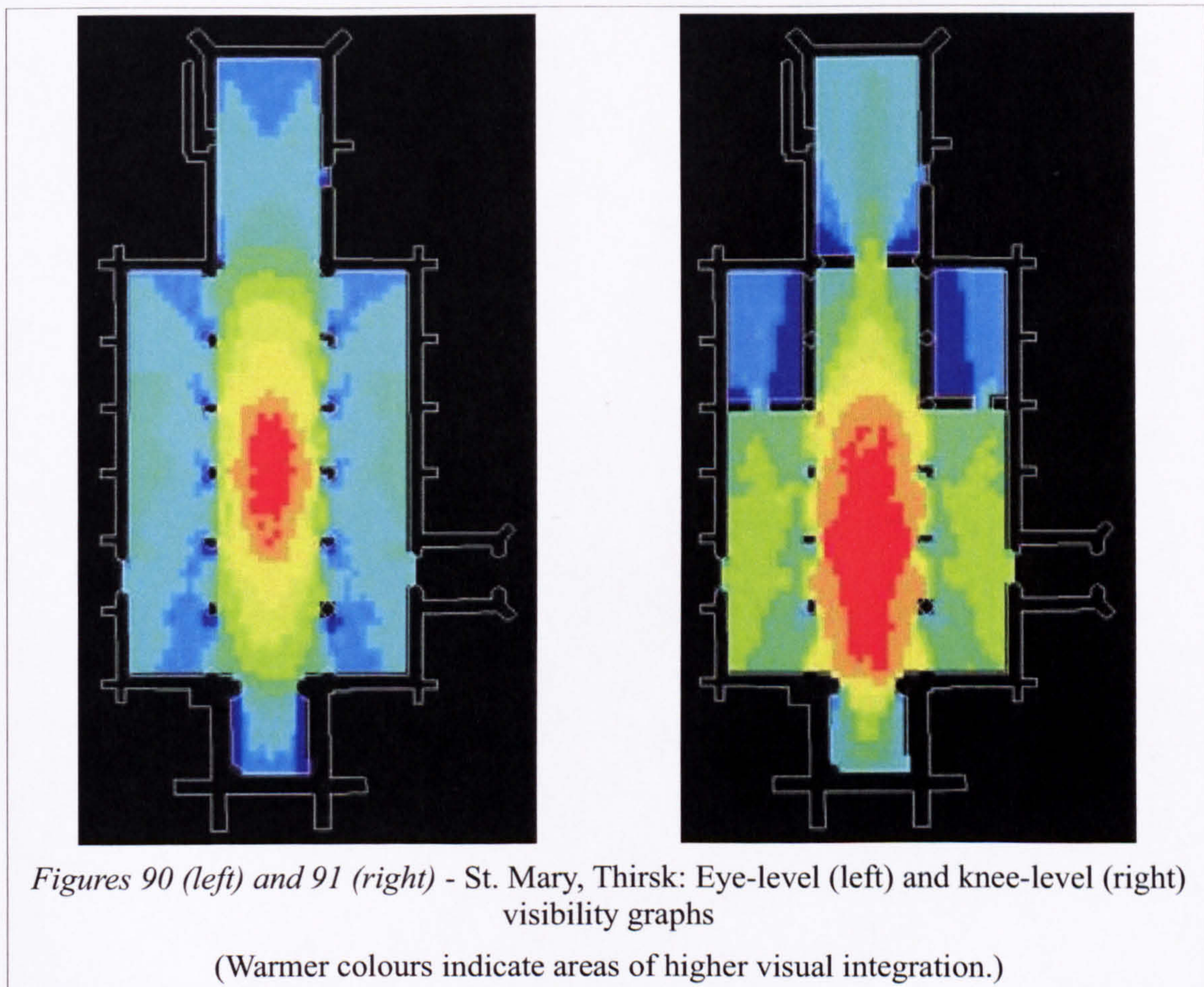
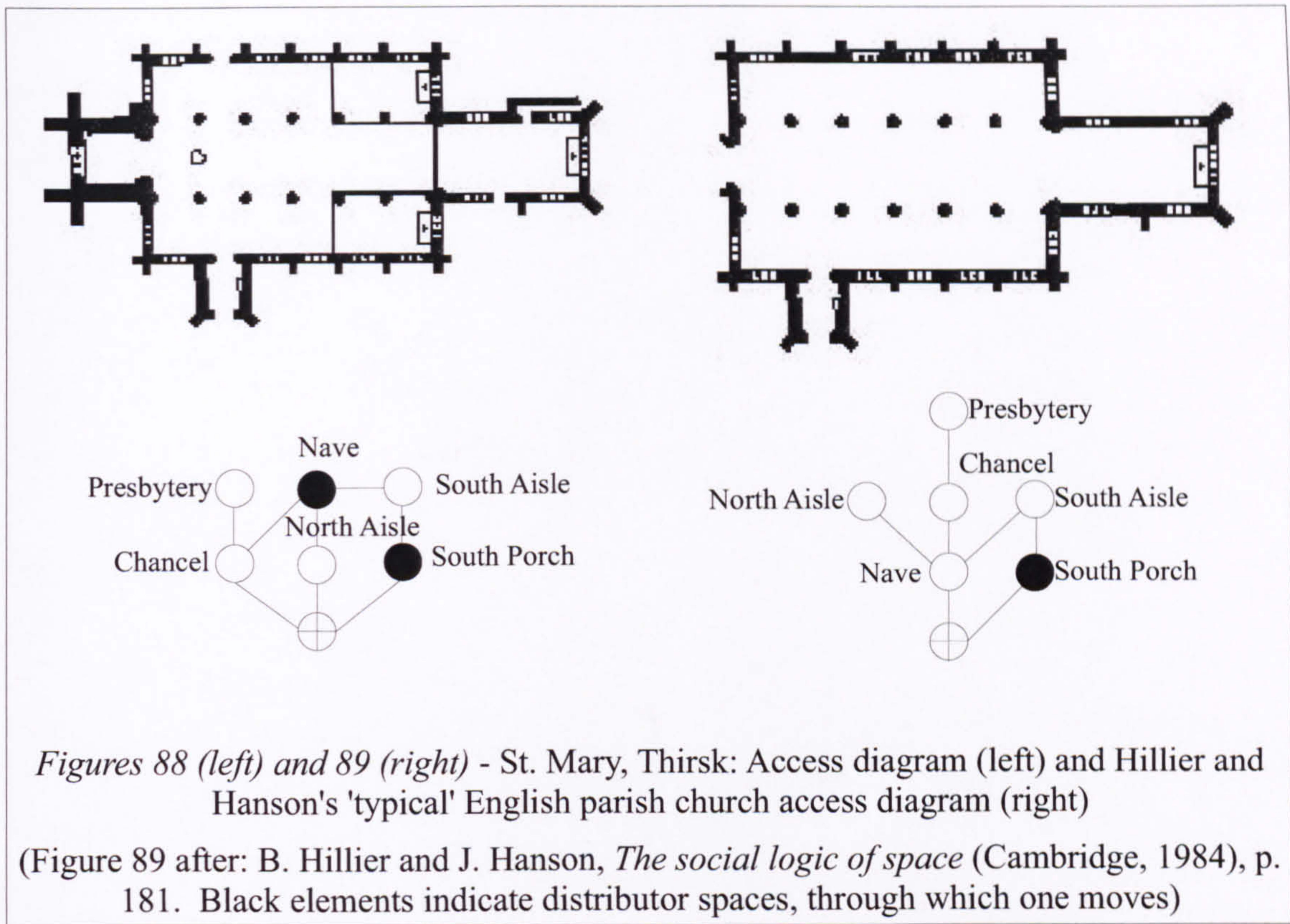




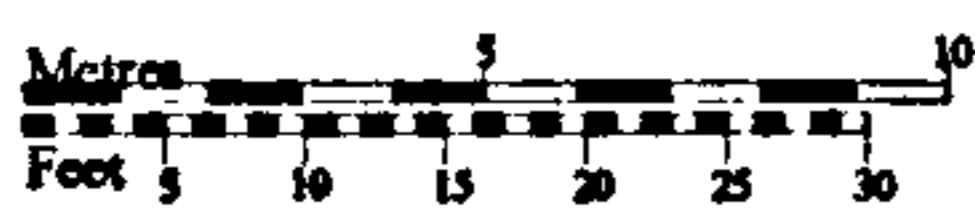
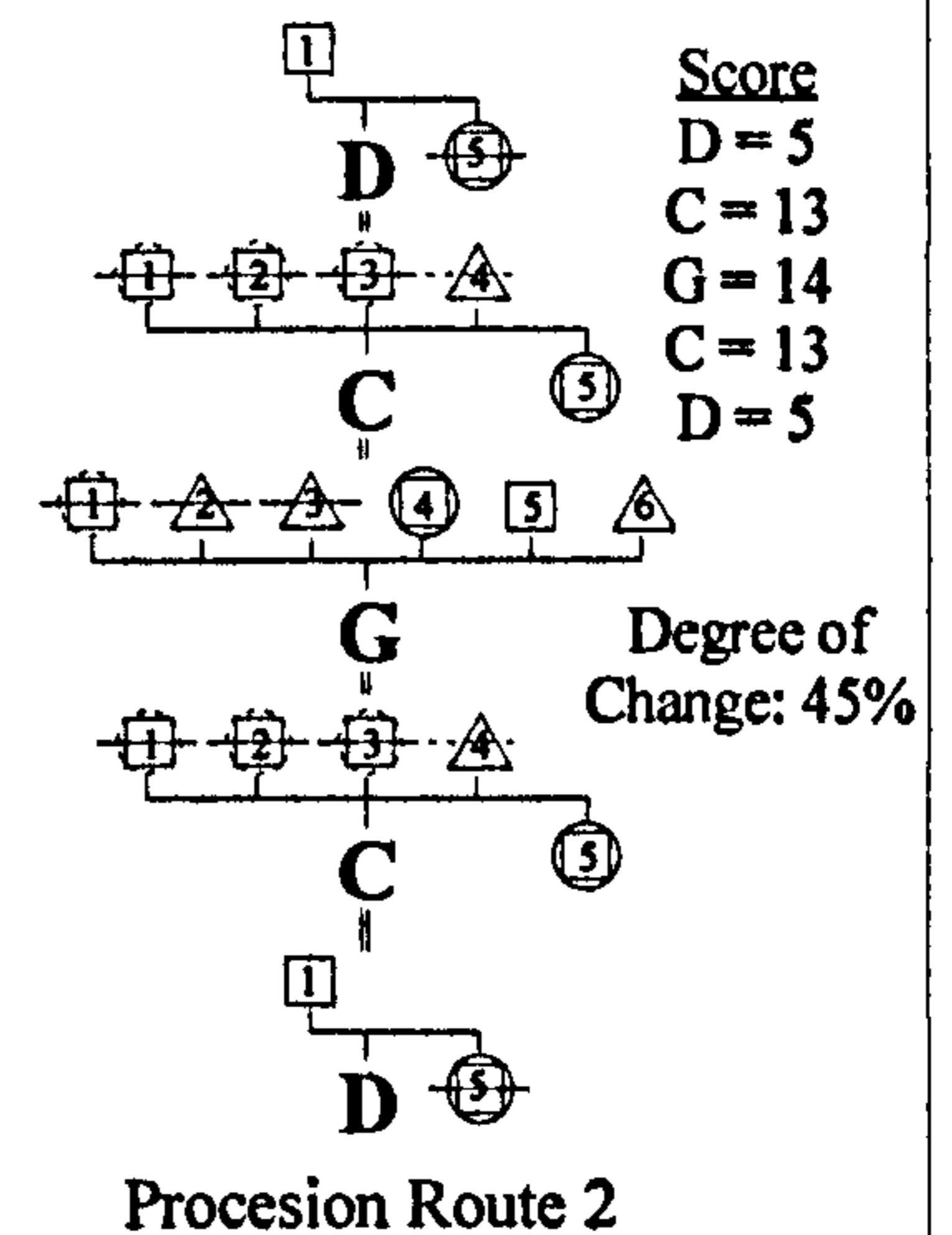
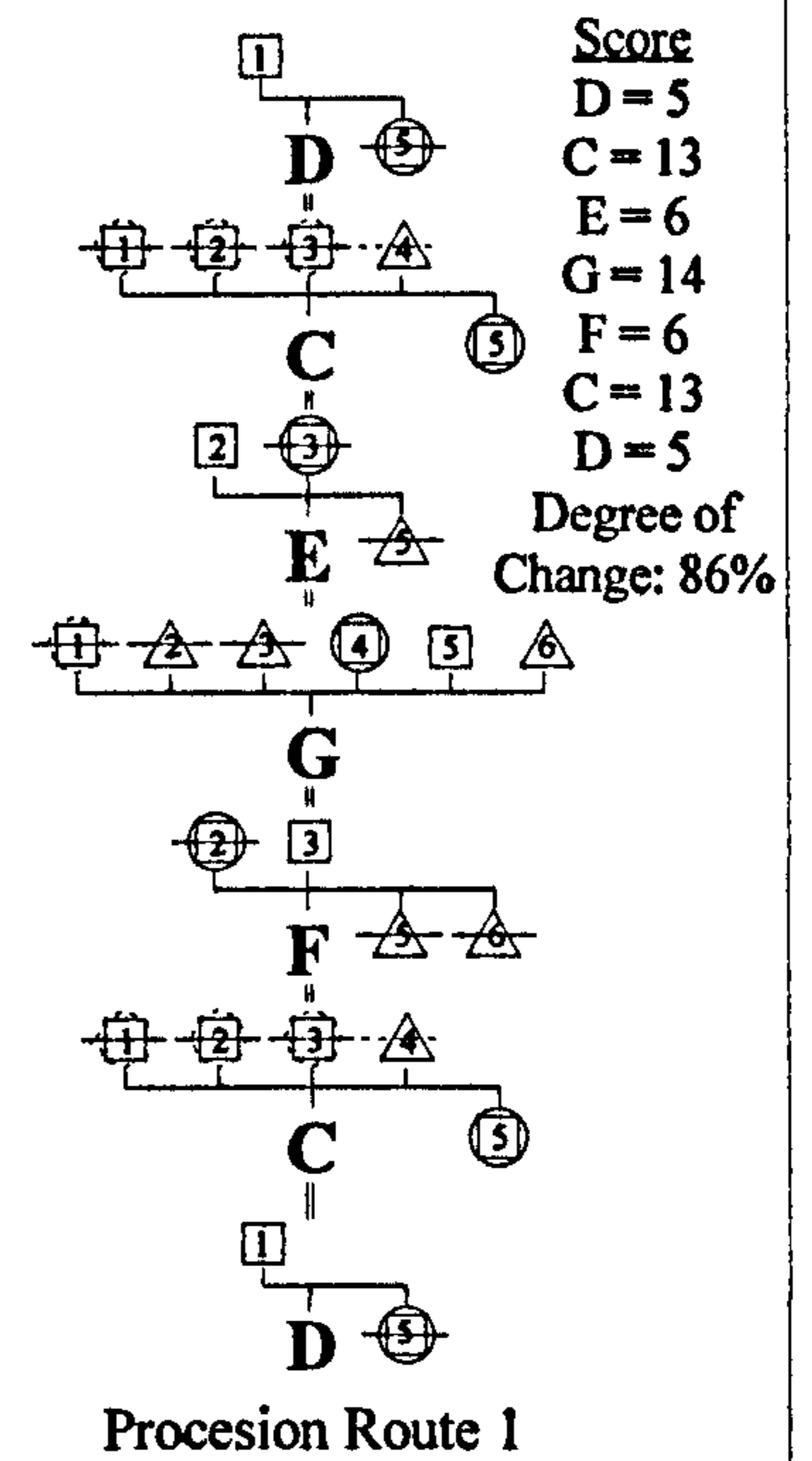
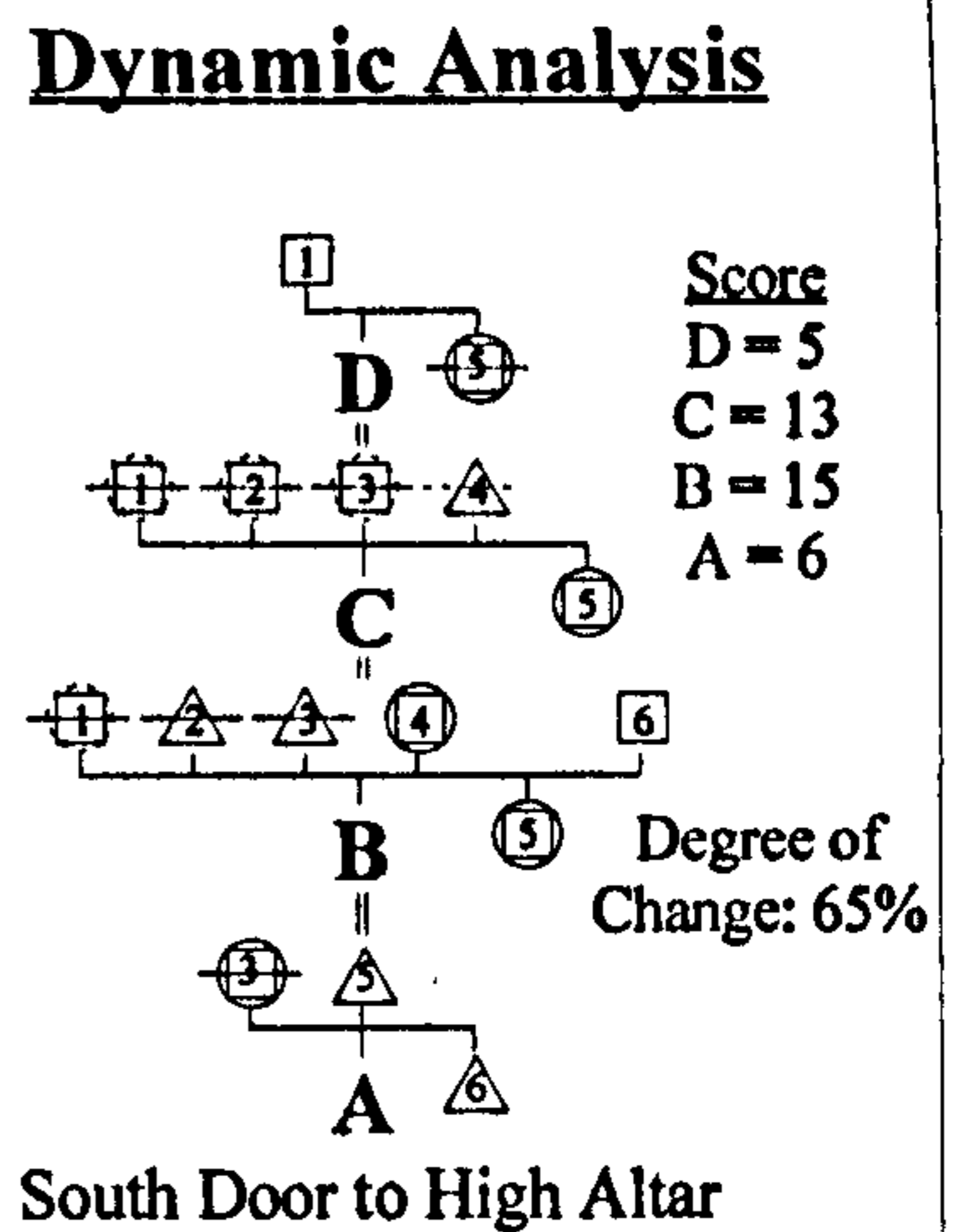
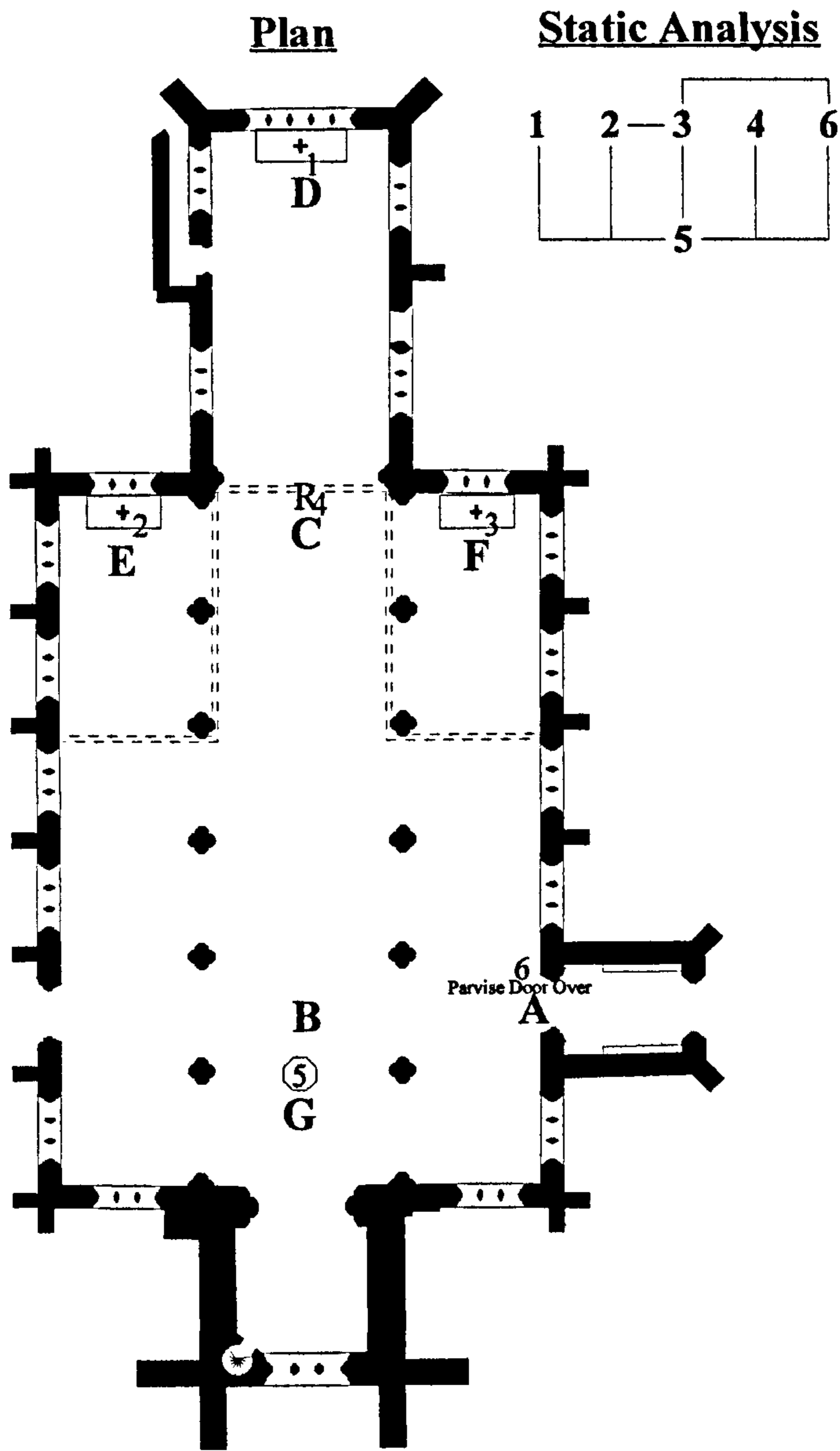
Figure 92 - St. Mary, Thirsk: Rood 'arc of address' c1460



