

Sensitive Boundaries - Bat Highways

Extra care shall be taken when designing the lighting around these highways to ensure an acceptable level of light spill (0.2lux on the horizontal plane & 0.4 lux on the vertical plane) is achieved.

Directional throw of lighting, shielding, wattage and colour areas to concentrate on when producing a detailed design around these areas.

MUGA, Parks, Pump Track & Garden

Directional, dark sky bollards to be utilised for pathway lighting

Pathways - 5lx 0.25Uo
Ramps - 10lx 0.4Uo

Sports pitch lighting to be designed to Lighting Classification III according to LG4.

Minimal decorative and feature lighting to be provided in parks and garden. No up lights to be used in this area to ensure dark bat highways.

Existing lighting columns to be retained along the road to the west.

See drawing 32486-STN-XX-XX-SK-E-0002 for detailed lighting design of the proposed spine road and the effect of this lighting on the bat highway to the north.

Existing Aldi and Car Park
Existing lighting to remain

See Hillsboro South draft lighting plan for detailed design of the park

The area has been designed to have 10 lux 0.25 Uo on the paths and subtle decorative lighting highlighting features throughout the park

Newton Primary School - New Field

Lighting in the new school field expected to be minimal. It is not foreseen that the field will be in used during the evening/night-time but the court will need to be lit to 75 lux 0.5 Uo if it is planned to be used in the darker months. The lack of lighting will help reduce nuisance lighting those residents nearby. However, some lighting may need to be installed around the field for safety concerns.

Coney Beach Public Car Park
Roads - 10lx 0.4Uo
Parking Spaces - 10lx 0.4Uo
Pathways - 5lx 0.25Uo

Shielding to be used to ensure dark bat highways.

Newton Primary School
Area outside of scope -
Existing lighting to remain

Sandy Bay Ecological Remedial Works and Drainage

Lighting to only be provided to pathways utilising directions, dark sky bollards. Lighting should be installed only where necessary to keep the bat highway dark.

Pathways - 5lx 0.25Uo

Some safety/emergency lighting to be installed over drainage manifolds.

Sand Bay - Residential Development

Roads - 10lx 0.4Uo
Parking Spaces - 10lx 0.4Uo
Pathways - 5lx 0.25Uo

Decorative lighting to be provided in green social areas

Column heights, position and angle to be co-ordinated with residential windows to ensure minimal light intrusion into apartments.

A bat highway runs around the northern and eastern edge of this development, lighting shields will be required to ensure 0.2 lux on the horizontal and 0.4 lux on the vertical on these boundaries.

One way system throughout residential development.

No lighting expected to be installed in the sand dunes.

Safety lighting to be provided to mini golf course.

Pathways to be lit using bollards

Pathways - 5lx 0.25Uo

Decorative and feature lighting to be provided throughout.

No lighting expected to be installed throughout the sand dunes & Rhych Point-area to remain unit.

Flood Defences
Decorative and feature lighting to be provided as this will be used as a social area. Area to be lit enough to ensure safety but with the aim to keep light spill onto the houses and ocean to a minimum - 10 lux 0.25 Uo.
Higher lux levels are required on the change of level down onto Macworth Road - 20 lux 0.4 Uo.

Coney Beach South - Residential Development

Column lighting to be provided throughout

Roads - 10lx 0.4Uo
Parking Spaces - 10lx 0.4Uo
Pathways - 5lx 0.25Uo

Decorative lighting to be provided in green social areas

Column heights, position and angle to be co-ordinated with residential windows to ensure minimal light intrusion into apartments

Existing lighting columns along the Eastern Promenade to be retained.

TRT Chalice - 83W - 4000K

TRT can reduce the wattage of the existing luminaires on site if required. Internal shields can also be installed on site to limit light spill to the water.

Consideration to be given to reducing the colour temperature to 3000K to match the rest of the development. TRT can retrofit new LEDs and driver into the existing casing.

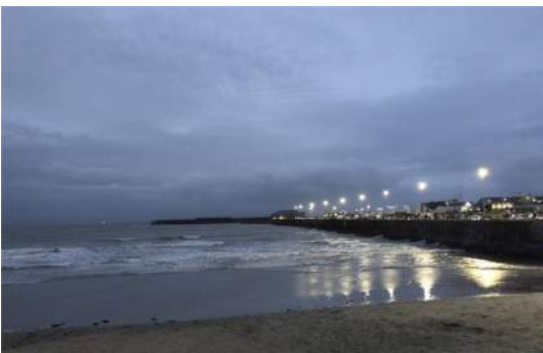


Image of luminaires currently installed



Column lighting to be provided for all roads, roundabouts and main pedestrian pathways. Existing columns to be retained on the north side of the roundabout.

