

Layout showing equipment positions and isolux contours, Scale 1:500 at A1.

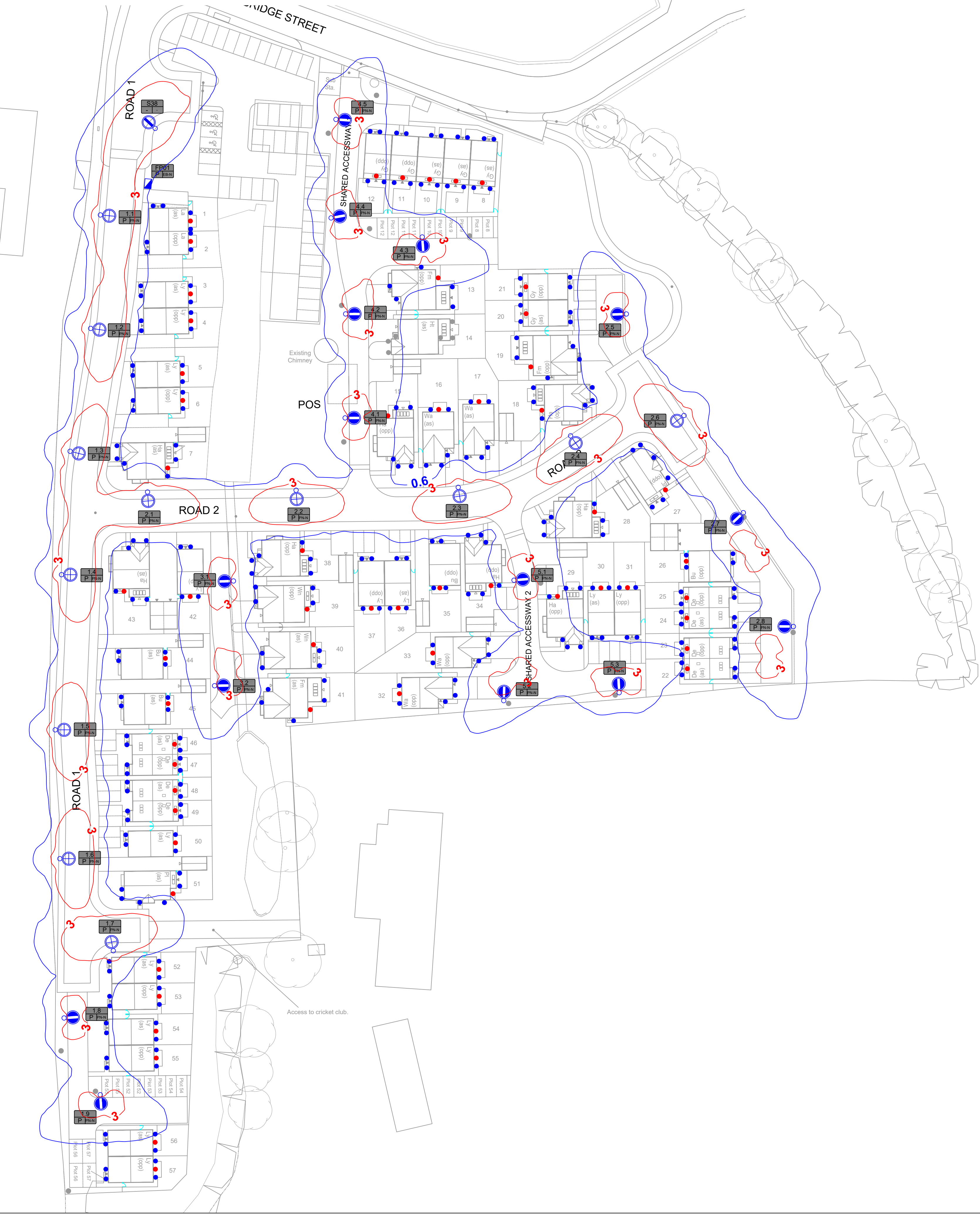


Table A.5 — Lighting classes for subsidiary roads

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 class 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, U_o , needs to be as high as reasonably practicable (See 7.2.6).

NOTE 5 The ambient luminance descriptions E1 to E4 refer to the environmental 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.

