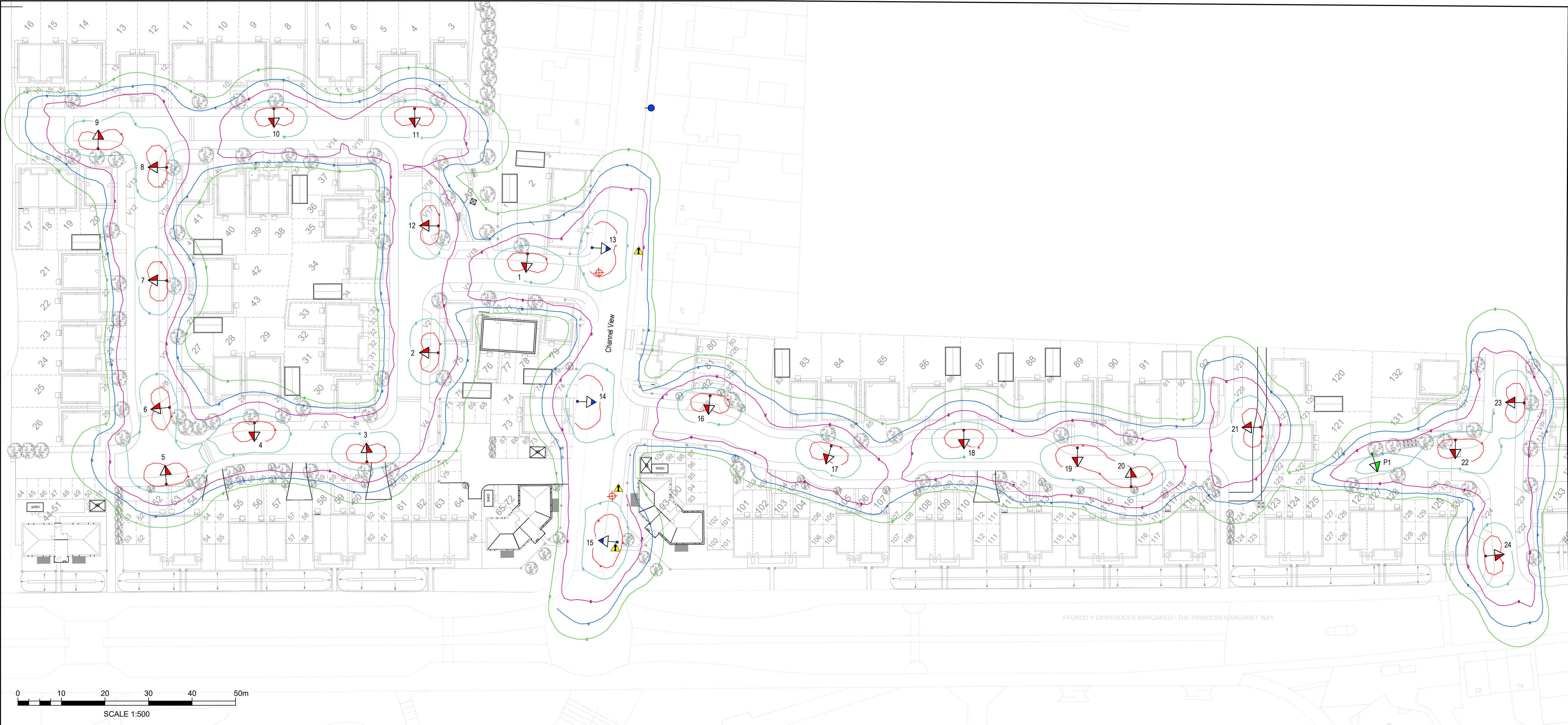




- Key**
- Adoptable 6.0m galvanised steel H/S lighting column with integral 0.5m outreach arm and side-entry mounted Thorn Isaro Pro S/IP12/4000K/500mA/EWC/2.76 klm LED luminaire with 7 pin NEMA socket c/w DALI enabled driver and 5 pin Telensa Telecell.
 - Adoptable 6.0m galvanised steel H/S lighting column with integral 0.5m outreach arm and side-entry mounted Thorn Isaro Pro S/IP24/4000K/350mA/EWC/4.0 klm LED luminaire with 7 pin NEMA socket c/w DALI enabled driver and 5 pin Telensa Telecell.
 - Private 6.0m galvanised steel H/S lighting column with integral 0.5m outreach arm and side-entry mounted Thorn Isaro Pro S/IP12/4000K/150mA/ENR/0.95 klm LED luminaire with 7 pin NEMA socket c/w DALI enabled driver and Lucy Zodian SS3 photo-electric 3-pin NEMA cell with switch on/off of 35/18 lux.
 - Existing column to remain
 - Existing WPD fed column to be isolated, disconnected and removed.
 - Horizontal illuminance (contours indicate projected lux values at ground level, excluding the screening effect of 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

