

SCHEDULE OF SYMBOLS  
LIGHTING DETAILS

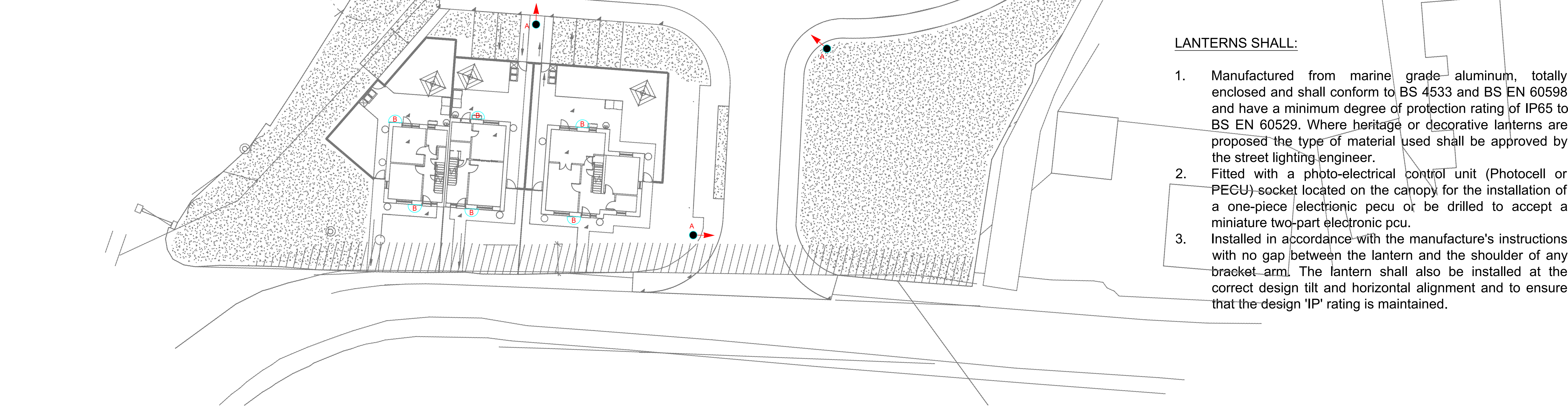
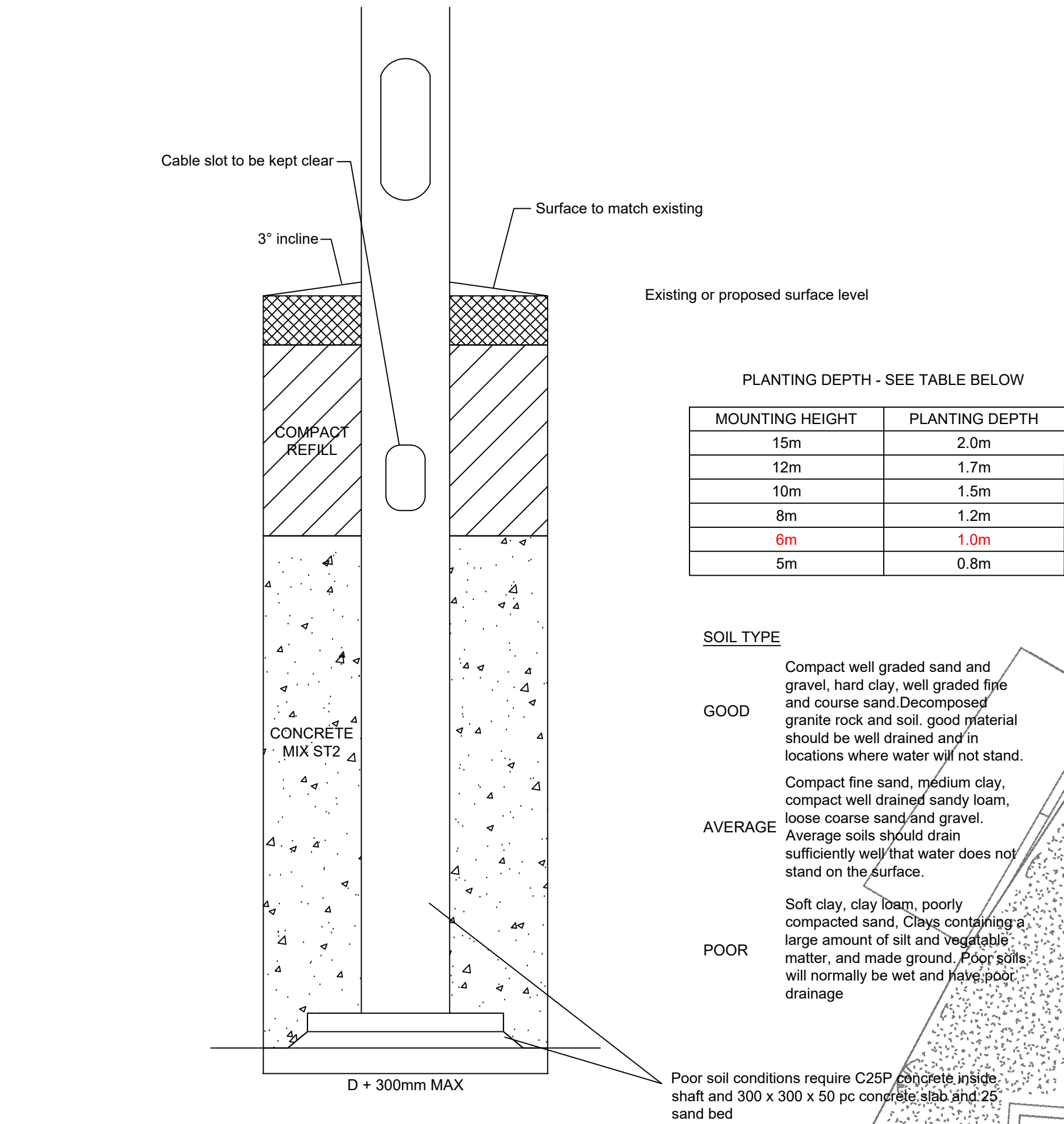
SYMBOL	MANUFACTURER	CAT NO/NAME	CONTROL	TYPE	WATTAGE
	Urbis Schreder	AXIA 3 EVO 1 5293 8 OSLOM SQUARE GI ANT@1000mA WW 727 230V 00-53 2700K	5Pin Nema Socket 38/18 electronic photocell Lantern to be pre programmed to dim to 70% between 8pm and 6am	LED	18.2W
	Ligman	Surface mounted IP65 LED bulkhead ref: JET 4 JE-30454 MR16 GU10 3000K	PIR	LED	7.5W

