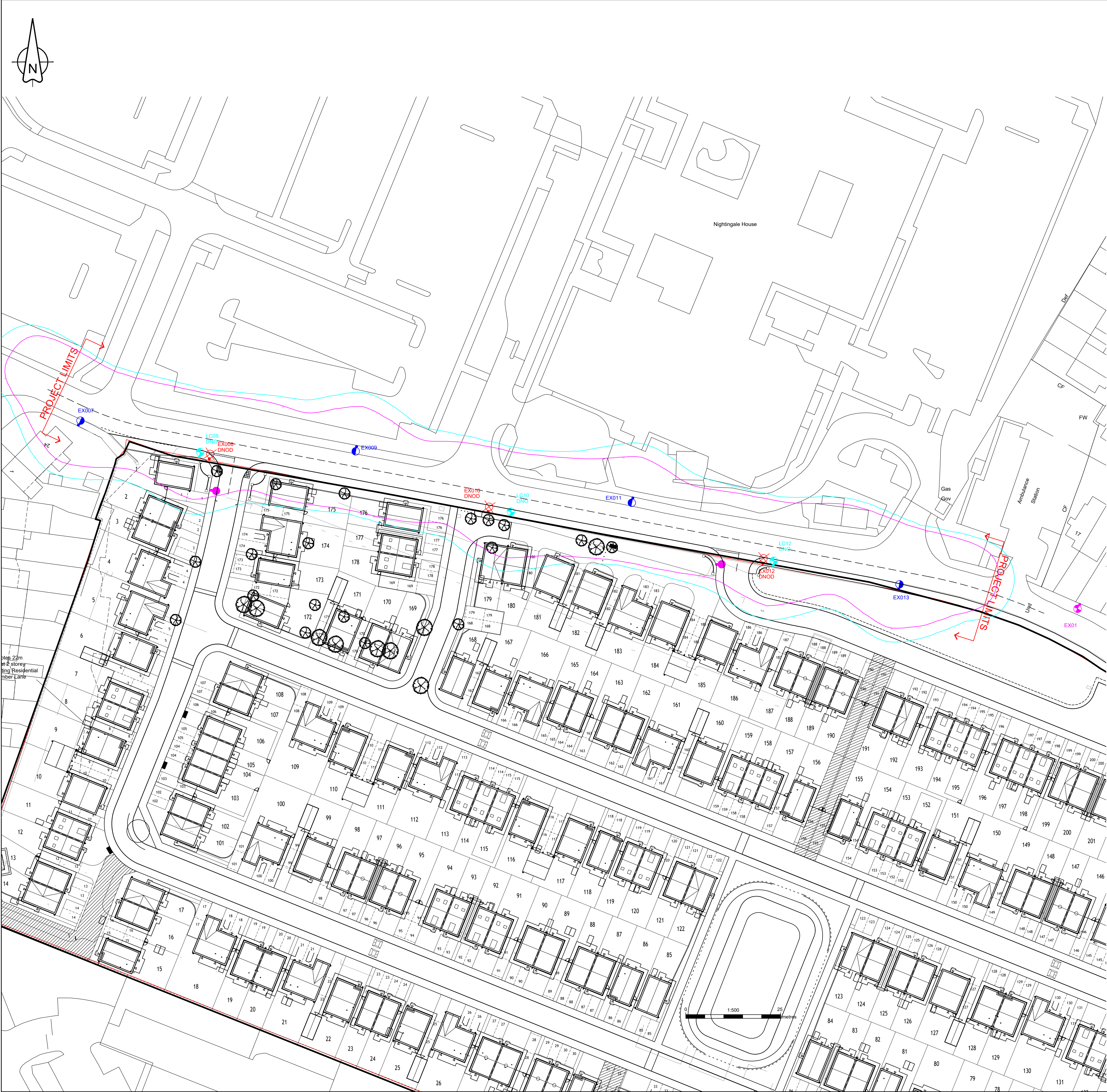




- GENERAL NOTES**
- The site engineer shall ensure that all drawings and associated documentation are fully coordinated and consistent prior to the commencement of any works. All design documents shall be read in conjunction with one another.
 - Any discrepancies, ambiguities, or conflicts identified shall be reported immediately to SHD Lighting Consultancy Ltd and the overseeing organisation.
 - SHD Lighting Consultancy Ltd accepts no responsibility for construction errors or omissions resulting from unreported design issues once works have commenced.
 - This lighting design has been prepared in accordance with HEMSA/HEA CDM2015 Guidance Note (Issue 1.1, dated 09/04/15, Procedure 2) and complies with the CDM Regulations 2015, Part 3, Regulation 9 – Duties of Designers.
- NOTES**
- All works are to be carried out in accordance with the latest Knowsley Metropolitan Borough Council street lighting specification.
 - Any inaccuracies are to be reported to the overseeing organisation.
 - The information on this drawing does not account for installation considerations, site conditions or provide any risk assessment.
 - No account is taken for the blocking effect caused by buildings, etc.
 - The calculation shown by this drawing assumes that the whole area being considered is in the same plane.
 - Final lighting column positions shall be agreed onsite with the Knowsley Metropolitan Borough Council street lighting engineer.
 - Final lighting column identification numbers shall be agreed with the Knowsley Metropolitan Borough Council street lighting engineer.
 - Column foundations shall be designed in accordance with the manufacturer datasheet's for the columns and soil types present.
 - Lighting columns are to be installed as per standard details SSE/L/SD/01, SSE/L/SD/02, SSE/L/SD/11, SSE/L/SD/016 & SSE/L/SD/017 and in accordance with manufacturers instructions.
 - The minimum distance for a lighting column to be erected from the kerb face in a service strip shall be 800mm.
 - Unless specified column shall be installed at back edge of verge on avenue style and back of path on all local roads and lanes.
 - Each development site is required to install one Mayflower 2 Mobitex GPRS sub-master unit to control nodes and link to central control system unless agreed otherwise with the service provider and highway authority.
 - Any existing trees are to be cutback, removed or relocated elsewhere to avoid interference with the street lighting luminaire or prevent any future access or maintenance.
 - The planting of trees near to lighting columns is to be avoided as future growth may inhibit lighting levels.