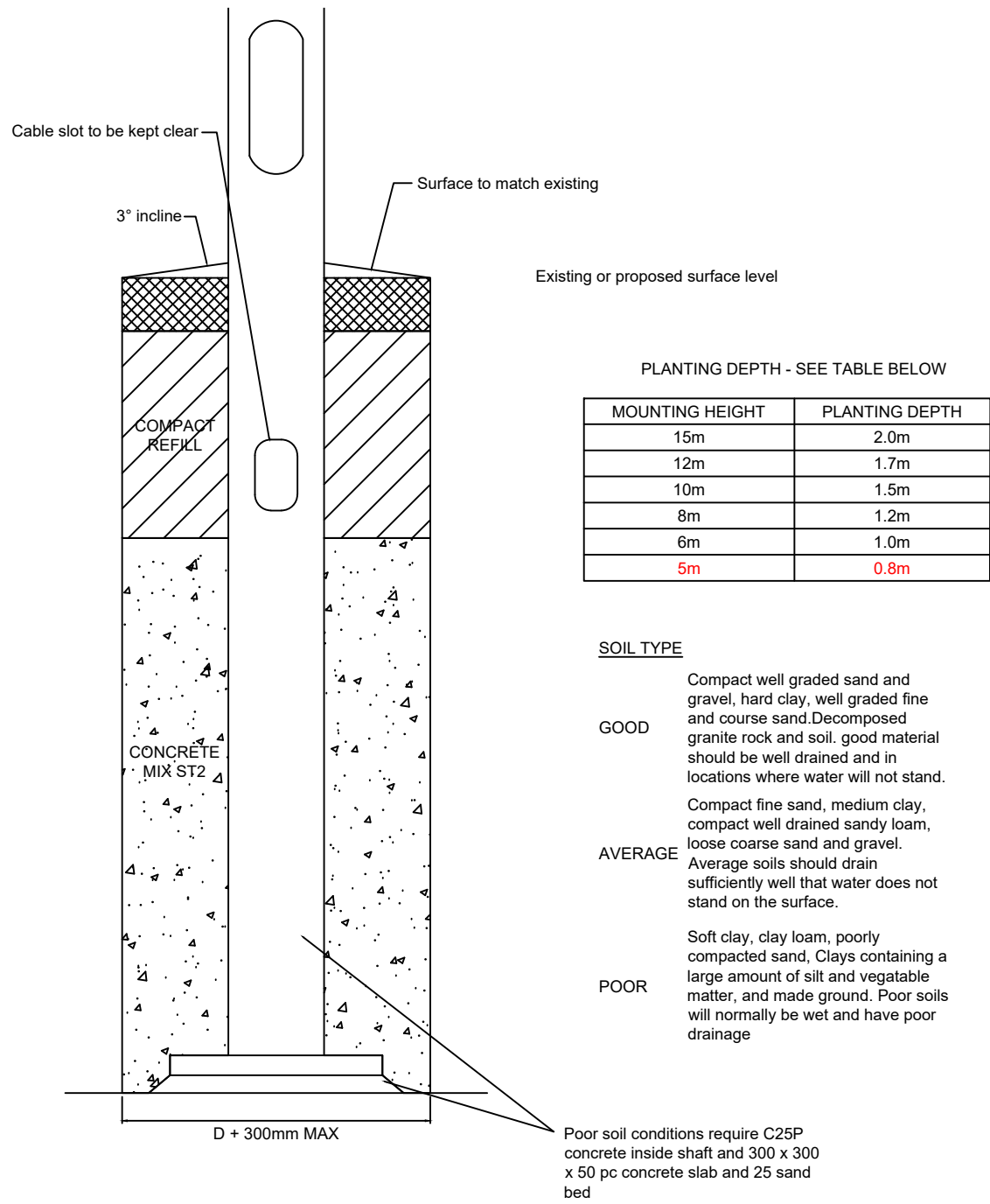
A) Environmental zone, as given in ILP GN01 [N2].

B) Busy traffic flow refers to areas where the traffic usage 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.

Typical column installation details NTS



Key

- Proposed Column:**
Manufacturer: Malatite
Material: Galvanised Steel
Type: Tubular
Height: 5m
- Proposed Lantern:**
Manufacturer: TRT
Model: Aspect Eco
Optic: GR1
Mounting: Post Top
Tilt: 0°
Wattage: 19W
Photometry file: 'ASE12_LED_19W_GR1_2700K_EXP.ies'
Driver: DALI Enabled
PECU: Lucy Zodion SS3 35 lux with 1: 0.5 Switching
Attachments: None
- Proposed Column:**
Manufacturer: Malatite
Material: Galvanised Steel
Type: Tubular
Height: 5m
- Proposed Lantern:**
Manufacturer: TRT
Model: Aspect Eco
Optic: GR4
Mounting: Post Top
Tilt: 0°
Wattage: 10W
Photometry file: 'ASE12_LED_10W_GR4_2700K_EXP.ies'
Driver: DALI Enabled
PECU: Lucy Zodion SS3 35 lux with 1: 0.5 Switching
Attachments: None
- Feeder Pillar**
Manufacturer: Lucy Zodion
Model: 09-HDG-5-J
Supply in: 230v Metered Supply
Supply out: MCB Type-C protected cables
- Section 38 column for detail see latest revision of drawing: 25915-D-01**
- Column numbering to be finalised with the Authoritative Engineer
- Column scheme numbering for existing and proposed equipment**
01 = Column Number
P = Proposed
E-B-N = Proposed DNO / IDNO Connection
PN-N = Proposed Private Network Connection
0.6 lux contour line - BS5489-1:2020 Lighting Class P5
3.0 lux contour line - BS5489-1:2020 Lighting Class P5

