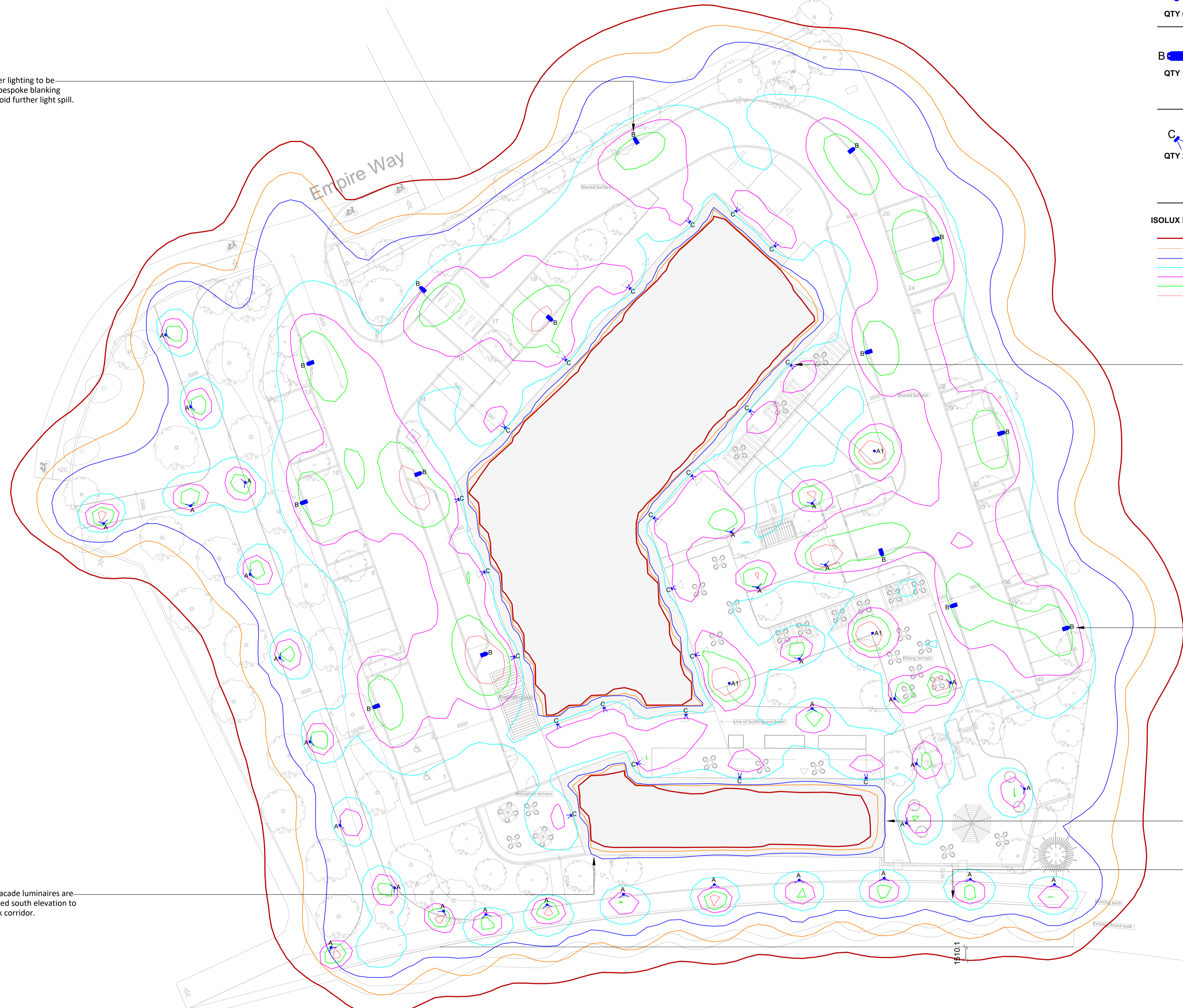



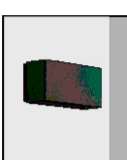
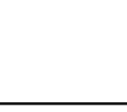


All perimeter lighting to be fitted with bespoke blanking plates to avoid further light spill.

