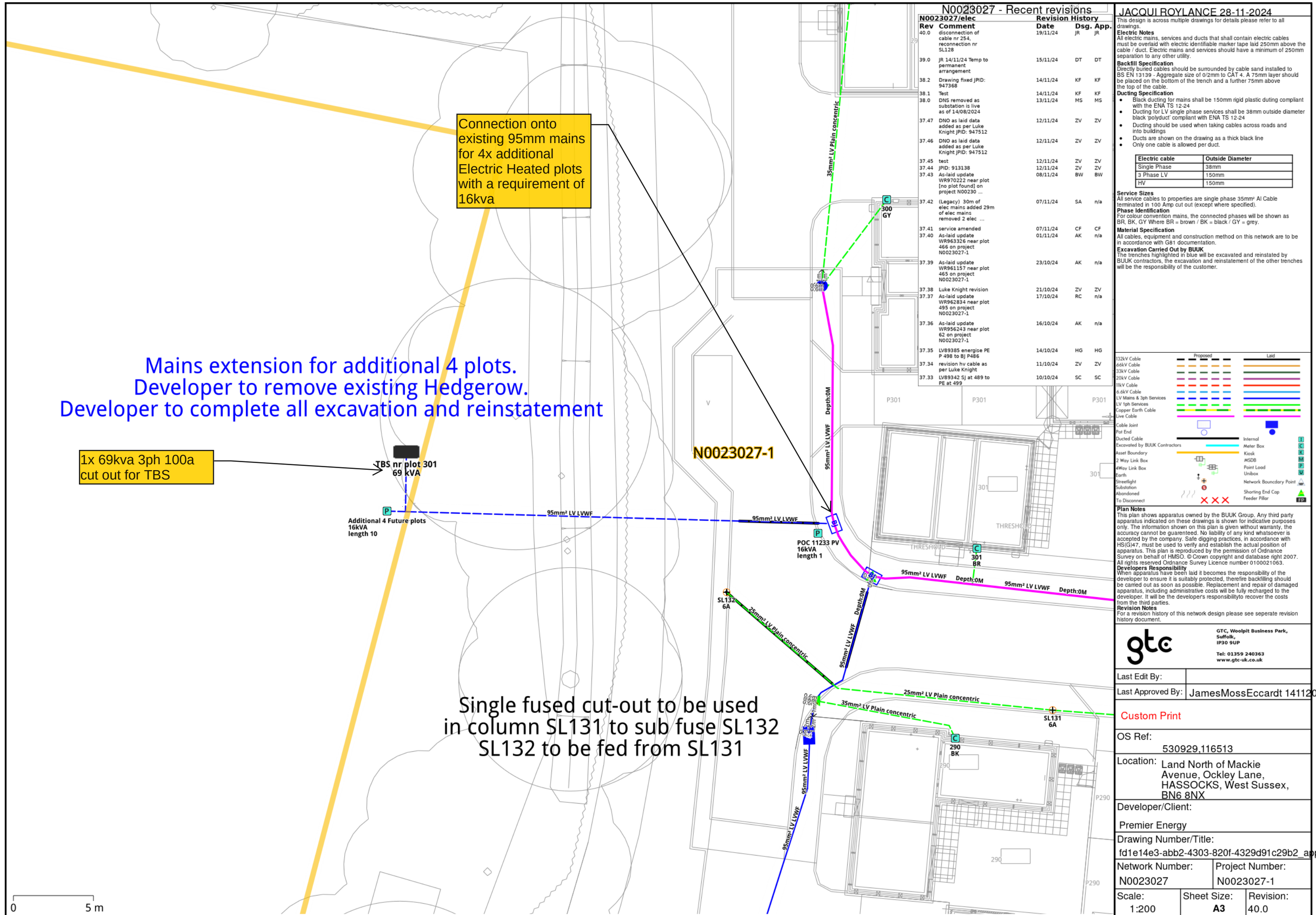




N0023027 - Recent revisions				
Rev	Comment	Date	Dsg.	App.
40.0	disconnection of cable nr 254, reconnection nr SL128	19/11/24	JR	JR
39.0	JR 14/11/24 Temp to permanent arrangement	15/11/24	DT	DT
38.2	Drawing fixed JPID: 947368	14/11/24	KF	KF
38.1	Test	14/11/24	KF	KF
38.0	DNS removed as substation is live as of 14/08/2024	13/11/24	MS	MS
37.47	DNO as laid data added as per Luke Knight JPID: 947512	12/11/24	ZV	ZV
37.46	DNO as laid data added as per Luke Knight JPID: 947512	12/11/24	ZV	ZV
37.45	test	12/11/24	ZV	ZV
37.44	JPID: 913138	12/11/24	ZV	ZV
37.43	As-laid update WR970222 near plot [no plot found] on project N002302-...	08/11/24	BW	BW
37.42	(Legacy) 30m of elec mains added 29m of elec mains removed 2 elec ...	07/11/24	SA	n/a
37.41	service amended	07/11/24	CF	CF
37.40	As-laid update WR963326 near plot 466 on project N0023027-1	01/11/24	AK	n/a
37.39	As-laid update WR961157 near plot 465 on project N0023027-1	23/10/24	AK	n/a
37.38	Luke Knight revision	21/10/24	ZV	ZV
37.37	As-laid update WR962834 near plot 495 on project N0023027-1	17/10/24	RC	n/a
37.36	As-laid update WR956243 near plot 62 on project N0023027-1	16/10/24	AK	n/a
37.35	LV89385 energise PE P 498 to BJ P486	14/10/24	HG	HG
37.34	revision hv cable as per Luke Knight	11/10/24	ZV	ZV
37.33	LV89342 5J at 489 to PE at 499	10/10/24	SC	SC

JACQUI ROYLANCE 28-11-2024

This design is across multiple drawings for details please refer to all drawings.
Electric Notes
