openreach

Openreach Structures

- Joint Box
- Manhole
- Pole
- Pole (planned)
- Duct Tee
- Reducer
- Cabinet

Openreach Spans / Ducts

- Duct
- Duct (planned)

Developer-Proposed Structures

- Duct Tee
- Joint Box
- Reducer

Developer-Proposed Spans / Ducts

- D54 (90mm duct)
- D54 (90mm duct) (2 colours)
- D56 (50mm duct)

Developer-Proposed Equipment

- AGG A
- CBT12 12
- CBT4 4
- CBT8 8
- FDP12 12
- IJ (B) B
- SPLITTER (B) B
- SPLITTER (M) M
- SPLITTER (S) S

Address/Plot Number

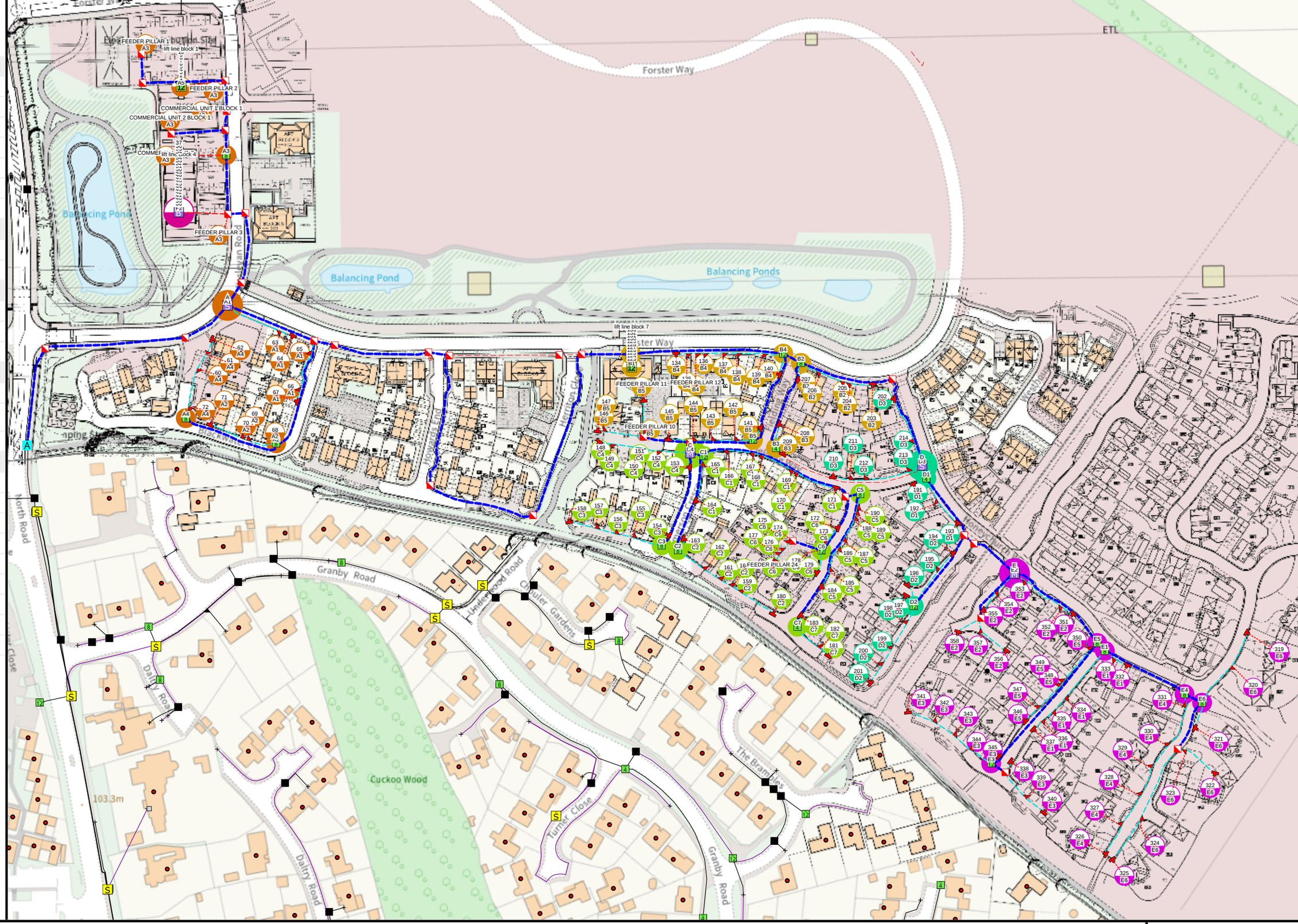
1

A1

Splitter/CBT Ref

DSI-North Road, Stevenage,North Road,Stevenage,SG1 4AH

50m



Plant On Map | Work Order Name: SRX_SRX/01D | Proposal: OPENREACH FIBRE NETWORK | Self-Install: Yes

Remarks: Dummy aggnode placed

Important Notice - BT's joint boxes (JB and JUF) must be constructed in non carriageway situations only. If there is any deviation from this please contact your newSite Representative before work commences

Exchange Area: SRX
Planned By: sefa suman
NSI: SRX/01D
Onsite Project ID: I3C42
Grid Ref: 523582226789
Date: 19/5/2025 19:50:15

Produced using Orion

openreach

Openreach Structures

- Joint Box
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- Pole
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- Duct Tee
- Reducer
- Cabinet

Openreach Spans / Ducts

- Duct
- Duct (planned)

Developer-Proposed Structures

- Duct Tee
- Joint Box
- Reducer

Developer-Proposed Spans / Ducts

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- D54 (90mm duct) (2 colours)
- D56 (50mm duct) (2 colours)

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- AGG A
- CBT12 12
- CBT4 4
- CBT8 8
- FDP12 12
- IJ (B) B
- IJ (S) S
- SPLITTER (M) M
- SPLITTER (S) S