 - Horizontal clearance for the maximum tree canopy shall be greater than 5m from any proposed lighting columns.
 - The developer will be required to pay any energy charges until the date of formal adoption of the street lighting assets.
 - The developer will be responsible, for the condition, operation and any risk or liability of all the highways electrical equipment on all approved works until the adoption of the street lighting assets.

- SERVICE SAFETY & COORDINATION REQUIREMENTS**
- The contractor shall obtain current statutory service record plans from all relevant undertakers before commencing any street lighting installation, alteration, or removal works.
 - The contractor shall assume not all existing services are shown on design drawings. Any uncharted or unidentified services discovered must be carefully located, protected, recorded, and reported to the overseeing organisation and statutory undertaker immediately.
 - Prior to starting work, the contractor shall identify all overhead electrical and communication apparatus within or adjacent to the works. Where present, the relevant undertaker shall be consulted, and written safety guidance obtained.
 - Works near overhead lines shall comply with HSE Guidance GS6 – "Avoidance of Danger from Overhead Power Lines", including appropriate exclusion zones, barriers, and supervision.
 - All installation and removal works shall comply with: Electricity at Work Regulations 1989, Construction (Design and Management) Regulations 2015 (CDM 2015), ENA TS 43-8 (Underground Cable Laying), ENA ER G39/1 (Public Lighting Safety Code of Practice) and all other applicable HSE and electrical safety regulations.
 - Works near underground mains or cables shall follow HSE Guidance HSG47 – "Avoiding Danger from Underground Services", including verified service plans, CAT & Genny use, trial holes, and safe excavation methods.
 - The contractor shall liaise with all statutory undertakers to plan and programme any required protection, isolation, or diversion works, ensuring necessary permits and approvals are in place.
 - Any service diversions or protection works shall be undertaken by, or under the supervision of, the relevant statutory undertaker in accordance with the New Roads and Street Works Act 1991 (NRSWA).
 - The contractor shall maintain accurate as-built records of all discovered or relocated services and issue updated information to the overseeing organisation at project completion.

LIGHTING CLASSIFICATION
This lighting design has been produced in accordance with :
BS 5489-1:2020, CEN/TR 13201-1:2014 & BS EN 13201-2:2015 outdoor lighting documents and guidelines.