All electric mains, services and ducts that shall contain electric cables must be overlaid with electric identifiable marker tape laid 250mm above the cable / duct. Electric mains and services should have a minimum of 250mm separation to any other utility.
Backfill Specification
Directly buried cables should be surrounded by cable sand installed to BS EN 13139 - Aggregate size of 0/2mm to CAT 4. A 75mm layer should be placed on the bottom of the trench and a further 75mm above the top of the cable.
Ducting Specification

- Black ducting for mains shall be 150mm rigid plastic during compliant with the ENA TS 12-24
- Ducting for LV single phase services shall be 38mm outside diameter black 'polyduct' compliant with ENA TS 12-24
- Ducting should be used when taking cables across roads and into buildings
- Ducts are shown on the drawing as a thick black line
- Only one cable is allowed per duct.

Electric cable	Outside Diameter
Single Phase	38mm
3 Phase LV	150mm
HV	150mm

Service Sizes
All service cables to properties are single phase 35mm² Al Cable terminated in 100 Amp cut out (except where specified).
Phase Identification
For colour convention mains, the connected phases will be shown as BR, BK, GY Where BR = brown / BK = black / GY = grey.
Material Specification
All cables, equipment and construction method on this network are to be in accordance with G81 documentation.
Excavation Carried Out by BUUK
The trenches highlighted in blue will be excavated and reinstated by BUUK contractors, the excavation and reinstatement of the other trenches will be the responsibility of the customer.

