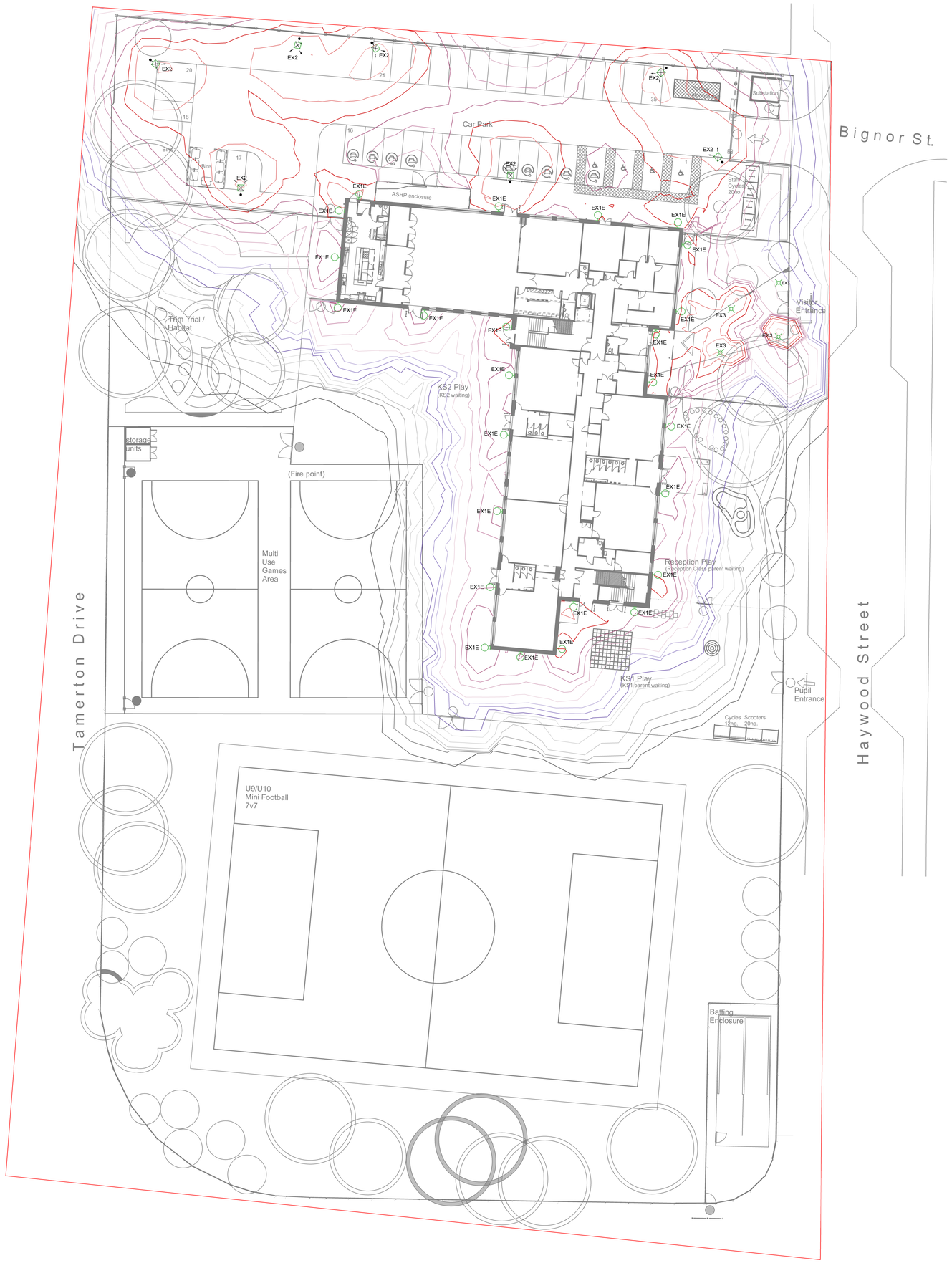


LEGEND / SCHEDULE



EX1E — Kinglsher Quarto 2.0 Surface Mounted LED Bulkhead c/w Asymmetrical Street Optic - Mounted at 3m - 7.5W - 806lm



EX2 — Kinglsher Viva City Pro Post Top LED Floodlight c/w Asymmetrical Forward Throw Optic - Mounted on 5m Column -40W - 5803lm.



