

DRAWN BY	CHECKED	JOB NO	DRWG NO
		CRA2011	1

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ISSUE RECORD				
NO	DESCRIPTION	DATE	BY	STATUS

- Notes**
- This drawing must be read in conjunction with the Engineering Specification, the health and safety plan. Any specialist surveys or specifications.
 - Final positions of all electrical accessories to be agreed with Architect and Consulting Engineer before installation.
 - All work must comply with the IEE Regs. 18th Edition now adopted as BS 7671.
 - Cabling to be Firetuff or FP 200 gold in general following existing routes
 - Dimming system to be capable of dimming DALI and phase dimmed fittings
 - Twin spot LED emergency fittings to be black and hidden from view. Heads to be on 1 m long leads

Tender Drawing

REVISIONS



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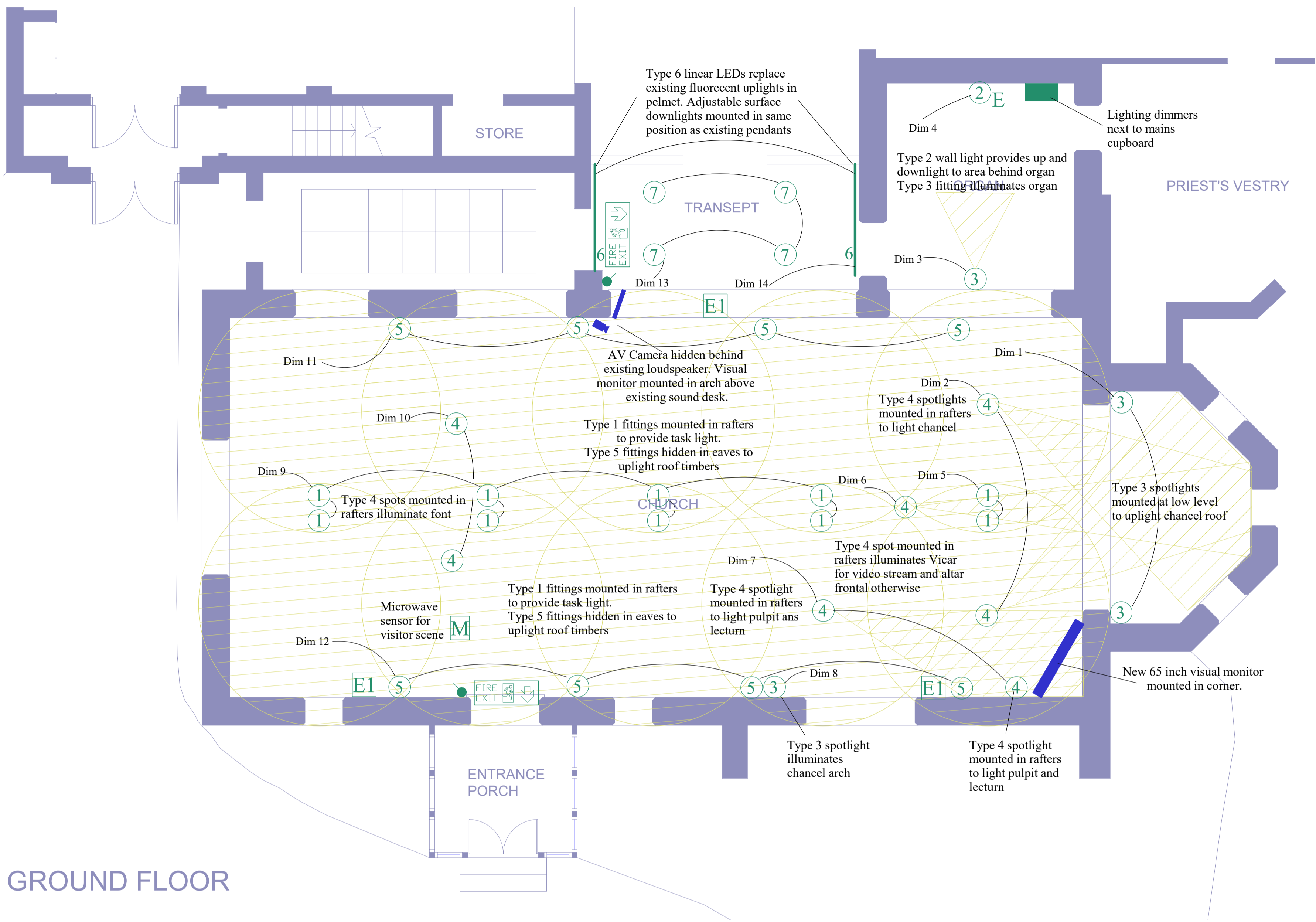
CHARTERED BUILDING SERVICES
& ACOUSTIC CONSULTANTS

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JOB TITLE
All Saints Mudeford