Figure 93 - St. Mary, Thirsk: Patronal image 'arc of address' c1460



Figure 94 - St. Mary, Thirsk: Image of St. Anne 'arc of address' c1460



Key

- 1 - High Altar (St. Mary)
- 2 - Altar of St. John
- 3 - Altar of St. Anne
- 4 - Rood
- 5 - Font
- 6 - Parvise Door

- Elevation + 3 (Score)
- △ Perspective + 2
- ① Framed +1
- ⊖ Obscured -1
(Dashed lines indicate uncertain quality)
(Below Line -1)

Figure 95 - St. Mary, Thirsk: Static and dynamic visibility analyses

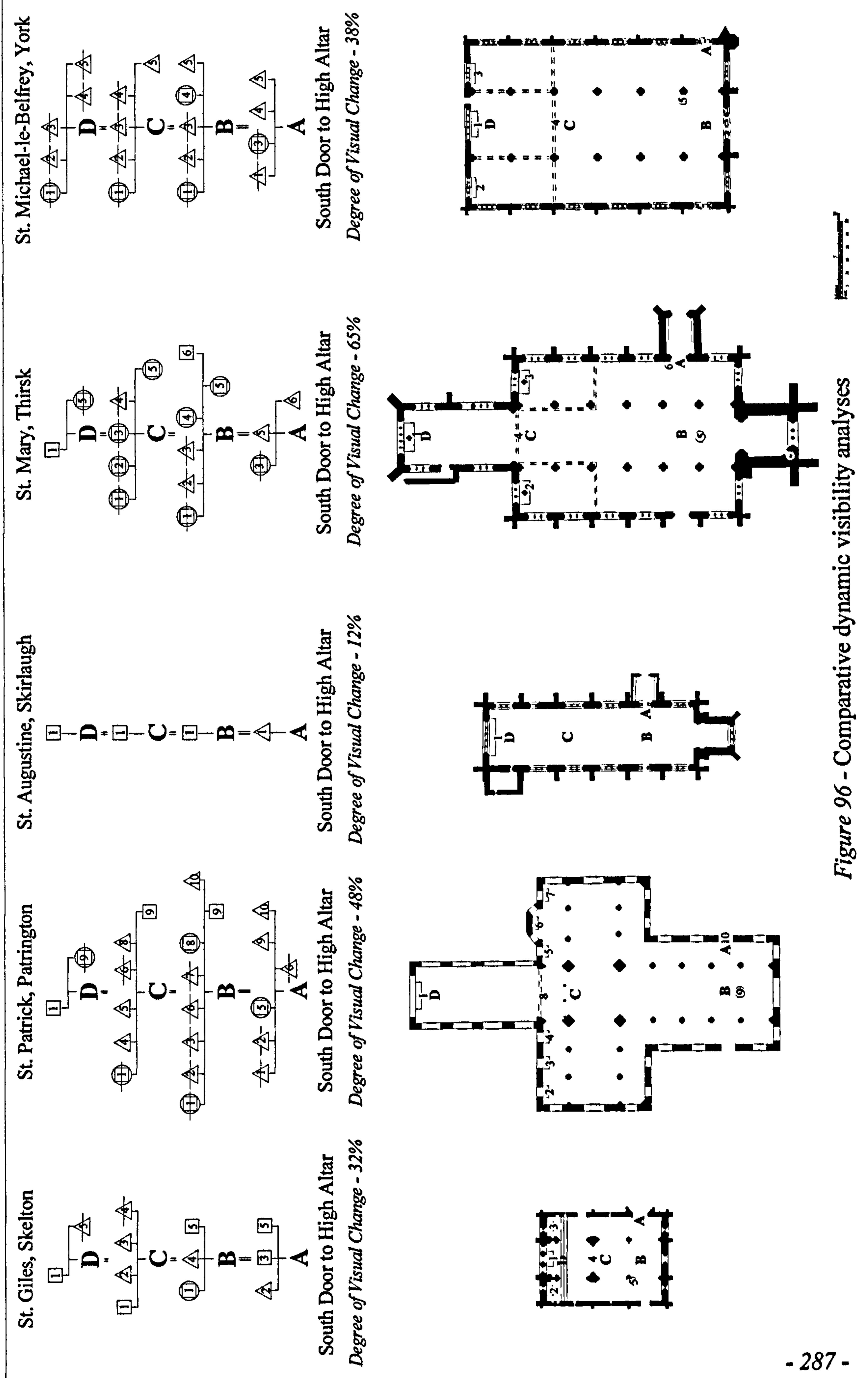


Figure 96 - Comparative dynamic visibility analyses

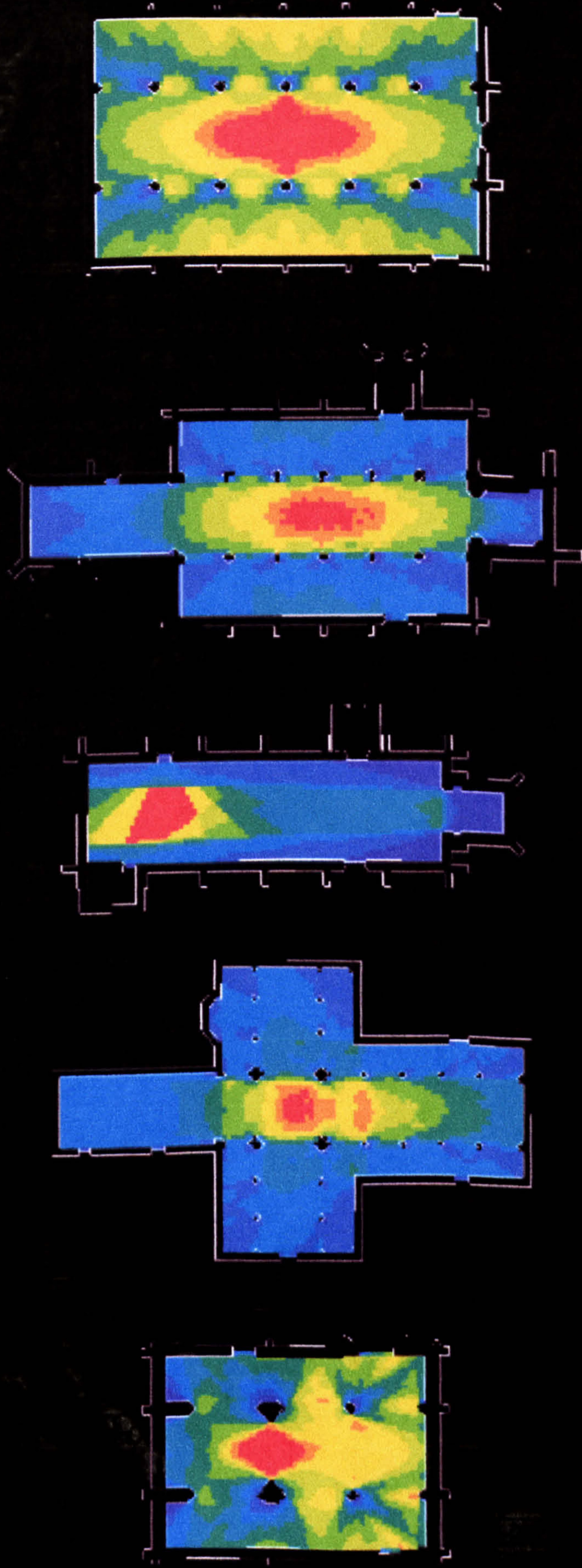


Figure 97 - Visibility graph comparisons: (Left to right) St. Giles, Skelton; St. Patrick, Patrington; St. Augustine, Skirlaugh; St. Mary, Thirsk; St. Michael-le-Belfrey, York, (not to scale), (warmer colours indicate regions of greater visual integration)
Original in colour

