

Maro Developments

Mercury 62

External Lighting Statement

Last Updated 01/08/2022

Ref:3944-HAN-ZZ-XX-RP-MEP-006

Document Authority

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Date	01/08/2022
Checked by	J Walker
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Approved by	J Walker
Date	01/08/2022

Document History

Issue	Issue Date	Status
Issue 1	01/08/2022	Formal Issue for Planning

1.0 Introduction

This statement has been produced on behalf of Maro Developments in support of the planning submission for the proposed new 26353m² warehouse unit.

1.1 Design Brief

The warehouse area is to be shell only with no internal lighting provided. Lighting will be installed within the core and office areas.

Artificial lighting will be provided externally to provide sufficient external lighting required during hours of darkness.

Light pollution will be avoided through the careful selection, positioning, and aiming of luminaires.

Lighting will be carefully positioned to enhance final exits from the building, pedestrian walkways, steps, and hazards.

Consideration will also be given to emergency lighting although EN1838 and BS5489:2016 suggest this is required only within 2m of final exit doors and to a designated final place of safety, often known as a 'muster point'.

1.2 Design Standards

Designs will be to current BS/EN standards with CIBSE/SLL best practice guidance also taken into consideration.

- ILE Guidance Notes for the Reduction of Obtrusive Light.
- The SLL Code for Lighting.
- British Standards.
- BREEAM Requirements.

1.3 Lighting Levels

The below table gives the minimum external lighting Lux levels that will be achieved.

Area	Min Average Maintained Illuminance
Walkways exclusively for pedestrians	5 Lux
Traffic areas for slow-moving vehicles	10 Lux
Regular vehicle traffic	20 Lux
Pedestrian passage, Vehicle turning, loading, and unloading points	50 Lux

*Note the above applies to external lighting lux level requirements

1.4 Luminaire Types

A combination of column-mounted and building-mounted luminaires will be provided to illuminate the roads and footpaths.

Wall mounted luminaires will be provided to illuminate the building entry and exit points.

Luminaires will include the necessary optics, shields, and baffles required to control light distribution.

LED energy-efficient lamp sources will be used.

Average initial luminous efficacy of not less than 70 luminaire lumens per circuit Watt.

1.5 Ecology

Lighting should be designed to minimise disturbance to wildlife by avoiding potentially suitable foraging habitats and movement corridors such as tree lines, plants, and areas of open water where feasible.

A combination of the following measures should also be used:

- Avoid unnecessary lighting especially around, the boundary of the development
- Use low-level and/or hooded lamps, baffles, and shields where necessary to ensure spill is minimised
- Use low-intensity lighting where possible

The following measures will be taken to ensure mitigation of lighting impacts on wildlife:

- Lighting will be positioned to avoid sensitive areas
- LED lamps will be utilised throughout
- Lighting will only be directed where it is required, and baffles or louvres will be added to minimise light spill
- All lighting will be computer modelled to predict light spill and patterns
- Asymmetric beams will be used on all columns

1.6 Lighting Control

The external lighting installation will be controlled by a photocell and time clock arrangement.

Photocell control will ensure external lighting is switched off during daylight hours.

Time clock control will enable selected circuits to be switched off during the night.