Proposed	Laid
132kV Cable	
66kV Cable	
33kV Cable	
20kV Cable	
11kV Cable	
6.6kV Cable	
LV Mains & 3ph Services	
LV 1ph Services	
Copper Earth Cable	
Live Cable	
Cable Joint	
Pot End	
Ducted Cable	
Excavated by BUUK Contractors	
Asset Boundary	
2 Way Link Box	
4Way Link Box	
Earth	
Streetlight	
Substation	
Abandoned	
To Disconnect	

Internal	
Meter Box	
Kiosk	
MSDB	
Point Load	
Unbox	
Network Boundary Point	
Shoring End Cap	
Feeder Pillar	

Plan Notes
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Developers Responsibility
When apparatus have been laid it becomes the responsibility of the developer to ensure it is suitably protected, therefore backfilling should be carried out as soon as possible. Replacement and repair of damaged apparatus, including administrative costs will be fully recharged to the developer. It will be the developers responsibility to recover the costs from the third parties.
Revision Notes
For a revision history of this network design please see separate revision history document.

gtec

GTC, Woolpit Business Park,
Suffolk,
IP30 9UP
Tel: 01359 240363
www.gtc-uk.co.uk

Last Edit By:

Last Approved By: JamesMossEccardt 14112024

Custom Print

OS Ref: 530929.116513

Location: Land North of Mackie Avenue, Ockley Lane, HASSECKS, West Sussex, BN6 8NX

