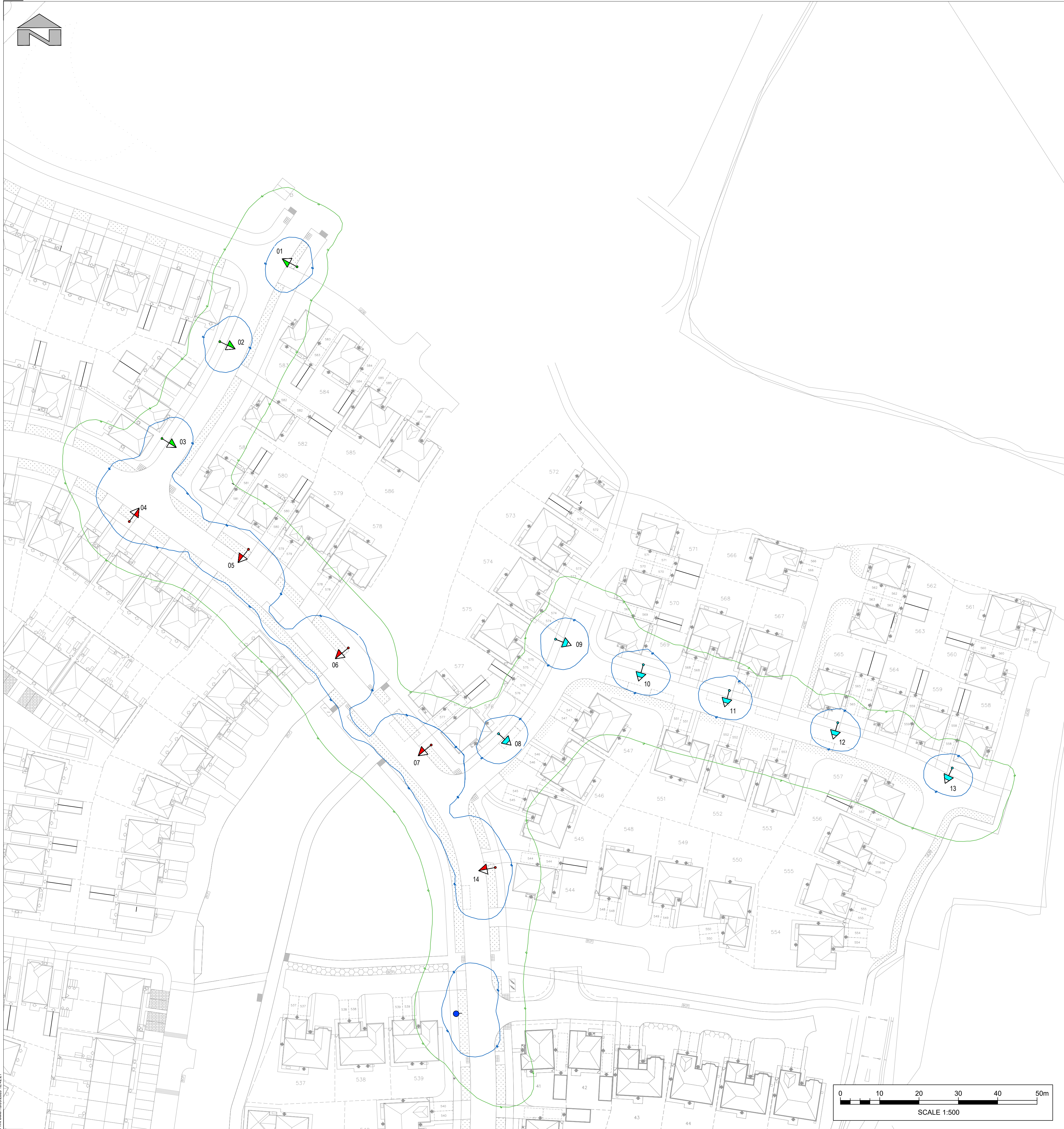
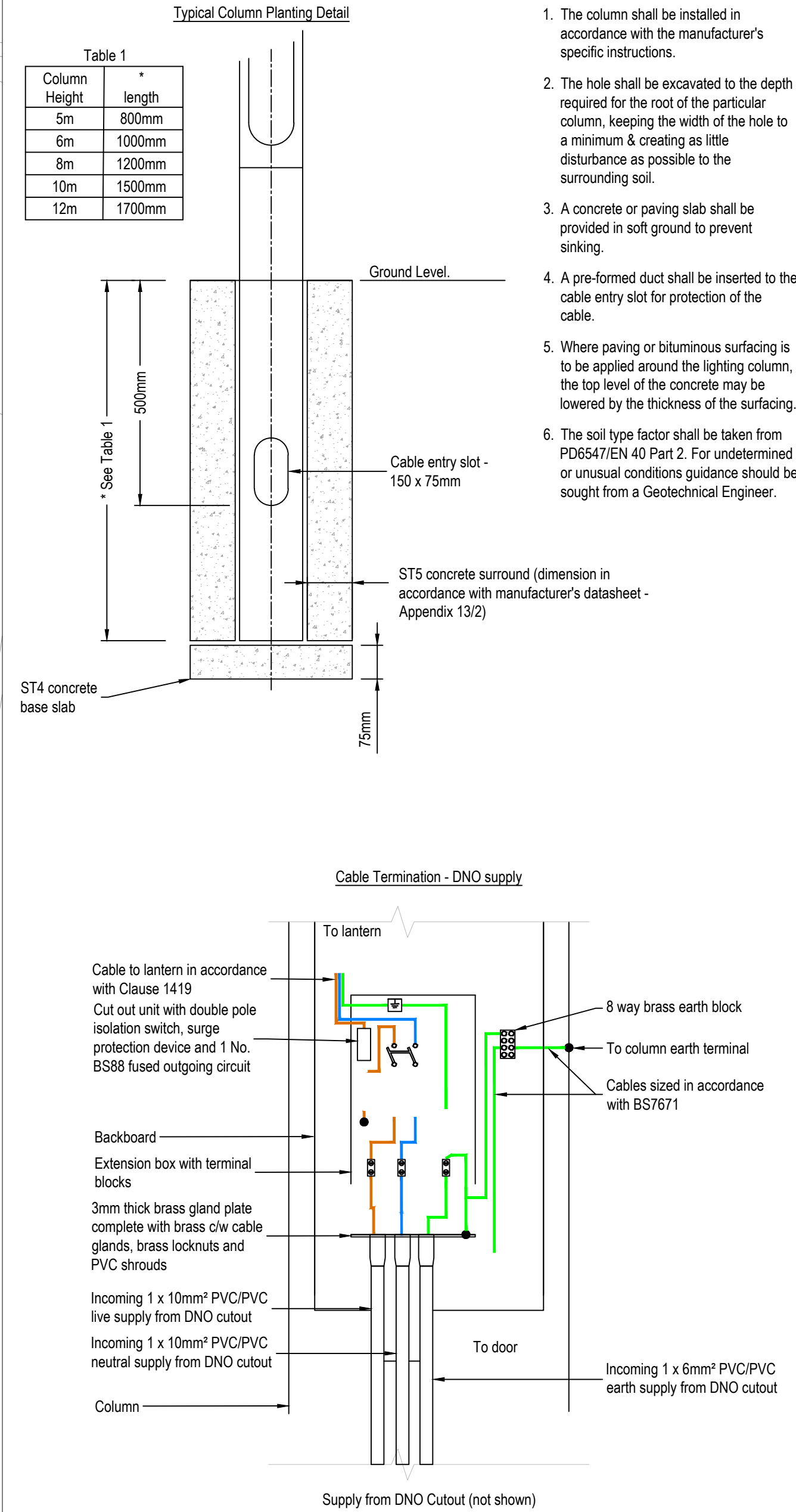