Address/Plot Number

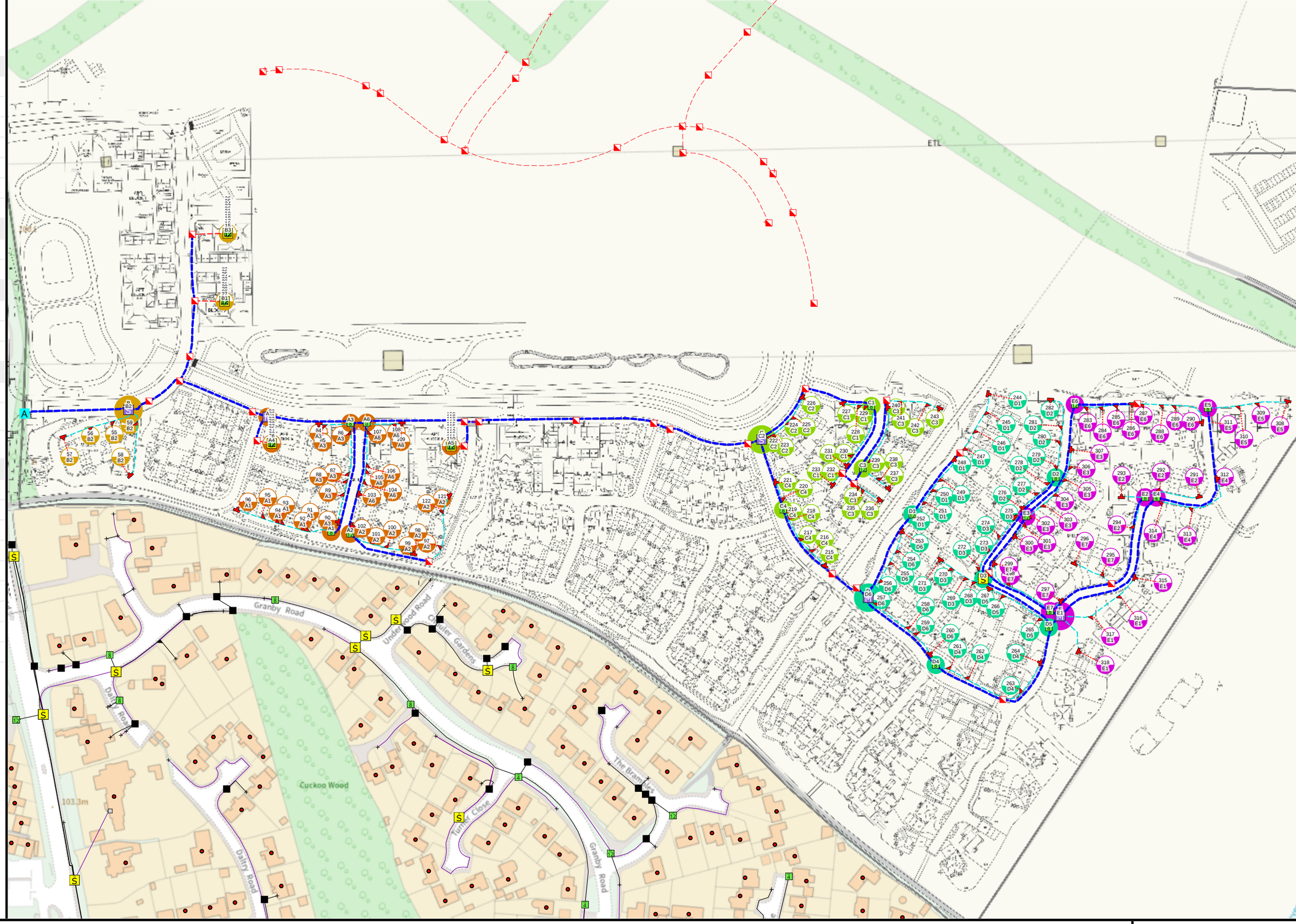
1

A1

Splitter/CBT Ref

DSI-North Road, Stevenage 2, NORTH ROAD, STEVENAGE, SG1 4AH

50m



Plant On Map | Work Order Name: SRX/01T | Proposal: OPENREACH FIBRE NETWORK | Self-Install: Yes

Remarks: DUMMY AGG NODE PLACED

Important Notice - BT's joint boxes (JB and JUF) must be constructed in non carriageway situations only. If there is any deviation from this please contact your newSite Representative before work commences

Exchange Area:
Planned By: Priyanka Singh
NSI: SRX/01T
Onsite Project ID: I5BDT
Grid Ref: 523595226832
Date: 22/3/2023 18:22:20

Produced using Orion

openreach

Openreach Structures

- Joint Box
- Manhole
- Pole
- Pole (planned)
- Duct Tee
- Reducer
- Cabinet

Openreach Spans / Ducts

- Duct
- Duct (planned)

Developer-Proposed Structures

- Duct Tee
- Joint Box
- Reducer

Developer-Proposed Spans / Ducts

- D54 (90mm duct)
- D54 (90mm duct) (2 colours)
- D56 (50mm duct)