A	Moved feeder pillar and requested columns	05/03/25	JL	PDL
REV	DESCRIPTION	DATE	DRN	APP
DRAWING NO: 25925-D-01		REV: A		
DRAWING STATUS: DESIGN				
CLIENT: Eccleston HOMES				
PROJECT: Bridge Street, Ramsbottom Private				
TITLE: Proposed Lighting and Installation Design Layout				
SCALE: AS INDICATED		DESIGNED BY: JL 18/11/2024		
SHEET NO: Sheet 1 of 4		APPROVED FOR ISSUE: PDL 18/11/2024		
HDS CONSULTATION, DESIGN & MANAGE				
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PROJECT: H:\Projects\Eccleston Homes\Bridge Street, Ramsbottom\Private\Drawings\Rev_A



Date Plotted: 05/03/2025 4:01 PM

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	Proposed Column:
	Manufacturer: Malatite
	Material: Galvanised Steel
	Type: Tubular
	Height: 5m
	Proposed Lantern:
	Manufacturer: TRT
	Model: Aspect Eco
	Optic: GR1
	Mounting: Post Top
	Tilt: 0°
	Wattage: 19W
	Photometry file:
	"ASE12_LED_19W_GR1_7700K_EXP.fie"
	Driver: DALI Enabled
	PECU: Lucy Zodion SS3 35 lux with 1: 0.5 Switching
	Attachments: None

Proposed: Malatite
Column:
Manufacturer: Malatite
Material: Galvanised Steel
Type: Tubular
Height: 5m
Proposed
Lantern:
Manufacturer: TRT
Model: Aspect Eco
Optic: GR4
Mounting: Post Top
Tilt: 0°
Wattage: 10W
Photometry file:
"ASE12_LED_10W_GR4_
_2700K_EXP10IES"
Driver: DALI Enabled
PECU: Lucy Zodion SS3 35 lux with
1: 0.5 Switching
Attachments: None

01  **Feeder Pillar**
Manufacturer: Lucy Zodion
Model: 09-HDG-5-J
Supply in: 230v Metered Supply
Supply out: MCB Type-C protected cables

Column scheme numbering for existing and proposed equipment

01 = Column Number
P = Proposed
EB-N = Proposed DNO / IDNO Connection
PN-N = Proposed Private Network Connect

Ducting Chamber - 450mm x 450mm

100mm orange MDPE duct including draw cord at 750mm cover across highway and down park and 450mm cover in footway and service strip. (Ducting route is indicative only)

2 Number of ducts required

DRAWING STATUS:

DESIGN

CLIENT



PROJECT: Bridge Street, Ramsbottom
Private

TITLE: Proposed Duct Layout

SCALE: AS INDICATED	DESIGNED BY: JL 18/11/2024
SHEET NO: Sheet 2 of 4	APPROVED FOR ISSUE: PDL 18/11/2024

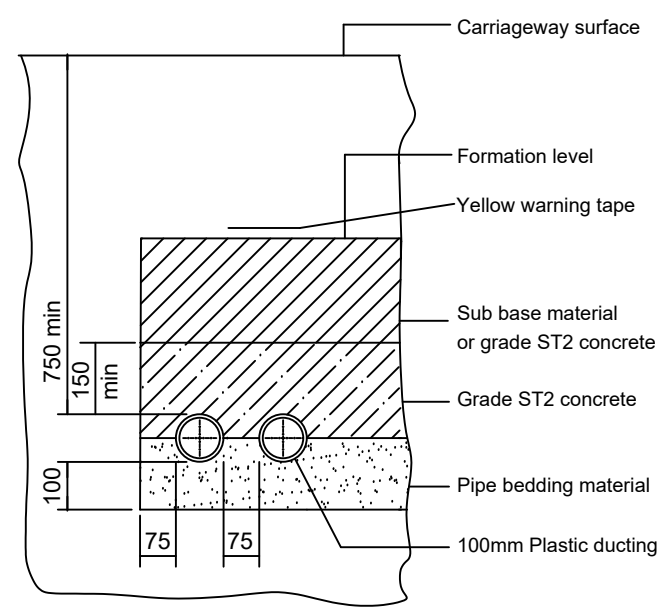


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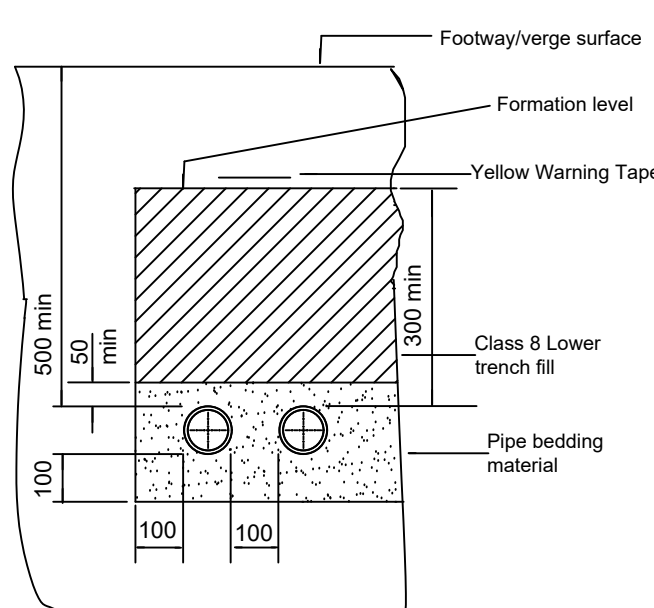
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Type A Ducts Laid Under Carriageway



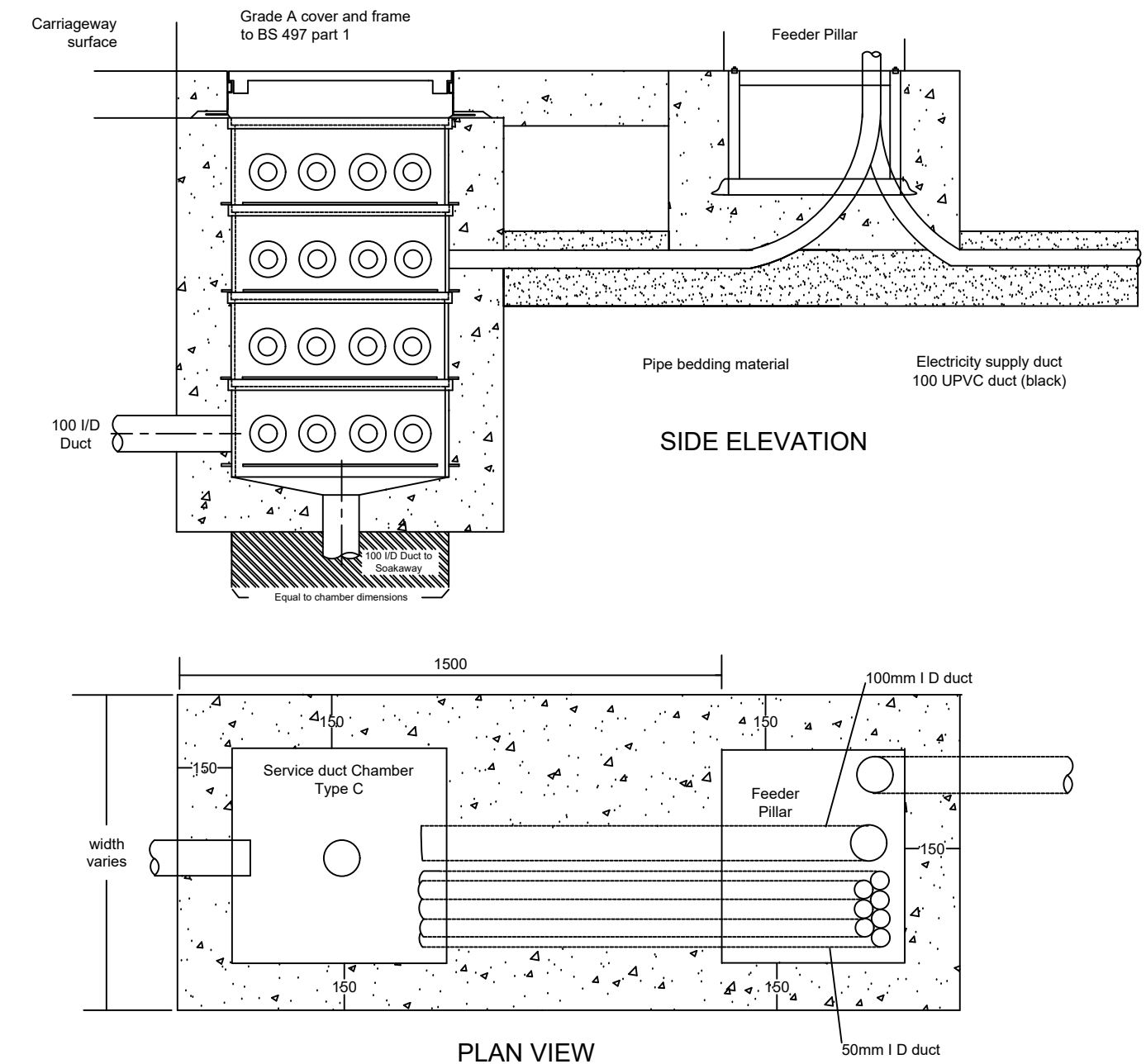
Type B Ducts Laid Under Footway and Verges