Plates

Original in colour

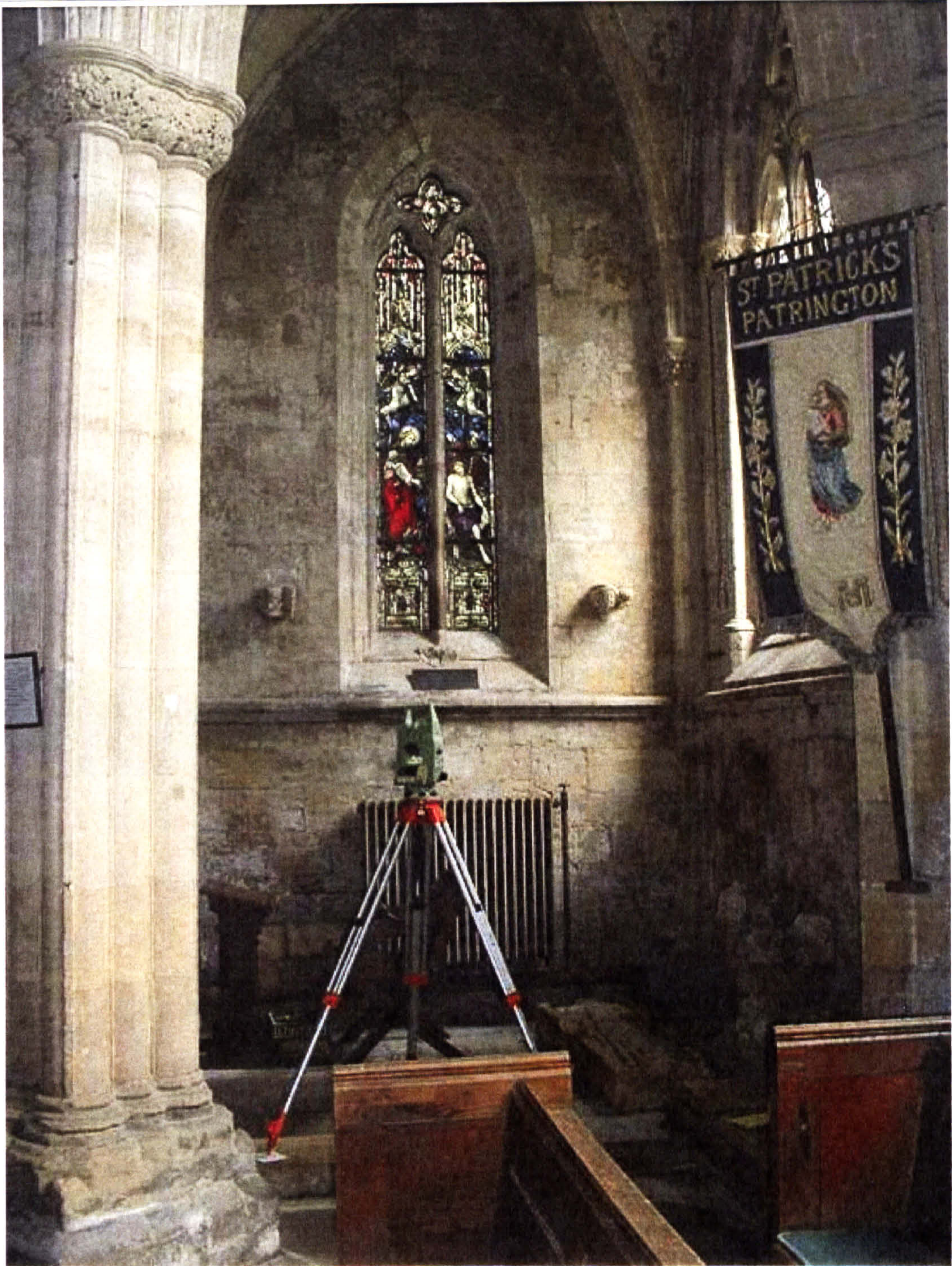


Plate 1 - The theodolite

Original in colour



Plate 2 - St. Michael-le-Belfrey, York: Pier base

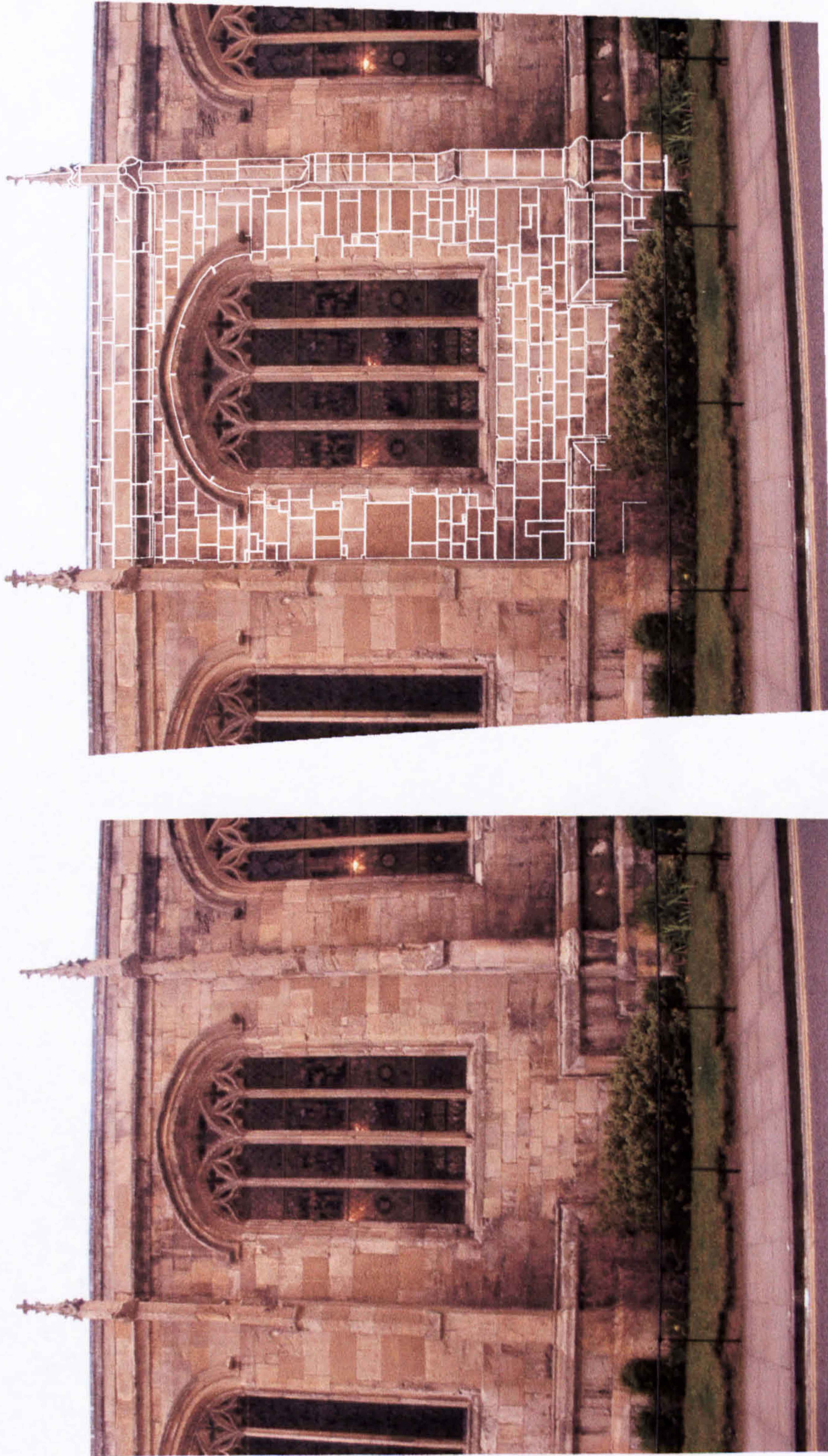


Plate 3 - St. Michael-le-Belfrey, York: North aisle, third bay from east, exterior, original photo (left), corrected photo with stone-by-stone tracing (right)



Plate 4 - St. Michael-le-Belfrey, York: West end with southwest corner of York Minster on left



Plate 5 - St. Michael-le-Belfrey, York: Exterior from York Minster southwest tower looking southeast



Plate 6 - St. Michael-le-Belfrey, York: Interior looking east from gallery



Plates 7 (left) and 8 (right) - St. Michael-le-Belfrey, York: Sixteenth century desk ends (left) and bench standard (right)



Plate 9 - St. Michael-le-Belfrey, York: Original vestry door (now behind early eighteenth century reredos)



Plate 10 - St. Mary, Beverley: Nave looking east
(Photo: Lila Rakoczy)



Plate 11 - St. Augustine, Skirlough: Exterior from the southeast



Plate 12 - St. Augustine, Skirlough: Interior looking west



Plate 13 - St. Augustine, Skirlough: Exterior, join of tower and west wall
(Possible gable fragment circled)

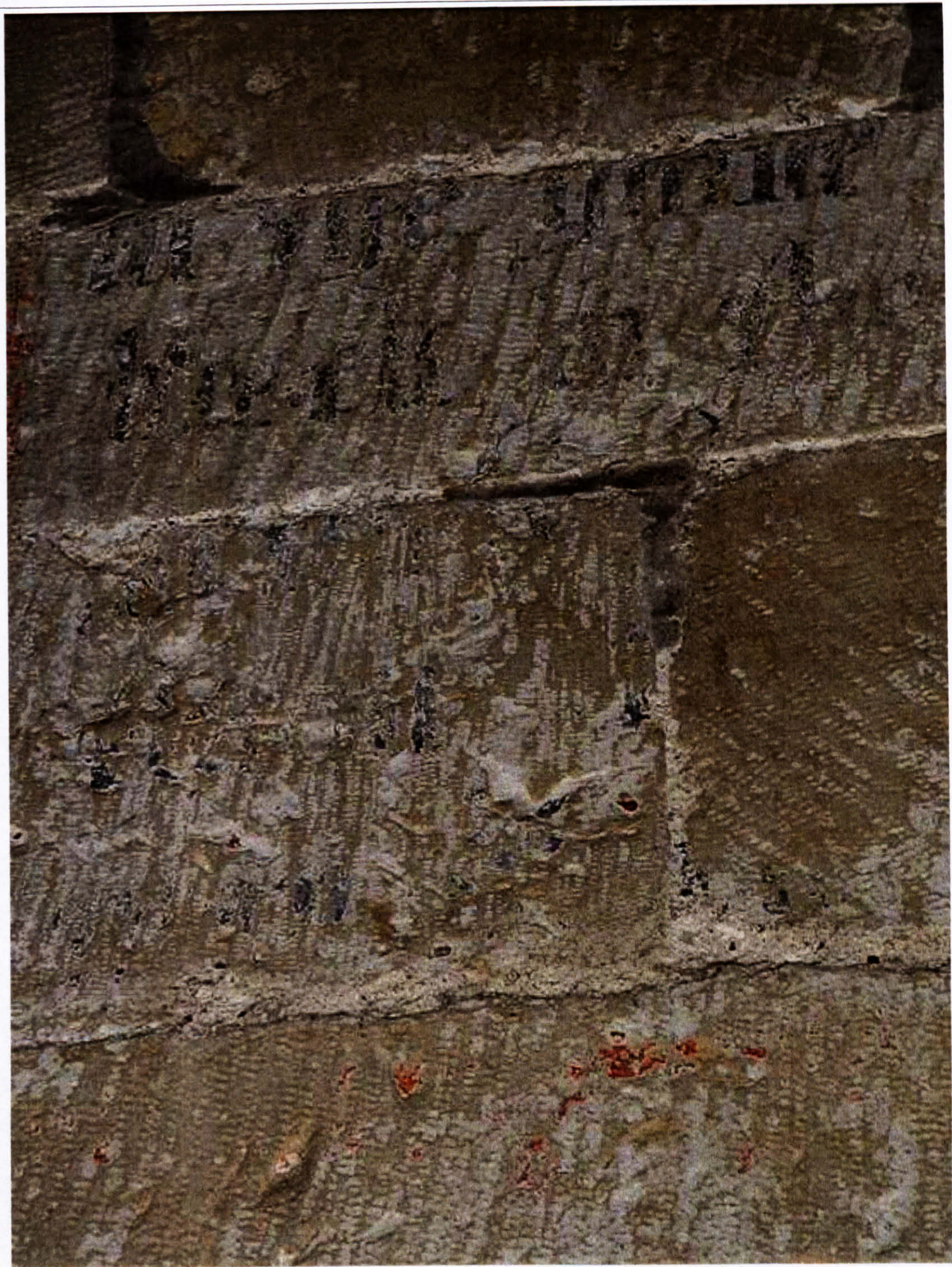


Plate 14 - St. Augustine, Skirlough: Remains of wall texts



Plate 15 - St. Augustine, Skirlaugh: Remains of figural scene, south end of west wall



Plate 16 - St. Augustine, Skirlaugh: Remains of stencilling (black) on red ground, south wall between the third and fourth bays from the east

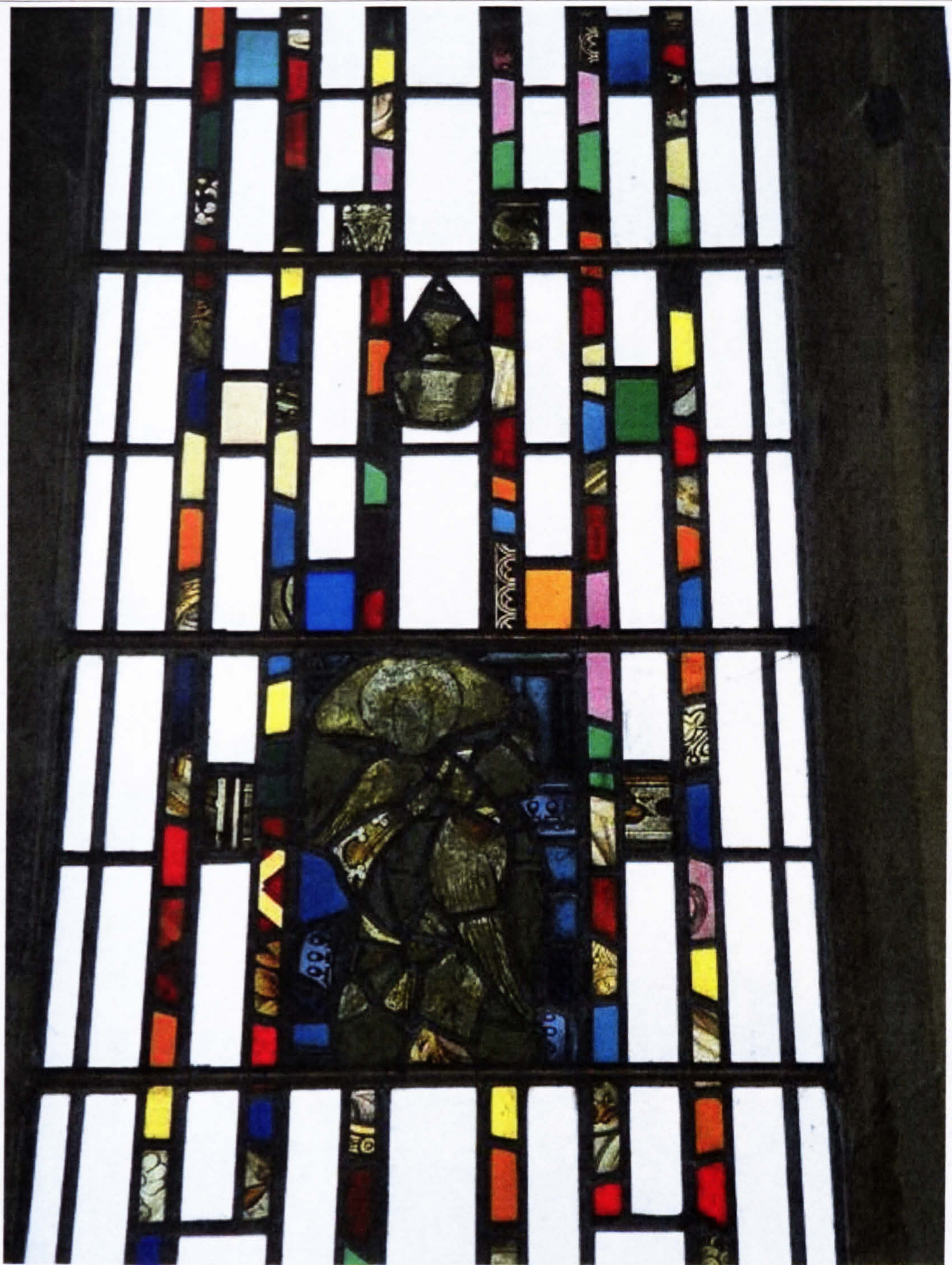


Plate 17 - St. Augustine, Skirlough: Fragments of medieval glass, east window



Plates 18 (left) and 19 (right) - St. Augustine, Skirlaugh: South (left) and north (right) image brackets, east wall



