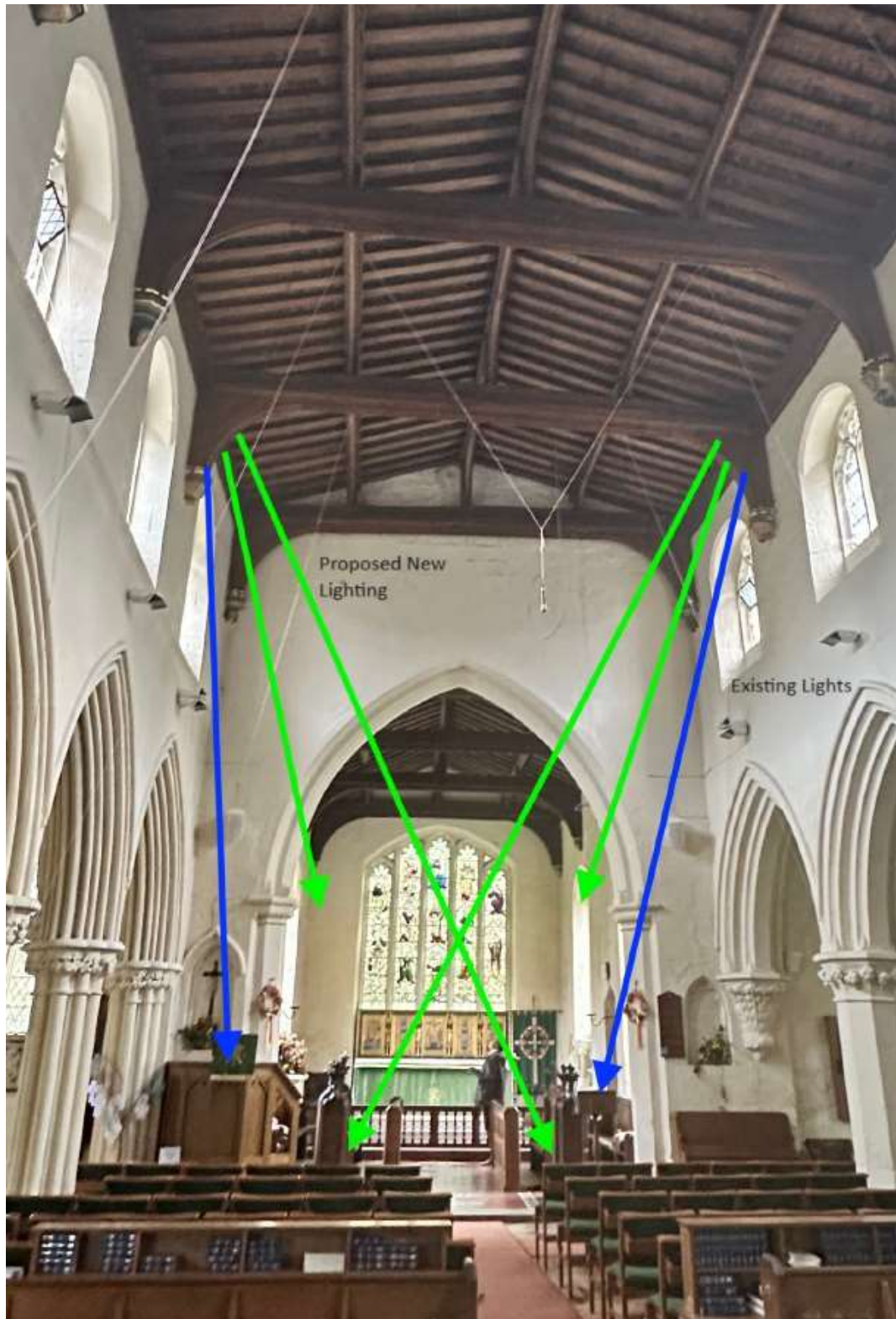


## Proposed Lighting Scheme at St Mary's

The existing interior lighting in St Marys uses gas discharge lamps as the main source of illumination for the chancel, nave and side aisles. These are currently mounted at mid height on the nave walls. See the photo below showing the existing lights.



There are several supplementary lamps using metal halide spotlights. The total power consumption of our interior lighting is approximately 3 kW. The gas discharge lamps are reaching end of life with three units having failed. We have been advised that they are difficult and expensive to repair as internal components like chokes and starting circuitry has failed and it would be better to replace them with new.

It is proposed to replace all of the interior lighting with LED track mounted DALI controlled spotlights mounted at roof level. The photo below shows a similar installation at St Stephens in St Albans with track mounted DALI spotlights mounted on the East side of the roof beam supports.



It should provide less glare for the congregation as they will be mounted at high level on the forward side of the roof beam supports. It will also provide greater flexibility of illumination control with individual addressable control of each lamp or group of lamps. In addition it is proposed to fit architectural lighting to each of the clerestory windows to enhance the appearance of these features. It is not proposed to install the additional roof and beam level illumination offered in the quotation at this time. It was agreed by the PCC that the additional enhancement was small and could not be justified within the

constraints of the budget. The total power consumption of the new lighting is estimated to be between 10% and 20% of the current level when in its normal operating mode. The additional flexibility of selecting parts of the system and reduced brightness should enable further savings.

The cost of the installation is quoted in the initial proposal document from CLS Electrical Ltd as follows:

1, For the supply and installation of a new DALI lighting system which includes new wiring to the light fittings, new 10 button control plate and DALI panel.  
At a cost of £29,975.50 + VAT

2, For the installation of Roof Uplighters to the Nave & Chancel.  
At a cost of £4,050.00 + VAT

3, For the installation of OneLight recessed window LED fittings  
At a cost of £3,275.00 + VAT

The PCC has agreed to proceed with item 1 and 3 above but not to proceed with item 2.

Documents provided for faculty

1. These notes
2. CLS Electrical Internal Lighting Proposal
3. CLS Electrical Internal Lighting Specification
4. CLS Electrical Specification Drawing