

Wickenden Farm – Lighting Plan

The only external lighting fixture to be used at Wickenden Farm is the ‘Kichler Small Up or Down Sconce, Centennial Brass - 15784CBR’. The product specifications are shown below:

LED Retrofit Centennial Brass Deck Light Deck and Patio | 12 V

15784CBR

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SPECIFICATIONS

Certifications/Qualifications	
ADA Compliant	No
Prop65	Yes
DarkSky Approved	No
Location Rating	Wet
kichler.com/warranty	
Dimensions	
Height	4.25"
Length	5"
Width	2.25"
Weight	2 LBS
Electrical	
Input Voltage	12 V
Light Source	
Light Source	Bulb
Lamp Included	Not Included
# Of Bulbs/LED Modules	1
Max Or Nominal Watt	7 W
Lamp Type	MR16
Socket Type	GU5.3 (5.3mm Bi Pin)
Mounting/Installation	
Interior/Exterior	Exterior Product
Mountable On Wall Or Ceiling	No
Mounting Weight	2 LBS
Modular	No
Lead Wire Length	84
Wire Connectors	Wire Nuts

FIXTURE ATTRIBUTES

Housing/Glass	
Primary Material	Brass
Diffuser Description	Lens
Shade Included	No
Shade Dimensions	2.17
Product/Ordering Information	
Sku	15784CBR
Finish	Centennial Brass
UPC	783927586269
Finishes	

