

THE HONOURABLE SOCIETY OF LINCOLN'S INN

THE CHAPEL | EXTERNAL LIGHTING | DESIGN AND ACCESS STATEMENT



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1. INTRODUCTION

1.1 Background

This *Design and Access Statement* is submitted as part of formal planning and faculty applications for a project to significantly improve the external lighting to the Chapel, and its undercroft, at Lincoln's Inn. The Chapel sits in the Old Square of the Inn and was built between 1619 and 1623 by John Clark. This lighting scheme is one of a number of coordinated projects to restore and conserve this important building ahead of its 400th anniversary.

The current lighting to the chapel exterior and undercroft consists of floodlighting to the east and west elevations which "back-light" the great stained-glass windows. There is simple, utilitarian amenity lighting at the west end of the undercroft and sparse illumination from occasional column and wall mounted lanterns in Old Square.

1.2 New Scheme Outline

The new scheme replaces the existing floodlighting to the east and west, also extending the backlighting to the beautiful windows of the north and south elevations where the fittings will be disguised as part of new reproduction historical lantern brackets. In the undercroft, miniature in-ground lights will be used to uplight the vault ensuring that there are no fixings to the delicate columns or vaults

The scheme uses new LED light sources with the excellent optical control, lower energy and maintenance costs that are facilitated by this technology. The design responds to briefings and information provided by the client steering group and The Inn's professional advisors.

The colour temperature of the new back-lighting will be a consistent 3000K warm white which will be seen in gentle contrast to the warmer lighting of the interior. The light sources in the lanterns will be slightly warmer at 2700K so that they are in keeping with other historic amenity lighting in the surrounding area.



A rendered image of the proposed chapel lighting.

2. LISTING STATEMENT

THE CHAPEL

Entry Name:	New Hall
Listing Date:	24 October 1951
Grade:	T
Source:	Historic England
Source ID:	1379317
English Heritage Legacy ID:	478695
Location: County: Electoral Ward/Division: Built-Up Area: Traditional County: Lieutenancy Area (Ceremonial County):	Camden, London, WC2A Camden Holborn and Covent Garden Camden Middlesex Greater London

CAMDEN

TQ3081SW LINCOLN'S INN 798-1/107/1046 (North side) 24/10/51 The Chapel, Old Square

GV I

Chapel over open undercroft. 1619-23 by John Clark to replace a ruined chapel on a different site; with later alterations. Stone and rendered brickwork; green slate roof. EXTERIOR: 2 storeys. Originally of 3 bays, the 4th western bay and forebuilding 1882-3 by Stephen Salter, who also re-roofed the chapel. Western facade with central Tudor style entrance of pointed moulded arch having hoodmould with label stops and quatrefoil enrichment in spandrels; flanked by single light traceried windows and full height buttresses. At 1st floor level, central 2-light traceried window flanked by armorial shields and then 3-light traceried windows. Above the corbel table a 7-light traceried window with rose. East window similar, renewed by James Wyatt, 1795-6. North and south elevations buttressed (flying at ground storey) at bays with four 4-light Perpendicular windows each. Parapet and buttress pinnacles added by Stephen Salter. Undercroft with Gothic 4-centred arches, lierne-vaults and Tuscan demicolumns attached to the piers.

INTERIOR:

features of interest include original carved pew ends, early C18 pulpit with tester, late C17 communion rail with twisted balusters and original stained-glass depicting Apostles by Bernard van Linge and Richard Butler. The south windows are much restored; the north largely reconstructed a er an air-raid in 1915.

HISTORICAL NOTE: the foundation stone was laid in 1620 by John Donne, who was Preacher to the Honourable Society of Lincoln's Inn from 1616 to 1622.

Listing NGR: TQ3102781425

3. STATEMENT OF SIGNIFICANCE

The Chapel: Architecture

The Chapel is a Grade 1 listed building. It was built between 1619 and 1623 and is constructed raised up on an openvaulted undercroft above a burial ground. It is a plain rectangular building, originally consisting of three bays with a wooden roof and gothic-style windows which are mainly glazed with stained glass. Inigo Jones is said to have had some input into the chapel's design. It was built by J.Clarke. The interior has original carved pews by Price the Joiner and a fine pulpit and communion rail.

The six windows on the North and South were filled with Stained glass by Bernard van Ling between 1623 and 1626. They contained figures, with shields of arms beneath them, and in the tracery lights were angels and other ornaments. Photographs of these windows are contained in the 'Inventory of the Historical Monuments in West London' 1925. As a result of an Order of the Council made on 28 January 1703 the name, arms and year of office of every Treasurer since 1680 were put up in the East window over the Communion Table (with the arms of the Society in the middle window), and the same for every Treasurer afterwards until 1909, when the East window was full. They were then continued in the two other windows.

