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Client – Barchester Healthcare

Site Address:

Old Clayton Kennels,
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Washington,
West Sussex,
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External Lighting Design Statement – Planning Submission

This statement accompanies drawing no. 2166-HCL-ZZ-XX-DR-E-6000_External Electrical Layout_C01 and has been prepared to demonstrate that the lighting scheme has been carefully developed to provide essential illumination for safety and access, while minimising obtrusive light and environmental impact. The design complies with all relevant guidance and standards.

Design Approach and Compliance

The external lighting scheme has been designed in full accordance with the Institute of Lighting Professionals (ILP) Guidance Note 1 for the Reduction of Obtrusive Light (GN01), and is appropriate for Environmental Zone E2 (Rural/Low District Brightness Areas). All luminaires specified have a site-wide Upward Light Ratio (ULR) of 0%, ensuring no upward light is emitted and helping preserve dark skies and the amenity of surrounding areas.

Lighting Levels and Justification

The lux level plot shown on drawing no. 2166-HCL-ZZ-XX-DR-E-6000_External Electrical Layout_C01 demonstrates that light levels have been carefully set to comply with BS EN 12464-2:2014 – Lighting of Workplaces – Outdoor Workplaces:

- 5 lux average in the car park to ensure safe movement, visibility, and compliance with emergency egress and muster point requirements.
- 5 lux average along pedestrian pathways and perimeter escape routes, ensuring adequate visibility and safety for users during operational hours.

These levels reflect minimum standards required to safely support site operation during hours of use and cannot be reduced without compromising safety.

Minimising Light Spill and Environmental Impact

To limit light spill into neighbouring properties and adjacent green areas (including habitats), the scheme uses luminaires that do not emit upward light. Wall-mounted and column-mounted luminaires are designed to direct light downward and outward, reducing unnecessary spill beyond the intended illuminated areas.

Additionally, to further reduce the potential for backward light spill near sensitive boundaries, all perimeter bollard luminaires will be fitted with back spill guards. This added shielding will help protect nearby ecological areas from obtrusive light and minimise impact on local wildlife and vegetation.

Lighting Controls and Operational Hours

To reduce energy consumption and environmental impact, the external lighting is controlled via photocell and timeclock controls. All external lighting will automatically switch off between 11:00 PM and 7:00 AM, ensuring the site remains dark overnight when not in use.

Conclusion

This lighting scheme represents a considered and compliant approach that meets the functional and safety requirements of BS EN 12464-2, adheres to ILP GN01 for Environmental Zone E2, and includes specific measures—such as back spill guards and strict lighting controls—to limit obtrusive light and protect the surrounding environment.