DRG. TITLE
Proposed Lighting Layout

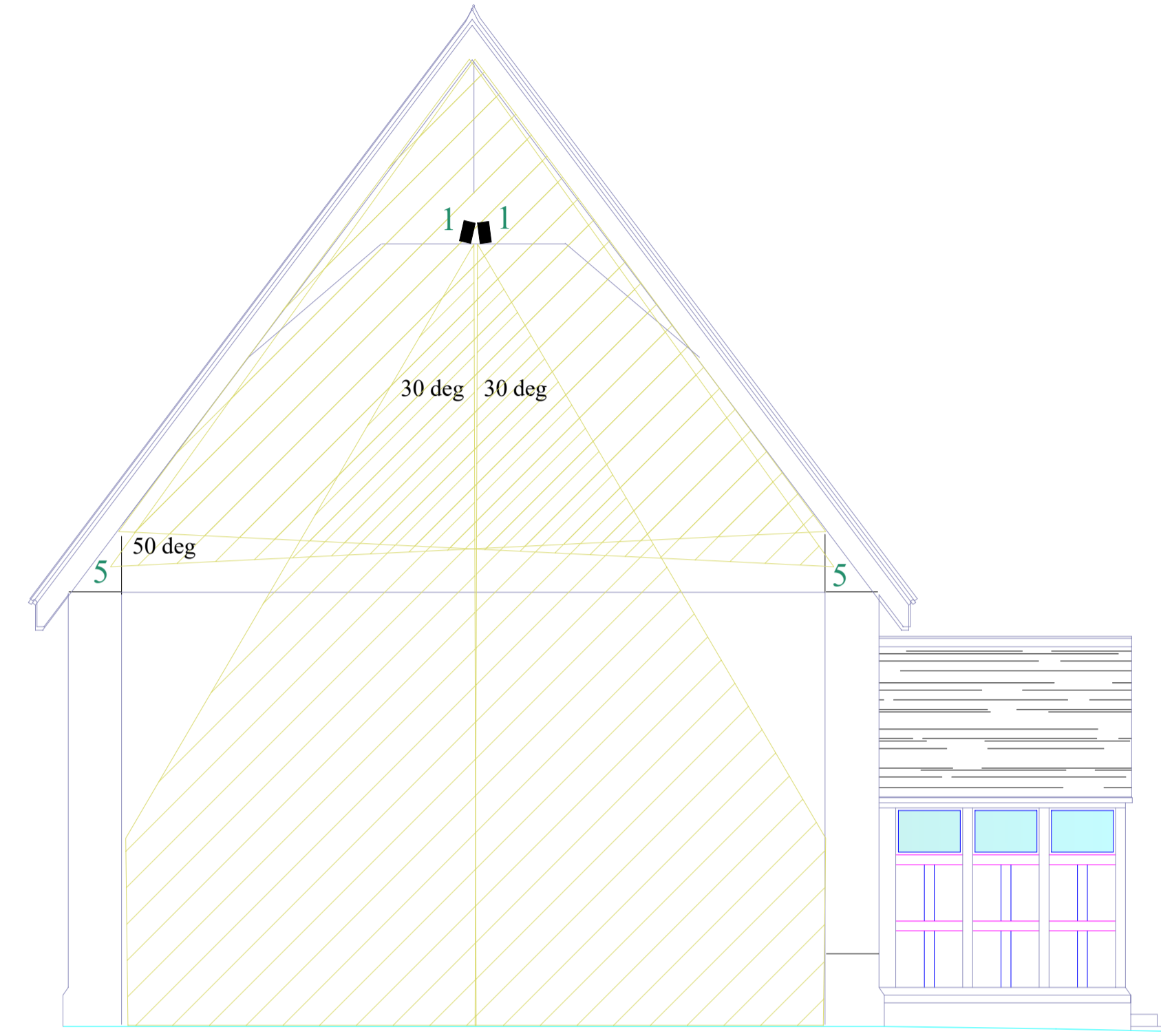
SCALE Appx 1:50	JOB NO. CRA	DRG. NO. CRA2011/1	REV.
DATE 26.6.20			



GROUND FLOOR

TYPE	DESCRIPTION	FINISH
•	Lighting or scene switch position.	Satin s/s
①	Reggiani ROLL IOS 46 watt projector 30 deg surface mounted projector. Type DALI Dim	Black
②	Reggiani Narancia wall up and down light surface mounted Type DALI Dim	White
③	Mike Stoane STX2.70, integral surface mount 1400 lumen 19w, 50 degree beam LED 3000K. White finish. DALI dim. + White finish Glare snoot	White
④	Mike Stoane STX2.70, integral surface mount 1400 lumen 19w, 30 degree beam LED 3000K. Black finish. DALI dim. + Black finish Glare snoot	Black
⑤	Reggiani Varios 30 watt flat projector 51 deg surface mounted projector. Type D.PA47E.WW21 DALI Dimmable	Black
—	High output Concord encapsulated LED strip, 2700 k	Clear
⑦	Reggiani Sunny LED surface mounted downlight 9 watt HQ 48 deg. Type T.F302E.WW31. Phase Dimmable	Black
EXIT	Emergency exit Sign as Signbox FE LED signslot unit with 3 hour emergency back up	
E1	Coco LED Twinspot Emergency Fitting type LED/TW6/NM3/BL	Black
⊙	Extent of half maximum beam intensity level from light fittings	
M	Microwave occupancy Sensor/detector	Black
E	E against any fitting denotes emergency version	

All light fittings except Mike Stone Contact Stu Markham, 07731 867474 for quotations



Type 1 Roll IOS



Type 2 Narancia



Type 3&4 STX2.7



Type 5 Varios



Type 7 Sunny LED

*All Saints Church, Mundeford
Specification for the
Building Services Engineering*

Issue 1 For Approval

Prepared for client by:



Chris Reading
& associates

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PART ONE

1 THE PROJECT GENERALLY

1.1 DESCRIPTION OF THE M&E WORK

THE WORK:

The contract will be let and run under a JCT minor works form of contract. Or exchange of letters. Other works are happening at the site and scaffolding access is available for use in the chancel but otherwise the contractor is to arrange access and protection.

Electrical Installations:

- Strip out all existing electrical lighting services only in the area where replacement lighting is to be installed, including cabling, supports and conduits from the church.
- Supply, fix/install, test and commission the lighting and minor small power/distribution required to complete the scheme.
- All work to be carried out in a safe manner consistent with current Health and Safety requirements (CDM regulations, 2015) and in particular, working at heights.

1.2 SERVICES GENERALLY

1.2.1 **SERVICES REGULATIONS:** Any work carried out to or which affects new or existing services must be in accordance with the Bye Laws or Regulations of the relevant Authority. This includes compliance to Building Regulations, HSE Gas Safe, Building Control including fire officers requirements, all Utilities, Statutory bodies, IEE wiring regulations (BS 7671), the electricity at work act, the CIBSE guides including commissioning guides and the like.

1.2.2 **SERVICE RUNS:** Make adequate provision for services, including unobstructed routes and fixings.

1.2.3 **MECHANICAL AND ELECTRICAL SERVICES** must have final tests and commissioning carried out so that they are in full working order at Practical Completion.

1.2.4 **MECHANICAL AND ELECTRICAL SERVICES INTAKES:**
Ducts are to be provided for the incoming utility services and for connection to external lighting etc.

