

Norman Bromley Partnership LLP

consulting engineers in building services

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Abbey Road Phase 2 Proposed External Lighting



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1.0 **INTRODUCTION**

Norman Bromley Partnership were commissioned by Wates Construction to provide an Lighting Assessment to support the planning application for the proposed Abbey Road Phase 2, London NW6 4DW

The scheme comprises of a 2 storey building with a community centre to the ground floor and a health centre to the first floor.

The proposal also includes the landscaping of the site and provision of play area.



Figure 1 – Abbey Centre View

The London Borough of Camden Local Plan Policy A1 requires the submission of a lighting assessment which provides details of the external lighting and flood lighting including:-

- Hours of operation
- Light spillage
- Light levels
- Column heights
- Layout plan with beam orientation and light maps
- Equipment design
- Impact on nearby dwellings or roads and use of planning to mitigate effect.

This report has been prepared for information and exact details of the proposed lighting should be secured by way of a planning condition.

2.0 **PROPOSED EXTERNAL LUMINAIRES**

Type A



6m high, direct post mounted luminaire with wide road optic distribution having zero upward light complete with 2210 lumen output 4000K LED lamps as DW Windsor their Sophora 450 range, or similar.

Type B

6m high, direct post mounted luminaire with footpath optic distribution having zero upward light complete with 2210 lumen output 4000K LED lamps as DW Windsor their Sophora 450 range or similar. Image as above.

Type C



IP65 rated, square up / downlighter luminaire complete with LED lamps.

3.0 **LIGHTING CONTROL**

The external lighting circuit shall be contactor controlled and wired to perform the following functions:

- a) The photoelectric cell shall bring all selected luminaires 'on' if the natural light falls below a pre-determined low level and will turn 'off' when a suitable natural light level returns.
- b) The time switch shall turn all luminaires 'off' at the desired present time, as agreed with the London Borough of Camden.
- c) Luminaires to the building perimeter and the communal landscaped area shall be separately controlled.

4.0 LIGHT LEVELS AND LIGHT SPILLAGE

The drawings included in Appendix A indicate the light levels and light spillage to the site based on the luminaires detailed above.

The proposed external lighting design aims to provide a safe environment during the hours of darkness with minimal light pollution and spill light.

APPENDIX A

Site Plan indicating Lighting Levels

KEY
1.0 LUX
2.0 LUX
5.0 LUX
10 LUX
20 LUX