The contractor shall note the presence of buried HV cables and confirm location in accordance with HSE guidance note HSG47.

Refer to Designer's 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

P05	JF	MB	MB	Column 13 relocated.	21/03/2023
P04	JF	DH	MB	Columns 16-20 relocated.	31/01/2023
P03	JF	MB	MB	Private Column P1 added.	28/04/2022
P02	JF	JR	MB	Site layout updated. Columns repositioned.	11/03/2022
P01	JF	JR	MB	First Issue.	13/08/2021

Rev	Drawn	Chk'd	App'd	Description	Date
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Purpose of Issue

S4 - Suitable for Approval

Classification

Confidential

Client

Persimmon Homes

Project

Afan Lido, Aberavon

Drawing

Street Lighting

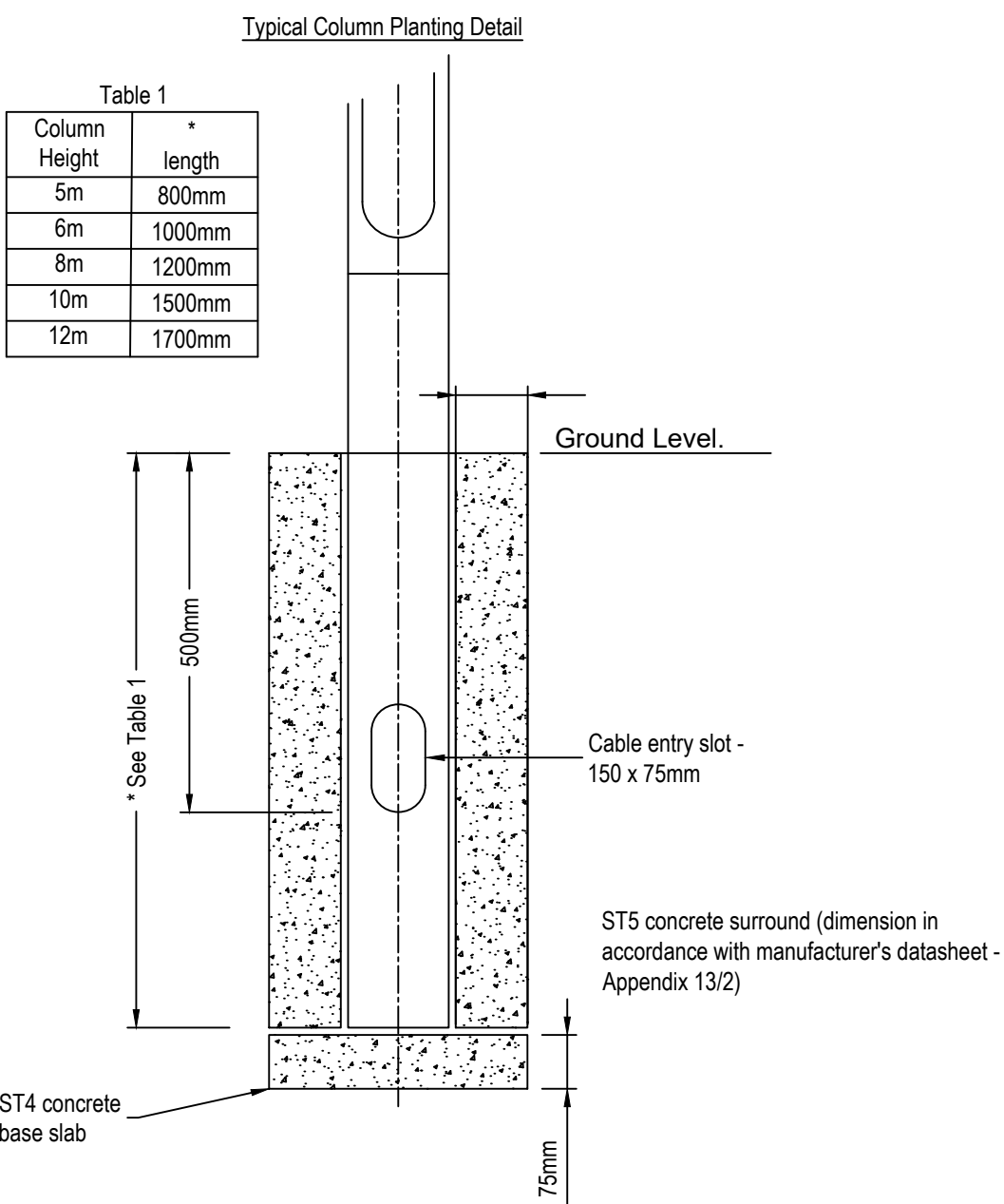
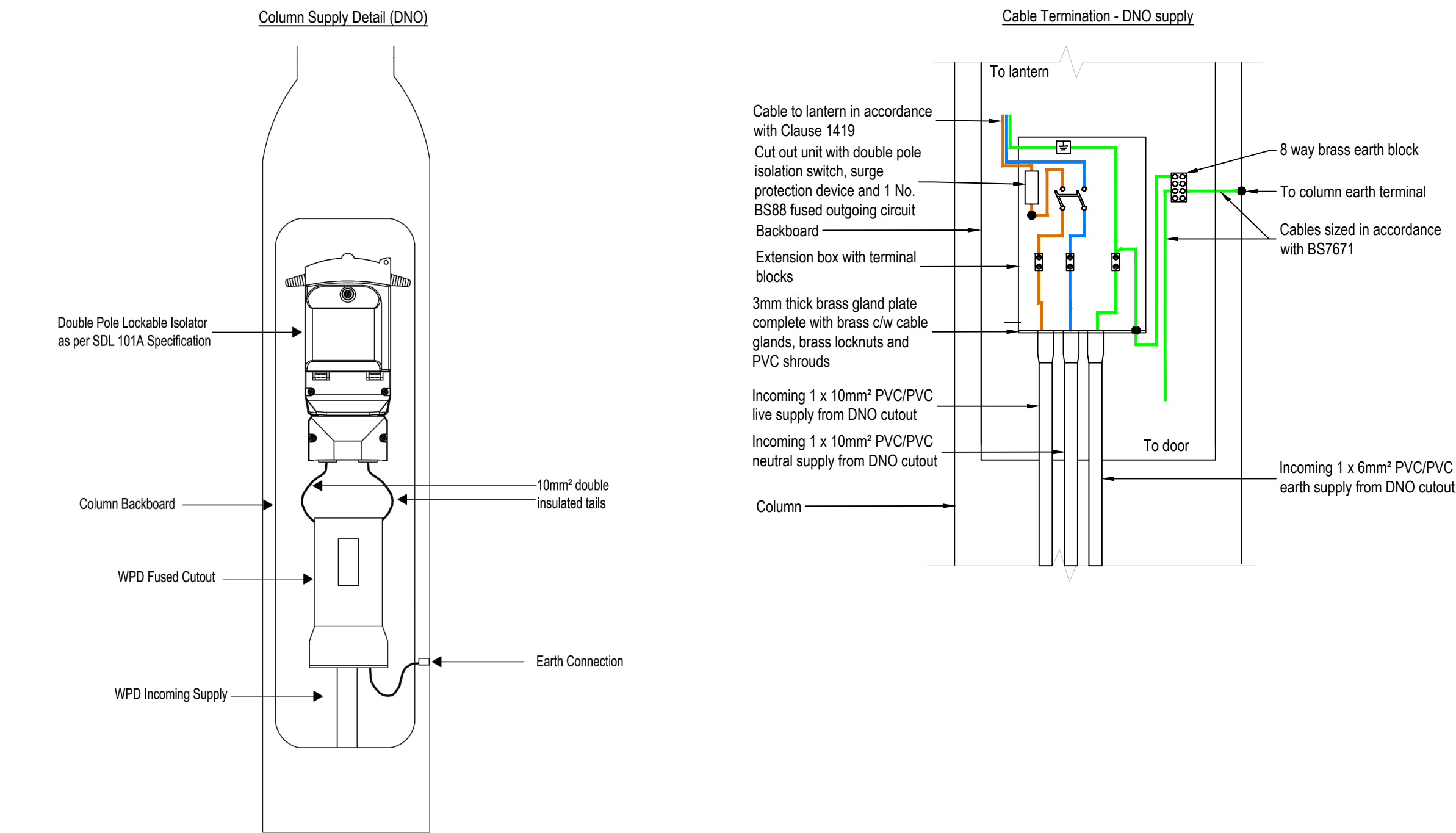
Scale @ A1	Drawn	Checked	Approved
1:500	JF	JR	MB