Developer/Client: Premier Energy

Drawing Number/Title: fd1e14e3-abb2-4303-820f-4329d91c29b2_upper

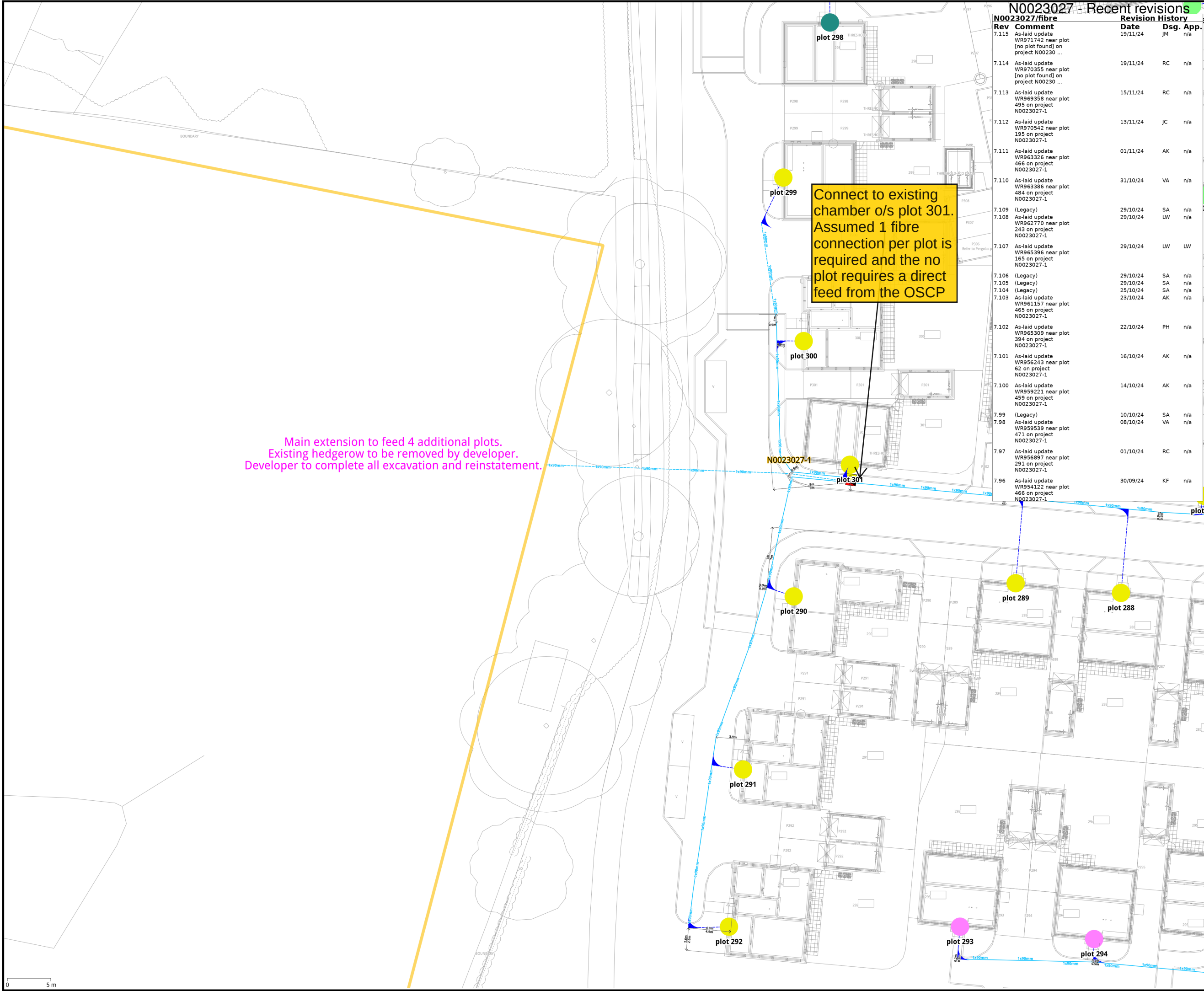
Network Number: N0023027

Project Number: N0023027-1

Scale: 1:200

Sheet Size: A3

Revision: 40.0



N0023027 - Recent revisions

N0023027/fibre		Revision History		
Rev	Comment	Date	Dsg.	App.
7.115	As-laid update WR971742 near plot [no plot found] on project N00230 ...	19/11/24	JM	n/a
7.114	As-laid update WR970355 near plot [no plot found] on project N00230 ...	19/11/24	RC	n/a
7.113	As-laid update WR969358 near plot 495 on project N0023027-1	15/11/24	RC	n/a
7.112	As-laid update WR970542 near plot 195 on project N0023027-1	13/11/24	JC	n/a
7.111	As-laid update WR963326 near plot 466 on project N0023027-1	01/11/24	AK	n/a
7.110	As-laid update WR963386 near plot 484 on project N0023027-1	31/10/24	VA	n/a
7.109	(Legacy)	29/10/24	SA	n/a
7.108	As-laid update WR962770 near plot 243 on project N0023027-1	29/10/24	LW	n/a
7.107	As-laid update WR965396 near plot 165 on project N0023027-1	29/10/24	LW	LW
7.106	(Legacy)	29/10/24	SA	n/a
7.105	(Legacy)	29/10/24	SA	n/a
7.104	(Legacy)	25/10/24	SA	n/a
7.103	As-laid update WR961157 near plot 465 on project N0023027-1	23/10/24	AK	n/a
7.102	As-laid update WR965309 near plot 394 on project N0023027-1	22/10/24	PH	n/a
7.101	As-laid update WR956243 near plot 62 on project N0023027-1	16/10/24	AK	n/a
7.100	As-laid update WR959221 near plot 459 on project N0023027-1	14/10/24	AK	n/a
7.99	(Legacy)	10/10/24	SA	n/a
7.98	As-laid update WR959539 near plot 471 on project N0023027-1	08/10/24	VA	n/a
7.97	As-laid update WR956897 near plot 291 on project N0023027-1	01/10/24	RC	n/a
7.96	As-laid update WR954122 near plot 466 on project N0023027-1	30/09/24	KF	n/a

JACQUI ROYLANCE 28-11-2024

This design is across multiple drawings for details please refer to all drawings.
Excavation Carried Out by BUUK
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Proposed

Fibre Ducts (Inside Diameter)

4x 90mm	3x 90mm
2x 90mm	1x 90mm
3x 55mm	2x 55mm
1x 55mm	Cable tray
50mm Lead in duct	Swept T

or

Laid

350mm	600mm
600mm	min. 350mm

General

Backhaul Ducting

Excavated by BUUK

Asset Boundary

Chambers (Internal Dimensions)