 Centennial Brass

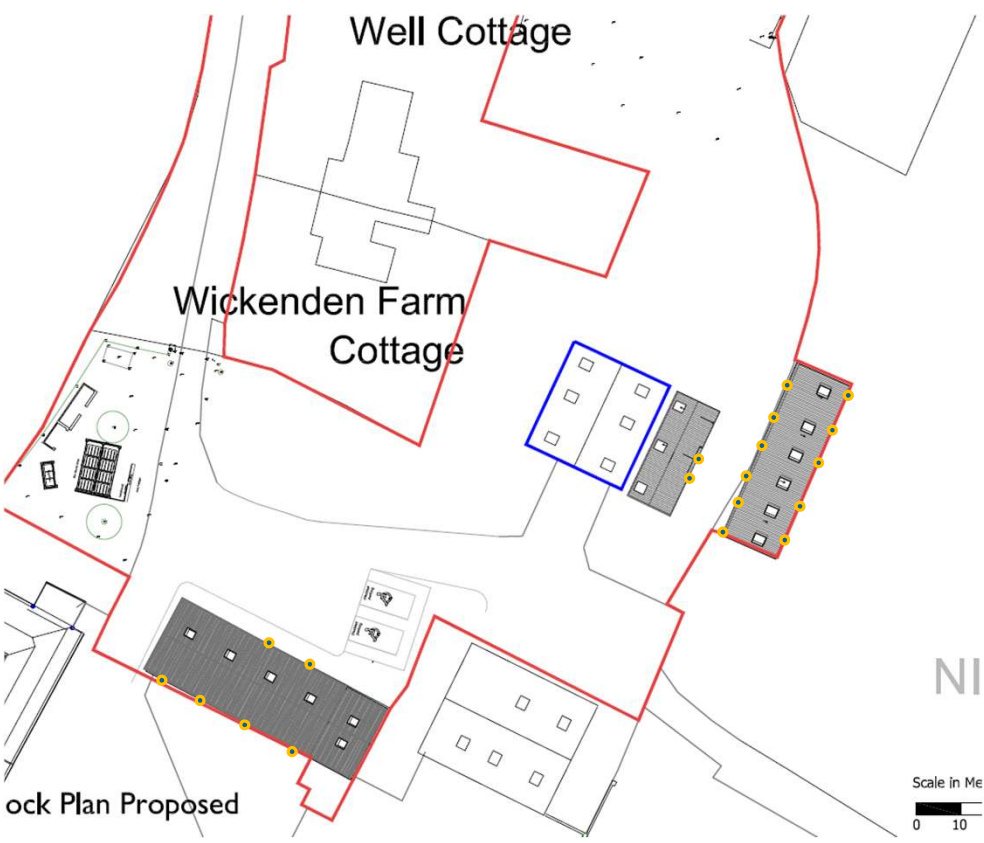


ALSO IN THIS FAMILY

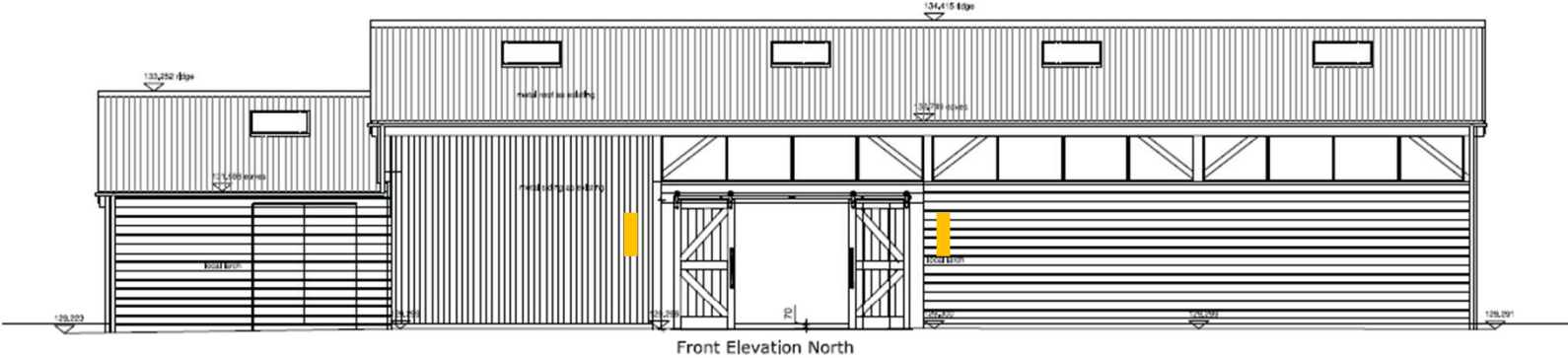


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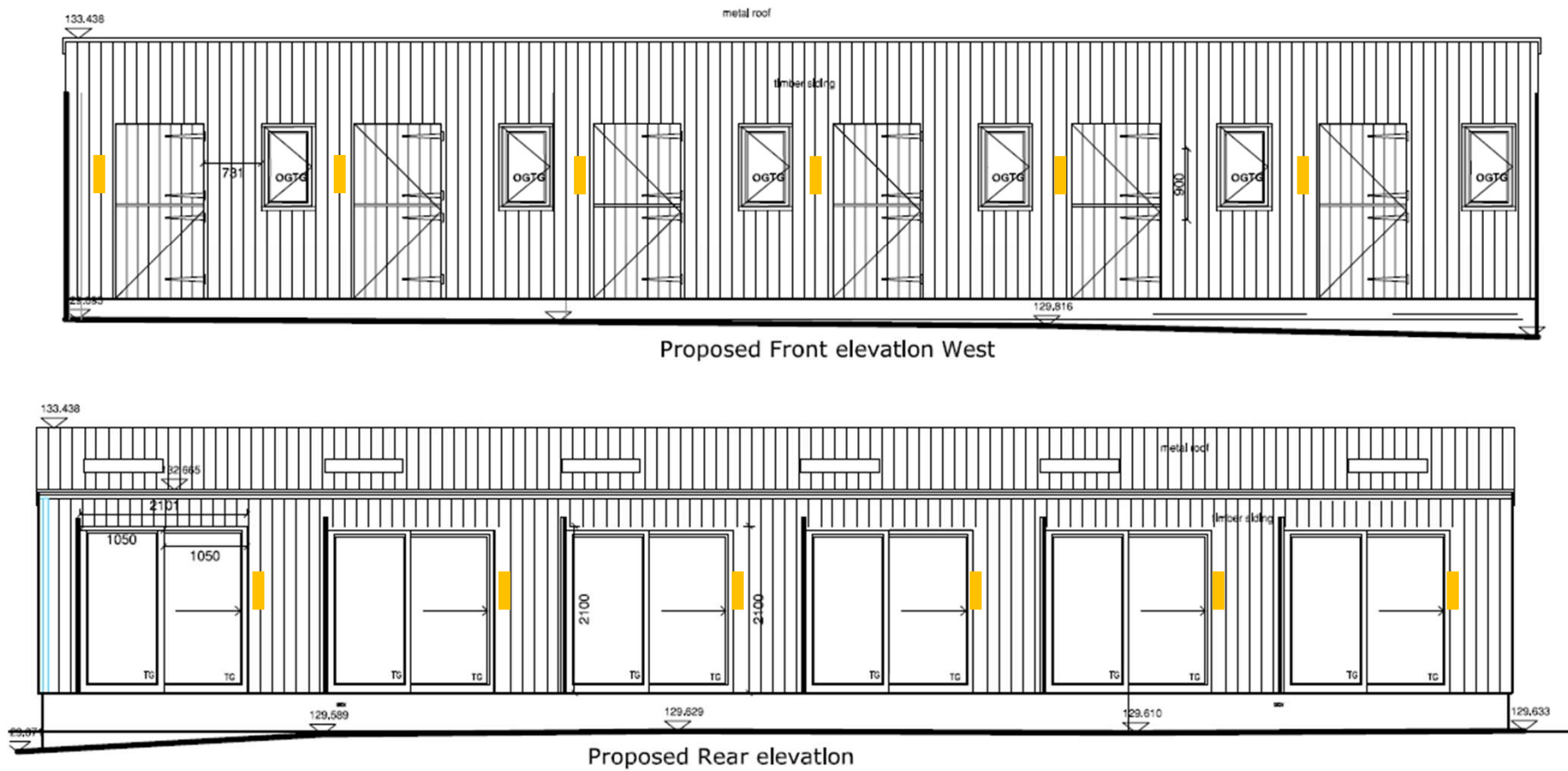
The Portreath lights will be used in the locations identified on the site plan below and the elevations shown on the following pages.