Project No.	Date
GC/3940	11th August 2021

Drawing Identifier	Revision
Project - Originator - Zone - Level - File Type - Role - Number	
GC3940-WSP-13-XX-DR-E-1301	P05



Quest House, St Mellons Business Park, Fortran Road,
St Mellons, Cardiff, CF3 0EY, UK
wsp.com



- The column shall be installed in accordance with the manufacturer's specific instructions.
- The hole shall be excavated to the depth required for the root of the particular column, keeping the width of the hole to a minimum & creating as little disturbance as possible to the surrounding soil.
- A concrete or paving slab shall be provided in soft ground to prevent sinking.
- A pre-formed duct shall be inserted to the cable entry slot for protection of the cable.
- Where paving or bituminous surfacing is to be applied around the lighting column, the top level of the concrete may be lowered by the thickness of the surfacing.
- The soil type factor shall be taken from PD6547/EN 40 Part 2. For undetermined or unusual conditions guidance should be sought from a Geotechnical Engineer.

Notes

- The street lighting layout complies with the requirements of BS5489-1:2020 and BS EN 13201-2:2015 Class P4
- The installation shall comply with the Neath Port Talbot County Borough Council street lighting specification and the Manual of Contract Documents for Highway Works. All electrical work to be carried out by a Highway Electrical Association and HERS approved Contractor.
- All new columns shall have direct unmetered DNO 230V ac 50Hz PME supplies. The Contractor shall liaise with the DNO to arrange the service connections and determine the proposed ducting routes and trenching required to accommodate the service cables. Ducting shall be 150mm diameter and black in colour to DNO specification.
- Road lighting columns shall be of steel construction to BS EN 40 and hot dip galvanised to BS EN ISO 1461 with root protection and minimum 40 year design life. Columns shall be designed to accommodate a 0.6m² sign as NPT standard detail SD/Type A. Columns shall be installed in accordance with the manufacturer's instructions, taking account of local soil conditions and wind factor.
- Lighting columns shall be fabricated and installed such that when the door is accessed, the operative will face oncoming traffic.
- Adoptable lighting units shall be electronically controlled using 5 pin Telensa NEMA Telecells, supplied directly by Telensa for use within Neath Port Talbot and fitted by the Contractor prior to installation.
- Identification numbers shall be painted onto adoptable lighting columns using stencilling equipment with the number 75mm in height located 2.4m above ground level, facing oncoming traffic. Numbers shown on the drawing are for design reference only. The final maintenance numbers shall be obtained from the Highway Authority.
- Cutouts shall be of the double pole type as manufactured by Toftco Ltd Cat No. F144/PME with integral SPD protection and earth terminal for 3 core cables. All cutouts shall be secured to the column base compartment backboard with brass round headed wood screws. Cables shall be terminated with BW cable glands secured to the cutout glandplate with brass locknuts and shrouded with PVC sleeves.
- The phase and neutral wiring between the cutout and luminaire shall be 1.5mm² 3 core flexible 'Blue Arctic Grade' PVC/PVC cable with copper conductors.
- The main protective conductor between the cutout glandplate and the column main earthing terminal shall be 10 mm² PVC insulated cable with copper conductors complying with BS 6004:2012 Table 3 Ref 6181Y.
- Lighting columns shall be installed at the back of footway or with a minimum of 0.8m setback from the face of column to the edge of carriageway when installed in verge. 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 prior to installation.
- The installation shall be installed, tested and commissioned in accordance with BS7671 Requirements For Electrical Installations - IET Wiring Regulations (18th edition) with appropriate test certificates issued to the Project Manager on completion of the Works.
- This drawing shall be used solely for the purpose described in the drawing title, as other details may be inaccurate.