FW-2 Chamber - 725mm x 225mm

FW-4 Chamber - 915mm x 445mm

FW-6 Chamber - 1310mm x 610mm

FW-10 Chamber - 2320mm x 740mm

CW12 Reinforced Chamber 1220mm x 675mm

Backhaul FW-4 Chamber - 915mm x 445mm

Backhaul FW-6 Chamber - 1310mm x 610mm

OSCP Types (Not to Scale)

Brick Built

Brick Built Combined

Rear

Front

Onsite 224 Cabinet with FIRS

Onsite 224 Cabinet

OSCP Awaiting Position

Link Cabinet

FIRS Mast On Structure

FIRS Mast Standalone

Fibres

1	2	3
Blue	Orange	Green
4	5	6
Red	Grey	Yellow
7	8	9
Brown	Violet	Black
10	11	12
White	Pink	Turquoise
13	14	15
Blue	Orange	Green
16	17	18
Red	Grey	Yellow
19	20	21
Brown	Violet	Black
22	23	24
White	Pink	Turquoise

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Revision Notes
For a revision history of this network design please see separate revision history document.

Last Edit By:

Last Approved By: JamesMossEccardt 14112024

Custom Print

OS Ref:

530926.116504

Location:

Land North of Mackie Avenue, Ockley Lane, HASOCKS, West Sussex, BN6 8NX

Developer/Client:

Premier Energy

Drawing Number/Title:

b6ddc6d2-03eb-443f-bedf-862a2b3f9807_appen

Network Number:

N0023027

Project Number:

N0023027-1

Scale:

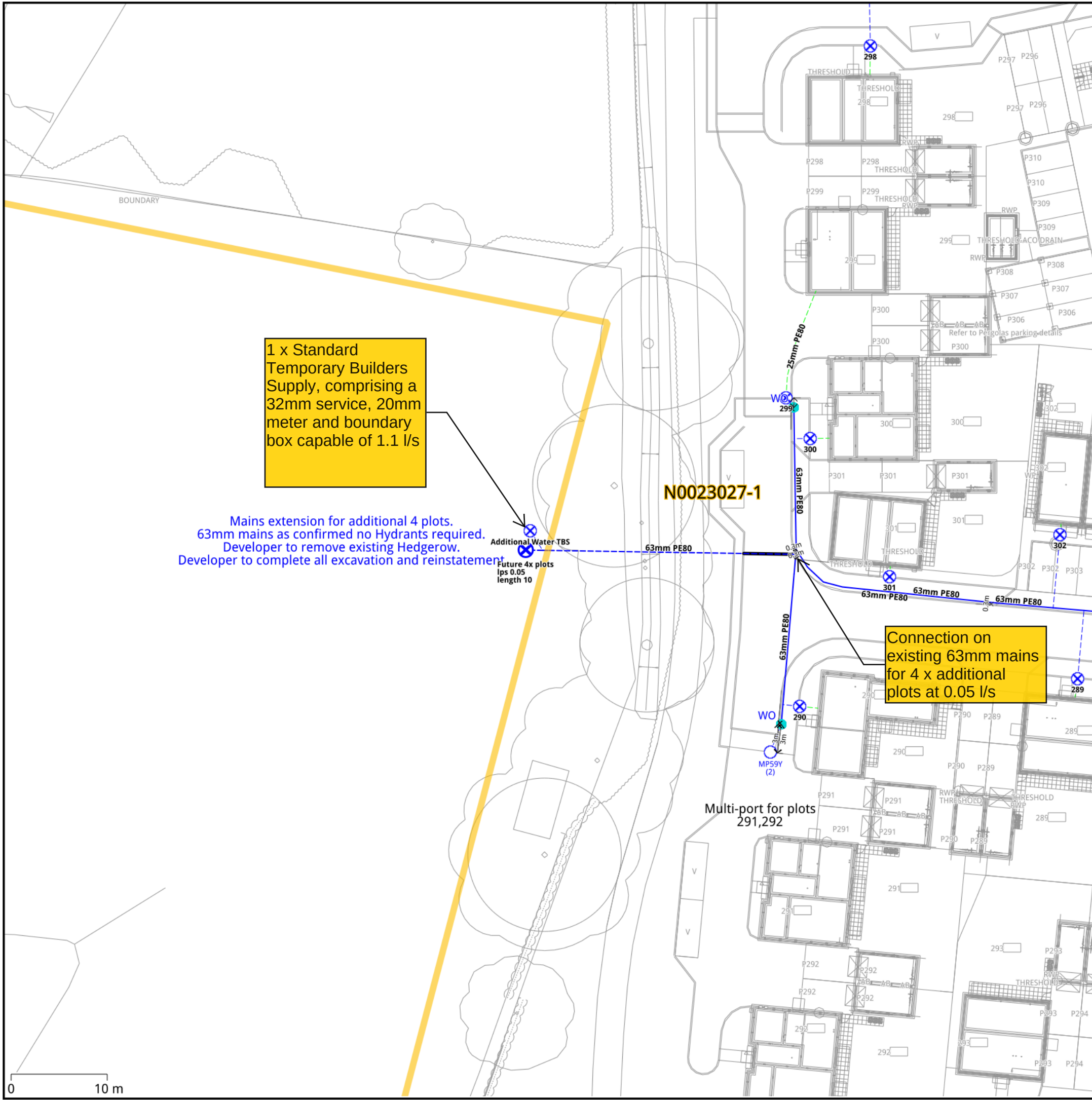
1:400

Sheet Size:

A3

Revision:

7.115



N0023027 - Recent revisions			
N0023027/water_potab		Revision History	
Rev	Comment	Date	Dsg. App.
8.0	Variation to move multi-port for plots 260-265	21/11/24	CC CC
7.0	Variation to multiports plots 266-268 and 269-271	20/11/24	CC CC
6.52	As-laid update WR968873 near plot 493 on project N0023027-1	08/11/24	BW n/a
6.51	As-laid update WR968770 near plot 500 on project N0023027-1	07/11/24	PH n/a
6.50	As-laid update WR963039 near plot 466 on project N0023027-1	07/11/24	RC n/a
6.49	As-laid update WR963326 near plot 466 on project N0023027-1	01/11/24	AK n/a
6.48	As-laid update WR956243 near plot 62 on project N0023027-1	16/10/24	AK n/a
6.47	As-laid update WR961116 near plot 396 on project N0023027-1	03/10/24	LW n/a
6.46	As-laid update WR960893 near plot 387 on project N0023027-1	03/10/24	KF n/a
6.45	As-laid update WR960610 near plot 379 on project N0023027-1	03/10/24	JM n/a
6.44	As-laid update WR954122 near plot 466 on project N0023027-1	30/09/24	KF n/a
6.43	As-laid update WR954023 near plot 176 on project N0023027-1	23/09/24	ZV n/a
6.42	As-laid update WR951977 near plot 363 on project N0023027-1	12/09/24	LW n/a
6.41	As-laid update WR951946 near plot 174 on project N0023027-1	11/09/24	JC n/a
6.40	Amended mains N0023027-1	11/09/24	AN AN
6.39	Amended mains N0023027-1	11/09/24	AN AN
6.38	As-laid update WR951339 near plot 385 on project N0023027-1	06/09/24	LW LW
6.37	(Legacy) 10m of potable water pipes added	06/09/24	SA n/a
6.36	As-laid update WR952740 near plot 471 on project N0023027-1	23/08/24	PH n/a
6.35	As-laid update WR952424 near plot	22/08/24	KB n/a

N0023027 E18 BN6 8NJ

CAUTION NOTE

A watching brief should be maintained for any undiscovered visual/olfactory signs of contamination. Should these be identified, an additional assessment will be required by IWNL.

JACQUI ROYALANCE 28-11-2024

This design is across multiple drawings for details please refer to all drawings.