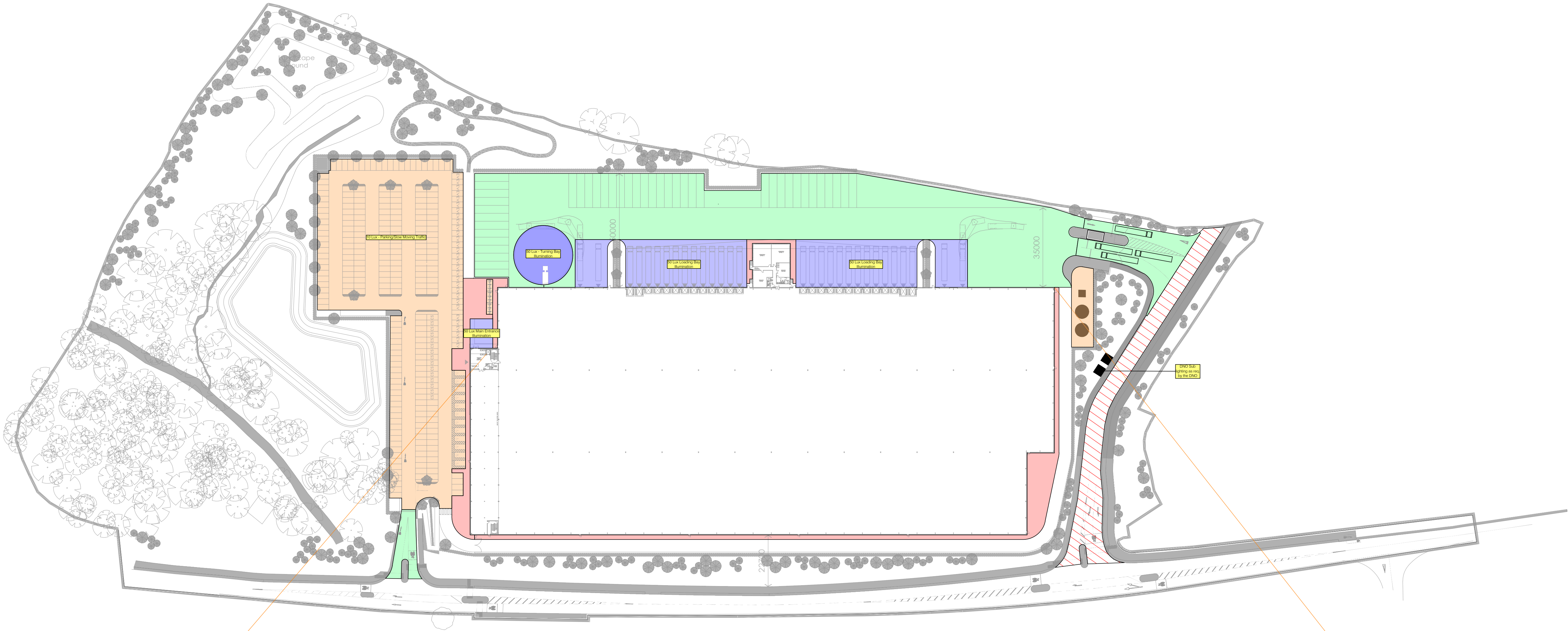
Presence detection shall be provided in areas of intermittent pedestrian traffic.

A manual override switch will be provided to allow the lighting to be turned on/off.



Key

- 5 lux
- 10 lux
- 20 lux
- 50 lux
- No Provision
- Adoptable by Highways

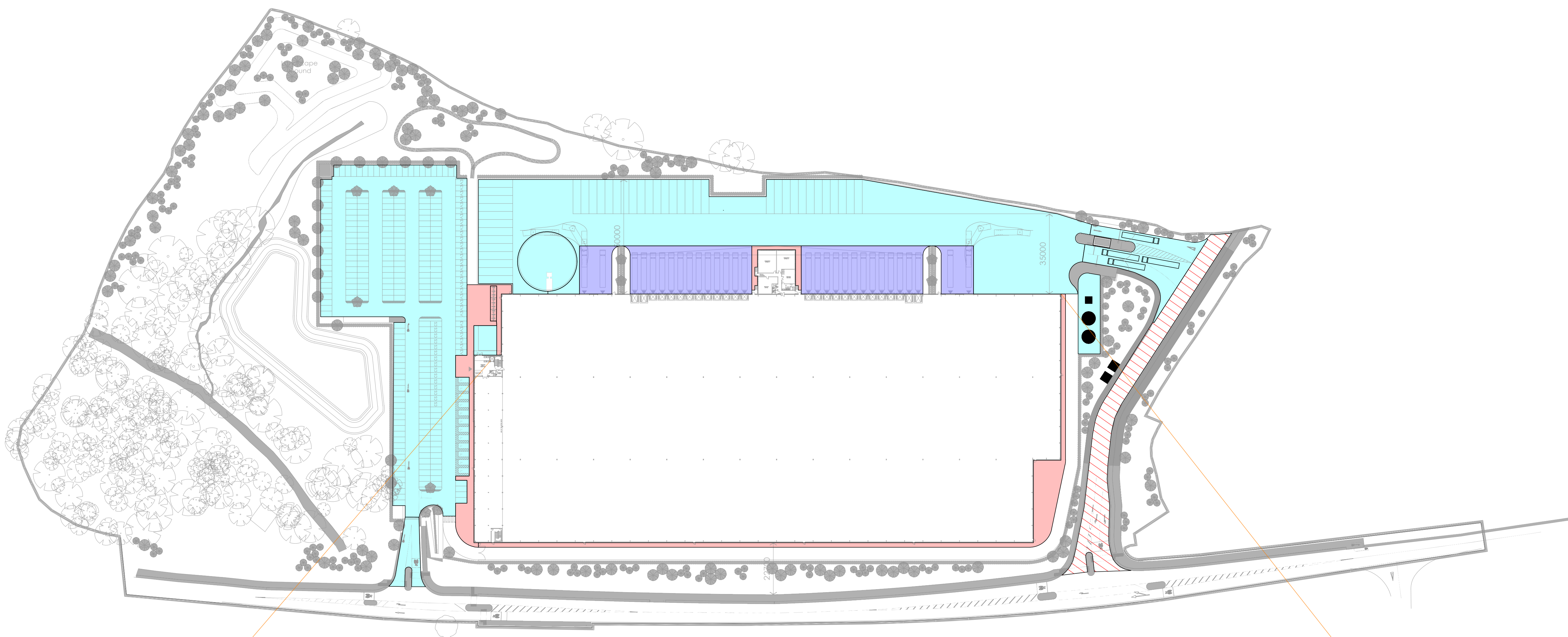


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Issue	Description		Issue
Date			Checked
			