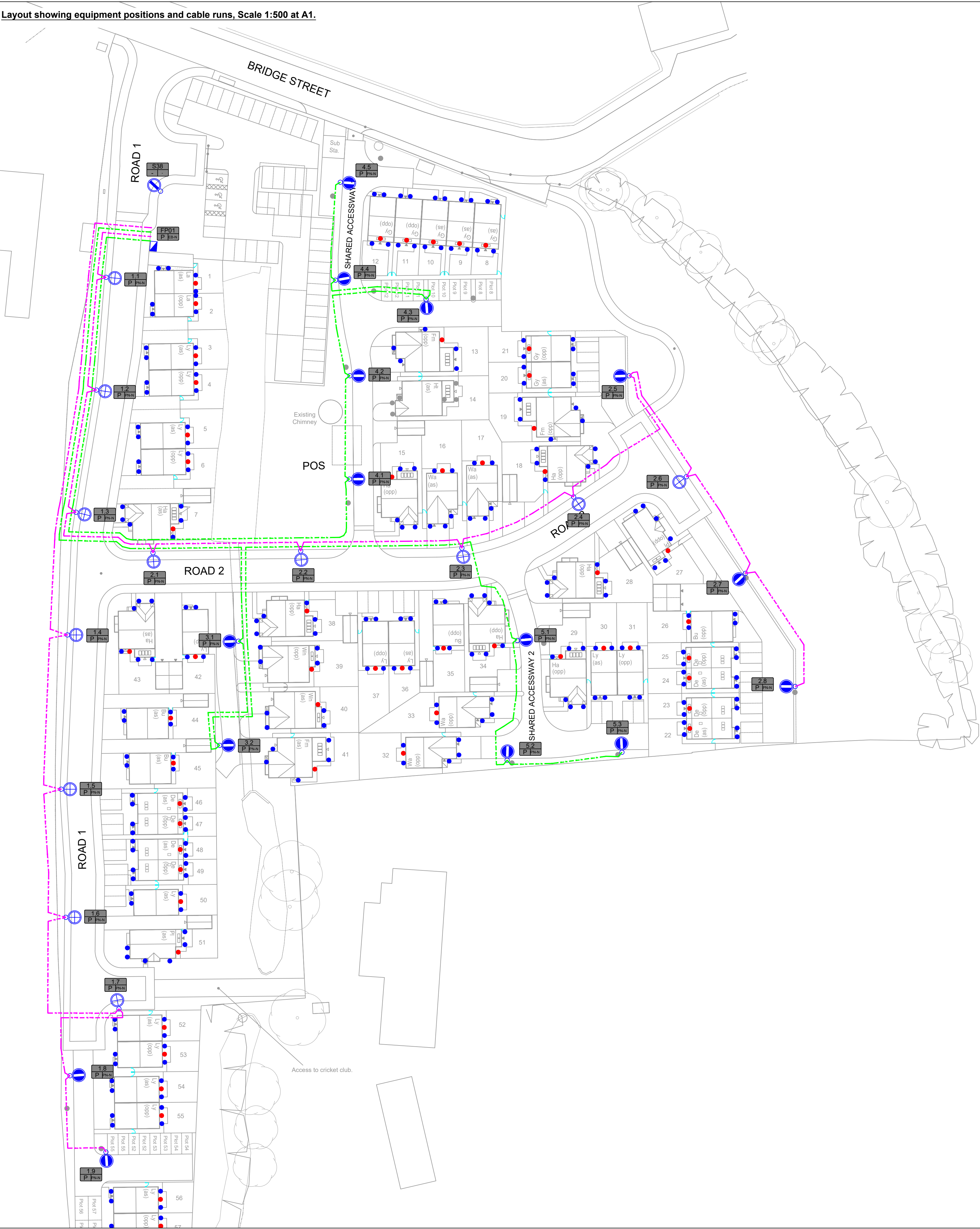
Notes

1. All dimensions are in millimeters unless otherwise stated.
2. All private street lighting ducts to be orange coloured polyethylene.
3. Pipe bedding material maximum aggregate size 2mm; eg washed sand

Duct Chamber detail, NTS



Layout showing equipment positions and cable runs, Scale 1:500 at A1.



Key

Proposed Column:
12C
Manufacturer: Malatite
Material: Galvanised Steel
Type: Tubular
Height: 5m
Proposed Lantern:
Manufacturer: TRT
Model: Aspect Eco
Optic: GR1
Mounting: Post Top
Tilt: 0°
Wattage: 19W
Photometry file: 'ASE12_LED_19W_GR1_2700K_EXP.ies'
Driver: DALI Enabled
PECU: Lucy Zodion SS3 35 lux with 1: 0.5 Switching
Attachments: None

Proposed Column:
15C
Manufacturer: Malatite
Material: Galvanised Steel
Type: Tubular
Height: 5m
Proposed Lantern:
Manufacturer: TRT
Model: Aspect Eco
Optic: GR4
Mounting: Post Top
Tilt: 0°
Wattage: 10W
Photometry file: 'ASE12_LED_10W_GR4_2700K_EXP.ies'
Driver: DALI Enabled
PECU: Lucy Zodion SS3 35 lux with 1: 0.5 Switching
Attachments: None