COLUMN DETAILS

SYMBOL	MATERIAL	HEIGHT	FOUNDATION	SETBACK	BRACKET TYPE
	Heavy Duty Galvanised Steel	6m	Planted Base	Back of footpath	Post-top

Lighting designed to Guidance Note 08/18 Bats and Artificial Lighting in the UK (2018), Bat Conservation Trust and The Institute for Lighting Professionals.

All luminaires to be supplied in Warm White and feature peak wavelengths higher than 550nm to avoid the component of light disturbing the bats



LANTERNS SHALL:

- Manufactured from marine grade aluminum, totally enclosed and shall conform to BS 4533 and BS EN 60598 and have a minimum degree of protection rating of IP65 to BS EN 60529. Where heritage or decorative lanterns are proposed the type of material used shall be approved by the street lighting engineer.
- Fitted with a photo-electrical control unit (Photocell or PECU) socket located on the canopy for the installation of a one-piece electronic pecu or be drilled to accept a miniature two-part electronic pecu.
- Installed in accordance with the manufacture's instructions with no gap between the lantern and the shoulder of any bracket arm. The lantern shall also be installed at the correct design tilt and horizontal alignment and to ensure that the design 'IP' rating is maintained.

Table A.5 — Lighting classes for subsidiary roads

Traffic flow	Lighting class			
	E1 to E4A)	E1 to E2A)	E3 to E4A)	
	Pedestrian and cyclists only	Speed limit v ≤ 30 mph	Speed limit v ≤ 30 mph	
Busy B)	P5	P4	P3	
Normal C)	P5	P5	P4	
Quiet D)	P6	P5	P4	

NOTE 1 Table A.5 assumes no parked vehicles; see risk assessment in A.3.3.2.