Developer-Proposed Equipment

- AGG A
- CBT12 12
- CBT4 4
- CBT8 8
- FDP12 12
- IJ (B) B
- SPLITTER (M) M
- SPLITTER (S) S

Address/Plot Number

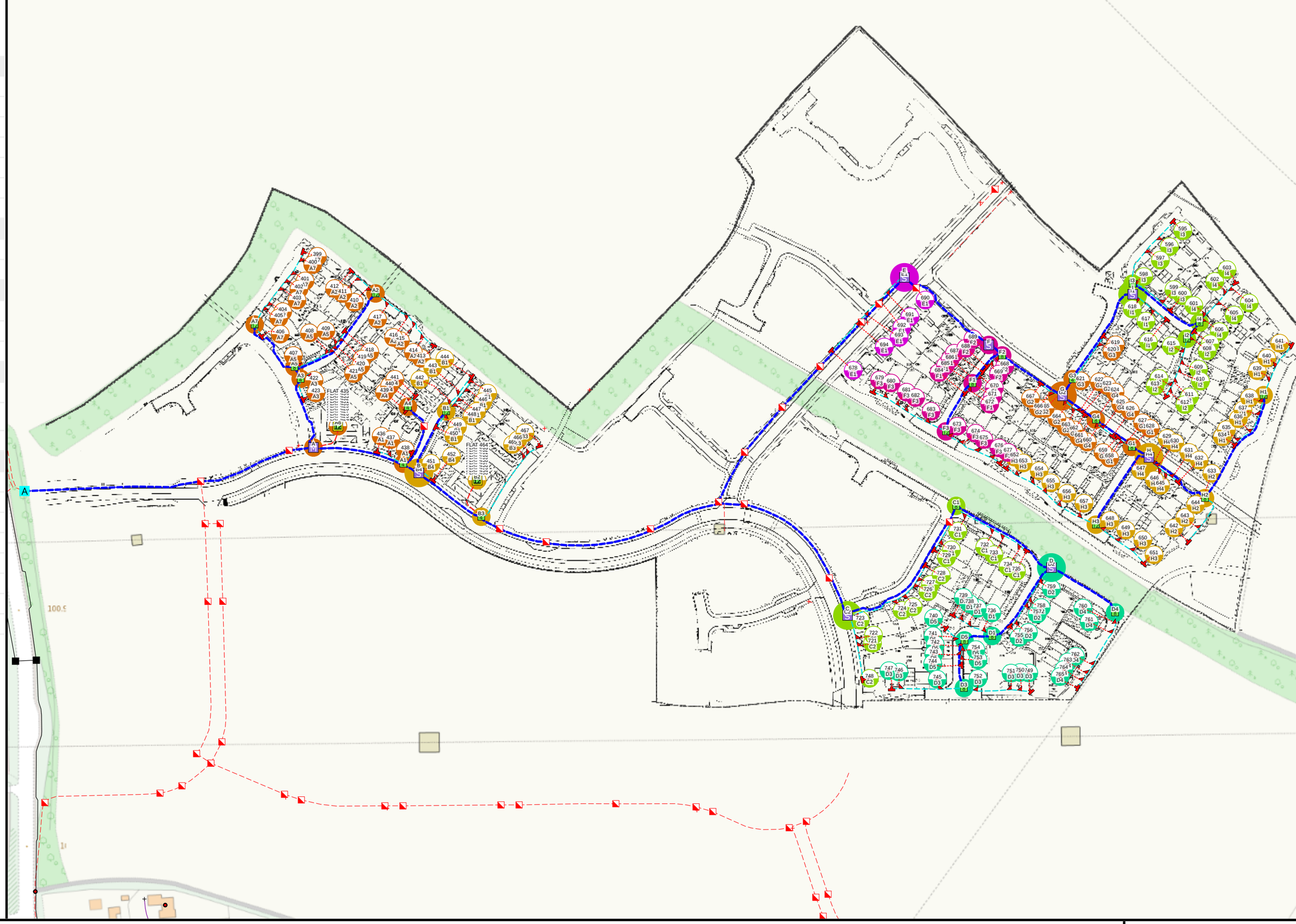
1

A1

Splitter/CBT Ref

Forster Park phase 2,North road,Steve-nage,SG1 4AH

50m



Plant On Map

Work Order Name: SRX/02T

Proposal: OPENREACH FIBRE NETWORK

Self-Install: No

Remarks: DUMMY AGGNODE PLACED

Important Notice - BT's joint boxes (JB and JUF) must be constructed in non carriageway situations only. If there is any deviation from this please contact your newSite Representative before work commences

Exchange Area:
Planned By: Shivam Agarwal
NSI: SRX/02T
Onsite Project ID: JZIZ2
Grid Ref: 523585227057
Date: 9/9/2024 09:27:37

Produced using Orion

openreach

Openreach Structures

- Joint Box
- Manhole
- Pole
- Pole (planned)
- Duct Tee
- Reducer
- Cabinet

Openreach Spans / Ducts

- Duct
- Duct (planned)

Developer-Proposed Structures

- Duct Tee
- Joint Box
- Reducer

Developer-Proposed Spans / Ducts

- D54 (90mm duct)
- D54 (90mm duct) (2 colours)
- D56 (50mm duct)