Feeder Pillar
01
Manufacturer: Lucy Zodion
Model: 09-HDG-5-J
Supply in: 230v Metered Supply
Supply out: MCB Type-C protected cables

Section 38 column for detail see latest revision of drawing: 25915-D-01

Column numbering to be finalised with the Authoritative Engineer
Column scheme numbering for existing and proposed equipment
01 = Column Number
P = Proposed
EB-N = Proposed DNO / IDNO Connection
PN-N = Proposed Private Network Connection
Proposed 10mm 3 core XLPE/SWA/PVC

A	Moved feeder pillar and requested columns	05/03/25	JL	PDL
REV	DESCRIPTION	DATE	DRN	APP
DRAWING NO:	25925-D-01	REV:	A	

DRAWING STATUS:
DESIGN



PROJECT:
Bridge Street, Ramsbottom Private

TITLE:
Proposed Cable Layout

SCALE:
AS INDICATED

SHEET NO:
Sheet 3 of 4

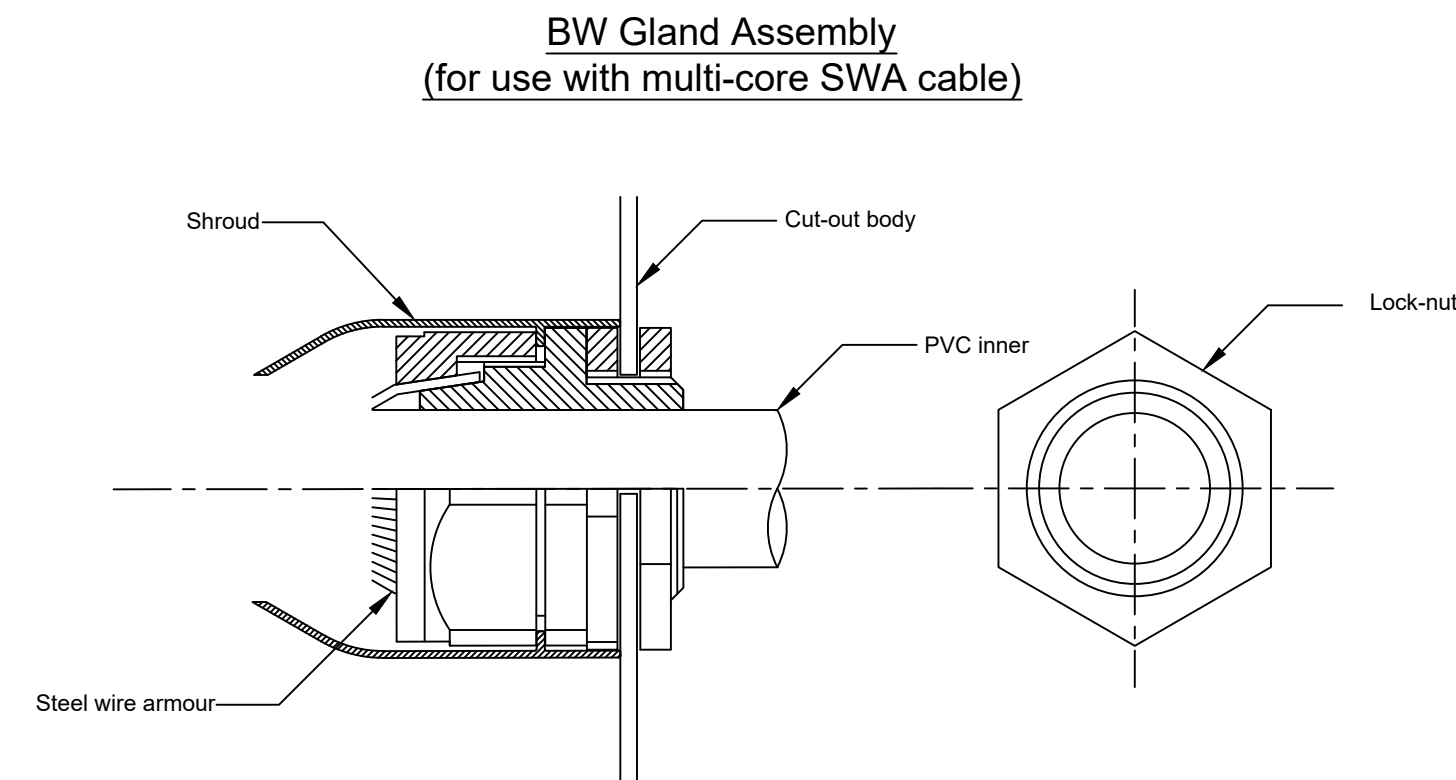
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JL 18/11/2024