Plate 20 - New College Chapel, Oxford: Interior looking east (left); Exterior, left four bays hall, right six bays chapel and ante-chapel

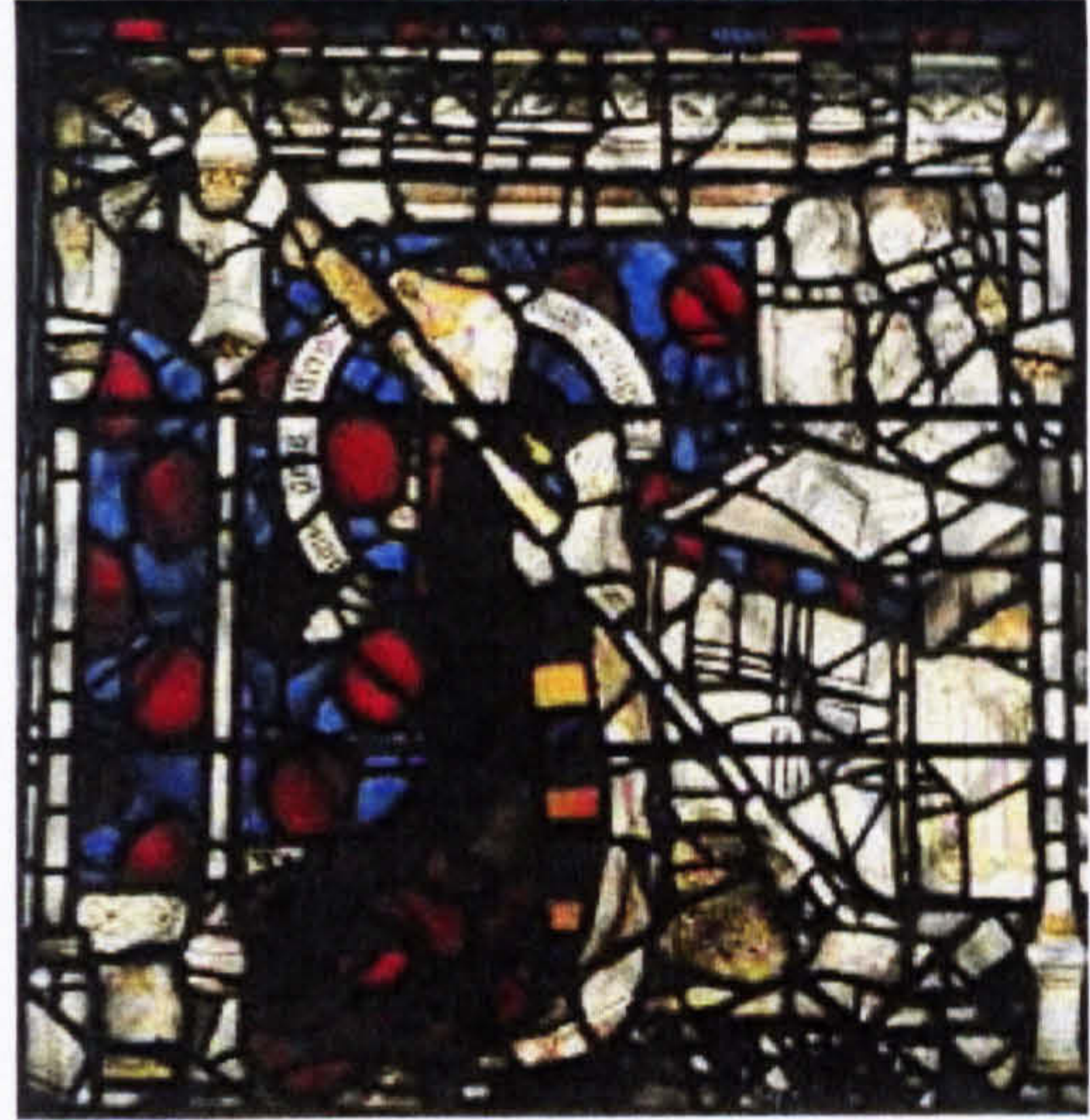
(Photos: (left) New College Oxford, Available:
http://www.new.ox.ac.uk/The_Chapel_and_Choir/The_Chapel/index.php; (right) Oxondude)



Plate 21 - York Minster, York: Great East Window (panel 8j), The Temple in Jerusalem
(Photo: Thomas French)



Plate 22 - York Minster, York: Great East Window (panel 7e), The Temple in Heaven
(From T. French, *York Minster: The Great East Window*, *Corpus Vitrearum Medii Aevi*
Summary Catalogue 2 (1995).)



Plates 23, 24, 25, 26 - (left to right, upper to lower) York Minster, York: Great East Window panel 8j, details (upper left, lower left); panel 1e; panel 7e, detail (right)

(Photos: Thomas French)

Original in colour



Plate 27 - St. Giles, Skelton: Exterior from southwest



Plate 28 - St. Giles, Skelton: South door

Original in colour

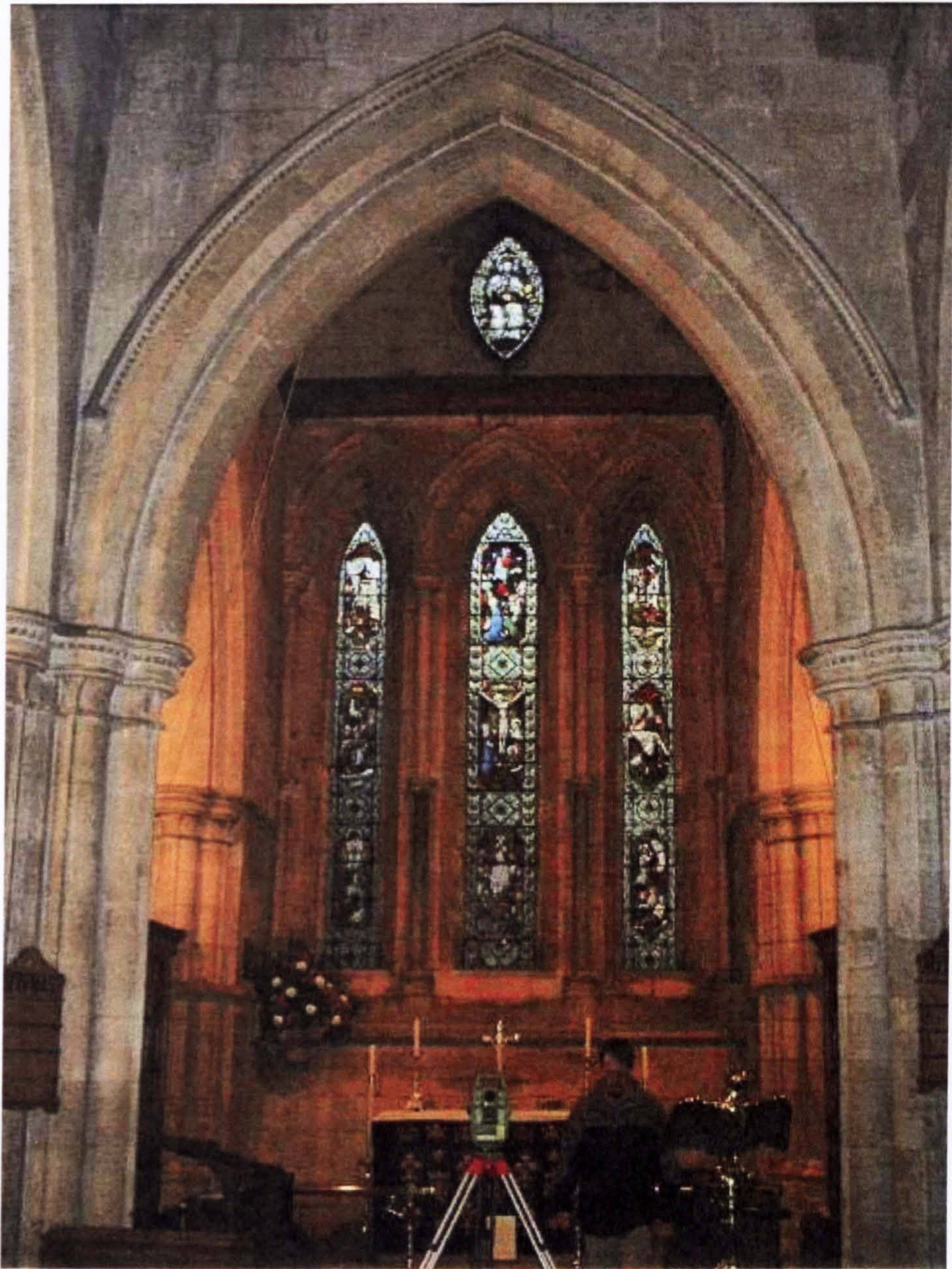


Plate 29 - St. Giles, Skelton: Chancel looking east

(Photo: Harry Masinton)

Original in colour

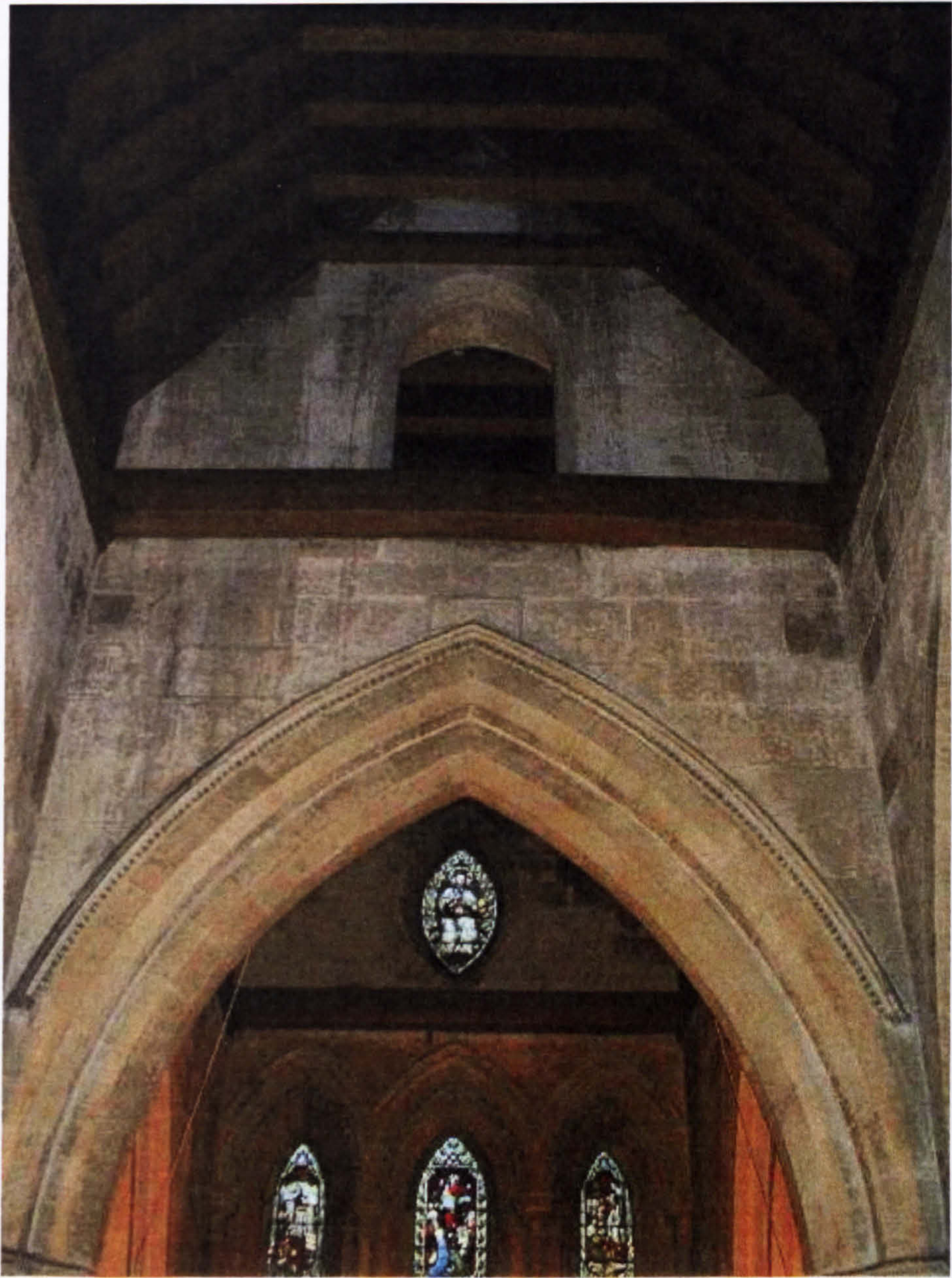


Plate 30 - St. Giles, Skelton: Chancel arches
(Photo: Harry Masinton)



Plate 31 - St. Giles, Skelton: Image bracket north of High Altar, east wall
(Photo: Harry Masinton)



Plate 32 - St. Giles, Skelton: Font
(Photo: Harry Masinton)