A number of alterations have been made to the Chapel. The East window was replaced, designed by James Wyatt 1795-6 and glazed with stained glass. In 1882-83 a fourth bay was added to the West of the Chapel by William Salter, working for Lord Grimthorpe, in order to accommodate greater numbers attending chapel at that time. In 1818 the upper part of the East Windows was enhanced with Gothic decorations in stained glass by William Edmington of Birmingham

The new bay ends in a large window which is a copy of Wyatt's to the East but glazed with clear glass. It is above a gallery which houses the organ. The instrument was constructed in 1856 in three sections: one on each side of the West window and the third in the centre front of the gallery. The organ fell into disrepair and was replaced in 2008.

The main structure of the Chapel has been unaltered since it was lengthened in 1882/3.

During the 1990s extensive repairs and refurbishment were carried out. The present gothic revival reconstruction replaced the original barrel-vaulted ceiling. At the same time, the corbels supporting the beams were decorated with Arms of former Preachers who went on to become Bishops or Archbishops.

In 1996 a series of re-wiring and lighting works were undertaken. In 1998 disabled access was incorporated and a lift was added. A year later works on the internal plaster of the Chapel were begun.

In 2019 a further relighting project was carried out replaced halogen lighting with new LED technology.

4. STATEMENT OF NEED AND JUSTIFICATION

Lincoln's Inn is a thriving society of barristers, situated on a large estate of historic buildings, contemporary facilities, and tranquil grounds in central London.

The Inn is a multifaceted organisation, but is primarily dedicated to the qualification, training, and development of its members, at all stages of their legal careers, in a prestigious, collegiate and inclusive environment. The Chapel is at the spiritual heart of The Inn and fulfils a vital role in providing cultural and spiritual support to members and staff alike. As well as a providing a regular pattern of services, the Chapel has a very fine musical tradition and is used as a venue for concerts and recitals. It is also the most wonderful setting for members weddings, and for the baptism of their children.

The Inn prides itself on the standards of the facilities and environment that it provides for its members and other users of the site at all times of the day and night, and sees a careful and balanced illumination of the Chapel as part of the need to provide a decorative amenity facility to the wider estate as a whole on a frequently used thoroughfare of the estate



The undercroft, largely unlit at night, will benefit enormously from additional illumination, creating a more welcoming, safer, and better lit environment for those who visit the inn at night – and for the many staff and members who work into the evening.

The new lighting will be controlled by a fully automatic time clock system which will also allow for graduated attenuation of levels meaning that as the night sky darkens, illumination levels can be effectively reduced to save energy. A manual override facility will also be provided to facilitate changes for one off events.

The following formal Statement of Need has been prepared by the Chaplain

The Honourable Society of Lincoln's Inn

The Chapel

Statement of Need : Lighting Scheme Stage 2.

Lincoln's Inn is one of the four Inns of Court. The Chapel of the Inn belongs to its historic centre and is still valued today as the spiritual heart, contributing to the wellbeing and collegiality of the Inn. Sunday Services are held during legal terms; occasional offices (baptisms, marriages and memorial services) are provided for members of the Inn; major events are marked such as the Inauguration of the new Treasurer each year; and we have in the last three or four years increased other provision with lunchtime prayer and Bible study; Lenten worship such as Compline; and highlighting concerts. Attendance varies between up to 300 for memorial services, Remembrance, Carol Services or some concerts; and sometimes 30 or 40 on an average Sunday.

The recent proposals for a new internal lighting scheme (installed in 2019), as the DAC will know, stemmed from a number of considerations related to the pastoral and outreach aspects of the Chapel as well as to the desire to care for and show the historic fabric to its best advantage. It has been very much appreciated and has enhanced both our worship and our visitors' experience – significantly by making reading easier and the building more welcoming.

At the time there was always the intention of continuing this enhancement in the external parts of the Chapel and the Undercroft on ground level beneath the Chapel. The Undercroft, is in constant use as a through-way within the Inn and to a pedestrian exits onto Chancery Lane – barristers, students and staff of the Inn on daily business or sheltering from the rain to make a telephone call; walking groups and tour groups as well as pilgrim groups or other tourists by special requests. Given these and the increasing number of services, concerts and special events, we want to showcase the building both externally and internally and draw people towards and into Chapel. The Undercroft and the other external lighting play a significant part in encouraging people towards the building and climbing the stairs to enter it. In conversation with longstanding members of the Inn as well as new students or barristers, it is clear that the upstairs entrance to Chapel is off-putting. Our aim, therefore, with the Undercroft, as part of the ministry of welcome, is to increase safety for those walking through after dark; to draw attention to the Chapel upstairs and the notices indicating Chapel events and opening times. When we have been able to do this, during the lighting trials, there has been much more appreciation of the fabric and engagement with the Christian story and purpose of the Chapel.