Lighting classification: P3 (BS 5489-1:2020, Table A.5)

Minimum average illuminance (Eav): >7.50 lux <11.25 lux
Minimum illuminance (Emin): >1.50 lux
Lighting Uniformity (Emin/Eav): >0.20 (>20%)

Designed to lighting class P2, and all luminaires are to be dimmed to 70% lumen output using CMS to achieve lighting class P3

The details provided on this drawing are subject to comments by all relevant approving authorities and/or any overseeing organisation. No construction works shall take place until technical approval has been obtained by the approving authority and/or any overseeing organisation.

It is to be understood that these drawings and the information shown are preliminary only and shall not be used for construction. This drawing should not be used for construction or procurement of materials in any way until technical approval is received.

Should the contractor commence work on site prior to obtaining technical approval, then it is entirely at their own risk and no liability shall be accepted by SHD Lighting Consultancy Ltd.

	Remove existing luminaire and hand it back to Knowsley Metropolitan Borough Council for reuse or recycling and replace with post top mounted Thorn Isaro Pro LED luminaire.
Column Reference:	N/A
Luminaire Type:	Thorn Isaro Pro
Luminaire Reference:	IP 48L50-730 WR CLO RAL9005
Mounting Type:	Post mounted at 0° tilt & 76mm spigot
Lumen Output:	10.22klm
Charge Code:	41 0072 0000 100 (72w)
Colour Temperature:	Warm White (3000K)
Luminous Intensity:	G4
Control Gear:	Philips DALI enabled dimmable driver
Control Type:	Mayflower 2 node mounted in a 6 pin NEMA socket
Dimming Profile:	Dimmed to 70% lumen output
Supply:	Existing to remain
Secondary Isolator:	N/A
Internal Wiring:	2.5mm² artic grade flexible cable
Door Orientation:	N/A

	Proposed galvanised tubular steel lighting column of 10.0 metre nominal height with a planted base as supplied by Fabrikat and factory applied painted black finish (RAL9005)
Column Reference:	N/A
Luminaire Type:	Thorn Isaro Pro
Luminaire Reference:	IP 48L50-730 WR CLO RAL9005
Mounting Type:	Post mounted at 0° tilt & 76mm spigot
Lumen Output:	10.22klm
Charge Code:	41 0072 0000 100 (72w)
Colour Temperature:	Warm White (3000K)
Luminous Intensity:	G4
Control Gear:	Philips DALI enabled dimmable driver
Control Type:	Mayflower 2 node mounted in a 6 pin NEMA socket
Dimming Profile:	Dimmed to 70% lumen output
Supply:	DNO with double pole isolation
Secondary Isolator:	N/A
Internal Wiring:	2.5mm² artic grade flexible cable
Door Orientation:	Facing away from oncoming vehicles

-  Existing St Helens Council lighting column and luminaire. Shown for contributory lighting 'tie in' purposes only.
-  S38 lighting column and luminaire. Shown for contributory lighting 'tie in' purposes only.
-  Existing lighting column to be removed from site. Luminaire to be removed and handed back to the Local Authority for reuse or recycling.

UNIT IDENTIFICATION KEY:
LC** Proposed lighting column identification number
EX** Existing lighting column identification number

ISOLUX CONTOUR KEY (AT GROUND LEVEL):
 1.00 Isolux contour line
 2.00 Isolux contour line

R1	NEW JUNCTION LAYOUT, ADDED LC08 AND LC12	22/08/2026	SRH
R0	INITIAL DESIGN FOR REVIEW AND COMMENT	01/12/2025	SRH
REV	DESCRIPTION	DATE	BY

			
info@shdlighting.co.uk ☎ 07834 490 192 🌐 www.shdlighting.co.uk			
PROJECT:	GLEN DIMPLEX KNOWSLEY		
DRAWING:	S278 STREET LIGHTING DESIGN		
CLIENT:	TAYLOR WIMPEY (NORTH WEST)		
DRAWING NUMBER:	SHD2504-SHD-HLG-GLEN-DIMPLEX-Knowsley Lighting Layout R1	DRAWN:	SRH
	SHEET 1 OF 1	CHECKED:	SRH
		APPROVED:	
CONTRACT NUMBER:	SHD2504	DATE:	01/12/2025
		SCALE @ A1:	1:500
		REVISION:	R1
PRELIMINARY DESIGN - NOT FOR CONSTRUCTION			