Potable Water Notes

All mains and services must be laid using an approved PE or PE Barrier pipe. When using PE Barrier pipe all joints & fittings must be wrapped in accordance with manufacturers instruction to prevent ingress of contamination into the water pipes. Underground meter boxes must be installed using female iron couplings. All mains & services (other than 32mm/25mm services) must be installed by IWNL approved personnel only, and mains installed by non-approved personnel will not comply with water / HSE regulations and will need to be replaced.

All external pipes and internal plumbing must comply with the Water Supply (Water Fittings) Regulations 1999 Schedule 2 and the Water Supply (Water Quality) Regulations 2001.

Confirm with the designer before ordering.

PE & Barrier Pipe Specification

Up to and including 63mm PE80 (MDPE), SDR11
90mm up to 315mm PR100 (HPPE) SDR17.6

Ducting Specification

All ducting should be supplied and installed in accordance with BS4962 is a suitable standard for plastic ducting.

- Ducting can only be used for perpendicular carriageway crossings.
- Only one pipe is allowed per duct.
- For service pipe that duct must be blue and perforated along its entire length.

Water Pipe External Diameter	Duct Inside Diameter
25mm & 32mm	50mm
63mm	100mm
90mm	150mm
110mm & 125mm	200mm
160mm & 180mm	300mm
225mm, 250mm & 315mm	400mm

All pipes, fittings and valves must meet technical specifications:

BS437 - 1984; BS6572 - 1985; BS5306 Part 2 - 1990;
WIS 4-24-01 - 1998; WIS 4-32-08 - Issue 3: April 2002;
WIS 4-32-14 - 1995; WIS 4-32-15 - 1995; WIS 4-32-17 - Issue 2 - 2001;
DIN8074 - 1999; DIN8075 - 1999; DIN16963 Part 1 - 1980;
ISO 4427 - 1996; BS EN 12201; BS EN 132244; UNI 19010:2001

Contaminated Ground Conditions

Should the land on which the development is taking place to be contaminated, all underground pipes and fittings installed in conjunction with water mains and service connection will need to be of suitable material to meet the manufacturers specifications which are not adversely affected by the geotechnical conditions. The developer will ensure that the service pipe material and fittings used on site are fit for purpose and suitable for use within contaminated land. In the event that contaminated land is discovered during construction then work should be stopped until the nature of the contamination is identified and alternative protective coated materials provided to allow continuation of main laying.

Proposed Services

Developer to pre-install all services up to and including 32mm at depth of 750mm deep and not greater than 1350mm from finished surface level. Where laying in contaminated land using a barrier pipe or ductile iron, corresponding service pipe must also be of a barrier type.

Proposed Mains

All mains to be laid in pre-excavated trench to 900mm cover, provided by the developer. Road crossings to be continuous plastic duct or drainage pipe sized to accommodate the mains shown on the drawing, at 900mm cover to the finished level.

	Proposed	Laid
Water Mains		
Services		
Ducted Pipe		
Excavated by BUUK Contractors		
Asset Boundary		
Change of Pipe Size/Material		
Gun Metal Manifold & Chamber (With Number of Meters)		
Multi Port Box (With Number of Meters)		
Barrier Area		
Exclusion Area		
PE: Polyethylene		
Abandoned		
To Disconnect		
Incumbent Meter		

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Revision Notes

For a revision history of this network design please see separate revision history document.

Last Edit By:	
Last Approved By:	JamesMossEccardt 14112024
Custom Print	
OS Ref:	530920.116509
Location:	Land North of Mackie Avenue, Ockley Lane, HASSECKS, West Sussex, BN6 8NX
Developer/Client:	Premier Energy
Drawing Number/Title:	32e0fed6-e30a-4463-b459-49a2c33561dc_upper
Network Number:	N0023027
Project Number:	N0023027-1
Scale:	1:400
Sheet Size:	A3
Revision:	8.0