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PDL 18/11/2024



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Gland Detail, NTS



Incoming Single Phase DNO metered supply*

*Subject to confirmation of new proposed LV mains layout

$\Omega = 0.35$

FEEDER PILLAR P-FP1

6-Way Consumer Unit (4No used for the below circuits and 2No spare way)

All protective devices to be Hager NC 10kA Type C MCB's. Changing to other devices may cause the circuit to not conform to BS7671

Feeder Pillar

Equipment Totals:

Amps(A): 2.95*

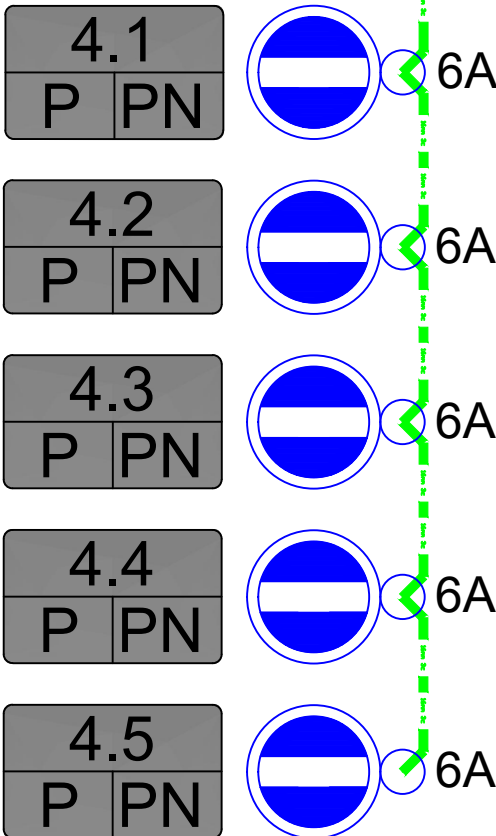
Wattage(W): 378

KVA: 0.678*

*These figures include a safety multiplier of 1.8x

16A
Circuit 1

10mm² 3 core
XLPE/SWA/PVC

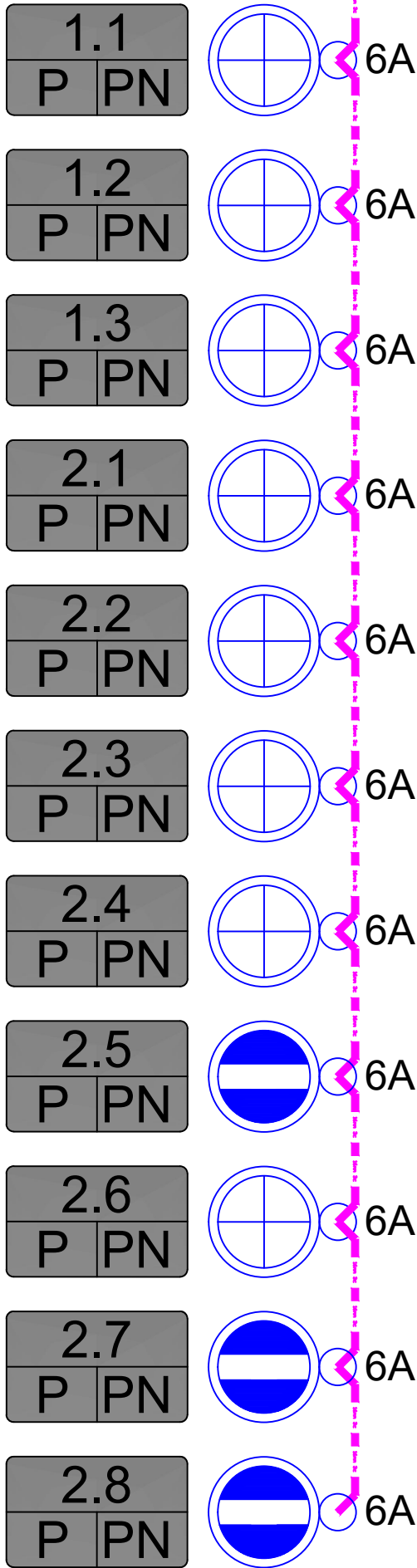


Approx. Ducting Length - 266m
Approx. Cable Length - 319m
Total Wattage - 50W
Total Current - 0.39A*
Cable Calculation - 25925-C-01A