5. DESIGN INTENT SUMMARY

5.1 Background

The design strategy for this project has been informed by discussions and consultations with client representatives and architects for the other chapel conservation projects. The scheme submitted follows as a natural progression to the overall lighting strategy for the Inn, noting that other schemes for the Great Hall and Library which have already met with the approval of the Local Planning Authority.

5.2 The Existing Lighting

The existing lighting comprises:

- floodlights to the east elevation, currently located on the façade of No 14 Old Square
- floodlights to the west elevation, currently located on the flat roof of the west entrance
- safety lighting above the door to the old verger's room in the north west
- safety lighting above the door to the lift and WC in the south west
- localised amenity lighting to Old Square from occasional column lanterns

5.3 The New Lighting Scheme

The scheme provides a replacement of the existing floodlighting to the east and west elevations and an extension of this to the north and south elevations. Additional bracketed lanterns are provided to the north and south elevations where they will also accommodate the small floodlights that will backlight the fine stained-glass windows.

The new lanterns to the north and south elevations will be positioned centrally over the arched entrances to the undercroft so will also contribute additional amenity lighting to Old Square as well as letting a gentle glow enter the undercroft.

The new fittings selected for the east and west elevations retain the existing locations, with only minor adjustments to improve coverage. LED fittings have been selected which are significantly smaller than those they replace and are of a more modern and clean aesthetic appearance.

All luminaires will be dimmable, meaning that the relative levels of illumination between different features of the building can be attenuated to achieve an appropriate visual balance, with highlighting to important features contrasting well with larger surface areas.

Typical of new LED luminaires, they are significantly more energy efficient than their predecessors and are also fitted with more effective optical control so that they will dramatically reduce the amount of light spill to unwanted areas, minimising environmental light pollution.

6. IMPACT STATEMENT

6.1 Overview

The new lighting scheme at The Chapel will add articulation to this important Grade I listed feature of Lincoln's Inn's night-time environment.

The works will involve

- the replacement / addition of wall lights to the exterior facades where fixings will only be made into mortar joints and cabling will run direct through the wall to internal wiring distribution which is hidden behind existing timber panelling
- the insertion of very small uplights into the peripheral slabs of the undercroft, none of which are ledger stones, and many have been lifted recently for other services works
- connection to the existing chapel lighting control system

All of the new works will be carried out in accordance with the Statement of General Principles of Conservation set out in section 6 of this document.

6.2 New Equipment

The physical impact of new equipment will be specified to minimise impact on fabric. Light fittings and other equipment are not to be fixed to sensitive fabric nor obscure any important architectural details or otherwise detract from the historic character of the exterior.

Luminaires are to be finished in the established dark grey colour used for luminaires across the estate.

6.3 Fixings and Cable Routes

Fixings are to be inserted into existing joints or on cornice levels where they cannot be seen. Fixing into decorative carving, stonework and mouldings is to be avoided – except where specifically and individually agreed. No decorations or mouldings will be affected.

Wiring routes are to be horizontal, running along mortar courses and vertical only at the internal corners with buttresses in such a way that minimises their visual impact on the exterior of the buildings using existing routes wherever practical.

6.4 Quality and Standards

A careful choice of finishes for wiring and equipment will be made reduce its visual impact. Consideration has been given to access for ongoing maintenance of equipment and fire safety, and no heat generating equipment will be fixed near timber or flammable or temperature sensitive fabric. The full specification and scope of work, to be included in a separate tender document, will set a high standard for all works associated with this project.

6.5 Execution

Only electrical contractors who are highly experienced in working with heritage buildings will be invited to tender for these works. They will be required to provide method statements to ensure that all works will be planned to take precautions and care that prevent damage to the fabric of the building or other damage to the environment.

6.6 Oversight & Supervision

The works are to be inspected by the Lighting Consultant in liaison with the Contract Administrator.

7. STATEMENT OF GENERAL PRINCIPLES OF CONSERVATION

The following general statement informs the assessment of the impact of the proposed works on the fabric of historic buildings and will form part of the general conditions of this tender. Specific instructions by members of the design team may supersede generalizations listed here.

Where reference is made to the CA [Contract Administrator] decisions may be referred by the CA, to the Architect, Lighting Consultant or Project Manager as appropriate.

Before any work starts a thorough and systematic investigation and on-site survey of the existing electrical and lighting circuits is to be carried out by the Contractor's electrical engineer. This will provide a clear and coordinated picture of what services and routes exist and where any new routes are required.