EX3 — Kinglsher Deco 2.0 LED Bollard - 7.5W - 930lm

Isolux Lines Key

- 30 Lux
- 20 Lux
- 15 Lux
- 10 Lux
- 7.5 Lux
- 5.0 Lux
- 3.0 Lux
- 2.0 Lux
- 1.5 Lux
- 1.0 Lux
- 0.75 Lux
- 0.5 Lux
- 0.3 Lux
- 0.2 Lux
- 0.15 Lux
- 0.1 Lux

LIGHTING STUDY (OLIVE PRIMARY SCHOOL)

THE PROPOSED DEVELOPMENT SITE IS LOCATED ON HAYWOOD STREET, MANCHESTER .

CLANCY CONSULTING HAS BEEN COMMISSIONED TO CARRY OUT A LIGHT POLLUTION STUDY REPORT AND EXTERNAL LIGHTING DESIGN INTENT SCHEME FOR THE PROPOSED DEVELOPMENT.

WE HAVE BEEN PROVIDED WITH AN INDICATIVE CONCEPT SITE PLAN FROM CONLON.

THE PROPOSAL INCLUDES EXTERNAL CAR PARKING SPACES, FOOTPATHS AND BUILDING PERIMETER LIGHTING TO THE SCHOOL.

THE PROPOSAL FOR THE SITE IS TO INSTALL NEW LED WALL MOUNTED LUMINAIRES TO ILLUMINATE THE FOOTPATHS AROUND THE NEW BUILDING. THIS BULKHEAD WILL INCLUDE FOR AN EMERGENCY LIGHTING FACILITY TO PROVIDE ESCAPE ROUTE LIGHTING TO MUSTER POINT. 5M COLUMNS WITH POST TOP MOUNTED STREETLIGHTS ARE PROVIDED TO ILLUMINATE THE CAR PARKING SPACES AND BOLLARDS ARE PROPOSED TO INCLUDE THE VISITOR ENTRANCE AREA.

THERE IS NO PROVISION OF LIGHTING TO THE MUGA PLAYING AREAS.

A LIGHTING DESIGN HAS BEEN ADDED TO THE PROPOSED DEVELOPMENT OF THE SITE AS ILLUSTRATED FROM THIS DRAWING AND ISOLUX PLOT.

THE LIGHTING SIMULATION PROGRAM USED FOR THIS PROJECT DOES NOT CONTAIN REALISTIC MODELS OF THE EXISTING AND NEW TREES, AS THESE CANNOT BE MODELED WITHIN THE SIMULATION PROGRAM DUE TO THE COMPLEX CHARACTERISTICS FOR VARIOUS TREE SPECIES AND IS BEYOND THE CAPABILITIES OF THE SIMULATION PROGRAM. THEREFORE, NO VEGETATION HAS BEEN INCLUDED WITHIN THE CALCULATION AND DOES NOT PROVIDE AN INDICATION OF THE PROPOSED TREE BARRIERS MITIGATING LIGHT POLLUTION FROM THE SITE.

THERE IS NO SPECIFIC GUIDANCE ON THE CONTROL OF LIGHT POLLUTION, HOWEVER LIGHT POLLUTION MAY BE CURRENTLY REGARDED AS A 'NUISANCE' UNDER COMMON LAW, BUT IT IS NOT LISTED AS A STATUTORY NUISANCE IN THE ENVIRONMENTAL PROTECTION ACT 1990. WE HAVE TAKEN GUIDANCE FROM PROFESSIONAL BODIES' GUIDANCE NOTES AND POLICIES.

THE SCHEME HAS BEEN ASSESSED BY US IN ACCORDANCE WITH THE ILP (INSTITUTION OF LIGHTING PROFESSIONALS) GUIDANCE NOTES FOR THE REDUCTION OF OBTRUSIVE LIGHT GN01 AS E3 SMALL TOWN CENTRES OR SUBURBAN AREAS. THIS TAKES INTO ACCOUNT THE PROPOSED FUTURE HOUSING DEVELOPMENT TO BE ADJACENT TO THE SITE.