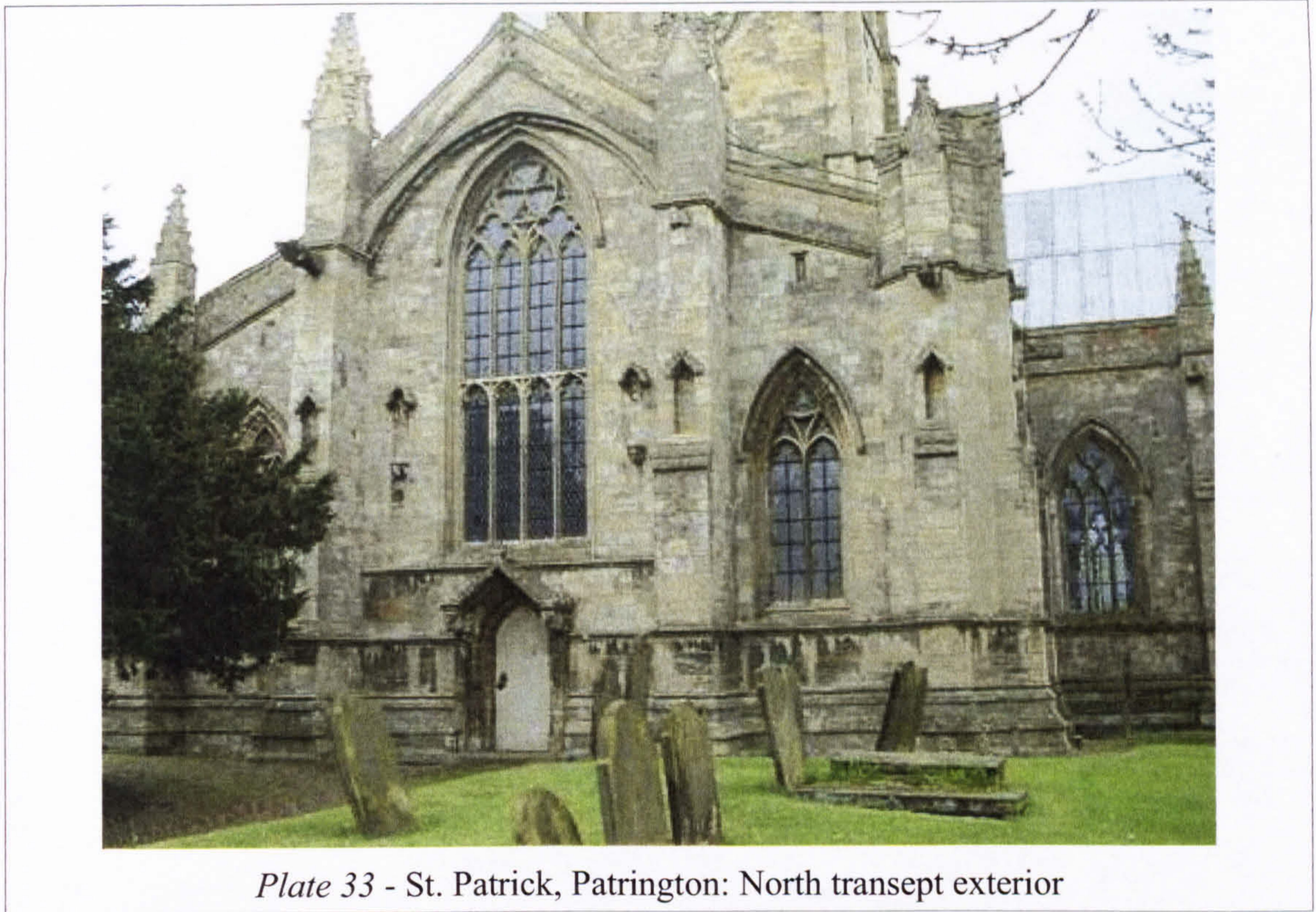
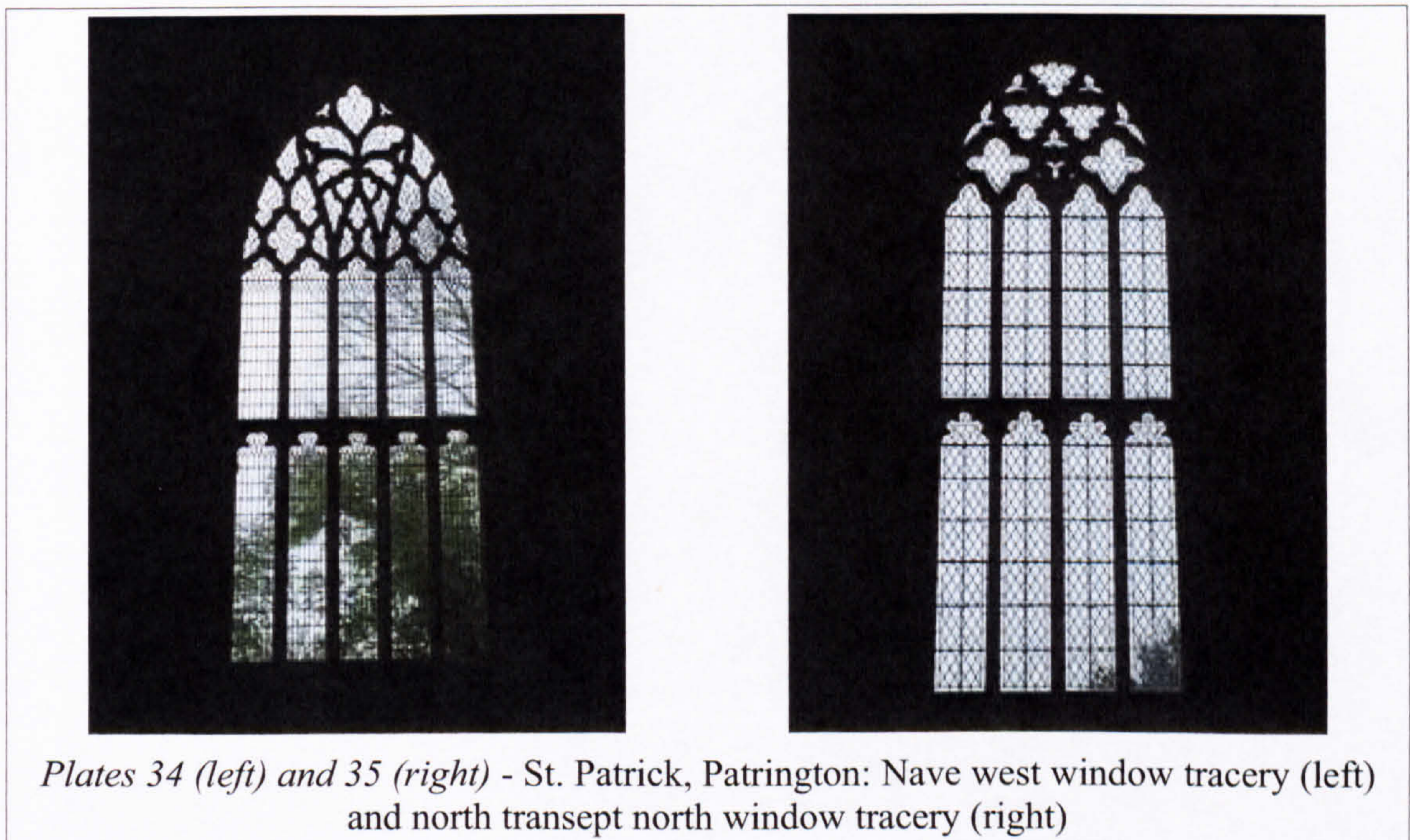


Plate 33 - St. Patrick, Patrington: North transept exterior



Plates 34 (left) and 35 (right) - St. Patrick, Patrington: Nave west window tracery (left) and north transept north window tracery (right)