Only once this knowledge is gained can invasive work be considered to minimize the disturbance to the historic fabric. Pre-existing accessible voids, slots, holes and service routes must, wherever possible, be reused to minimize additional permanent scarring to the building.

If new builder's work openings are absolutely necessary, then all must be done to ensure that as many services as possible share a common route through the building. This will minimize the loss of historic fabric and along with designing in spare capacity will ensure, at least in the short term that further loss of building fabric is contained. Any and all such routes must be pre-approved by the CA before any works commence.

Where the building design lends itself to offering suitable routes, a surface installation may sometimes be a better solution, for example where moldings, column capitals cornices or balustrades can disguise the presence of a carefully installed cable or pipe. However, it is important to ensure that an installation of this type does not cover up, damage or interrupt the view of important building features and surfaces, nor should it create dirt traps or staining patterns from any resulting heat and air movement. Any and all such routes must be pre-approved by the CA before any works commence.

With this type of surface installation, the fixing and positioning of the clips and brackets are also of importance as these must respect the buildings' requirements on spacing, and not those of manufacturers' or relevant standards. Fixings should be made into material that is sacrificial and not permanent, for example mortar rather than stone or brick. Timbers should not be drilled wherever this can be avoided; the use of wood screws is less damaging. Cables should be secured with screws fixed into timber or plastic plugs wherever possible. The use of pin clips or any other fixings installed with hammers is to be avoided except where expressly instructed or approved by the CA. With all installations, intervention should be kept to a minimum and strict observance to the principle of reversibility should be adhered to.

This principle applies equally well to the fixing of any component within a building services system, for example a light switch or a fire alarm break glass unit may need the additional help of a pattress, or other secondary support system, to enable the mortar joints to be used. In the final design, all routes, openings and making good must be coordinated and agreed with the CA.

Any builder's work openings still found to be needed must be approved before work commences. Where loss of historic fabric is inevitable the disruption should be taken as an opportunity to additionally survey, record and/or repair other services found. All necessary builder's work must be done with far greater care than is the norm, this will mean that it will usually take far longer to remove, replace or renew any building services installation in an historic building. Service routes may need to be more convoluted and or longer than usual to accommodate the structure.

Where old services cannot be reused, but retain particular significance to the building, it is important to leave them in place if possible. This equates to leaving them in a condition where nothing can cause future disruption to the historic fabric, for example services are disconnected, made safe or drained down and then recorded. Their removal should only be considered if they have no historic significance or could pose a future danger to the historic fabric.

Wherever possible continuous cables should be used through the installation and therefore the number of cable joints or in-line terminations should be kept to an absolute minimum. All terminations should be made in accessible and suitable locations.

Where older installed cables are to be retained and reconnected as part of a new installation, or where any other new junctions are required, all such terminations should only be made in fixed junction boxes with fixed-back terminals such as din rail or other appropriate connectors. The risks of thermal cycling for all cable types and terminations must be considered.

All junction boxes should be identified and correctly labelled and be shown on the contractor's O&M drawings. Termination schedules should also be included in the O&M manuals.

Installations of this nature in historic buildings should be designed and installed so that they have as long an installed life as can be expected. For this reason, the use of pvc/pvc cabling and any pvc or plastic containment shall not be permitted unless expressly specified or approved by the CA.

MICC or PYRO cables are required for all visible surface cabling, the use of FP or FIRE-TUFF cabling for visible surface runs will not be permitted unless expressly specified or approved by the CA.

Notwithstanding the above all cabling systems should be designed to avoid vulnerability to damage by rodents or other wildlife, thus any pvc cabling, including final circuit wiring should be in suitable containment. These risks to all cabling in roof voids, floor and other ducts should be fully assessed.

8. SUMMARY OF DOCUMENTATION

DOCUMENT TRANSMISSION SHEET		LIGHT PERCEPTIONS LIMITED 2nd Floor, 2 Twyford Place, Lincoln's Inn Office Village Lincoln Road, High Wycombe HP12 3RE																
Project no.	4004					mail@lightperceptions.co.uk www.lightperceptions.co.uk												
Sheet no.	200907	F	Project title		HSLI CHAPEL EXTERIOR								_					
DOCUMENT No			Title								Revi	sion						
DOCUMENTS																		
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4004_P_R3	RIBA 3 REPOR	RT (PDF)				V1	V1						_	_				
4004_P_R3	RIBA 3 REPOR					V1	V1					_	_	_				-
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4004_D_003	GALLERY LEVE	EL LIGHTING O	A.		А	В	В											
4004_D_004	WEST ELEVAT	ION LIGHTING	G.A.		Α	В	В								_			
4004_D_005	NORTH ELEVA	ATION LIGHTIN	G G.A.		Α	В	В											
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QUOTATIONS																		
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