1.2.5 **MECHANICAL AND ELECTRICAL SERVICES TENDER DRAWINGS:**

	No	Rev	Title
CRA/2011	1		Lighting Layout

1.2.6 **MECHANICAL AND ELECTRICAL SERVICES WORKING DRAWINGS**
The contractor shall prepare working drawings of the installations at the **start of the contract** suitable for approval by the CA. Electronic versions of the consultants drawings will be made available for help with this. These drawings are to be updated throughout the

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contract to keep pace with engineering instructions such that they also become the record drawings for the installation at the end of the contract.

1.2.7 HEALTH AND SAFETY - OPERATION AND MAINTENANCE MANUALS

The contractor must supply two manuals describing the works its operation and maintenance requirements.

As a minimum the manuals must contain:

As fitted drawings

Description of operation

Description and requirements for maintenance

Manufacturers installation literature for all items of equipment

Schedules of valves, electrical items such as replacement lamps etc.

Distribution board details

All test certificates and guarantees

Commissioning data

1.2.8 CONSTRUCTION PHASE HEALTH AND SAFETY PLAN

- Submission: Present to the Employer (Client) no later than 14 days before the proposed start date .
- Confirmation: Do not start construction work until the Employer has confirmed in writing that the Construction Phase Health and Safety Plan include the procedures and arrangements required by CDM Regulations.
- Content: Develop the plan from and draw on the Outline Construction Phase Health and Safety Plan, clause A30/570, and the Pre-tender Health and Safety Plan/Preconstruction information.

1.2.9 HEALTH AND SAFETY INFORMATION

- Content: Describe the organisation and resources to safeguard the health and safety of operatives, including those of subcontractors, and of any person whom the works may affect.
- Include:
 - A copy of the contractor's health and safety policy document, including risk assessment procedures.
 - Accident and sickness records for the past five years.
 - Records of previous Health and Safety Executive enforcement action.
 - Records of training and training policy.
 - The number and type of staff responsible for health and safety on this project with details of their qualifications and duties.
- Submit: within one week of request. Note that no work can be allowed on site until all current CDM requirements have been met.

1.2.10 OUTLINE CONSTRUCTION PHASE HEALTH AND SAFETY PLAN

- Content: Submit the following information within one week of request:
- Method statements on how risks from hazards identified in the pre-tender health and safety plan and other hazards identified by the contractor will be addressed.
- Details of the management structure and responsibilities.
- Arrangements for issuing health and safety directions.
- Procedures for informing other contractors and employees of health and safety hazards.
- Selection procedures for ensuring competency of other contractors, the self-employed and designers.

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- Procedures for communications between the project team, other contractors and site operatives.
- Arrangements for co-operation and co-ordination between contractors.
- Procedures for carrying out risk assessment and for managing and controlling the risk.
- Emergency procedures including those for fire prevention and escape.
- Arrangements for ensuring that all accidents, illness and dangerous occurrences are recorded.
- Arrangements for welfare facilities.
- Procedures for ensuring that all persons on site have received relevant health and safety information and training.
- Arrangements for consulting with and taking the views of people on site.
- Arrangements for preparing site rules and drawing them to the attention of those affected and ensuring their compliance.
- Monitoring procedures to ensure compliance with site rules, selection and management procedures, health and safety standards and statutory requirements.
- Review procedures to obtain feedback.

1.2.11 POTENTIAL HAZARDS

Apart from the normal hazards of managing this type of equipment there is the potential to manage asbestos ,although we think unlikely to be in the building.

1.2.12 CHURCH ARCHITECT:

All work must be carried out to the satisfaction of the church architect, as well as the consulting engineer. The church architect has overall responsibility for all works in the church and any work that involves alteration or cutting of the fabric must be previously agreed.

1.2.13 PRICING OF M AND E WORK:

Provide break down of costs in the cost sheet provided

1.2.14 CONTRACTOR DESIGN:

The contractor will be expected to design certain elements of the work and also make constructive suggestions on simplifying the physical installation of the designs. This will be carried out under the direction of the Consulting Engineer.

1.2.15 PROVISIONAL SUMS FOR M&E WORK:

Electrical:

Unforeseen £1000=00

Design Contingency £1000=00

1.3 CONTRACT PARTICULARS

Assume for pricing that a JCT minor works contract will be used.

1.3.1 The project: The Church of All Saints Church, Mundeford.

Nature: Installation of new Lighting and associated small power.

1.3.2 Employer: The PCC of All Saints Church, Mundeford.

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- 1.3.3 Church Surveyor: Duncan McKellar, Temple Ford Design Architects Suite K, Anchor House, School Lane, Chandler's Ford, Eastleigh SO53 4DY
- 1.3.4 Consulting Engineer: Chris Reading and Associates, 6 Charfield Close, Winchester SO22 4PZ. Tel: 01962 861496; M: 07802 618656
- 1.3.5 All builderswork which includes holes larger than 50 dia is to be carried out by the building contractor.
- 1.3.6 Employer: The PCC of All Saints Church. In the first instance any communication with the client should be through the Consulting Engineer.
- 1.3.7 CA: Consultant engineer.
- 1.3.8 Consulting Engineer: Chris Reading and Associates, 6 Charfield Close, Winchester SO22 4PZ. Tel: 01962 861496; M: 07802 618656; E: consultcra@btinternet.com
- 1.3.9 Church Architect: To be consulted on any work that affects the fixing to or cutting of the Fabric: refer clause 1.3.3.
- 1.3.10 Drawings: The drawings are as listed in clause 1.2.4. The contract drawings will be the same as the tender drawings.
- 1.4.1 Access to the site:
Access route and parking to be agreed with client. Deliveries may be made in normal working hours, i.e. from 08:00 until 17:00.
- 1.4.2 Parking: Parking will be allowed on the understanding that access for others is not obstructed. Parking is available outside the church.
- 1.4.3 Use of the site: Do not use the site for any purpose except for carrying out the works. Contractor must comply with any client requirements.
- 1.4.4 Welfare facilities, WC etc. will be provided by the church. These will be agreed prior to commencement on site.
- 1.4.5 Surrounding Land/Building Uses: The church is located adjacent to dwellings and due respect must be paid to the nature of the buildings and site.
- 1.4.6 Site Visit: Before tendering the contractor must visit the site to fully understand the nature of the site and all local conditions and restrictions likely to affect the execution of the works.
- 1.4.7 Site visits may be arranged through the Consulting Engineer. The church is open during daylight hours.
- 1.5 Contract: Most likely a JCT minor works contract, otherwise exchange of letters, to be agreed.