Original in colour

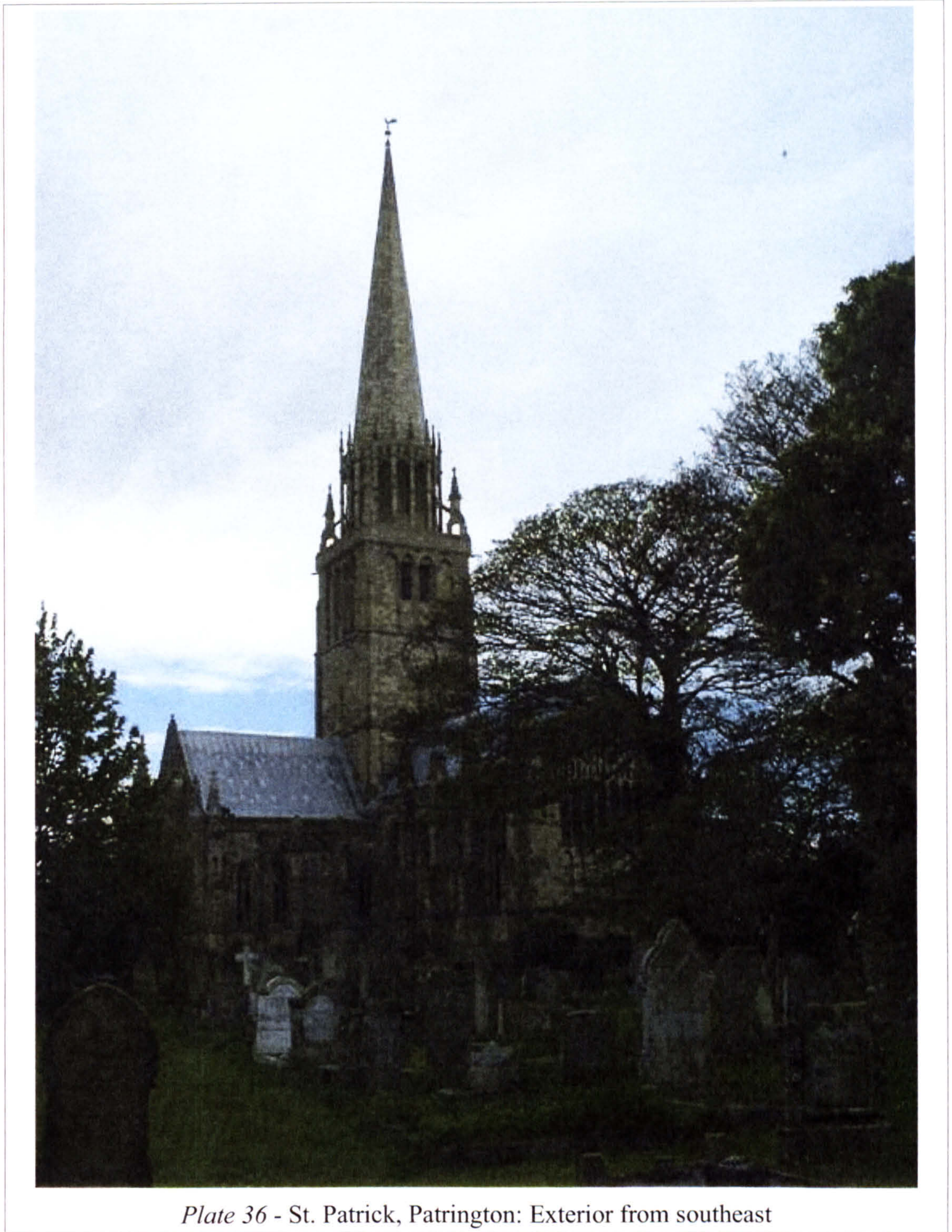


Plate 36 - St. Patrick, Patrinton: Exterior from southeast



Plate 37 - St. Patrick, Patrington: Exterior from south

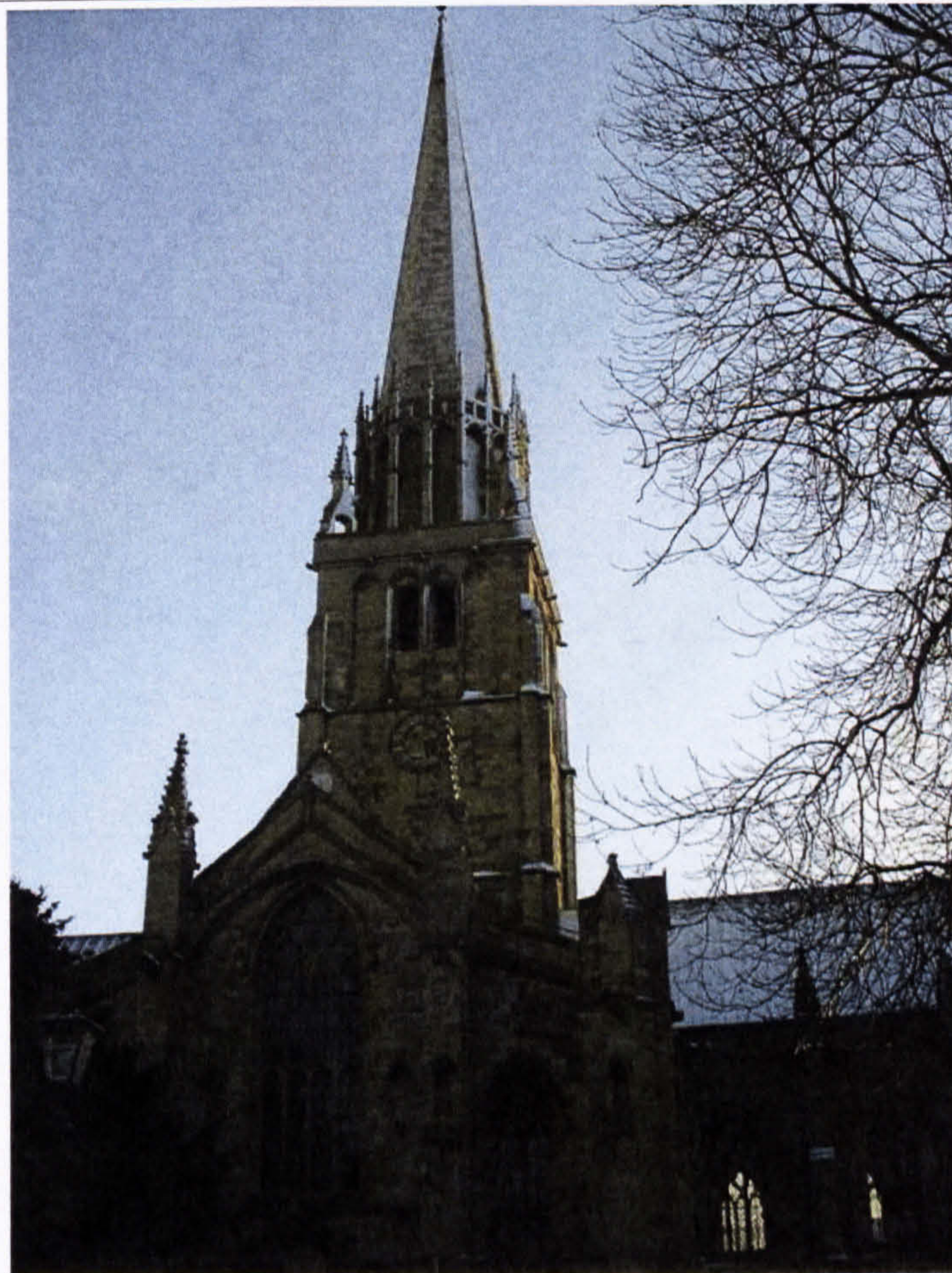


Plate 38 - St. Patrick, Patrington: Spire from northwest



Plate 39 - St. Patrick, Patrington: Interior, nave and chancel looking east

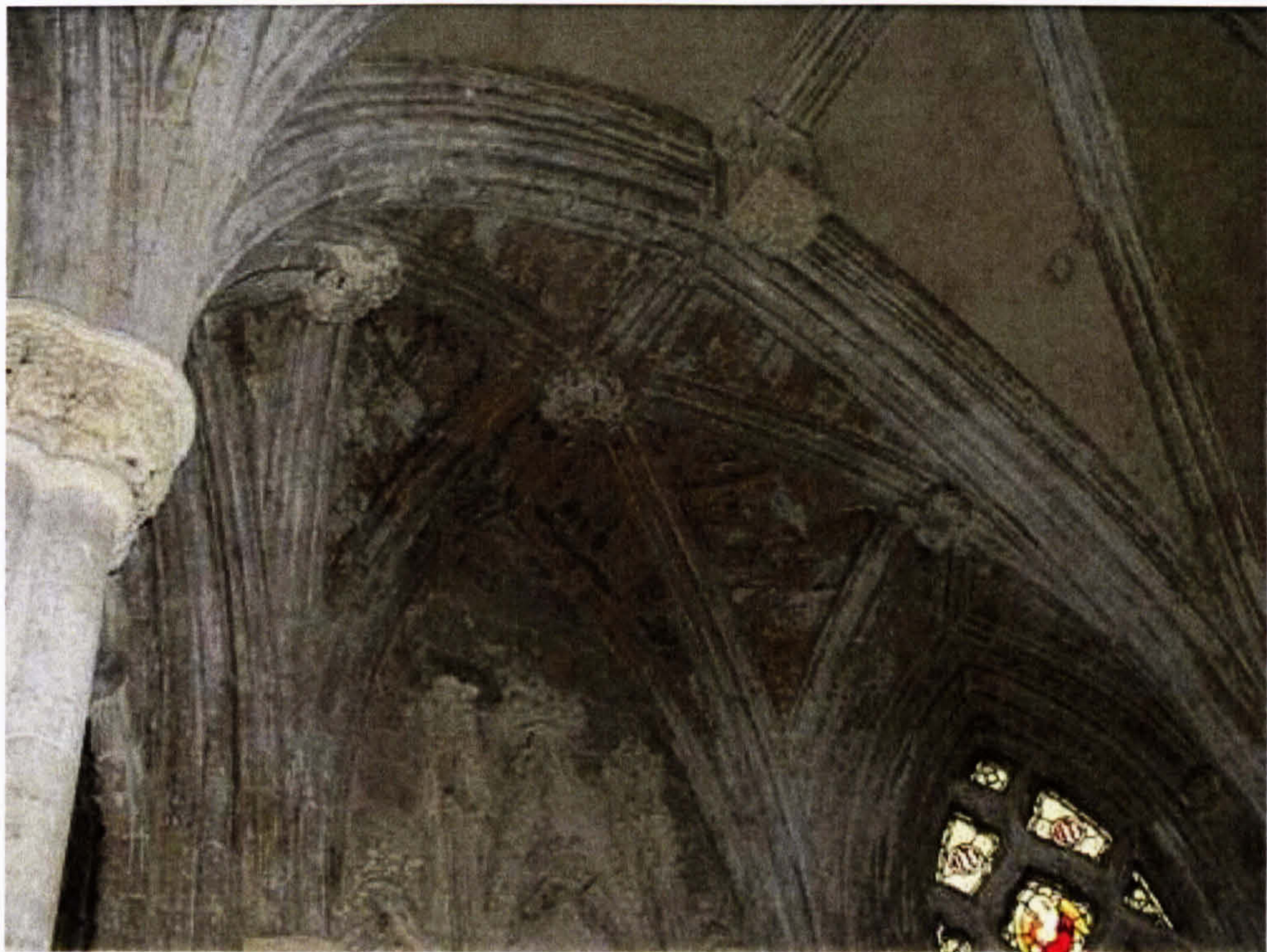


Plate 40 - St. Patrick, Patrington: Lady Chapel vault

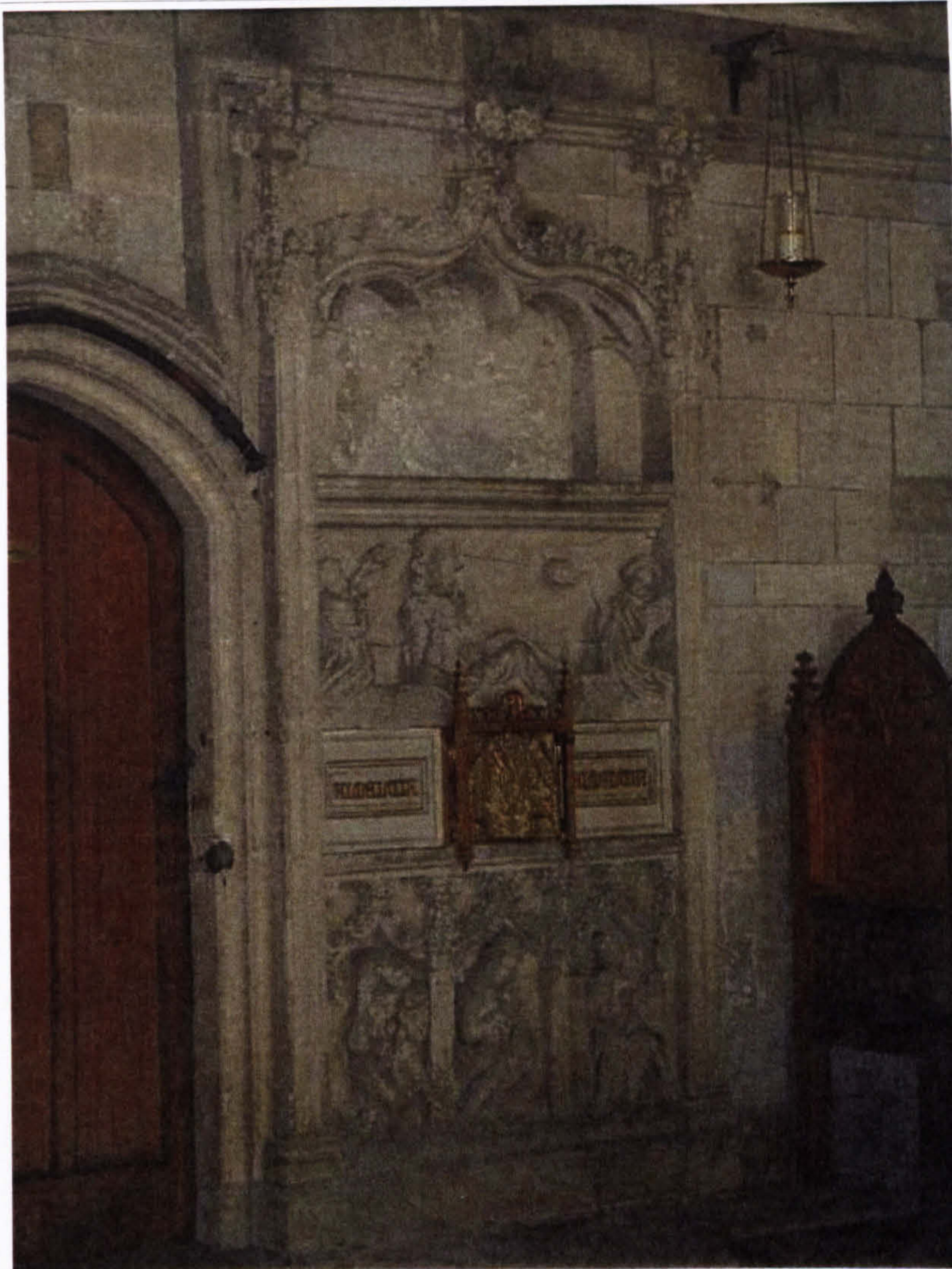


Plate 41 - St. Patrick, Patrinton: Easter sepulchre



Plate 42 - St. Patrick, Patrinton: Font



Plate 43 - St. Patrick, Patrington: Roodscreen



Plate 44 - St. Patrick, Patrington: Stairs over south side of south crossing arch, east end

Original in colour

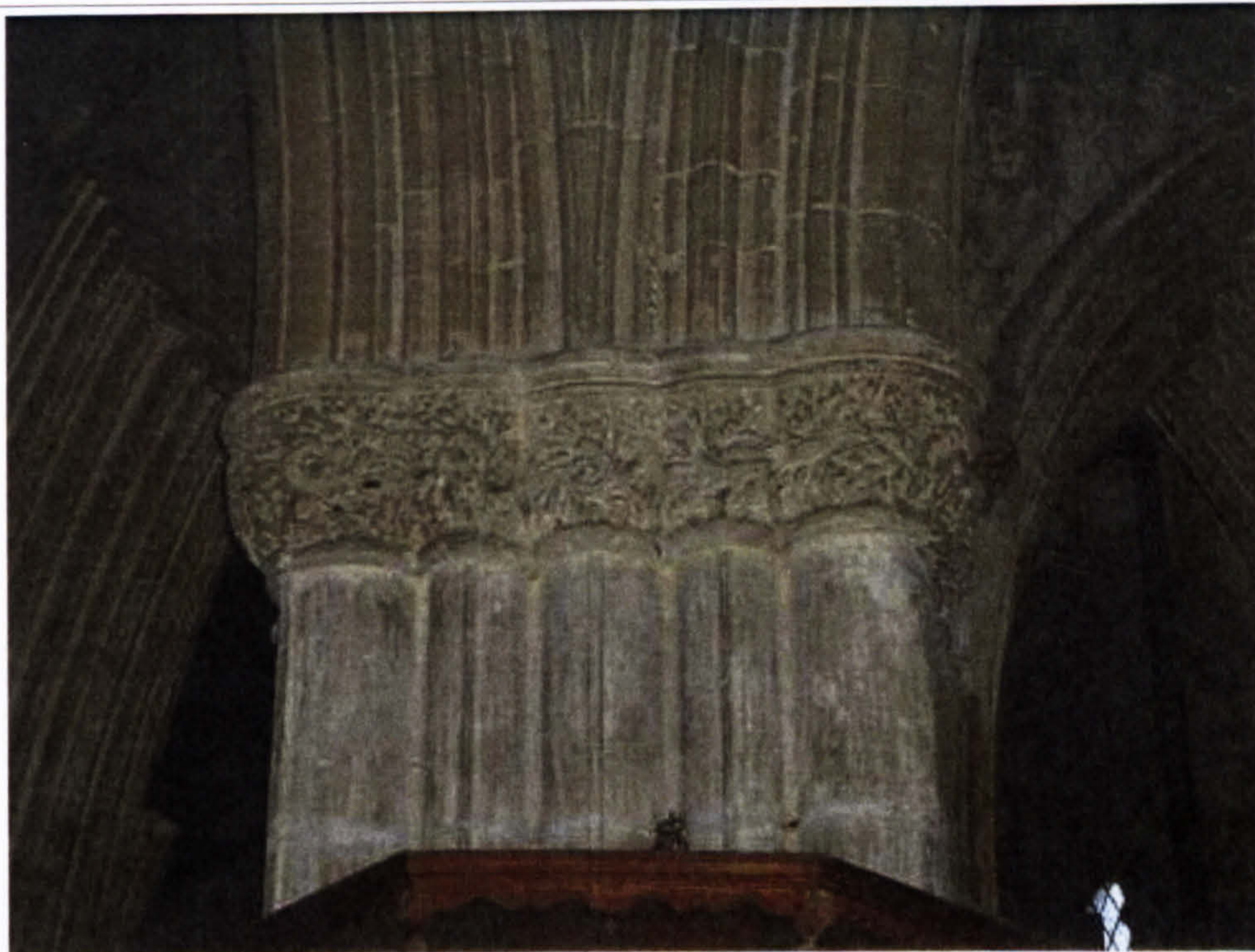
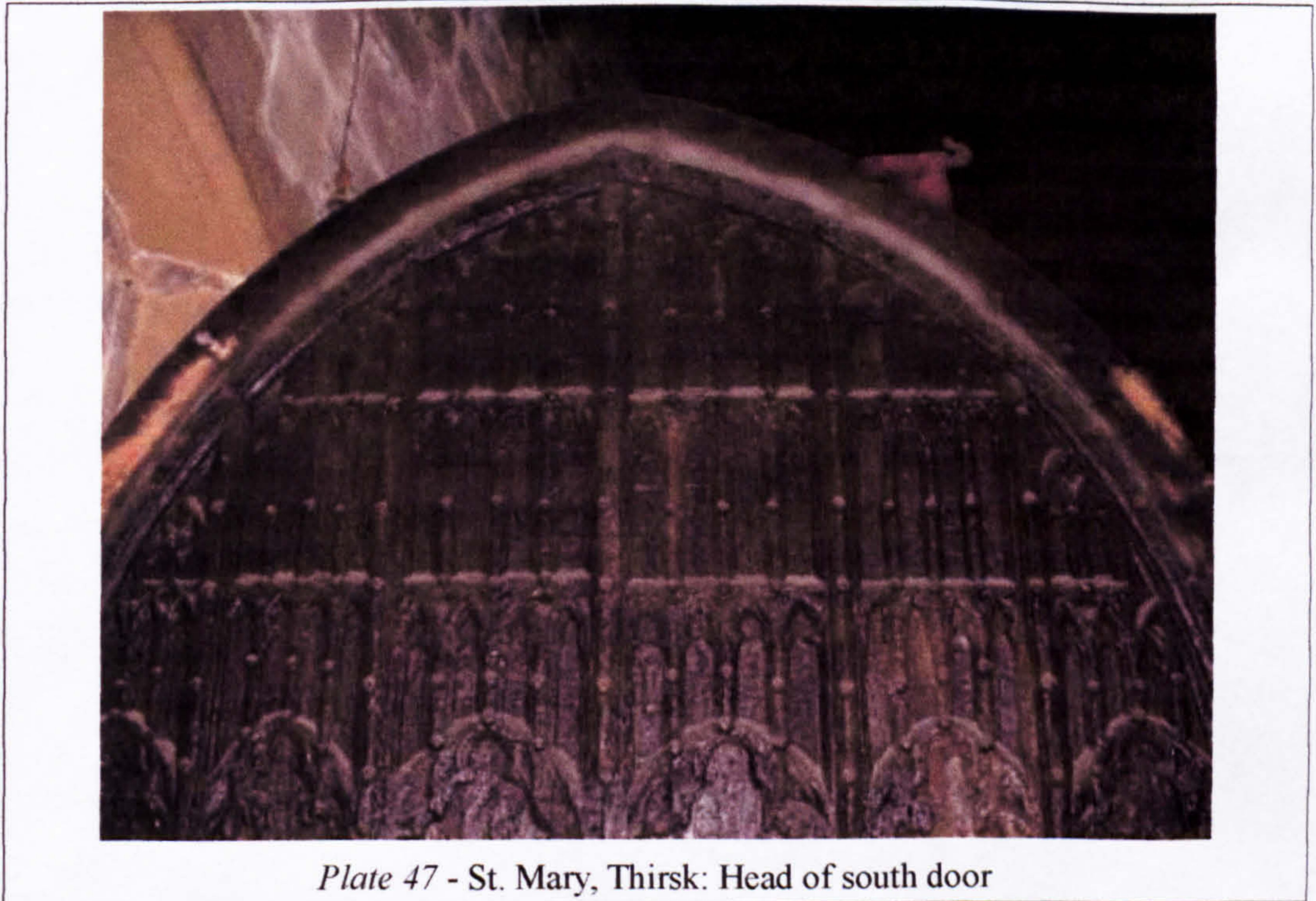
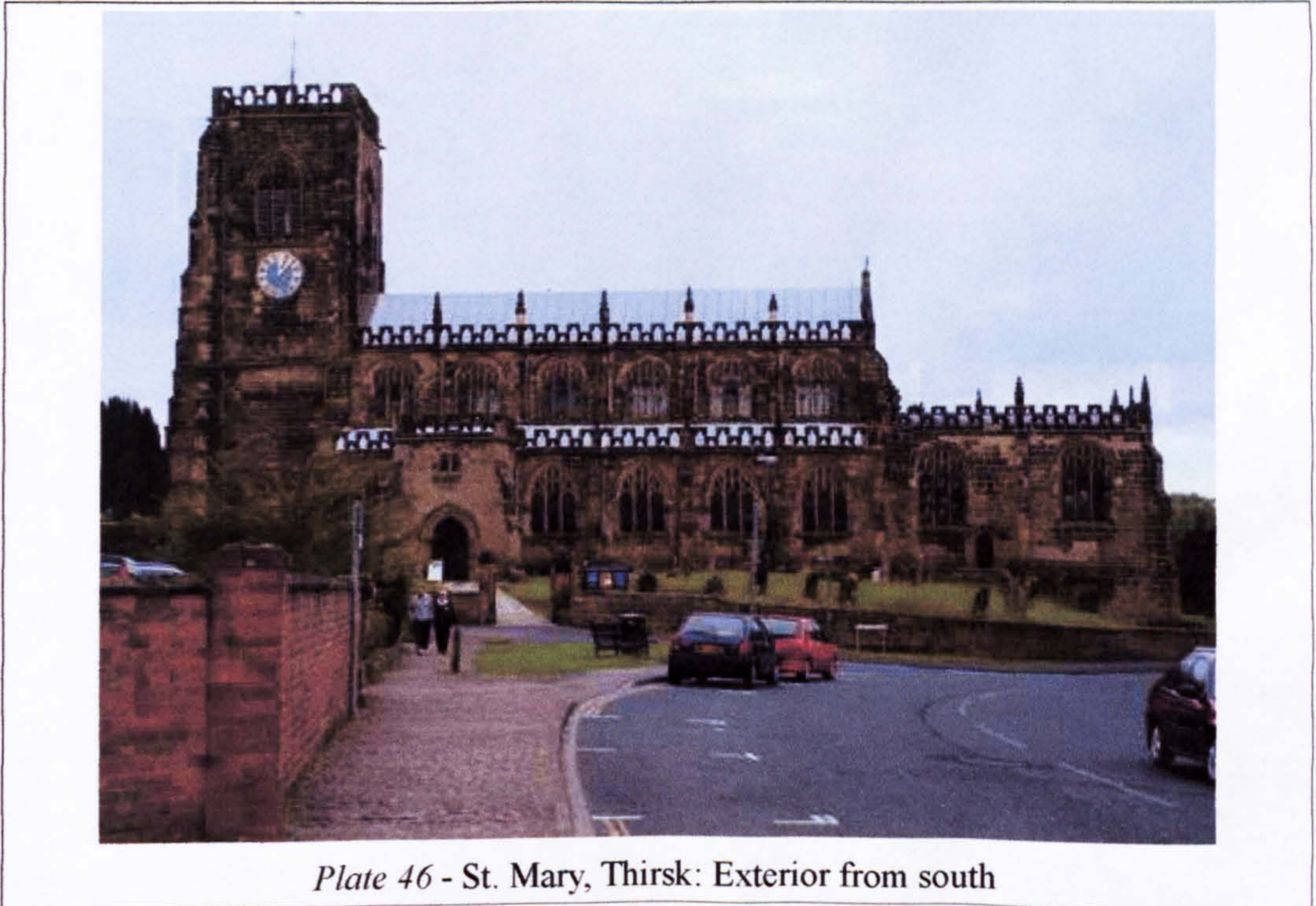


