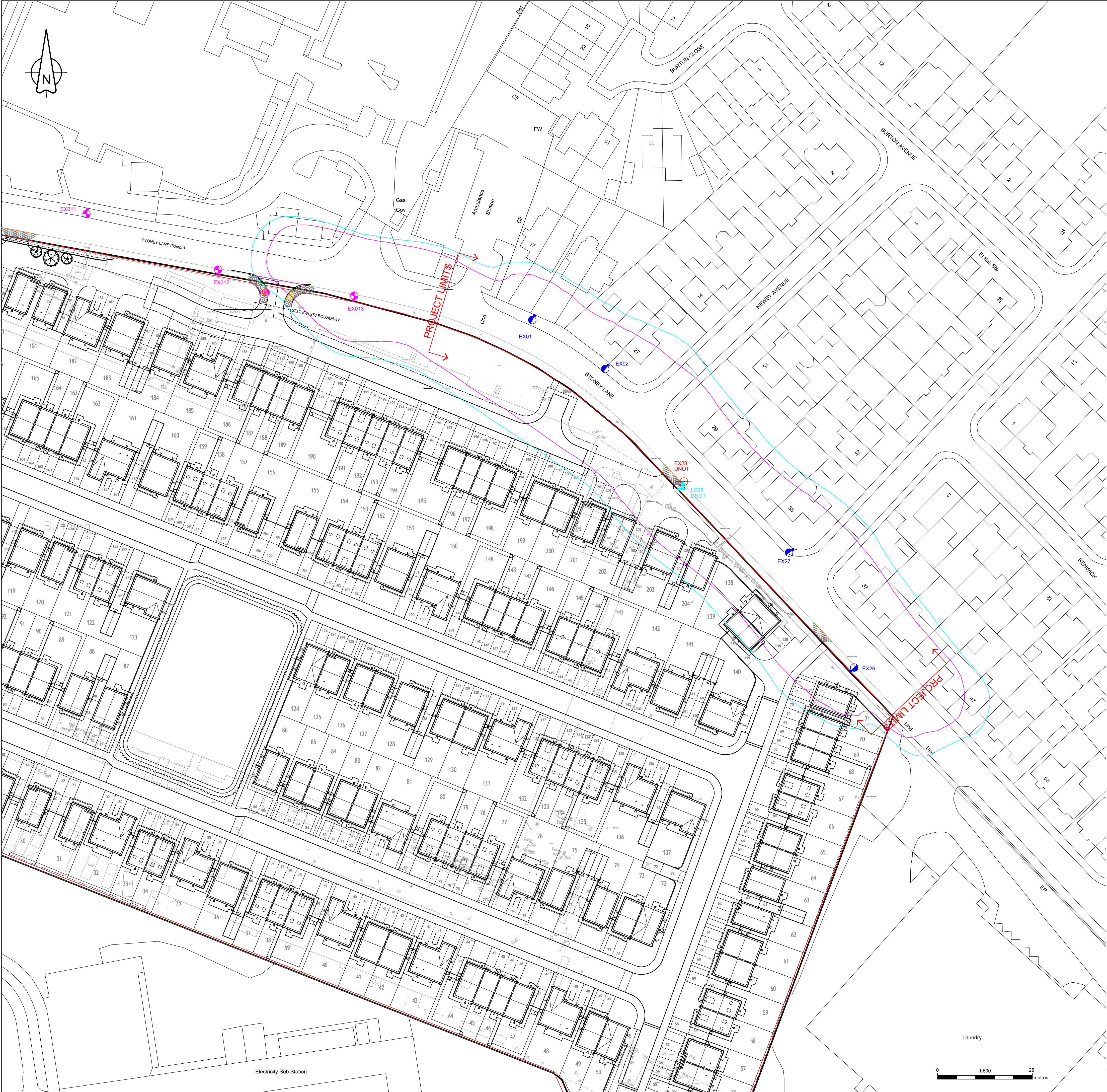




- GENERAL NOTES**
- The site engineer shall ensure that all drawings and associated documentation are fully coordinated and consistent prior to the commencement of any works. All design documents shall be read in conjunction with one another.
 - Any discrepancies, ambiguities, or conflicts identified 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 St Helens Council street lighting specification for new residential roads (December 2021).
 - Any inaccuracies are to be reported to the overseeing organisation or lighting designer immediately.
 - The information on this drawing does not account for installation considerations, site conditions or provide any form of risk assessment.
 - No account is taken for the blocking effect caused by buildings, trees, etc.
 - The calculation shown by this drawing assumes that the whole area being considered is in the same plane, i.e. there are no changes in gradient or elevation.
 - The contractor shall liaise with the DNO in relation to the programming and coordination of any works associated with the connection and disconnection of street lighting equipment.
 - Final lighting column positions shall be agreed onsite with the St Helens Council street lighting engineer.
 - Final lighting column identification numbers shall be agreed with the St Helens council street lighting department.
 - The contractor shall provide the St Helens Council street lighting department with as-built drawings, test certificates and column and lantern data sheets in accordance with the latest St Helens Council, street lighting specification for new residential roads.
 - Lighting column foundations shall be designed in accordance with the manufacturer datasheet's for the columns and soil types present.
 - The minimum distance for a lighting column to be erected from the kerb face in a service strip shall be 1000mm.
 - The planting of trees near to lighting columns is to be avoided as future growth may inhibit lighting levels. Due to the layout of the plots and associated driveways it is inevitable that there will be conflict with proposed landscaping features. Where such instances occur the lighting will take precedence in order to satisfy the requirements of the British standard.
 - Unless otherwise indicated, lighting columns shall be planted at the rear of the footpath and positioned such that the door opening is facing away from oncoming traffic, unless obstructed, in which case it shall be angled outwards to clear obstruction
 - The use of independent distribution network operator's (IDNO's) is permitted. Any chosen IDNO shall have a service level agreement in place with St Helens Council prior to adoption of the new installation.