Large Barn / Workshop



Accommodation



Small workshop



Use of Lights

The proposed lights use MR16 7w LED Bulbs. These produce between 300 – 350 lumens which is considered a low to moderate level of light. The lights will be fixed at shoulder height and directed vertically out of the bottom of the fixture only at a very low level. The lights will illuminate a small area below and are designed to provide a low level of luminance for safety.

The lights on the accommodation will only be used by the occupants of the room meaning they will not be operated when vacant.

The lights on the workshop buildings will only be used when occupied by classes and / or members of the on-site team and will be switched off when the buildings are not in use.

Compliance with Guidance Note: 08/23

Condition 10 requires the lighting design to be in accordance with 'Guidance Note: 08/23 (Institute of Lighting Professionals)'. This document is published by the Bat Conservation Trust to guide lighting at development located in areas where bats may be present.

Paragraph 3.6 of the guidance note states that a “*proportional approach to assessing lighting impacts on wildlife is important.*”

The Preliminary Ecological Appraisal (PEA) which supported the planning application concluded that all the buildings on site had a negligible potential to support roosting bats and noted that there is no impact on any trees on site resulting from the development. The PEA recommended the following in respect of lighting:

- Lighting should only be installed if there is a significant need;
- Lighting should be avoided near trees and hedgerows, with light angled away from these areas, bats use linear features such as hedgerows to commute across the landscape to forage;
- Lights should have focused luminance on their target area, preventing light spill and pollution into other areas of the site and local area.
- Dark buffer zones can be used as a good way to separate habitats or features from lighting by forming a dark perimeter around them. Buffer zones rely on ensuring light levels within a certain distance of a feature do not exceed certain defined limits; and
- Light levels should be kept low. All luminaires should lack UV elements when manufactured and metal halide, fluorescent sources should not be used. LED luminaires should be used where possible due to their sharp cut-off, lower intensity, good colour rendition and dimming capability.

Taking each in turn:

- The lighting proposed on site is the minimum required for safety purposes, installed to illuminate doorways to the workshops and accommodation areas only. There is no other external lighting proposed on site.
- The lighting is located only on existing buildings as shown in this document. The nearest trees / hedgerows are more than 60m from the proposed light source. The bulbs are LED 35w with a very low lumen level of approximately 230 – 250lm
- The lights are focused to only illuminate the wall immediately below the light source.
- Bats might use the boundary trees and hedgerows to commute or forage. The lights will not spill from the buildings given the low lumen level and the angle of the fixtures, thereby maintaining a buffer to the boundary.
- There will be no UV elements and the light levels will remain low. There will be no fluorescent source of light. The lighting will only be LED.



Visual representation of proposed lights at 230lm