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Client			
Maro Developments			
Project			
Mercury 62 Cronton Road			
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Stage 2 - Concept Design			
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External Lighting Design Strategy			
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-  Presence Detection
-  Timeclock, Photocell & Manual Override
-  Manual Override & Absence Detection
-  No Provision
-  Adoptable by Highways

Notes

1. External Lighting Methodology to be agreed and confirmed.



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Notional lighting layout. Lighting positions and spacing to be verified via lighting software calculation at Stage 3.

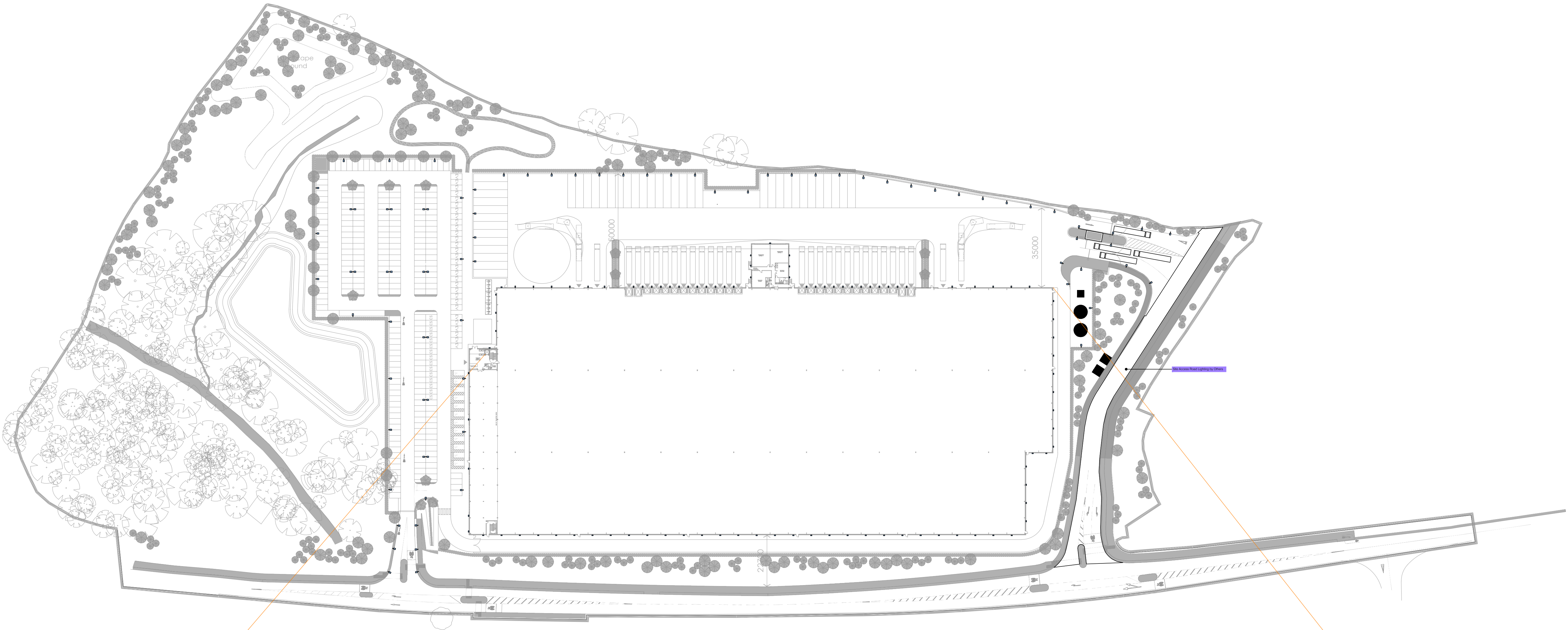
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Key

- LC1 23W 3120lm CircLED Multi External Floodlight by SG
- LC2 42W 5820lm CircLED Multi External Floodlight by SG
- W1 14W 1000lm Wall Mounted Luminaire by SG
- H-W2 75W 9290lm Building mounted Floodlight by SG
- H-W3 192W 27060lm Building mounted Floodlight by SG

Notes

- Luminaire Type to be Agreed.
- Lighting Layouts are notional and subject to lux level calculations.



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Client: Maro Developments			
Project: Mercury 62 Cronton Road			
Design Stage: Stage 2 - Concept Design			
Drawing Title: Unit D1 Notional External Lighting Layout			
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