Developer-Proposed Equipment

- AGG A
- CBT12 12
- CBT4 4
- CBT8 8
- FDP12 12
- IJ (B) B
- SPLITTER (M) M
- SPLITTER (S) S

Address/Plot Number

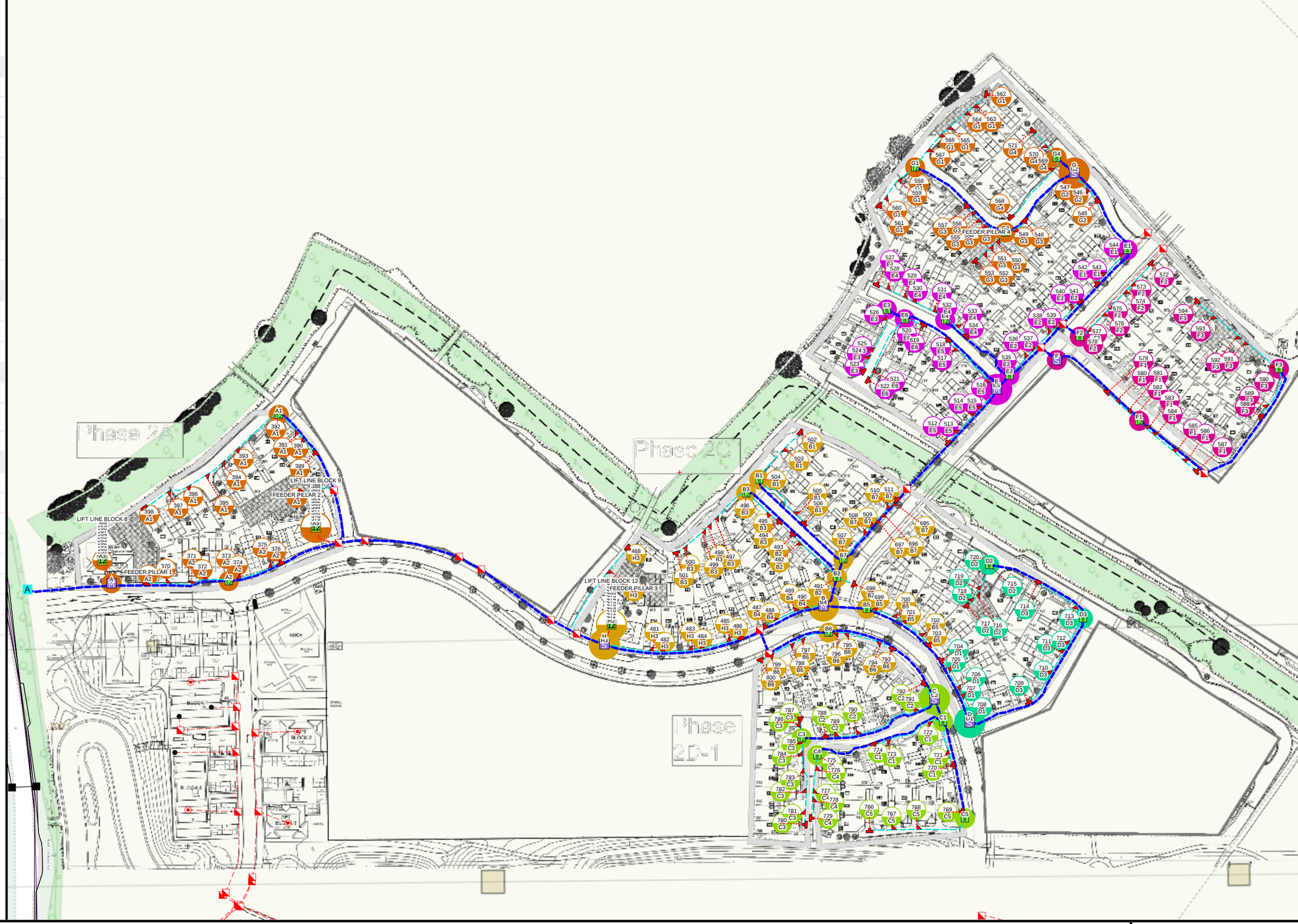
1

A1

Splitter/CBT Ref

New Site - Non DSI
- Forster Park, North Road, Stevenage SG1 4BB

50m



Plant On Map

Work Order Name: SRX/03H

Proposal: OPENREACH FIBRE NETWORK

Self-Install: No

Important Notice - BT's joint boxes (JB and JUF) must be constructed in non carriageway situations only. If there is any deviation from this please contact your newSite Representative before work commences

Exchange Area:
Planned By: Lauren Beswick
NSI: SRX/03H
Onsite Project ID: K8288
Grid Ref: 523585227055
Date: 17/9/2024 18:00:49

Produced using Orion

Please see appendix for stamps

Metered feeder pillar to feed streetlights

Metered feeder pillar to feed streetlights

Three Phase TBS NR 250 max 21kVA, 100 Amp cut-out.
Developer to supply and install kiosk to GTC spec.
Developer to provide TT earthing,
no earth facility to be provided by GTC.

N0023457-1

Metered feeder pillar to feed streetlights

Metered feeder pillar to feed streetlights

Metered feeder pillar to feed streetlights

veloper to install
movable bollard

Metered feeder pillar to feed streetlights

Metered feeder pillar to feed streetlights

0 9 m

KATIE WADDILOVE 30-01-2025

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 duting complian with the ENA TS 12-24
- Ducting for LV single phase services shall be 38mm outside diamete 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 3 Core Cable		
Service Cable		
Pilot Cable		
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	I
Meter Box	C
Kiosk	K
MSDB	M
Point Load	P
Unibox	U
Network Bouncdary Point	
Shorting End Cap	
Feeder Pillar	FP

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, therefire 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 developer's responsibilityto recover the costs from the third parties.

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

GTC, Woolpit Business Park,
Suffolk,
IP30 9UP

Tel: 01359 240363
www.gtc-uk.co.uk

Last Edit By:	
Last Approved By:	DavidThompson 30012025

Custom Print

OS Ref:	523798,226793
Location:	North Road, STEVENAGE, Hertfordshire, SG1 4AH
Developer/Client:	Miller Homes
Drawing Number/Title:	e86080ff-51dc-46b2-b462-6ace08506527_appen
Network Number:	N0023457
Project Number:	N0023457-1
Scale:	1:750
Sheet Size:	A3
Revision:	65.0

N0023457 - Recent revisions

N0023457/elec — **Revision History**

Rev	Comment	Date	Dsg.	App.
65.0	Mains Route Amendment	30/01/25	DT	DT
64.1	As-laid update WR981910 near plot 231 on project N0023457-1	30/01/25	LW	n/a
64.0	3 x 3 Phase EVCP FPs added to design.	29/01/25	JD	JD
63.17	As-laid update WR981449 near plot 208 on project N0023457-1	28/01/25	PH	n/a
63.16	As-laid update WR985038 near plot 169 on project N0023457-2	27/01/25	PH	PH
63.15	As-laid update WR977037 near plot 587 on project N0023457-1	27/01/25	AK	n/a
63.14	(Legacy) 45m of elec mains added 44m of elec mains removed 4 elec ...	24/01/25	SA	n/a
63.13	LV91469 energise MSDB block 6 P110-120	24/01/25	HG	HG
63.12	As-laid update WR979116 near plot 164 on project N0023457-2	15/01/25	KH	n/a
63.11	As-laid update WR981123 near plot [no plot found] on project N00234 ...	15/01/25	KH	KH
63.10	(Legacy) 22m of elec mains added 22m of elec mains removed 2 elec ...	15/01/25	SA	n/a
63.9	As-laid update WR981454 near plot [no plot found] on project N00234 ...	14/01/25	AK	AK
63.8	(Legacy) 31m of elec mains added 31m of elec mains removed 1 elec ...	14/01/25	SA	n/a
63.7	LV91226 energise MSDB - P73-83 Bj to MSDB	13/01/25	HG	HG
63.6	As-laid update WR979422 near plot [no plot found] on project N00234 ...	07/01/25	PH	n/a
63.5	FWR JPID: 962035	02/01/25	KF	KF
63.4	As-laid update WR976278 near plot 153 on project N0023457-1	23/12/24	VA	VA
63.3	(Legacy) 7m of elec mains added 7m of elec mains removed	19/12/24	SA	n/a
63.2	Mains joint amended	19/12/24	CF	CF