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- 1.5.1 The defect period for the project is 12 months from completion of the installation. Should any faults occur during this period the contractor shall correct them free of charge to the client. In addition the client will require the system to be periodically maintained. The contractor shall provide a quotation for a single maintenance visit which should include costs for access but exclude cost of materials. The price to be based at date of tender. The defect period will be 12 months from Practical Completion of the project
- 1.5.2 Retention. A retention of 5% will be held throughout the contract until practical completion, which will then reduce to 2.5% and be payable at the end of 12 month defect period. Practical completion will be determined by the finishing of the site works and the production of the CDM information including operation manual, as installed drawings and test Certificates.
- 1.5.3 Insurance of the building. Clause 5.4.B is intended to be used in the JCT contract.

PART THREE

GENERAL SPECIFICATION OF MATERIALS - ELECTRICAL

3.1 WORKMANSHIP

All work must be carried out in a workmanlike manner and to professional standards by skilled Tradesmen. Requests for alterations to the specification must be made in writing and authorised by the consultant. In general the work must comply with industry standards, current British and European Standards as well as the Building Regulations and CIBSE guidelines. All work must be installed to a level that would be considered to be good practice. All equipment must be installed to manufacturers requirements and be commissioned. A commissioning certificate shall be issued to confirm that the items of equipment are installed to standard, and that the manufacturers guarantee remains valid.

3.1.1 REGULATIONS: Comply with:

- BS 7671 'Requirements for Electrical Installations'(The IEE Wiring Regulations).
- Requirements of the Electricity Supply Company.
- The electricity at work act.

3.2.1 EQUIPOTENTIAL BONDING: Install main and supplementary bonding conductors in accordance with the requirements of BS 7671 (The IEE Wiring Regulations). Material - Insulated cable, single core to BS6004. Use no joints in main equipotential bonds. Provide Supplementary equipotential bonds to BS7430 and BS7671. Use earthing clamps complying with BS951, for bonding pipes and lead sheathed cables.

3.3.1 INSTALLATION GENERALLY:

- Install, test and commission the electrical work in accordance with BS 7671 (The IEE Wiring Regulations), ensuring compliance with design and performance requirements, to provide a safe, well insulated, earth protected system capable of supplying the anticipated maximum demand.
- Installation work to be carried out by qualified electricians fully conversant with BS 7671 (The IEE Wiring Regulations).
- Fastenings, bushes, glands, terminals, connectors, clips, clamps and all other minor accessories necessary to complete the installation to be types recommended for the purpose by relevant equipment, accessories, etc. manufacturer.
- In locations where moisture is present or may occur, use corrosion resisting fastenings and avoid contact between dissimilar metals.

3.4.1 BUILDER'S WORK: Comply with restrictions on the cutting of holes, chases, notches, etc. and methods of attachment to the building fabric.

3.5 CONDUIT/TRUNKING/DUCTING

3.5.1 STEEL CONDUIT AND FITTINGS:

- If specified in the particular specification:
- To BS 4568:Parts 1 and 2.
Type: Seam welded with plain threadable ends.
Size: In accordance with BS 7671 (The IEE Wiring Regulations).
Fittings to be of same gauge and manufacture

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Protection class/finish: Heavyweight pointed black.

Mounting/support: Saddle clips

- Use maximum practical lengths to minimise number of joints. Form bends by machine and remove burrs from cut ends.
- Use bends and/or junction boxes at changes of direction. Do not use elbows or tees of any sort without approval.
- Fix securely with boxes fixed independently of conduit.
- Tightly screw all joints to ensure electrical continuity, with no thread showing. Use expansion couplings where conduit crosses movement joints in structure.
- Make secure connections to boxes, trunking, etc. with screwed couplings and provide rubber bushes at open ends.

3.5.2 PVC CONDUIT AND FITTINGS:

- If specified in the particular specification. Not to be used for this project.

- To BS 6099:Part 1, BS 6099:Part 2, Section 2.2 and BS 4607:Parts 1 and 5:

Manufacturer and reference: MK, Marshall Tufflex or other equal and approved.

Strength: Heavy duty.

Size: In accordance with BS 7671 (The IEE Wiring Regulations).

Shape/colour: Round black.

Jointing: Solvent adhesive as recommended by the manufacturer. Sliding joints must be left to take account of expansion.

Fittings: Same type, colour and design as conduit.

Mounting/support: Surface, use saddles as recommended by manufacturer.

- Use maximum practical straight lengths to minimise number of joints.
- Use proprietary bends and/or junction boxes at changes of direction. Do not use elbows, tees or site formed bends without approval.
- Fix securely with boxes fixed independently of conduit.
- Form secure joints, using expansion couplings where recommended by manufacturer, and connectors at equipment, terminal fittings, etc.

3.5.3 INSTALLING CONDUIT IN CONCRETE: Fix securely to reinforcement and fix boxes to formwork to prevent displacement. Depth of concrete cover to be not less than specified for reinforcement.

3.5.4 DRAINAGE OF CONDUIT: Provide drainage outlets at lowest points in conduit installed externally and in locations where condensation may occur.

3.5.5 STEEL SURFACE TRUNKING SYSTEM:

- If specified in the particular specification

- To BS 4678:Part 1.

Size: In accordance with BS 7671 (The IEE Wiring Regulations).

Fittings: Use bends tees and angles of similar gauge, type and finish as trunking body and supplied by same manufacturer.

Protection class/finish: To manufacturers standard

Mounting/support: Use purpose made brackets or supports to fix to structural steel or suspension rods. Provide external fixing lugs where specified protection is IP44 or greater.

- Use proprietary units to form junctions and changes of direction wherever possible.
- Use mechanical fastenings/fixings; do not weld.
- Fit a copper link at each joint to ensure electrical continuity.
- Fit grommets, bushes or liners to holes through which cables pass.

