
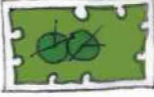







- KEY:**
-  PROPOSED TREES
 -  PROPOSED SHRUBS: TO INCLUDE SENSORY PLANTING & PLANTS SALVAGED FROM EXISTING SITE. SALVAGED PLANTS INCLUDE ACERS, HYDRANGEA, HEBE, ROSES & HERBACEOUS PLANTS.
 -  PROPOSED NATIVE HEDGEROW TO MIDDLE LANE BOUNDARY.
 -  PROPOSED BIRD BOXES WITHIN GARDEN ON WALLS & TRELLIS. (X5).
 -  PROPOSED INVERTEBRATE HOTEL ON WALL (X2).
- REFER TO BSQ ECOLOGY REPORT FOR FULL DETAILS OF ECOLOGICAL ENHANCEMENTS.

LIGHTING SPECIFICATION
 In line with paragraph 180 of the National Planning Policy Framework (NPPF) which states that decisions should limit the impact of light pollution from artificial light on local amenity, intrinsically dark landscapes and nature conservation, therefore directional lighting, either facing downwards or away from suitable features (vegetation), should be used in order to avoid light spillage into habitats to minimise the risk of disturbance to bats. Following advice outlined by the Institute of Lighting Professionals (2018), the following should also be implemented:

- The use of LEDs throughout the external lighting scheme.
- LEDs to have a peak wavelength of >550 nm.
- The use of downward directional luminaires.
- A warm white spectrum < 2700 Kelvin.
- Lights to have a 0% upward light ratio.

LIGHTING BREEAM CRITERIA
 The following relate to key BREEAM standards Ene 03 and Pol 04 to be implemented in the lighting strategy:

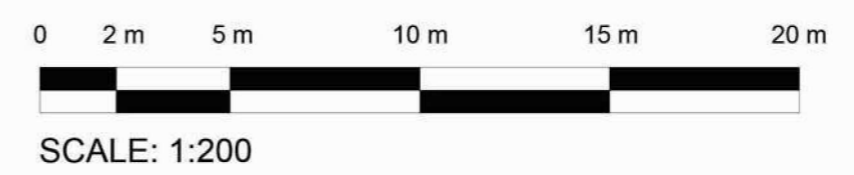
- Average initial luminous efficacy of not less than 70 lumens per circuit watt.
- Automatic control to prevent operation during daylight hours.
- All external lighting (except for safety/security) can be automatically switched off between 23:00 - 07:00.
- Presence detection in areas of intermittent pedestrian traffic (Passive Infrared sensor - PIR).
- External lighting to be designed in compliance with Table 2 Guidance notes for the reduction of obtrusive light (2011) of the Institute of Lighting Professional (ILP).
- If safety or security lighting is provided and will be used between 23:00 and 07:00, the system will comply with the lower levels of lighting recommended during these hours in Table 2 of the ILP guidance notes.

NB. Temporary lighting areas such as switching on/off or PIR lighting to be as close to 2700k spectrum as possible (i.e. 3000k or 2700k bulbs). Timed (more permanent) lighting restricted to 2700k.

- LIGHTING KEY**
- TB01 - Collingwood LED low voltage BL01' - or similar
 Wooden bollard LED downlighter
 W95 x D95 x H1000mm
 Colour Temperature 2700k (Path & forecourt)
 IP GRADE: IP65 Control: Timer
 - CM02 - Bega 'Ceiling luminaire' - or similar
 Canopy ceiling mounted LED downlighter
 Colour Temperature 3000k (Under canopy localised)
 IP GRADE: IP64 Control: On/Off & PIR (DALI)
 - LM03 - Bega 'Wall luminaires' - or similar
 Low wall mounted shielded LED
 Colour Temperature 3000k (Patio localised)
 IP GRADE: IP44 Control: On/Off & Timer



HEDGES
 MIXED NATIVE HEDGE - TROUGH INSTANT PLANTING
 HEIGHT: 100/120CM RANDOM MIX: BLACKTHORN, FIELD MAPLE, HAZEL, PLUM CHERRY, CRAB APPLE, PRIVET, DOGWOOD, ROWAN, HOLLY OR SPINDLE



Letter Revision	By	Date
the landscape partnership landscape architects urban design environmental planning		
Project Elleray Hall Site, Teddington	Bedford 01234 261315 <input checked="" type="checkbox"/>	Woodbridge 01394 380509 <input type="checkbox"/>
	London 020 3092 4141 <input type="checkbox"/>	Norwich 01603 230777 <input type="checkbox"/>
Drawing Landscape Proposals & LIGHTING PLAN	Job No. B21028	
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Do not scale off drawing. All dimensions & Levels are to be checked on site. Any discrepancies must be reported to the landscape architect immediately. Copyright THE LANDSCAPE PARTNERSHIP LTD		North 