N0023457_Sub3_TBC SG1 4AU

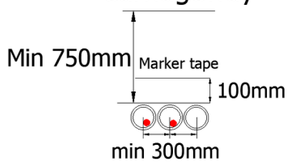
Substation Details

Way	Cable	Fuse (A)
1	300mm	500
2	300mm	500
3	300mm	315
4	300mm	400
5	300mm	315
6	300mm	400

Name:	TBC
Number:	3
Ownership:	DNO_ENC
Transformer size (kVA):	800
LV cabinet:	6-way
CT ratio:	100/5
TLF size (A):	7.5A
Security assess:	Low
Environ assess:	Low
Building type:	StandardBrickBuilt
Door type:	Steel or GRP
Target Earth Reading (ohm):	4.77
Surface type:	Soil
RMU:	Schneider RN2c T1/21

N0023457_E5 SG1 4AR

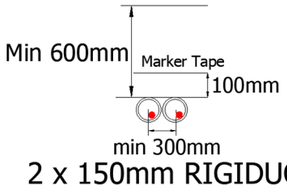
UKPN Cross Section Of Dual HV Cable Ducted In Carriageway



3 x 150mm RIGIDUCT

N0023457_E14 SG1 4TA

UKPN Cross Section Of Dual HV Cable Ducted In Footpath



2 x 150mm RIGIDUCT

KATIE WADDILOVE 30-01-2025

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Ducting Specification

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- 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
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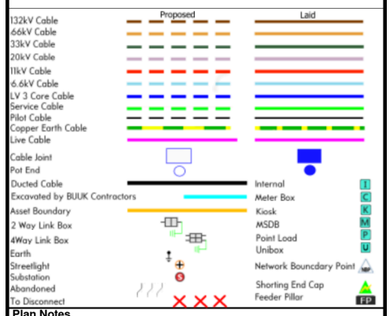

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Revision Notes
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GTC, Woolpit Business Park,
Suffolk,
IP30 9UP

Tel: 01359 240363
www.gtc-uk.co.uk

Last Edit By:	
Last Approved By:	DavidThompson 30012025

Custom Print

OS Ref: 523798,226793

Location: North Road, STEVENAGE, Hertfordshire, SG1 4AH

Developer/Client: Miller Homes

Drawing Number/Title: e86080ff-51dc-46b2-b462-6ace08506527_appen

Network Number:	Project Number:	
N0023457	N0023457-1	
Scale: 1:750	Sheet Size: **A3**	Revision: 65.0

Please see appendix for stamps

JAMES PHILLIPS 06-02-2025

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

Electric Notes
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	Proposed	Laid
132kV Cable		
66kV Cable		
33kV Cable		
20kV Cable		
11kV Cable		
6.6kV Cable		
LV 3 Core Cable		
Service Cable		
Pilot Cable		
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	I
Meter Box	C
Kiosk	K
MSDB	M
Point Load	P
Unibox	U
Network Bouncdary Point	
Shorting End Cap	
Feeder Pillar	FP

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Revision Notes
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GTC, Woolpit Business Park,
Suffolk,
IP30 9UP

Tel: 01359 240363
www.gtc-uk.co.uk

Last Edit By:	
Last Approved By:	AdamKing 06022025
Custom Print	
OS Ref:	523564,226931
Location:	North Road, STEVENAGE, Hertfordshire, SG1 4AH
Developer/Client:	Bellway Homes
Drawing Number/Title:	60370874-a714-4a7b-9856-f429944c1ef9_appen
Network Number:	N0023457
Project Number:	N0023457-2
Scale:	1:2500
Sheet Size:	A3
Revision:	68.6

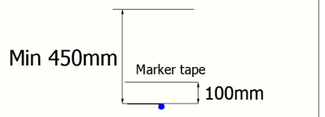
N0023457 - Recent revisions

N0023457/elec — **Revision History**

Rev	Comment	Date	Dsg.	App.
68.6	WR977037 – Colin Pearce	06/02/25	AK	AK
68.5	As-laid update WR985199 near plot 232 on project N0023457-1	05/02/25	PH	n/a
68.4	(Legacy) 29m of elec mains added 28m of elec mains removed 4 elec ...	05/02/25	SA	n/a
68.3	WR983084	05/02/25	MV	MV
68.2	As-laid update WR983084 near plot 731 on project N0023457-1	05/02/25	MV	n/a
68.1	As-laid update WR982757 near plot 481 on project N0023457-2	04/02/25	PH	n/a
68.0	14 x FP	03/02/25	AS	AS
67.0	Feeder Pillar Load Amendment	03/02/25	JD	JD
66.0	Elec Variation for Temp LV connection for plots 219-243 BC 31.1.25	31/01/25	JD	JD
65.0	Mains Route Amendment	30/01/25	DT	DT
64.1	As-laid update WR981910 near plot 231 on project N0023457-1	30/01/25	LW	n/a
64.0	3 x 3 Phase EVCP FPs added to design.	29/01/25	JD	JD
63.17	As-laid update WR981449 near plot 208 on project N0023457-1	28/01/25	PH	n/a
63.16	As-laid update WR985038 near plot 169 on project N0023457-2	27/01/25	PH	PH
63.15	As-laid update WR977037 near plot 587 on project N0023457-1	27/01/25	AK	n/a
63.14	(Legacy) 45m of elec mains added 44m of elec mains removed 4 elec ...	24/01/25	SA	n/a
63.13	LV91469 energise MSDB block 6 P110-120	24/01/25	HG	HG
63.12	As-laid update WR979116 near plot 164 on project N0023457-2	15/01/25	KH	n/a
63.11	As-laid update WR981123 near plot [no plot found] on project N00234 ...	15/01/25	KH	KH
63.10	(Legacy) 22m of elec mains added 22m of elec mains removed 2 elec ...	15/01/25	SA	n/a