No wall or facade luminaires are to be installed south elevation to protect dark corridor.



| | | |
|---------------|--|---|
| A | iWAY 1000mm BOLLARD - With 180° baffle and anchor plate fixing. Also with a special 2700K LED. |  |
| QTY 30 | BW79(SP2700K) + X023 + B513 | |
| A1 | iWAY 1000mm BOLLARD - With anchor plate fixing. Also with a special 2700K LED. |  |
| QTY 03 | BW79(SP2700K) + B513 | |
| B | STREET - Pole top lantern with ST1 optics. 21.9W 2520lm 2200K. Also with programmable DALI integral driver and pole top adaptor. Also with a 6mtr column, spec to be agreed. |  |
| QTY 15 | | |
| C | N399 + X587 + 6m Pole |  |
| QTY 22 | ALLURE - Wall mounted (4m FFL) asymmetric floodlight (Downlight only) with integral DALI driver. 2700K 10.7W 945lm. Also with flush fitting guard. Colour TBC. Factory programmed for 50% light output. |  |
| | S686(SP50%Lm) + X801 | |

ISOLUX LINES

| |
|--------|
| 0.2lux |
| 0.5lux |
| 1lux |
| 5lux |
| 10lux |
| 15lux |
| 20lux |

All wall mounted/facade luminaires are to be downlight only.

All perimeter lighting to be fitted with bespoke blanking plates to avoid further light spill.

Future internal lighting is to consider light spill from (specially from the South elevation) due to close proximity to the waters edge.

Ecologists preferred lighting method in this area was for in ground luminaires, although these types of luminaires are not suitable for this area as they dont achieve lux and uniformity levels required. Bollard lighting is proposed for walkway adjacent water.

Do not scale from this drawing.
Verify dimensions by site measurement.
Read this drawing in conjunction with the latest architectural and structural drawings.
This drawing is based on the following information:-

- Notes:
1. This drawing shall be read in conjunction with all Engineering Services drawings for this contract.
 2. All works indicated on this drawing shall be carried out in accordance with the relevant Engineering Services specification.
 3. This drawing must be reproduced in colour.
 4. The lighting design requirements are expected to meet the requirements set out in BS EN 12464-2.
 5. The lighting has been designed without reference to a risk assessment and this would need to be provided by the Client prior to developing the design further.
 6. Lighting to be controlled via Photocell & Time clock.
 7. Lighting will be provided with DALI dimmable control gear to enable luminaires to be dimmed, if required. Requirements for dimming should be confirmed by the Client and confirmed at the next stage of design.
 8. Some of the pathways are lit closer 10lux than required 5lux, this is because of the proximity of the Proximity of a car park / road, which are lit to the higher level.
 9. All Luminaires are full cut-off and therefore do not contribute to light pollution.
 10. To achieve the required level of lux & uniformity and given the layouts of pathways etc. It was necessary to use wall mounted optic (Allure) to be provide supplementary light.

The proposed lighting layout has been designed to facilitate wildlife and bat movement throughout the site and to maximise biodiversity benefits. Therefore if the lighting is to be altered for any reason, an experienced ecologist must be consulted in order to ensure it is still fit for purpose.

| | | | | |
|-----|----------|-------------------------------------|---------|----------|
| P03 | 05/06/24 | Updated To Suit Architects Comments | MW | SR |
| P02 | 26/04/24 | Updated Following Ecologist Review | MW | SR |
| P01 | 05/04/24 | For information | MW | SR |
| Rev | Date | Description | Checked | Approved |



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Client
Cardiff Peninsula Consortium Ltd

Project
Cardiff Bay Peninsula

Drawing Title
Electrical Services
Cardiff Bay Peninsula
Plot 1
Lighting Layout

| | | | |
|------------------------------------|-------------|----------------|---------|
| Scale | Sheet Size | Designed | Checked |
| 1:250 | A1 | MW | SR |
| Project Status | Suitability | HM Project No. | |
| FOR INFORMATION | | 35172 | |
| Drawing No. | Rev | | |
| 35172-HML-CH-00-DR-E-172001 | P03 | | |