Plate 45 - St. Patrick, Patrinton: Capital of northeast tower pier



Original in colour

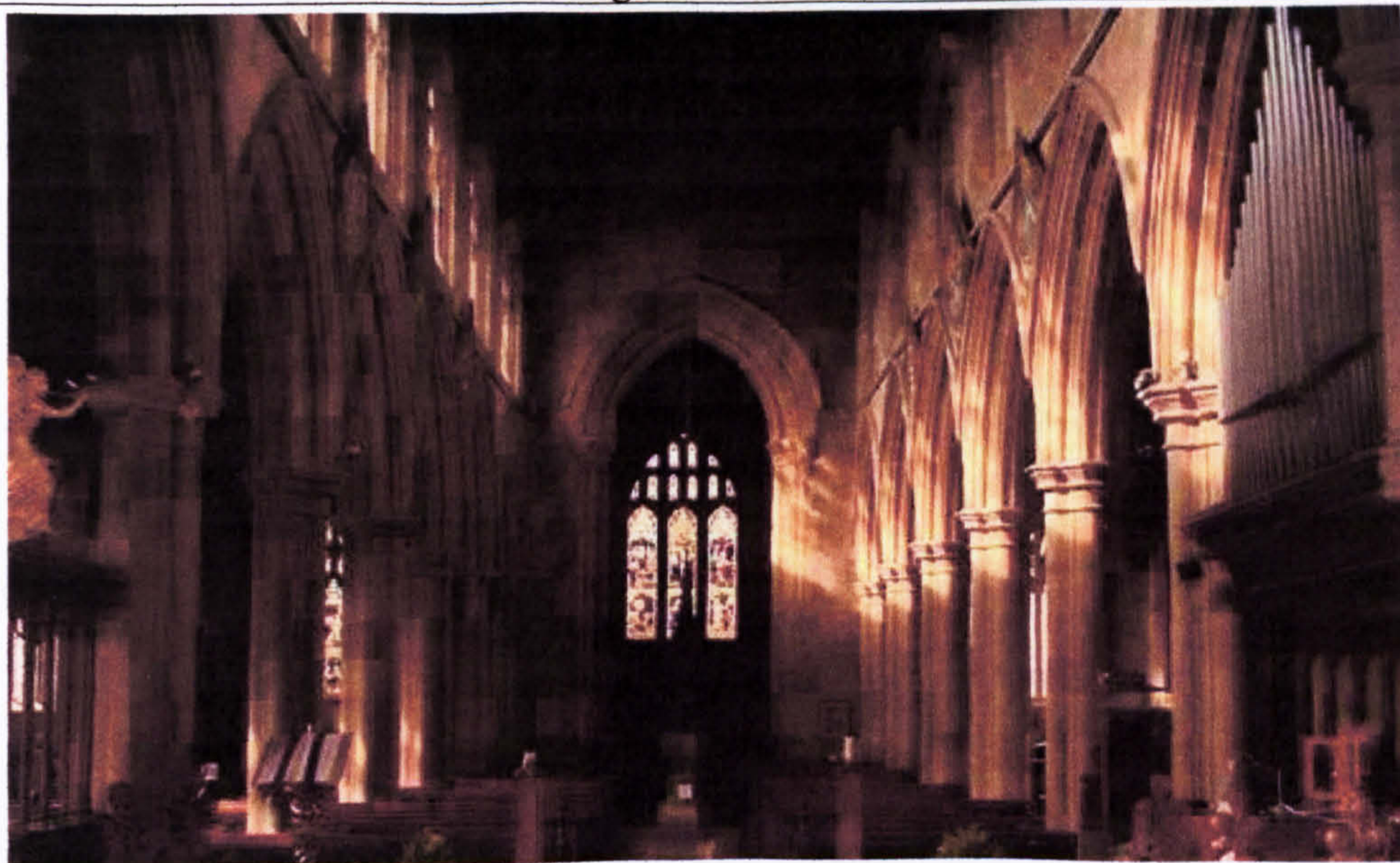


Plate 48 - St. Mary, Thirsk: Nave interior looking west

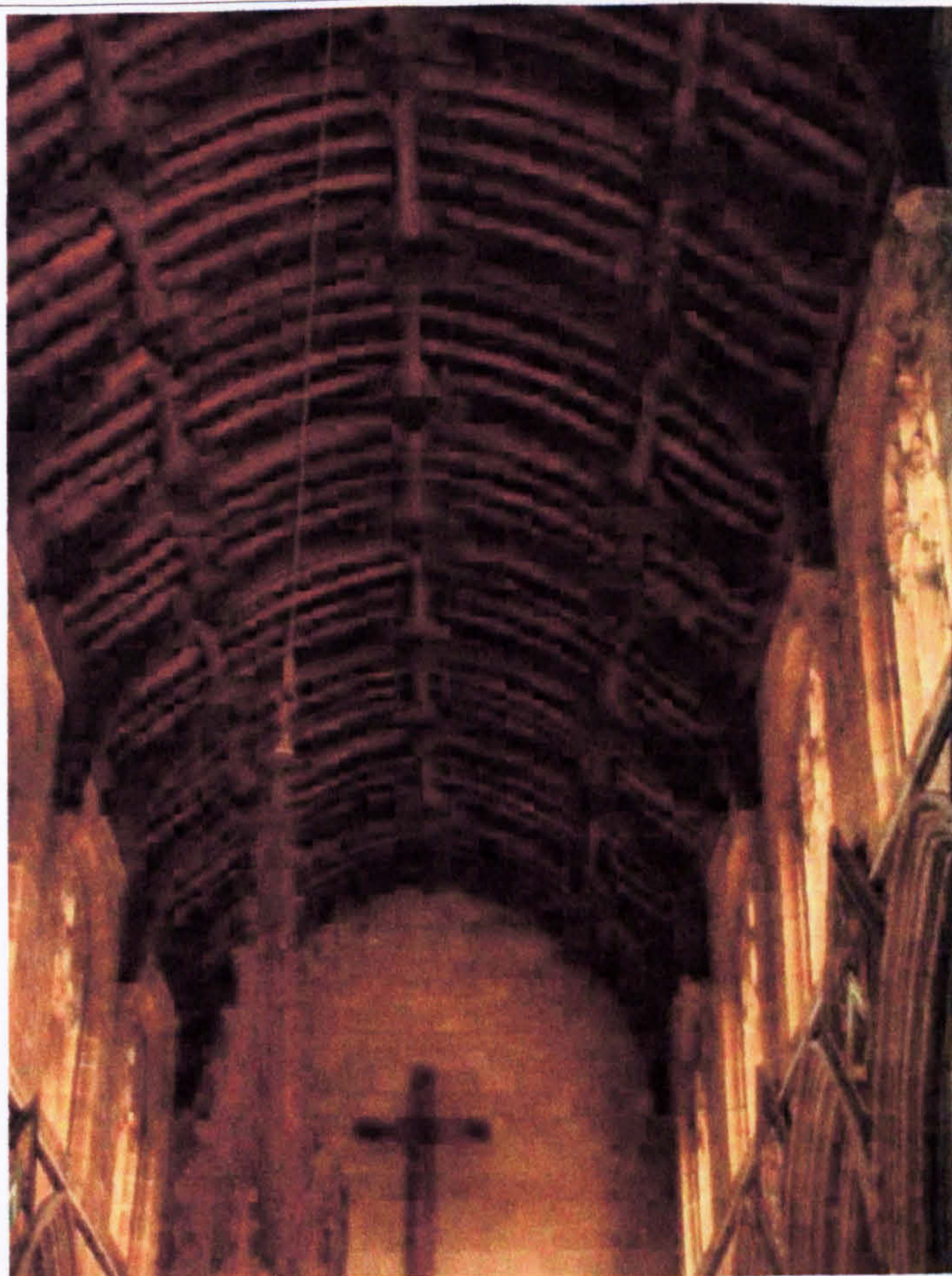


Plate 49 - St. Mary, Thirsk: Nave roof



Plate 50 - St. Mary, Thirsk: Roof boss, north aisle

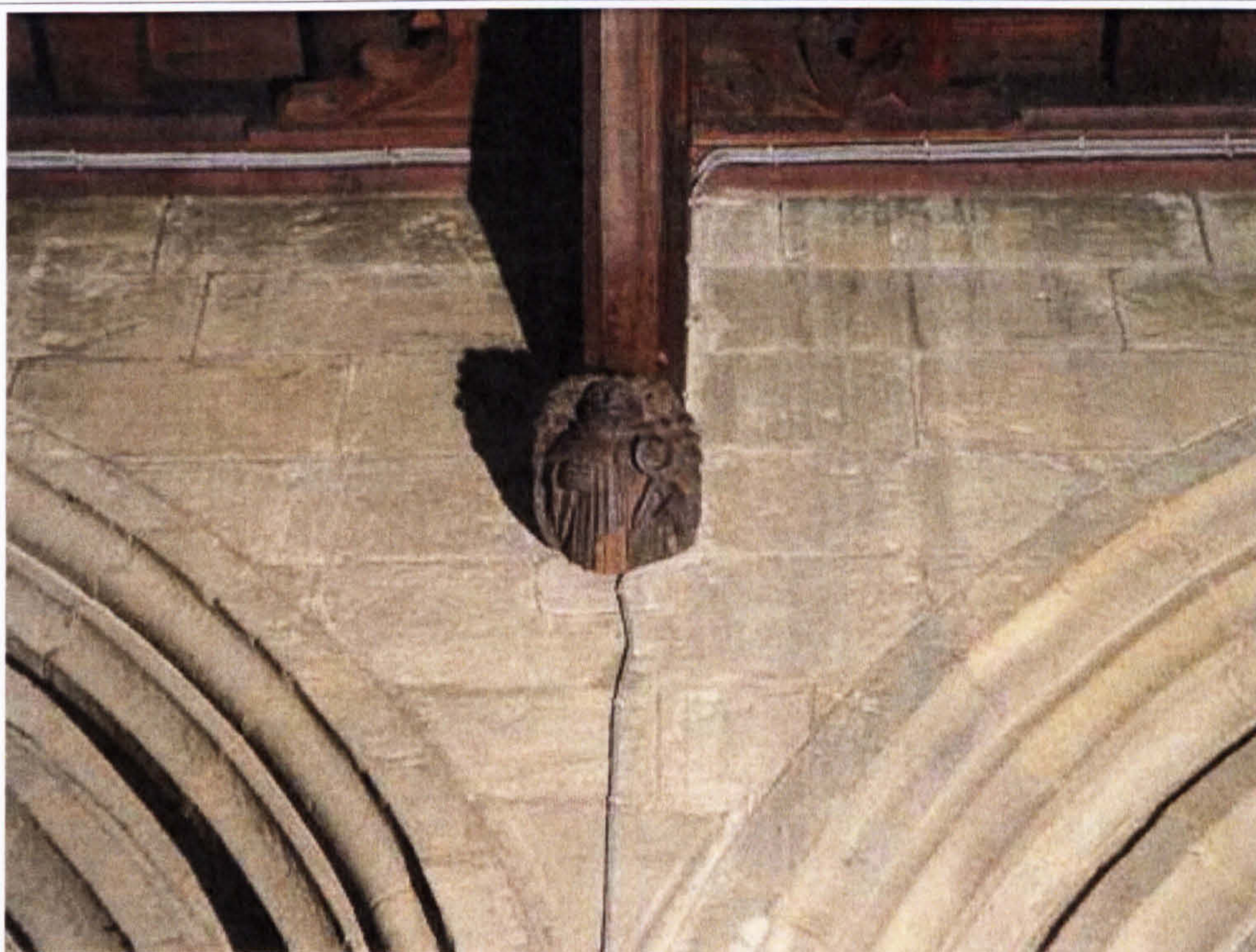


Plate 51 - St. Mary, Thirsk: Truss corbel, south aisle, north side



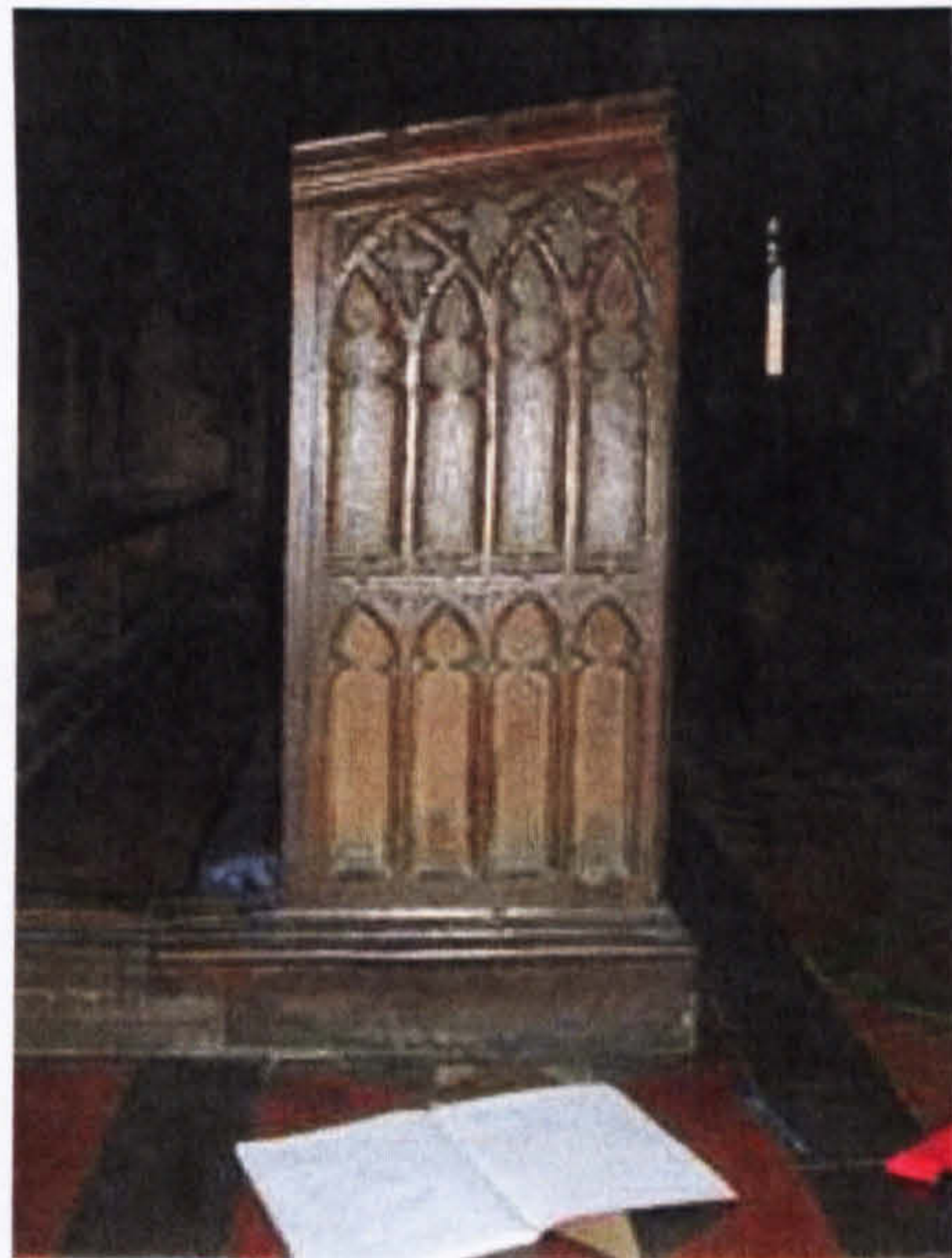
Plate 52 - St. Mary, Thirsk: St. Anne Chapel, south aisle, east end



Plate 53 - St. Mary, Thirsk: Font, font cover, tower arch

(Springings of twelfth century tower arch and ends of twelfth century roofline circled)

Original in colour



Plates 54 (left) and 55 (right) - St. Mary, Thirsk: Fifteenth century bench (left) and desk (right) ends