NOTE 2 An EV lighting clas using vertical illuminance, from BS EN 13201-2:2015, Table 6, can be specified in addition to the general lighting class when there are particular concerns about crime and personal safety. EV is calculated at the typical height of a human face (1.5m) and in relevant viewing orientations.

NOTE 3 To ensure adequate uniformity, the actual value of the maintained average illuminance is not to exceed 1.5 times the value indicated for the class.

NOTE 4 The actual overall uniformity of illuminance, Uo, needs to be as high as reasonably practicable (See 7.2.6).

NOTE 5 The ambient luminance descriptions E1 to E4 refer to the enviromental zone as defined in ILP GN01 [N2].

NOTE 6 The illuminance classes are suggested minimum levels. A risk assessment needs to be carried out to ensure that the light levels are adequate, particularly for pedestrians and cyclists.

A) Environmental zone, as given in ILP GN01 [N2].

B) Busy traffic flow refers to areas where the traffic ussage is high and can be associated with local amenities such as clubs, shopping facilities, public houses, etc.

C) Normal traffic flow refers to areas where the traffic usage is of a level equivalent to a housing estate access road.

D) Quite traffic flow refers to areas where the traffic usage is of a level equivalent to a residential road, and is mainly associated with the adjacent properties or properties on other equivalent roads accessed from this road.

GENERAL NOTES

- This Lighting Design Has been prepared in accordance with the HEMSA/HEA Guidance Note - CDM2015 Regulations, Issue 1.1 dated 09/04/15 - procedure 2 and The Construction (Design and Management) Regulations 2015 - PART 3 Health and Safety duties and roles - 9. Duties of Designers.
- All works are to be carried out in accordance with council 'Design specification for street lighting and illuminated signs'.
- it should be assumed by the contractor that not all services have been identified during the design period.
- The contractor shall identify the location of any overhead electrical or communication equipment prior to the undertaking of any onsite works. should the presence of such equipment be identified, the contractor shall consult with the relevant statutory undertaker for further guidance.
- Final lighting column positions shall be agreed onsite with Council street lighting engineer.
- Final lighting column identification numbers shall be agreed with the Council street lighting engineer.
- Lighting column foundations shall be designed in accordance with the current Council 'Design specification for street lighting and illuminated signs' and the manufacturer datasheet's for the columns.
- the minimum distance for the street lighting column to be erected from the kerb face in a service strip shall be 800mm
- Unless otherwise indicated, lighting column shall be planted at the rear of the footpath and positioned such that door opening is outward facing and perpendicular to the footway.
- The contractor shall provide Council street lighting engineer with as-built drawings, test certificates and column and lantern data sheets in accordance with the current 'Design specification for street lighting and illuminated signs'.

STREET LIGHTING NOTES

COLUMNS AND BRACKETS SHALL:

- Comply with all relevant parts of BS 5649 and BS EN 40 and the particular requirements of this specification
- only be purchased from manufacture's who are registered with either BSI quality assurance or Lloyds register quality assurance Ltd. For the manufacture, supply and verification of lighting columns and brackets arms under their quality management schemes (QAS5020 / 304, QSS 5020) to BS EN is 9002. Certificates and conformity may be required in support of all columns used.
- All columns and brackets shall carry a unique identification mark which indicates the name of the manufacture, year of production and manufacture's batch number. The identification mark shall be permanent, legible and clearly viable and shall be located within the base component of the column.
- Base components shall afford easy access to cable terminations and wiring.

NOTES:  
1. Do not scale from this drawing.  
2. This drawing is to be read in conjunction with the services specification for this contract.

CLIENT

REV / DATE / DETAILS

P1 24.05.24 Preliminary - issued for comment  
P2 26.06.24 Preliminary - issued for comment  
P3 03.09.24 Preliminary - issued for comment  
P4 26.11.24 Preliminary - issued for comment

DRAWN / CHKD

LA IC  
LA IC  
LA IC  
LA IC

PROJECT

MAES MERDDYN, BRYNSIENCYN  
STREET LIGHTING

DRAWING TITLE

STREET LIGHTING LAYOUT

ISSUED FOR COMMENT

PROJECT NUMBER

P1966

SCALE

1:200 @ A0

DATE

20:10:23

DRAWN

LA

CHECKED

IC

DRAWING NUMBER

P1966-CDP-XX-EX-DR-E-2101

REV

P4