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3.5.6 PVC SURFACE TRUNKING SYSTEM:

- If specified in the particular specification or on the drawings.
- To BS 4678:Part 4.
- Size: In accordance with BS 7671 (The IEE Wiring Regulations).
- Fittings: Use fittings by same manufacturer as trunking.
- Strength: Medium mechanical stress duty.
- Colour: White
- Use proprietary units to form junctions and changes of direction wherever possible.

3.5.7 FLUSH FLOOR TRUNKING SYSTEM:

- If specified in the particular specification or on the drawings
- Size: In accordance with BS 7671 (The IEE Wiring Regulations).
- Service outlet units: Provide same style and type from trunking manufacturer.
- Protection class/finish: Heavy gauge to BS4678 part 4
- Fix securely to prevent displacement during screeding.
- Accurately position trunking and outlet units in plan and in relation to finished floor level.
- Fit temporary blanking plates at service outlet locations and ensure that trunking and outlet units are adequately protected to prevent damage and ingress of screed and other extraneous materials.

3.5.8 STEEL UNDERFLOOR DUCTING SYSTEM:

- If specified in the particular specification or on the drawings
- To BS 4678:Part 2.
- Size: In accordance with BS 7671 (The IEE Wiring Regulations).
- Service outlet units: Provide in sheet steel from same manufacturer and style/type.
- Protection class/finish: Class 3 Heavy duty hot dip zinc coated and painted.
- Fix securely to prevent displacement during screeding.
- Accurately position outlet units in plan and in relation to finished floor level. Trunking to have levelling devices.
- Fit temporary blanking plates at service outlet locations and ensure that ducting is adequately protected to prevent damage and ingress of screed and other extraneous materials.
- Fit service outlet units when cables are installed.
- Ensure adequate access to install cables and for future maintenance.

3.5.9 FIRE STOPPING OF TRUNKING/DUCTING: Seal internally where they pass through fire resisting floors, ceilings, cavity barriers and the like.

3.6 CABLING

3.6.1 CABLES to be BASEC certified. Select types and sizes in accordance with particular specification and the drawings to suit operating conditions, ensuring compliance with BS 7671 (The IEE Wiring Regulations). Obtain approval before proceeding with installation. All cables to be of one manufacturer only and shall be delivered to site with the makers seals intact. The labels and seals shall not be removed until the cable is required for installation and shall be retained for inspection by the CA. All cables shall be made by Pirelli or BICC.

3.6.2 CABLE ROUTES to be:

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- Straight, vertical or horizontal and parallel to walls unless shown otherwise.
- In approved locations where exposed to view. When not specified otherwise, conceal cables wherever possible.
- Positioned at least 150 mm clear of other services. Cables running parallel and adjacent to heating pipes to be located below the pipes.
- Concealed horizontal runs in walls, if unavoidable, to be located within 150 mm of ceiling or between 150 and 300 mm of floor.
- Concealed cable runs to wall switches and outlets to be vertically in line with the accessory.

3.6.3 INSTALLING CABLES GENERALLY:

- Do not commence internal cabling until the building is sufficiently enclosed to ensure permanently dry conditions.
- Install cables neatly and securely, adequately protected against accidental damage, adverse environmental conditions, mechanical stress and deleterious substances.
- Install cables without joints other than at equipment and terminal fittings. Do not use junction boxes without approval.
- Sleeve cables passing through masonry walls with conduit bushed at both ends.
- Do not run cables in spaces where they will be surrounded or covered by insulation. Where this is not practical, size cables accordingly and inform CA.

3.6.4 CIRCUIT PROTECTIVE CONDUCTORS:

Use cable conductors throughout; do not use conduit or trunking as protective conductors where continuity cannot be guaranteed.

Material: Insulated cable, single core to BS6004. metallic screwed conduits (excluding flexible); metallic trunking with tinned copper links; armouring and/or metallic sheathing of armoured cables or integral conductor of multicore cable.

Size: provide protective conductors sized in accordance with BS7671 (IEE Regulations) 543-01-03 and Tables 54B, 54C, 54D, 54E, and 54F or provide protective conductors sized in accordance with BS7671 543-01-04 and table 54G.

3.6.5 ARMOURED CABLE:

Material: Generally PVC SWA

Handle and install carefully to prevent damage to sheath and armouring.

- Do not install if cable and ambient temperature are, or have been for the previous 24 hours, below 0 deg C.
- Fit galvanized steel guards where cables are liable to mechanical damage.
- Bond armour to equipment and main earthing system.
- Make moisture proof connections to apparatus using sealed glands and PVC shrouds.

3.6.6 PVC SHEATHED CABLES:

Type: Twin and earth: 6242Y Singles: 6491X

- Do not install cables when the temperature is near or below freezing.
- Do not install in cavities of external walls.
- Fit insulating cable glands at entries to equipment.
- Terminate cable sheaths within boxes.

3.6.7 MICC CABLES:

All mineral insulated cables shall comply with BS6207 and shall be heavy duty grade with copper conductors and copper sheathing with an overall serving of PVC.

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- As soon as a length of cable has been installed, fit permanent seals and immediately carry out an insulation test between conductors or between any conductor and cable sheath. Repeat test between 24 and 48 hours later. Only infinity readings will be accepted. Replace any cable which fails and repeat tests.

3.6.8 CABLES LAID DIRECTLY IN THE GROUND:

- Before laying cables, ensure that bottom of trench is even and free from sharp stones, roots, etc.
- Lay cables on a 75 mm bed of sand.
- Where two or more cables are laid in the same trench, set 150 mm apart.
- Cover each cable with 75 mm of sand overlaid with cable covers to BS 2484.
- Mark each change in direction of cables with a precast concrete slab, size 300 x 300 x 150 mm thick, impressed with 'LV CABLE' and laid level with finished ground level.

3.6.9 CABLES ENTERING BUILDING(S) FROM BELOW GROUND: Seal both ends of pipeduct to a depth of not less than 150 mm, with an approved nonhardening, noncracking, water resistant compound. Alternatively, fit a proprietary moulded pipeduct seal.