*These figures include a safety multiplier of 1.8x

16A
Circuit 2

10mm² 3 core
XLPE/SWA/PVC

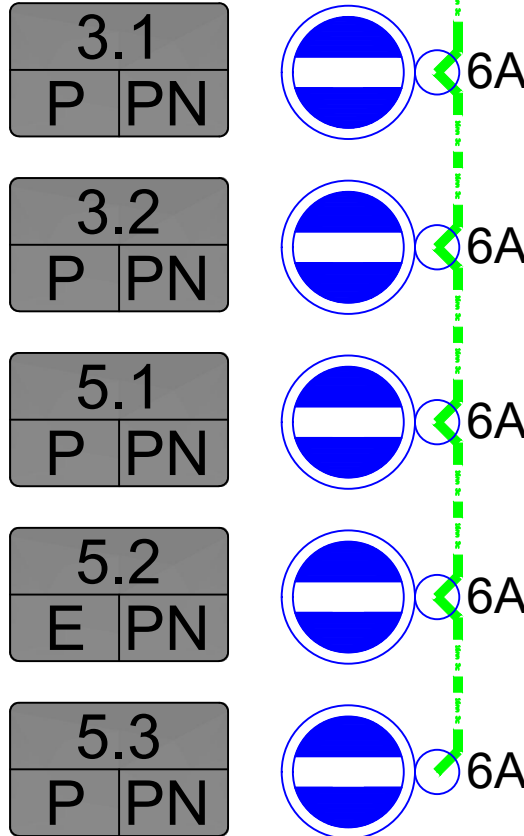


Approx. Ducting Length - 316m
Approx. Cable Length - 379m
Total Wattage - 182W
Total Current - 1.42A*
Cable Calculation - 25935-C-02A

*These figures include a safety multiplier of 1.8x

16A
Circuit 3

10mm² 3 core
XLPE/SWA/PVC

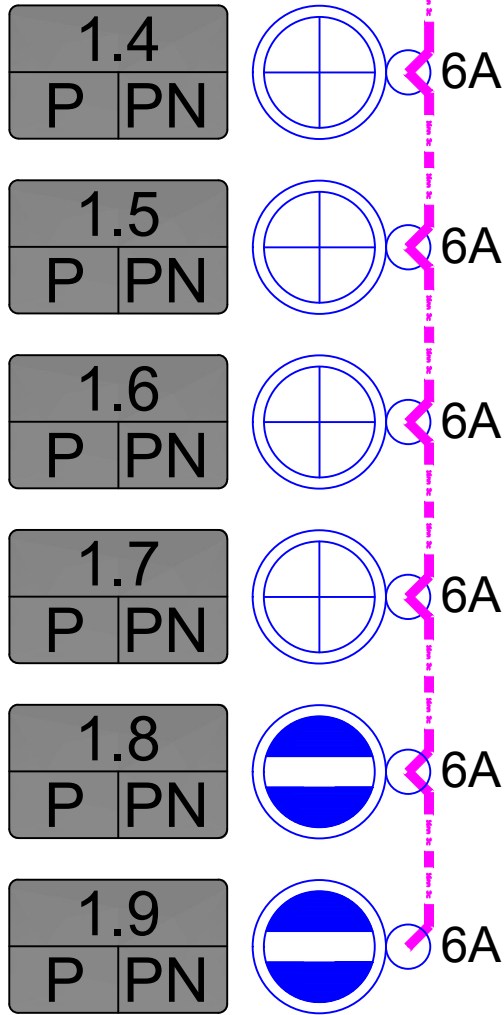


Approx. Ducting Length - 344m
Approx. Cable Length - 413m
Total Wattage - 50W
Total Current - 0.39A*
Cable Calculation - 25925-C-03A

*These figures include a safety multiplier of 1.8x

16A
Circuit 4

10mm² 3 core
XLPE/SWA/PVC



Approx. Ducting Length - 250m
Approx. Cable Length - 300m
Total Wattage - 96W
Total Current - 0.75A*
Cable Calculation - 25925-C-04A

*These figures include a safety multiplier of 1.8x

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Type: Tubular
Height: 5m
Proposed Lantern:
Manufacturer: TRT
Model: Aspect Eco
Optic: GR1
Mounting: Post Top
Tilt: 0°
Wattage: 19W
Photometry file: 'ASE12_LED_19W_GR1_2700K_EXP.ies'
Driver: DALI Enabled
PECU: Lucy Zodion SS3 35 lux with 1: 0.5 Switching
Attachments: None

Proposed Column:
15C
Manufacturer: Malatite
Material: Galvanised Steel
Type: Tubular
Height: 5m
Proposed Lantern:
Manufacturer: TRT
Model: Aspect Eco
Optic: GR4
Mounting: Post Top
Tilt: 0°
Wattage: 10W
Photometry file: 'ASE12_LED_10W_GR4_2700K_EXP.ies'
Driver: DALI Enabled
PECU: Lucy Zodion SS3 35 lux with 1: 0.5 Switching
Attachments: None

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REV	DESCRIPTION	DATE	DRN	APP
DRAWING NO:	25925-D-01	REV:	A	

DRAWING STATUS:
DESIGN



PROJECT:
Bridge Street, Ramsbottom Private

TITLE:
Electrical Schematics

SCALE: AS INDICATED	DESIGNED BY: JL 18/11/2024
SHEET NO: Sheet 4 of 4	APPROVED FOR ISSUE: PDL 18/11/2024



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