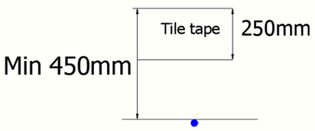
N0023457_E1 SG1 4BB

UKPN Cross Section Of Single LV Cable Laid Direct In Footpath



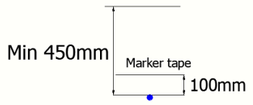
N0023457_E2 SG1 4BB

ENC Cross Section Of Single LV Cable Laid Direct In Footpath



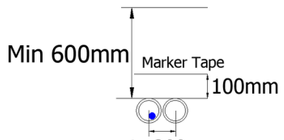
N0023457_E3 SG1 4BB

UKPN Cross Section Of Single LV Cable Laid Direct In Verge



N0023457_E4 SG1 4BB

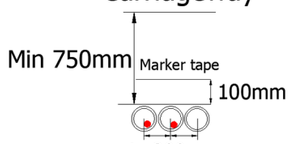
UKPN Cross Section Of Single LV Cable Ducted In Carriageway



2 x 150mm RIGIDUCT

N0023457_E5 SG1 4AR

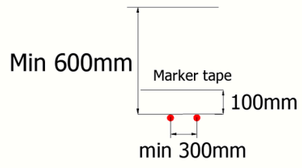
UKPN Cross Section Of Dual HV Cable Ducted In Carriageway



3 x 150mm RIGIDUCT

N0023457_E6 SG1 4BB

UKPN Cross Section Of Dual HV Cable Laid Direct In Footpath



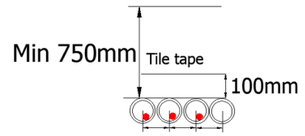
N0023457_E7 SG1 4BB

REQUIRED

UKPN twinwalled 150mm inside diameter (ID) black (Inner AND Outer) rigid polypipe duct (RB150X2) to be used for all UKPN ducting. No other colours will be accepted.

N0023457_E12 SG1 4TA

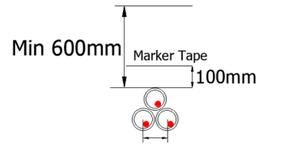
UKPN Cross Section Of Trio HV Cable Ducted In Carriageway



4 x 150mm RIGIDUCT

N0023457_E13 SG1 4TA

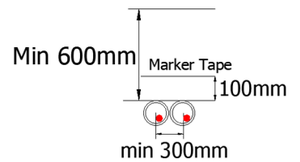
UKPN Cross Section Of Trio HV Cable Ducted In Footpath



2 x 150mm RIGIDUCT

N0023457_E14 SG1 4TA

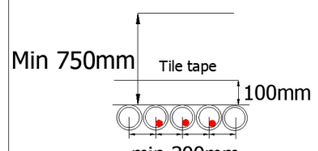
UKPN Cross Section Of Dual HV Cable Ducted In Footpath



2 x 150mm RIGIDUCT

N0023457_E20 SG1 4BB

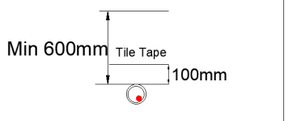
UKPN Cross Section Of Trio HV Cable Ducted In Carriageway



5 x 150mm RIGIDUCT

N0023457_E21 SG1 4BB

UKPN Cross Section Of Single HV Cable Ducted In Footpath



1 x 150mm RIGIDUCT

N0023457_E22 SG1 4BB

UKPN Cross Section Of Single HV Cable Ducted In Carriageway

2 x 150mm RIGIDUCT

N0023457_Sub1_North Road, Bellway IDNO SG1 4TA

Substation Details

Way	Cable	Fuse (A)
1	185mm	500
2	300mm	500
3	300mm	355
4	300mm	315
5	300mm	255
6	300mm	500
7	300mm	500
8	185mm	400

Name:	North Road, Bellway IDNO
Number:	1
Ownership:	DNO_ENC
Transformer size (kVA):	800
LV cabinet:	6-way
CT ratio:	100/5
TLF size (A):	7.5A
Security assess:	Low
Environ assess:	Low
Building type:	SingleIntakeSubstation
Door type:	Steel or GRP
Target Earth Reading (ohm):	4.23
Surface type:	Soil
REMSDAQ/Callisto:	Required
RMU:	Lucy VRN2a T1/21

N0023457_Sub4_TBC SG1 4TB

Substation Details

Way	Cable	Fuse (A)
1	300mm	255
2	300mm	315
3	300mm	355
4	300mm	500

Name:	TBC
Number:	4
Ownership:	DNO_ENC
Transformer size (kVA):	800
LV cabinet:	6-way
CT ratio:	100/5
TLF size (A):	7.5A
Security assess:	Low
Environ assess:	Low
Building type:	StandardBrickBuilt
Door type:	Steel or GRP
Target Earth Reading (ohm):	4.77
Surface type:	Soil
RMU:	Schneider RN2d T1/21

N0023457_Sub5_TBC SG1 4TB

Substation Details

Way	Cable	Fuse (A)
1	300mm	500
2	300mm	500
3	300mm	315
4	300mm	315
5	300mm	315

Name:	TBC
Number:	5
Ownership:	DNO_ENC
Transformer size (kVA):	800
LV cabinet:	6-way
CT ratio:	100/5
TLF size (A):	7.5A
Security assess:	Low
Environ assess:	Low
Building type:	StandardBrickBuilt
Door type:	Steel
Target Earth Reading (ohm):	4.77
Surface type:	Soil
RMU:	Schneider RN2d T1/21

N0023457_Sub2_Sub 1 KP 2 SG1 4TA

Substation Details

Way	Cable	Fuse (A)
1	300mm	500
2	300mm	500
3	300mm	500
4	300mm	500
5	300mm	500
6	300mm	315
7	300mm	315