3.6.10 CABLES IN PLASTER: Cover with galvanized steel channel nailed to background.

3.6.11 CABLES IN VERTICAL TRUNKING/DUCTS:

- Support with pin racks or cleats at each floor level or at 5 m vertical centres, whichever is less.
- Provide and fix heat barriers at not more than 5 m centres where fire resisting barriers are not specified.

3.6.12 CABLES IN ACCESSIBLE ROOF SPACES: Cables running across ceiling joists to be fixed to timber battens nailed to joists.

3.7 COMPLETION

3.7.1 INSPECTION AND TESTING:

- To BS 7671 (The IEE Wiring Regulations:Part 7).
- Give not less than 24 hours notice before commencing tests.
- In addition to items required to be inspected or tested, ensure that labels and signs required by the Regulations are securely fixed in the correct locations.
- After satisfactory completion of tests submit two copies of inspection and completion certificates to CA.

3.7.2 INSPECTION AND TESTING OF EMERGENCY LIGHTING SYSTEM:

- To BS 5266:Part 1.
- Give not less than 24 hours notice before commencing tests.
- After satisfactory completion of tests submit two copies of certificate to CA. Certificate to be as BS 5266: Part 1, Appendix B.

3.7.3 INSPECTION, INITIAL TESTING, COMMISSIONING AND CERTIFICATION OF FIRE ALARM SYSTEM:

- To BS 5839:Part 1, clause 26.
- Give not less than 24 hours notice before commencing tests.

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- After satisfactory completion of tests submit two copies of certificates to Consultant
Certificates to be as BS 5839:Part 1, Appendices B and C.

3.7.4 DOCUMENTATION: Hand over to the Consultant at Practical Completion:

- CDM material including copies of manufacturers' operating and maintenance instructions for all fittings and apparatus.
- As-installed drawings showing all circuits and their ratings and the locations of all fittings and apparatus.

PART EIGHT

PARTICULAR SPECIFICATION - GENERAL LIGHTING AND POWER AND ANCILLARY SERVICES

8.1 GENERAL INFORMATION/REQUIREMENTS

8.1.1 THE INSTALLATION:

- Strip out the existing electrical services serving the lighting to be replaced, including containment
- Power: Supply and fix power installation to serve the lighting dimmer board.
- Lighting: Supply and fix the lighting installation including dimming controls.
- Supply and fix emergency and escape lighting systems to current BS and as indicated on the drawings.

8.1.2 INSTALLATION GENERALLY:

- Install, test and commission the electrical work in accordance with BS 7671 (The IEE Wiring Regulations), 17th edition, ensuring compliance with design and performance requirements, to provide a safe, well insulated, earth protected system capable of supplying the anticipated maximum demand.
- Installation work to be carried out by qualified electricians fully conversant with BS 7671 (The IET Wiring Regulations 18th edition).
- Fastenings, bushes, glands, terminals, connectors, clips, clamps and all other minor accessories necessary to complete the installation to be types recommended for the purpose by relevant equipment, accessories, etc. manufacturer.
- In locations where moisture is present or may occur, use corrosion resisting fastenings and avoid contact between dissimilar metals.
- Generally two systems of cabling are to be used:
Main cable route to dimmers LSF SWA cable.
Above ground predominantly lighting to be FP200 gold clipped to the surface along perlin or hidden in the structure and from view.

8.1.3 DROPS, FEEDS ETC. TO ELECTRICAL ACCESSORIES

In general all wiring to accessories is to be hidden within the floor, walls, store cupboards etc. and contained. Where switch drops or supplies to other electrical accessories have to run on a finished surface the cabling shall be enclosed in heavyweight metal conduit and enclosed in boxing. In all cases these routes to be discussed with the engineer at first fix planning stage.

8.2 EQUIPMENT/ACCESSORIES

8.2.1 FIXING ELECTRICAL ACCESSORIES/EQUIPMENT:

- Position accurately and square to vertical and horizontal axes.
- Where not shown otherwise, align adjacent accessories on the same vertical or horizontal axis as appropriate.
- Where not shown otherwise, fix accessories/equipment at the following heights above finished floor level:
Light Switches 1200 mm
Socket Outlets 450 mm
Fire Alarm Break Glass Units 1200 mm
Fire Alarm Sounders 2200 mm
Hand dryers 1200 mm
Wall mounted light fittings 2000 mm

All accessories shall be recessed type as manufactured by MK Edge range finish, brushed stainless steel, with the exception of any sockets in damp areas which shall be MK Master Seal and sockets located in specialist floor boxes which may be MK chassis type.

8.2.2 LIGHTING

Supply and fix lighting as indicated on the drawings.

All ceiling mounted fittings shall be symmetrically installed about the room diagonals except where otherwise stated or shown on the drawings. Light fittings shall be firmly fixed to the structure.

All equipment is to be installed to manufacturers recommendations.

Drivers for lighting shall be as supplied by the light fitting manufacturer. Light fittings shall be as specified on the electrical drawings.

8.2.3 DIMMING

Supply and fix a dimming system suitable for Trailing edge and DALI drivers. The Dimming equipment shall be as manufactured by Mode Lighting.

The system shall be supplied and commissioned by CPS of Christchurch Bournemouth.

Two periods of commissioning shall be provided, approximately 6 months apart.

Dimmer packs to be located adjacent to the main distribution board behind the organ. A main switch and two subsidiary scene Setting switches shall be provided with 9 scene selections.

Contact Simon White at. CPS of Christchurch, Bournemouth. T: (01202) 572000

E: simon@cpsgroup.co.uk

8.2.4 EMERGENCY AND ESCAPE LIGHTING

Emergency lighting and emergency exit lighting shall be designed in accordance with BS5266 part 1. General escape route lighting shall be provided by the general lighting with emergency packs. Where this is not possible Channel systems twin head spot lamp emergency packs etc. Shall be used.

8.2.5 EMERGENCY LIGHTING TEST SWITCH

Supply and fix emergency lighting test switch. All areas where emergency lighting is present are to be fitted with a clearly labeled test switch to allow simple testing of the emergency Lighting. This switch is to be located within the lighting grid switch and be key operated. All emergency lights are to be identified.