 - The contractor shall provide St Helens Council street lighting department with the name, address and emergency contact details for any appointed IDNO.
 - The developer will be required to pay any energy liability charges with their electricity supplier until the date of formal adoption of the development.
 - The developer will be responsible, unconditionally, for the condition, operation and any risk or liability of all the highways electrical equipment on all approved Section 38 agreement works until the date of formal adoption of the development.

- 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%)

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 St Helen's Council for reuse or recycling and replace with side entry on exiting bracket arm mounted Philips Lumistreet LED luminaire.
- Column Reference: N/A
Luminaire Type: Philips Lumistreet Gen2 Mini
Luminaire Reference: BGP292 DW52 12000 40LED 5.2S CLO L90 740
- Mounting Type: Side entry mounted at 5° tilt on existing bracket arm
Lumen Output: 12.00klm
Charge Code: 41 0070 0000 100 (70w)
Colour Temperature: Neutral White (4000k)
Luminous Intensity: G2
Control Gear: DALI enabled dimmable driver
Control Type: Lucy Zodion SS12A 35lux (1:0.5)
- Dimming Profile: Dusk until 22:00: 100% lumen output
22:00 until 06:00: 50% lumen output
06:00 until Dawn: 100% 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 and glass flake epoxy root protection as supplied by Maltitae to St Helen's Council, Street Lighting Specification for New Residential Roads (December 2021)
- Column Reference: N/A
Luminaire Type: Philips Lumistreet Gen2 Mini
Luminaire Reference: BGP292 DW52 12000 40LED 5.2S CLO L90 740
- Mounting Type: Side entry mounted at 5° tilt on 1000mm single outreach bracket arm
Lumen Output: 12.00klm
Charge Code: 41 0070 0000 100 (70w)
Colour Temperature: Neutral White (4000k)
Luminous Intensity: G2
Control Gear: DALI enabled dimmable driver
Control Type: Lucy Zodion SS12A 35lux (1:0.5)
- Dimming Profile: Dusk until 22:00: 100% lumen output
22:00 until 06:00: 50% lumen output
06:00 until Dawn: 100% lumen output
- Supply: DNO with double pole isolation
Secondary Isolator: Lucy Zodion Trojan double pole isolator
Internal Wiring: 2.5mm² artic grade flexible cable
Door Orientation: Perpendicular to kerb facing away from oncoming vehicles
- Existing Knowsley 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

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 ST HELENS		
DRAWING:	S278 STREET LIGHTING DESIGN		
CLIENT:	TAYLOR WIMPEY (NORTH WEST)		
DRAWING NUMBER:	SHD2504-SHD-HLG-GLEN-DIMPLEX-ST Helens Lighting Layout RD	DRAWN:	SRH
	SHEET 1 OF 1	CHECKED:	SRH
CONTRACT NUMBER:	SHD2504	APPROVED:	
	DATE: 01/12/2025	SCALE @ A1	1:500
		REVISION:	R0
PRELIMINARY DESIGN - NOT FOR CONSTRUCTION			