Name:	Sub 1 KP 2
Number:	2
Ownership:	DNO_ENC
Transformer size (kVA):	800
LV cabinet:	7-way
CT ratio:	100/5
TLF size (A):	7.5A
Security assess:	Low
Environ assess:	Low
Building type:	StandardBrickBuilt
Door type:	Steel or GRP
Target Earth Reading (ohm):	4.77
Surface type:	Soil
RMU:	Schneider RN2c T1/21

N0023457_LV PoC 1 Linkbox SG1 4BB

Linkbox Details

Owned by:	UKPN EPN
Volt drop (%):	3.21
ELI: (mΩ)	117.9
Fuse size (A):	250

N0023457_HV POC 1 SG1 4BB

POC Details

Name:	HV POC 1
Capacity (kVA)	2437
DNO ref:	8200050909
Voltage:	11kV
Volt drop (%):	None
ELI: (mΩ)	None
Conn type:	Straight joint

N0023457_LV POC SG1 4BB

POC Details

Name:	LV POC
Capacity (kVA)	140
DNO ref:	8200055352
Voltage:	LV
Volt drop (%):	3.21
ELI: (mΩ)	9.0
Conn type:	Branch joint

N0023457_MMY5Q SG1 4TA

MSDB Details	MMY5Q	
Plot	**Phase**	**Floor**
424		
425		
426		
427		
428		
429		
430		
431		
432		
433		
434		
435		

N0023457_MM161N SG1 4TA

MSDB Details	MM161N	J1
Plot	**Phase**	**Floor**
114	BK	
LL 110-120	GY	
118	GY	
111	BR	
116	GY	
110	BR	
120	BK	
113	BK	
115	BK	
112	BR	
119	BR	
117	GY	

N0023457_MM12UY SG1 4BB

MSDB Details	MM12UY	J1
Plot	**Phase**	**Floor**
47		2
48		2
49		2
50		2
51		2
52		2
35		0
36		0
37		0
38		0
39		1
40		1
41		1
42		1
43		1
44		1
45		1
46		1
53		2
54		2
LL 34-54	GY,BR,BK	0
34		0

N0023457_MM12UU SG1 4BB

MSDB Details	MM12UU	J1
Plot	**Phase**	**Floor**
1		1
2		1
3		1
4		1
5		1
6		2
7		2
8		2
9		2
10		2
LL 1-10	GY,BR,BK	0

N0023457_MMYFY SG1 4AH

MSDB Details	MMYFY	
Plot	**Phase**	**Floor**
359		
360		
361		
362		
363		
364		
365		
366		
367		
368		
369		

N0023457_MMY5T SG1 4TA

MSDB Details	MMY5T	
Plot	**Phase**	**Floor**
453		
454		
455		
456		
457		
458		
459		
460		
461		
462		
463		
464		

N0023457_MMYG0 SG1 4AH

MSDB Details	MMYG0	
Plot	**Phase**	**Floor**
377		
378		
379		
380		
381		
382		
383		
384		
385		
386		
387		
388		

JAMES PHILLIPS 06-02-2025

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 duting complian with the ENA TS 12-24
- Ducting for LV single phase services shall be 38mm outside diamete 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.

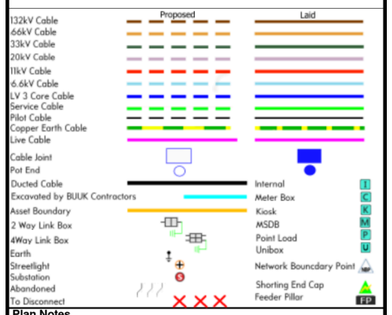
Electric cable	Outside Diameter
Single Phase	38mm
3 Phase LV	150mm
HV	150mm

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.



Plan Notes
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Developers Responsibility
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Revision Notes
For a revision history of this network design please see seperate revision history document.

GTC, Woolpit Business Park, Suffolk, IP30 9UP

Tel: 01359 240363
www.gtc-uk.co.uk

Last Edit By:	
Last Approved By:	AdamKing 06022025

Custom Print

OS Ref:	523564,226931
Location:	North Road, STEVENAGE, Hertfordshire, SG1 4AH
Developer/Client:	Bellway Homes
Drawing Number/Title:	60370874-a714-4a7b-9856-f429944c1ef9_appen
Network Number:	N0023457
Project Number:	N0023457-2
Scale:	1:2500
Sheet Size:	A3
Revision:	68.6

N0023457_MMYG1 SG1 4TA

MSDB Details	MMYG1	
Plot	**Phase**	**Floor**
469		
470		
471		
472		
473		
474		
475		
476		
477		
478		
479		
480		

N0023457_MM15GP SG1 4TA

MSDB Details	MM15GP	J1
Plot	**Phase**	**Floor**
76	BK	0
77	BR	1
78	GY	1
73	BK	0
74	BR	0
75	BR	0
81	BK	2
83	BR	2
82	GY	2
LL 73-83	GY,BR,BK	0
79	BK	1
80	BR	1

N0023457_MM14AU SG1 4TA

MSDB Details	MM14AU	J1
Plot	**Phase**	**Floor**
31	GY	
24	BK	
26	BR	
27	BK	
30	BK	
25	GY	
32	BR	
LL 23-33	GY,BR,BK	
33	BK	
29	BR	
28	GY	
23	BR	

_MM13N6 SG1 4TB

MSDB Details	MM13N6	J1
Plot	**Phase**	**Floor**
LL 123-133	GY,BR,BK	0
133	BK	2
132	BR	2
131	GY	2
123	BR	0
129	BR	1
130	BK	1
125	GY	0
127	BK	1
128	GY	1
124	BK	0
126	BR	0

N0023457_MM13PP SG1 4TA

MSDB Details	MM13PP	J1
Plot	**Phase**	**Floor**
LL 11-22	GY,BR,BK	0
22	GY	2
20	GY	2
19	GY	2
17	BK	1
11	BR	0
18	BK	1
15	BK	1
13	BR	0
12	BR	0
16	BK	1
14	BR	0
21	GY	2