8.2.6 OUTSIDE LIGHT AND SECURITY LIGHT SWITCHING

Existing to remain.

8.2.7 ELECTRICAL SPECIFICATION SCHEDULE:

Wire all final sub circuits for socket outlets and small power in FP200 gold 2.5 sq mm twin and earth cabling. Wire all final sub circuits for 20 A isolators in 2.5 sq mm FP 200 gold

Wire all final sub circuits for **lighting and alarms** in 1.5 sq mm FP200 gold cable.

All armoured cable shall have an LSF sheath.

All socket outlets shall be on ring mains all other items may be on radial circuits.

Protection:

Lighting 10 A type B 30mA RCCBO

Small Power S/Os 30A type B 30mA RCCBO

Small Power radial circuits 20 A type B 30mA RCCBO

Fixed equipment can be protected by MCBs

All isolators shall be protected up to the rating of the unit, fans and pumps shall be protected with type C MCB's.

The electrical contractor must satisfy himself that the above assumptions still hold when final details of the equipment is known.

8.2.8 LABELING OF ELECTRICAL SYSTEMS:

Ensure that all distribution boards are properly labeled. Also label each sub main cable at each end with the following:

- Source of supply
- Cable type and size
- Design current
- Installed length

Also label all small power accessories with details of circuit number source and phase.

8.2.9 TRUNKING AND CONDUIT

All steel trunking shall comply with BS 4678: Part 1: 1978 - unless otherwise stated.

Material: Hot dipped galvanised sheet steel to BS EN10142:1991. Fe PO2G Z275NAC. BS EN10143:1993.

Finish: Galvanised to Fe PO2G Z275NAC. Complies with BS4678 Part 1 1978 - Class 3 Heavy Protection Against Corrosion.

PART NINE

9.0 BUILDERSWORK FOR SERVICES

9.1 GENERAL

To be read with Preliminaries/General conditions.

9.1.1 NOTCHES AND HOLES IN STRUCTURAL TIMBER:

- To be avoided wherever possible and to be the minimum sizes needed to accommodate services.
- Do not position near knots or other defects in the same cross section which would significantly affect strength of timber.
- Notches and holes in the same joist to be at least 100 mm apart horizontally.
- Notches in joists to be at the top, located between 0.07 and 0.25 of span from support, not deeper than 0.125 x depth of joist and to be formed by sawing down to a drilled hole.
- Holes in joists to be on the neutral axis, with diameter not more than 0.25 x depth of joist, spaced at centres not less than 3 x diameter of largest hole and located between 0.25 and 0.4 of span from support.
- Notches in roof rafters, struts and columns will not be permitted.
- Holes in struts and columns to be on the neutral axis, with diameters not exceeding 0.25 x minimum width of member, located between 0.25 and 0.4 of length from end and spaced at centres not less than 3 x diameter of largest hole.

9.1.2 PAINTING

Various items of equipment will require painting and the contractor must make allowance for this:

- All cabling that can be seen
- Emergency lighting battery pack units where they can be seen

9.1.3 PROTECTION OF ORGAN:

The organ is to be protected with a layer of polythene whilst work is carried out in the Sanctuary to protect against dust. Fully seal the polythene with duct tape or similar.

9.1.4 BUILDERSWORK AND ACCESS EQUIPMENT:

It is the contractors responsibility to provide all access, trenching, scaffolding and other equipment for the safe removal of the existing church heating equipment and the installation of the new heating, lighting and small power systems.

Ref: 2020-053293 **Church:** Mudeford: All Saints
Diocese: Winchester **Archdeaconry:** Bournemouth
Created By: Mr Anthony Eden (21/07/2020) **Contact Tel.:** 01202 473003
Status: Application with Registrar

Form 3A

(Rule 5.3)

Petition for Faculty
(proceedings started pursuant to resolution of parochial church council)

To the Consistory Court of the Diocese of Winchester

In the parish of Mudeford

Church of Mudeford: All Saints

Petitioners:

FULL NAME*	RESIDENTIAL ADDRESS* (including postcode)	OFFICE HELD*
ANTHONY JOHN EDEN	3, MINTERNE ROAD, CHRISTCHURCH, DORSET, BH23 3LD	TREASURER TO PCC
ANDREW PHILIP JABLONSKI	THE VICARAGE, 22 KESTREL DRIVE, CHRISTCHURCH, DORSET BH23 4DE	PRIEST IN CHARGE
CHRISTINE MARY GREEN	41 BURE LANE, CHRISTCHURCH, DORSET BH23 4DJ	CHURCHWARDEN

**Please use capital letters*

Please indicate here which of the above should be regarded as the contact address. A telephone number and email address should also be provided where possible.

ANTHONY JOHN EDEN

Usually the minister and churchwardens should be the petitioners. Where that is not the case, please provide an explanation here (including details of the interest which it is said that a person who is not the minister or a churchwarden has in the matter).

When I started making this Application for a Faculty on 21st July 2020, I was both Churchwarden and Treasurer. However, I retired as Churchwarden on Sunday 11th October 2020 at the Vestry meeting of the APCM having completed at least six years in this role. The PCC meeting which followed the APCM has appointed me to continue as Treasurer and to continue the work of progressing this Application.

We petition the Court for a faculty to authorise the following-

Please describe the works or other proposals for which a faculty is sought in the way recommended by the Diocesan Advisory Committee in its Notification of Advice.

SCHEDULE OF WORKS OR PROPOSALS

Provide replacement lighting in church and provide new Audio Visual (AV) for church. To be in accordance with the specifications by Chris Reading & Associates, dated 11th July 2020, and Complete Production Solutions, dated 7th July 2020.

Copies of the Standard Information Form and any drawings, plans, specifications, photographs or other documents showing the proposals must be provided with this petition.

A. PROFESSIONAL ADVICE

Please answer this section in every case

Has the architect or surveyor appointed under section 45 of the Ecclesiastical Jurisdiction and Care of
1. Churches Measure 2018 been -

a. engaged in connection with the proposals? Yes No

b. asked for general advice in relation to these proposals? Yes No

2. If another architect or surveyor is being engaged -

a. what is his or her name and address?

b. why is he or she being instructed in relation to the proposed works?