THE BASIS FOR THIS ASSESSMENT IS THE GUIDANCE GIVEN BY THE ILP. AN EXTRACT FROM THE DOCUMENT PROVIDES AN OVERVIEW OF THE CATEGORIES OF "ENVIRONMENTAL ZONES" HAS BEEN INCLUDED FOR REFERENCE ABOVE AND THE CLASSIFICATION FOR THIS PROJECT HIGHLIGHTED IN RED.

A DETAILED LIGHTING ASSESSMENT AND SPECIFICATION OF BOTH LUMINAIRE AND MOUNTING ARRANGEMENTS (INCLUDING ELEVATION ANGLES) WOULD BE CLOSELY CONTROLLED AS IT IS THE LUMINAIRE THAT CONTROLS THE DIRECTION AND INTENSITY OF THE LIGHT BEAM, AND THUS ITS ENVIRONMENTAL IMPACT. THE ULOR (UPWARD LIGHT OUTPUT RATIO) OF LUMINAIRES WOULD BE ASSESSED TO ENSURE THE RATIO OF LIGHT EMITTED AT AND ABOVE THE HORIZONTAL TO THE TOTAL LIGHT EMITTED IS WITHIN THE GUIDELINES IN THE ENVIRONMENTAL ZONES CLASSIFICATION. THE ULOR FOR VARIABLE-ANGLE LUMINAIRES WOULD BE MODELED TO ENABLE THE CORRECT SETTINGS TO BE CHOSEN TO MITIGATE THE LIGHT POLLUTION AND THE ELEVATION ANGLES OF THE LUMINAIRES RECORDED FOR INCLUSION INTO THE DESIGN SPECIFICATION. THE LATER INFORMATION WOULD BE PROVIDED DURING THE DETAILED DESIGN PROCESS AND BY THE CONTRACTORS DESIGNER PRIOR TO COMMENCING THE INSTALLATION.

IT IS THEREFORE CONCLUDED THAT A SCHEME DESIGN INTENT IS IN ACCORDANCE WITH THE GUIDANCE AVAILABLE WOULD NOT BE REGARDED AS TO OCCASION LIGHT POLLUTION.

THE INCLUDED SCHEME AS DRAWN IS PROVIDED FOR INDICATIVE PURPOSES ONLY.

SAFETY HEALTH AND ENVIRONMENTAL INFORMATION BOX

Construction Risks

- Hitting live services - Cat scans, trial digs, visual inspections and verification of existing live services locations from utility drawings. Ensure these are fully decommissioned and made safe.
- Open Excavations / trenches - Contractor to cordon off areas with appropriate barriers and signage.

Maintenance/Cleaning Risks

- Power supplies shall be made live prior to the end of the project to allow for testing and commissioning of services installations. All testing / commissioning to be carried out by competent, suitably trained persons.

Demolition/Adaption Risks

- Contaminated ground water. Check SI information prior to starting excavations and determine requirements for dig and isolations.

In addition to the hazards / risks normally associated with the type of work detailed on this drawing - the contractor is to take note of the above & also the hazards identified in the risk assessment document. It is assumed that all works detailed on this drawing will be performed by a competent contractor working, where appropriate, to an approved method statement.

Rev	Date	Description	By	Check	App.
1	05/01/23	Preliminary issue	BY	SD	SD

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ALL DIMENSIONS ARE IN MILLIMETRES UNLESS STATED OTHERWISE.
ALL LEVELS ARE IN METRES UNLESS STATED OTHERWISE.
DO NOT THINK LAYERS THAT HAVE BEEN FROZEN.

Client: Conlon Construction Limited

Project: Olive Primary School Manchester

Office: Altrincham

Discipline: Electrical

Title: External Lighting & Lux Plot Layout

Scale @ A0: 1:200

Status: Preliminary

clancy consulting

www.clancy.co.uk

Project No.	Originator	Building/Zone	Level
7-10197	CCL	XX	SS

Type	Discipline	Drawing No.	Revison
DR	E	6300	P1

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