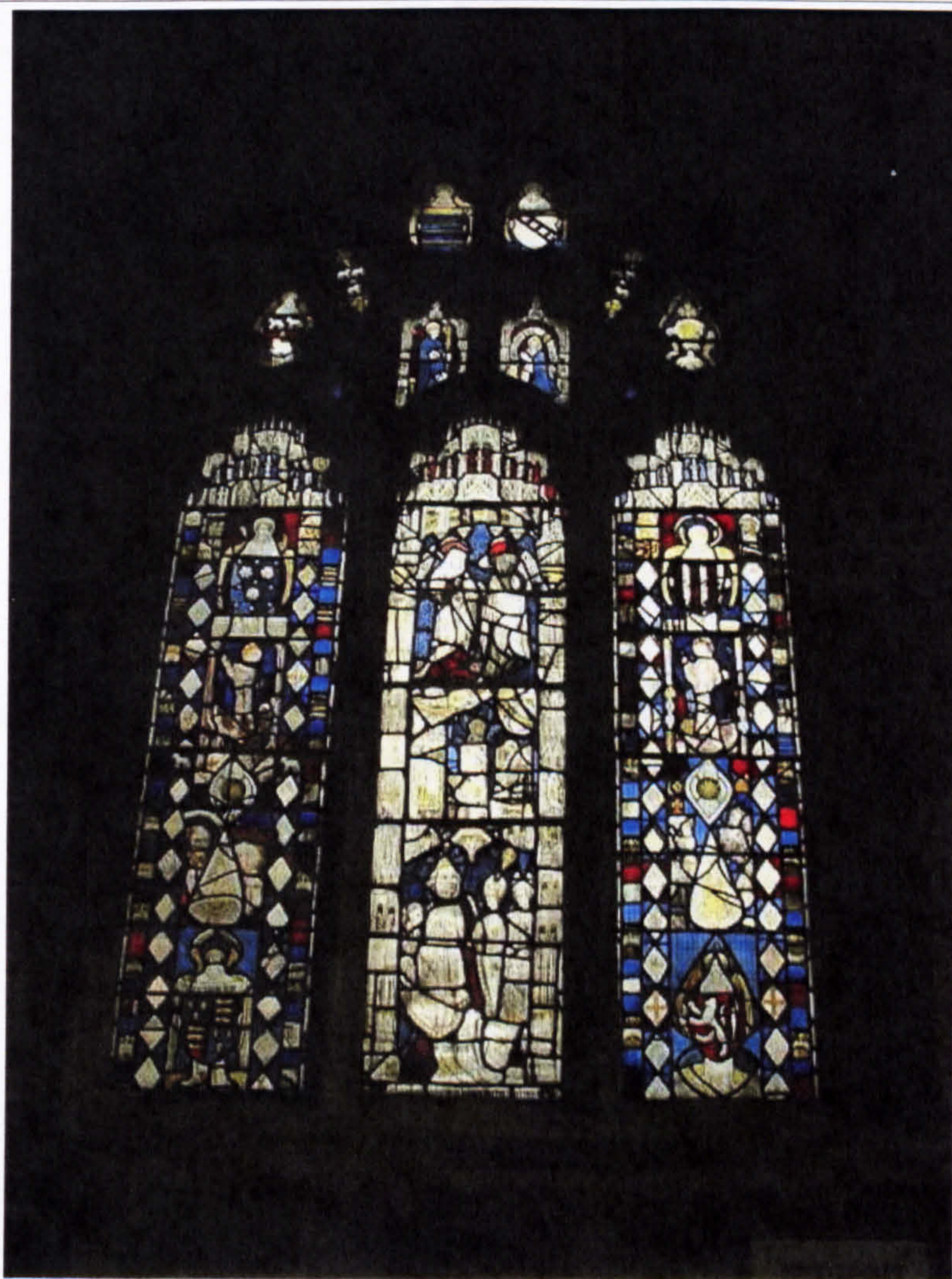


Plate 56 - St. Mary, Thirsk: Medieval glass, south aisle, east window

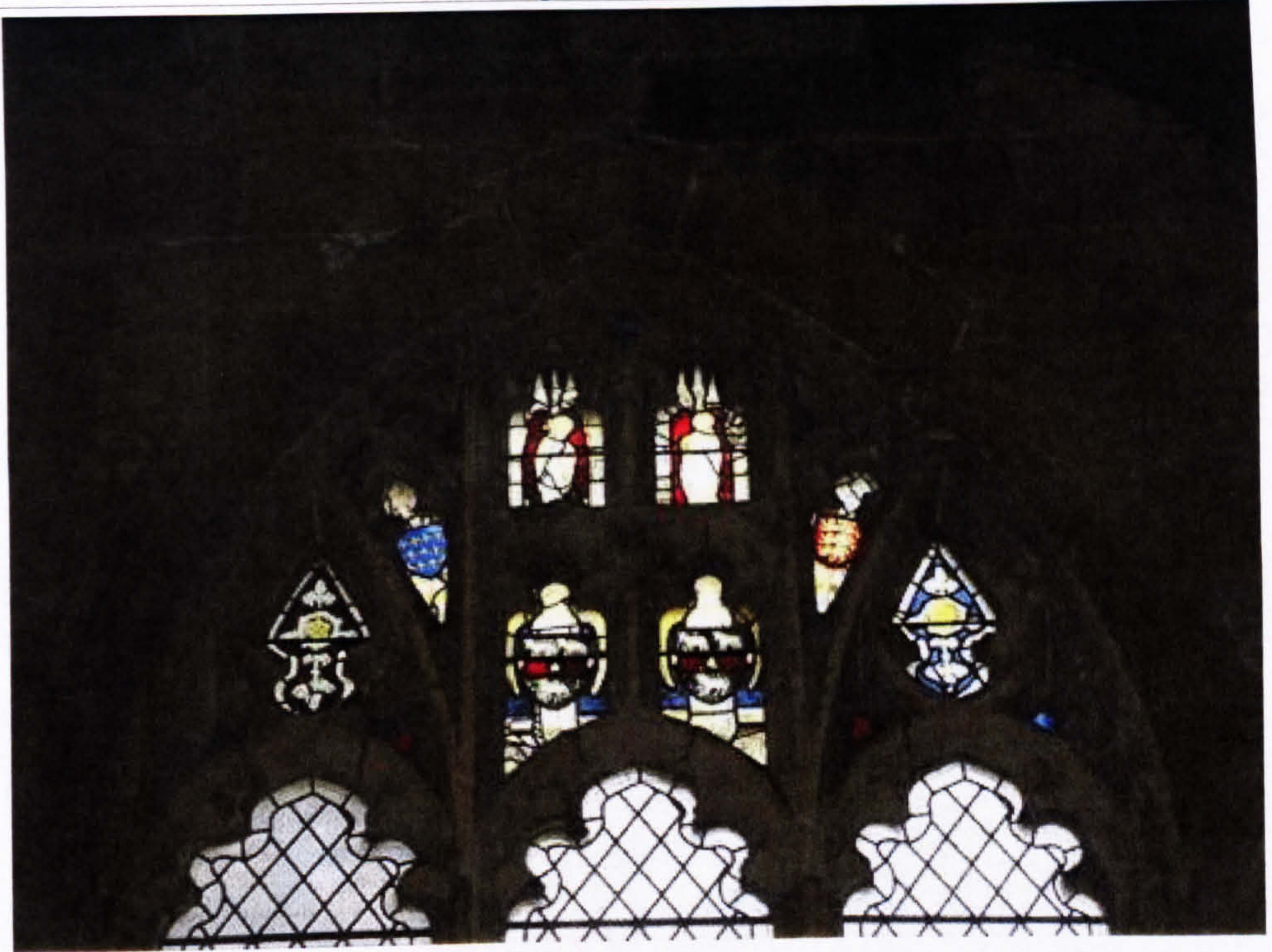


Plate 57 - St. Mary, Thirsk: Medieval glass, north aisle, west window



Plate 58 - St. Mary, Thirsk: Monumental brass to Robert Thresk, south aisle

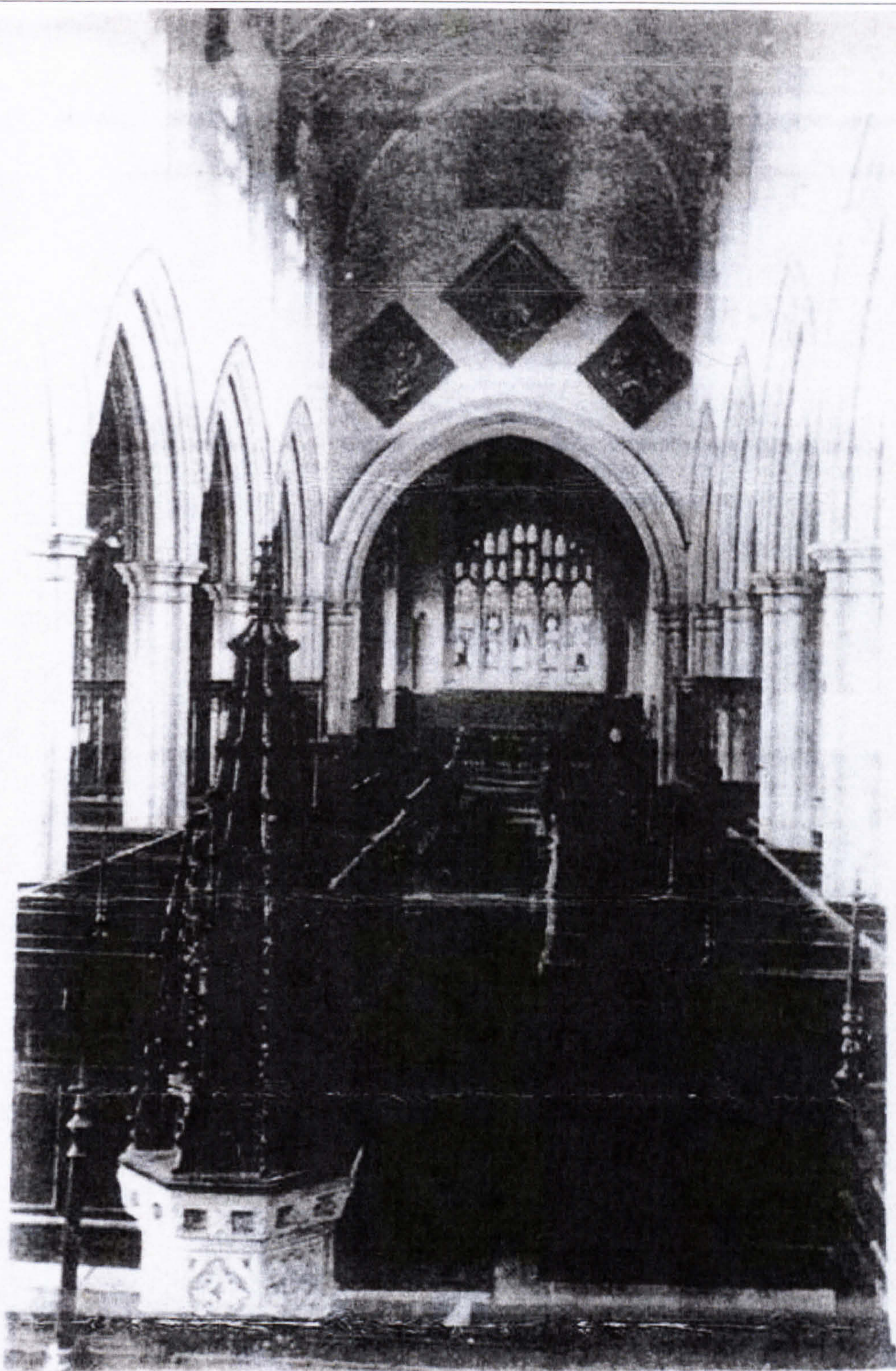


Plate 59 - St. Mary, Thirsk: Interior between 1844 and 1877
(Photo Unattributed: Parish Church of St. Mary, Thirsk)



Plate 60 - St. Mary, Thirsk: Southeast tower buttress

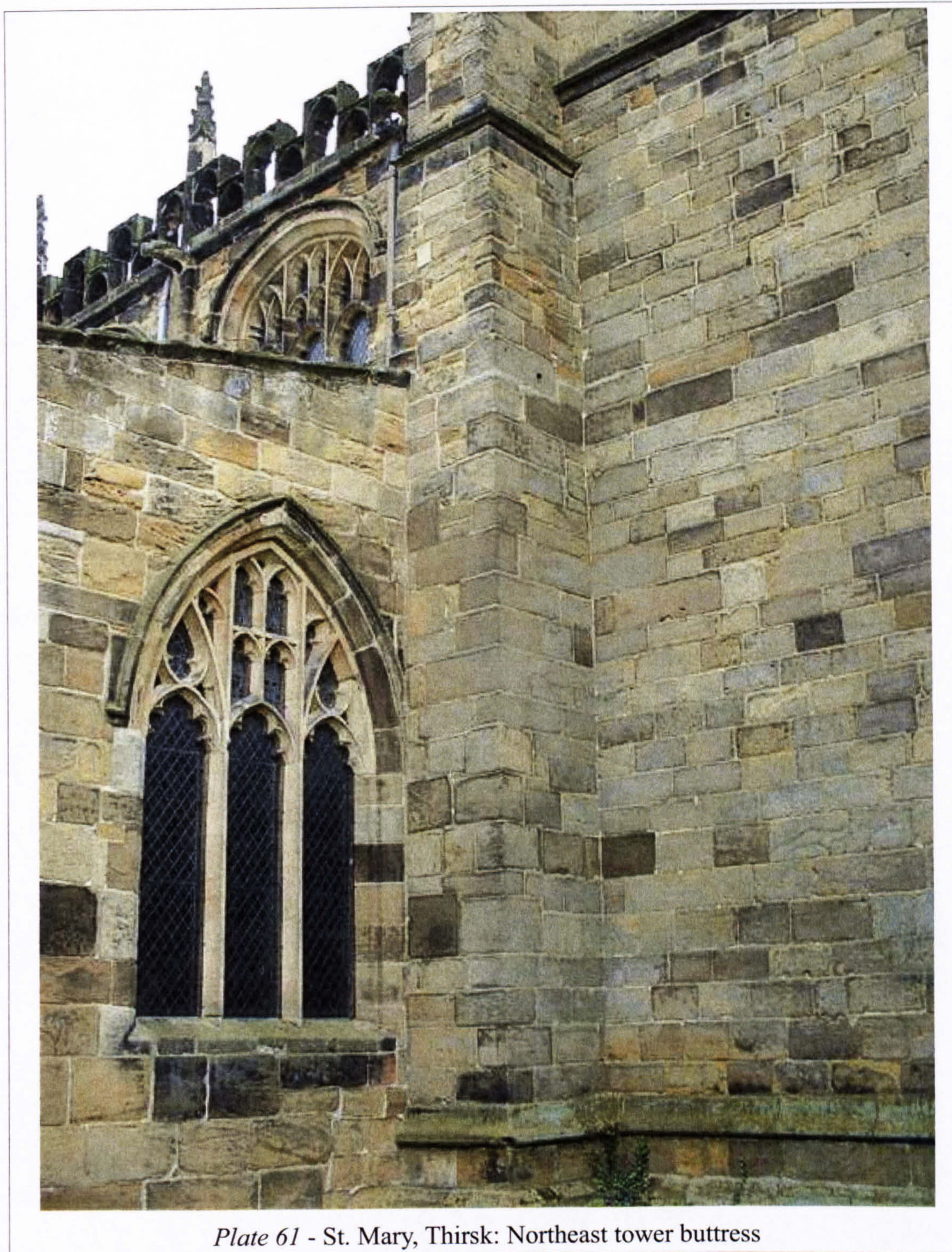


Plate 61 - St. Mary, Thirsk: Northeast tower buttress



Plate 62 - St. Mary, Thirsk: Foundation of earlier chancel



Plate 63 - St. Mary, Thirsk: Porch exterior from south



Plate 64 - St. Mary, Thirsk: Porch and south aisle join from east



Plate 65 - St. Mary, Thirsk: Porch vault springer



Plate 66 - St. Mary, Thirsk: Tower exterior from west

(Height of nave roof/break in tower construction/beginning of piecemeal construction indicated in red)



Plate 67 - St. Mary, Thirsk: Chancel exterior from south