B. CHANGES TO THE INTERIOR AND/OR EXTERIOR OF THE CHURCH

Please answer this section if applicable. Otherwise proceed to section C

3. a. If changes to the interior and/or exterior of the church are proposed, has the PCC prepared a statement of significance and a statement of needs? Yes No

b. If the answer to a. is yes, please supply copies of the statements with this petition

c. If the answer to a. is no, what are the reasons for asking for permission for the proposals?

Please supply separate explanatory statement if more space is required

C. FINANCIAL INFORMATION

Please answer this section in every case

4. a. What is the estimated cost of the proposed works?

b. Who has estimated this cost? Chris Reading lighting Consultants who have obtained quotes for the lighting work. Preferred tender for AV system, (Complete Production Solutions) has provided quote.

c. Are the proposals wholly to be paid for by someone other than the parochial church council or wholly from funds which have already been given to the PCC for the purpose of the proposals?

Yes No

d. If the answer to c. is no, how are the proposals to be paid for? (Please give figures in the boxes below)

From-

i. the PCC's current balance of funds that are available for the purpose	<input type="text" value="£30000.00"/>
ii. gifts/legacies	<input type="text" value="£15000.00"/>
iii. grants or fund raising	<input type="text" value="£"/>
- already available	<input type="text" value="£5000.00"/>
- being sought	<input type="text"/>

If you are preparing a statement of needs or providing an explanatory statement under section 3.c., please include details of any fund raising strategy there.

D. PERMISSIONS FROM OTHER BODIES

Please answer this section in every case

5. a. Are any external works proposed? Yes No

b. If yes, have you consulted the local planning authority as to whether planning permission or advertisement consent is required? Yes No

c. Please include a copy of any reply from the local planning authority.

6. a. If required, has outline or full planning permission or advertisement consent been granted? Yes No

b. Please include a copy of the planning permission or advertisement consent, if any, with this petition.

7. a. If any of the proposals affect a scheduled ancient monument, has scheduled monument consent been obtained? Yes No

b. If yes, please include a copy of the consent with this petition.

E: ARCHAEOLOGICAL MATTERS

Please answer this section for any work to or in the church or churchyard

8. a. Have you been advised that the proposals may have archaeological significance? Yes No

b. If so, please include any advice received.

c. Is an archaeologist to be involved and to be given Yes No

facilities for inspection and recording during the course of the works of excavation or works to the fabric?

F. CONSULTATION FOR WORKS OF DEMOLITION, ALTERATION OR EXTENSION OF A LISTED CHURCH

Please answer this section if applicable. Otherwise proceed to section G

9. Have any of the following bodies been consulted?

The Church Buildings Council Yes No

Historic England Yes No

The Council for British Archaeology Yes No

The Ancient Monument Society Yes No

Society for the Protection of Ancient Buildings Yes No

The Georgian Group Yes No

The Victorian Society Yes No

The Twentieth Century Society Yes No

If the answer to any of the above is yes, please include copies of any correspondence giving the views of the body concerned and your replies.

10. a. Has the local planning authority been consulted? Yes No

b. If yes, please include correspondence giving its views and your reply.

G: CHURCH INSURANCE

Please answer this section for any work to or in the church or churchyard

11. Do the proposals involve external scaffolding? Yes No

12. a. Is the work or part of the work to be carried out Yes No

by voluntary labour?

b. If yes, has the PCC consulted its insurers about protecting voluntary labour against the risk of injury during the course of the work?

Yes

No

13. Have you informed the church's insurance company that work is to be carried out in the church or churchyard?

Yes

No

If the answer to question 12.b. or 13 is yes, please supply a copy of the insurer's approval or letter in reply.

H. DETAILS OF CONTRACTORS

Please answer this section when you wish to carry out work of any kind

15. If known, please give the name and address of each contractor to be employed for the different aspects of the works (e.g. builder, electrician, stained glass artist, organ builder etc.)

Contractor 1
BHM Electrical Services Ltd
(Daniel Forshaw),
Hanford House,
Unit 12, Westlink, Belbins
Business Park,
ROMSEY,
Hampshire,
SO51, 7JF

Contractor 2
Complete Production Solutions
Group (Simon White),
Unit 14,
Airfield Road,
Christchurch,
BH23 3TG

Contractor 3

I. TIME FOR WORK

Please answer this section in every case

16. a. How soon will the work start after the faculty is granted?

By March 2021

b. How long is it expected that it will take for the work to be completed?

3 weeks

17. a. Will it be necessary to hold public worship in another building while the work is being carried out?

Yes

No

b. If yes, has the Bishop consented to alternative arrangements for public worship?

Yes

No

J. ARCHDEACON'S LICENCE

Please answer this section if applicable. Otherwise proceed to section K

18. a. Has the archdeacon granted a licence authorising temporary minor re-ordering?

Yes

No

b. If yes, please include a copy with this petition.

K. PCC RESOLUTION

Please answer this section, deleting words as appropriate, in every case.

19. The parochial church council at its meeting on 08/07/2020 passed unanimously of ____ to ____ among those present and voting a resolution relating to the works or proposals. A copy of the resolution signed by the chair is included with this petition. There are 15 members of the council.

L. DIOCESAN ADVISORY COMMITTEE

Please answer this section in every case

20. Is a notification of advice from the Diocesan Advisory Committee included with this petition? Yes No

M. FURTHER INFORMATION

Please answer this section in every case

21. a. Could the work affect any human remains? Yes No

b. Could the work affect any monuments? Yes No

22. Are any private rights (including rights in seats in the church) affected by the works or proposals? Yes No

23. If the answer to question 21 or 22 is yes, please provide details in the schedule of works or proposals.

24. Is the information about the church and churchyard included in the most recent quinquennial inspection report still accurate? Yes No

25. If there is any further information that the petitioners would like the court to take into account, details should be set out in a letter or statement included with this petition.

We believe that the facts stated in this petition are true.

Signed: ANTHONY JOHN EDEN
[authorised to sign on behalf of the petitioners]

Date: 04/11/2020

(Signature(s) of petitioners or person acting on behalf of petitioners)