Roads - 10lx 0.4Uo
Parking Spaces - 10lx 0.4Uo
Pathways - 5lx 0.25Uo

Decorative lighting shall be used in all amenity areas, ensuring a safe level of lighting throughout.

Bench lights, stair lights, uplights to highlight feature trees and interactive decorative projector lighting shall be utilised throughout.

1. A colour temperature of 3000K to be used for all functional lighting. This includes areas such as: roads, roundabouts, junctions and main pedestrian pathways.
2. A colour temperature of 2000-2700K to be used in all amenity area lighting. This includes areas such as: green parks, leisure parks, at decorative lighting and ecological areas of concern.
3. Where ecology is of concern, minimal lighting shall be installed with a colour temperature of less than 3000K. Internal/external shield are to be installed where applicable to ensure minimum light spill.
4. Development has been considered as an E3 environmental zone.
5. See attached document for examples of TRT Lighting products.

NOTES:

NOT FOR SITE PURPOSES: This drawing is a general arrangement plan only and is not intended for site purposes.

SCALE: Do not scale from this drawing.

SETTING OUT: All walls, kerbs, levels, dimensions to be agreed on site. Do not use the information on this drawing without checking all dimensions on site. Any discrepancies between drawings, specifications and site works are to be reported to The Urbanists. Order of construction and setting out is to be agreed on site.

CHECK: This drawing must be the latest revision, read in conjunction with all other drawings, details, specifications and schedules. All dimensions are in millimetres unless otherwise stated. Where any contradiction or uncertainty arises between the drawings, order the schedule of works, it is the contractor's responsibility to seek verification from The Urbanists before proceeding. The claims will be met by The Urbanists, where the contractor continues with a discrepancy of such contradiction.



Project
Portcawl Waterfront Regeneration

Sketch Title
Electrical Services Lighting Master Plan

Status
For Information

Stantec Job No
333700659

Drawn AB	Scale NTS	Date 07/11/2025
--------------------	---------------------	---------------------------

Sketch Number PWR-STN-XX-XX-DR-E-2000	Revision P02
---	------------------------



Street Lighting



Aspect Gen 2



Optio



Oaken



Aspect Mini





Amenity Lighting



Circa 7



Circa Y



Circa



Luz



Chalis





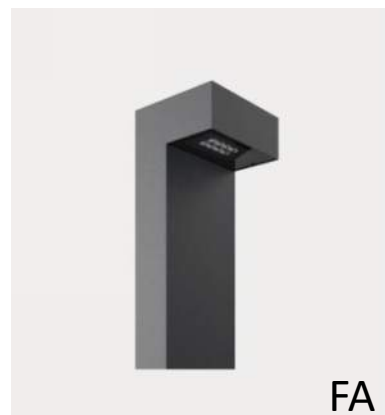
Bollard Lighting



Via



iLara



FA

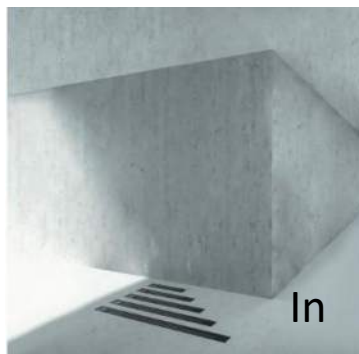




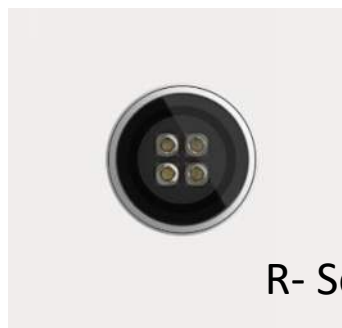
Inground Lighting



Iservo



In



R- Serie



Confine

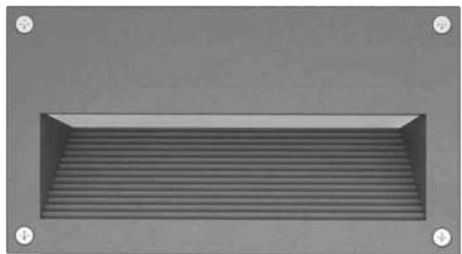


Traccia



TRT LIGHTING

Feature Lighting



iNerra



iRinga



Chameleon



Chameleon



iErgo



Altura handrail system