- Notes**
- The lighting design for the adoptable highway lighting complies with the requirements of BS 5489-1:2020 and BS EN 13201-2:2015 Class P4 (development) and Class P3 (spine road).
  - The adoptable lighting installation shall comply fully with Newport City Council Section 38 Street Lighting Specification for Residential Developments and the Manual of Contract Documents for Highway Works. All electrical work shall be carried out by a Highway Electrical Association and HERS approved contractor.
  - The proposed lighting columns shall be provided with direct unmettered DNO/DNO 230V ac 50Hz PME underground supplies. The Contractor shall liaise with the DNO/DNO to arrange the service connections and determine the proposed ducting routes and trenching required to accommodate the service cables. Ducting shall be black in colour.
  - Lighting columns shall be designed in accordance with BS EN 40 and hot dipped galvanised to BS EN ISO 1461 with double locking flush fitting anti-vandal door (500 x 100mm) complete with twin security locks and G1E root protection, as manufactured by CU Phosco Ltd 'Forest' Part Nos. R2508BF342XVSL2/G1E (8m) & R2506BF342XVSL2/G1E (6m) to Newport CC specification.
  - Lighting columns shall be fabricated and positioned such that when the door is accessed, the operative will face oncoming traffic.
  - Lighting columns shall be installed at the back of footway or with a minimum of 800mm setback from the face of column to the edge of carriageway. Where there is no footway or highway verge present columns shall be installed in an adoptable 1m x 1m parcel of land behind the shared surface, constructed to match the shared surface material. All locations to be agreed with the supervising engineer before installation.
  - Lighting columns shall have column reference numbers painted on to the column shaft. Column prefix / numbers are to be 50mm in height painted black on a white background, with a 10-15mm spacing, facing oncoming traffic at a height of 2.4 m above the footway/verge. Final maintenance numbers shall be obtained from NCC.
  - Lighting columns shall be fitted with Lucy Zodiacian type NT06-TT-NG12 / NT08-TT-NED-NG26 double pole cutouts with earth terminal for 3 core cables and 10mm² PVC/PVC tails to the DNO service cutout. Cutouts shall be secured to the column base compartment backboard with brass round headed wood screws. Cables shall be terminated with type BW cable glands secured to the cutout glandplate with brass locknuts and shrouded with PVC sleeves.
  - All luminaires shall be pre-wired with three core 2.5mm² Artic grade flexible cable to BS6004 & EN 50265, coloured blue, brown, & green/yellow.
  - 1The main protective conductor between the cutout gland plate and the column main earthing terminal shall be 10mm² PVC insulated cable with copper conductors complying with BS6004 Table 6491XS.
  - The installation shall be installed, tested and commissioned in accordance with the latest amendment of BS7671 'Requirements for Electrical Installations - IET Wiring Regulations (18th edition) with appropriate test certificates issued to the Project Engineer on completion of the Works
  - The drawing shall be used solely for the purpose described in the drawing title as other details may be inaccurate.



- Key**
- 8.0m galvanised steel lighting column c/w 0.3m integral bracket, 5° uplift and side-entry mounted Thorn Isaro Pro IP24/L70/CLO/EWS/24LED/WW/3000K/700mA/6.75 klm luminaire with NFC enabled DALI driver, 7-pin Telensa NEMA socket and Royce Thompson Oasis 2000 35/18 lux on/off photo-electric cell colour coded yellow for part-night operation, switch off midnight to 06:00.
  - 6.0m galvanised steel lighting column c/w 0.3m integral bracket, 5° uplift and side-entry mounted Thorn Isaro Pro IP24/L50/CLO/EWR/24LED/WW/3000K/500mA/5.14 klm luminaire with NFC enabled DALI driver, 7-pin Telensa NEMA socket and Royce Thompson Oasis 2000 35/18 lux on/off photo-electric cell colour coded yellow for part-night operation, switch off midnight to 06:00. Note the luminaire shall be programmed to operate at 3.40 klm output. (Type A)
  - 6.0m galvanised steel lighting column c/w 0.3m integral bracket, 5° uplift and side-entry mounted Thorn Isaro Pro IP24/L50/CLO/EWR/24LED/WW/3000K/500mA/5.14 klm luminaire with NFC enabled DALI driver, 7-pin Telensa NEMA socket and Royce Thompson Oasis 2000 35/18 lux on/off photo-electric cell colour coded yellow for part-night operation, switch off midnight to 06:00. Note the luminaire shall be programmed to operate at 3.80 klm output.
  - Adjacent phase column (for reference)
  - Horizontal illuminance (contours indicate projected lux values at ground level, excluding the screening effect of luminaire shields, buildings, trees, hedges, etc.)



Thorn Isaro Pro

**SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION**

IN ADDITION TO THE HAZARDS/RISKS NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING, NOTE THE FOLLOWING

No significant risks identified.

Refer to Designers CDM Risk/Hazard Identification Sheet for further information

IT IS ASSUMED THAT ALL WORKS WILL BE CARRIED OUT BY A COMPETENT CONTRACTOR WORKING, WHERE APPROPRIATE, TO AN APPROVED METHOD STATEMENT

|                             |       |      |      |             |            |
|-----------------------------|-------|------|------|-------------|------------|
| P01                         | JF    | MB   | MB   | First issue | 13/09/2023 |
| Rev                         | Drawn | Chkd | Appd | Description | Date       |
| Purpose of Issue            |       |      |      |             |            |
| S4 - Issued For Approval    |       |      |      |             |            |
| Classification              |       |      |      |             |            |
| Confidential                |       |      |      |             |            |
| Client                      |       |      |      |             |            |
| Redrow Homes                |       |      |      |             |            |
| Project                     |       |      |      |             |            |
| Great Milton Park, Llanwern |       |      |      |             |            |

|                                                                 |                            |         |          |
|-----------------------------------------------------------------|----------------------------|---------|----------|
| Drawing                                                         |                            |         |          |
| Street Lighting - Cedars 3                                      |                            |         |          |
| Scale @ A1                                                      | Drawn                      | Checked | Approved |
| 1:500                                                           | JF                         | MB      | MB       |
| Project No.                                                     | Date                       |         |          |
| GC/00481                                                        | 13 Sep 2023                |         |          |
| Drawing Identifier                                              | Revision                   |         |          |
| Project - Originator - Zone - Level - File Type - Role - Number | GC4481-WSP-13-XX-DR-E-1301 |         |          |
|                                                                 |                            |         | P01      |



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