N0023457_Sub3_TBC SG1 4AU

Substation Details		
Way	**Cable**	**Fuse (A)**
1	300mm	500
2	300mm	500
3	300mm	315
4	300mm	400
5	300mm	400
6	300mm	400

Name:	TBC
Number:	3
Ownership:	DNO_ENC
Transformer size (kVA):	800
LV cabinet:	6-way
CT ratio:	100/5
TLF size (A):	7.5A
Security assess:	Low
Environ assess:	Low
Building type:	StandardBrickBuilt
Door type:	Steel or GRP
Target Earth Reading (ohm):	4.77
Surface type:	Soil
RMU:	Schneider RN2c T1/21

JAMES PHILLIPS 06-02-2025

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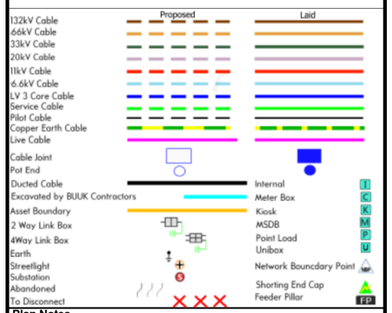

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GTC, Woolpit Business Park,
Suffolk,
IP30 9UP

Tel: 01359 240363
www.gtc-uk.co.uk

Last Edit By:	
Last Approved By:	AdamKing 06022025

Custom Print

OS Ref: 523564,226931

Location: North Road, STEVENAGE, Hertfordshire, SG1 4AH

Developer/Client: Bellway Homes

Drawing Number/Title: 60370874-a714-4a7b-9856-f429944c1ef9_appen

Network Number:	Project Number:	
N0023457	N0023457-2	
Scale: 1:2500	Sheet Size: **A3**	Revision: 68.6

N0023457 - Recent revisions

N0023457/gas		Revision History		
Rev	**Comment**	**Date**	**Dsg.**	**App.**
21.0	Gas added plots 266-316	14/03/25	DT	DT
20.23	As-laid update WR989173 near plot 503 on project N0023457-1	06/03/25	LW	n/a
20.22	As-laid update WR990104 near plot 220 on project N0023457-1	26/02/25	VA	n/a
20.21	As-laid update WR986133 near plot FP24 ADJ 177 on project N0023457-2	24/02/25	ZV	ZV
20.20	N0023457-1 ARER	18/02/25	AK	AK
20.19	mains amended O/S plot 370 N0023457-1	17/02/25	MB	MB
20.18	Mains amended at 163 on N0023457-2	14/02/25	MC	MC
20.17	(Legacy) 1 gas service added 1 gas service removed	11/02/25	SA	n/a
20.16	As-laid update WR982757 near plot 481 on project N0023457-2	04/02/25	PH	n/a
20.15	As-laid update WR979522 near plot 481 on project N0023457-1	04/02/25	KB	n/a
20.14	As-laid update WR979109 near plot 175 on project N0023457-2	17/01/25	BW	BW
20.13	(Legacy) 9 gas services added 9 gas services removed	16/01/25	SA	n/a
20.12	As-laid update WR972411 near plot 227 on project N0023457-1	16/12/24	JC	n/a
20.11	As-laid update WR976861 near plot 226 on project N0023457-1	10/12/24	LW	n/a
20.10	As-laid update WR970400 near plot 421 on project N0023457-1	09/12/24	LW	n/a
20.9	As-laid update WR972182 near plot 784 on project N0023457-1	04/12/24	MV	n/a
20.8	As-laid update WR970142 near plot 88 on project N0023457-2	15/11/24	AK	n/a
20.7	As-laid update WR970958 near plot 156 on project N0023457-2	13/11/24	KH	n/a
20.6	mains amended O/S plot 468	08/11/24	MB	MB
20.5	As-laid update WR957776 near plot 452 on project N0023457-2	28/10/24	PH	n/a

NICHOLA LARGE 14-03-2025

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

Gas Notes
All gas mains and ducts that shall contain a gas main must be overlaid with gas identifiable maker tape 250mm above the apparatus. All gas services and ducts that shall contain a gas service must be overlaid with gas identifiable maker tape 75mm above the apparatus. All gas pipes and ducts that shall contain a gas pipe should have a minimum of 250mm clearance from other utilities.

Maximum Proximity to Properties

Diameter of main (mm)	Minimum Building Proximity (m)			
	<0.075 bar	>0.075 bar ≤ 2 bar	> 2 bar ≤ 5.5 bar	> 5.5 bar ≤ 7 bar
Up to 125	0.25	2	4	6
126 to 355	1	2	4	6
356 to 500	1	2	4	8
501 to 1000	1	5	13	15

Ducting Specification

- Ducting for mains must be yellow and non-perforated and only used perpendicular carriageway crossings.
- Ducting for services must be yellow and perforated along it's entire length.
- Only one pipe is allowed per duct.

Gas Pipe External Diameter	Duct Inside Diameter
25mm & 32mm	60mm
63mm	100mm
90mm	150mm
125mm	200mm
180mm	300mm
250mm & 315mm	400mm

Meter Positions
For all meter box types any position where damage could occour, especially from vehicles, shall be avoided.
Semi concealed Universal meter boxes shall not:

- Obstruct footpaths
- Passageways
- Drives
- Be a trip hazard

Material Specification
For material specifications please refer to GG-PSC-ES-0002 Gas Materials Purchase - Standards & Specifications

Excavation Carried Out by BUUK
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Proposed / Laid

- HP Piepe > 7bar
- IP Pipe 2bar - 7bar
- MP Pipe 0.75 - 2bar
- LP Pipe < 0.75mbar
- Service Pipe
- Ducted Pipe
- Excavate by buuk Contractors
- Asset Boundary
- Connection Point
- Pressure Reduction Station
- Reducer
- Open / Closed Valve
- Network Boundary Point
- Other IGT Boundary
- Abandoned
- To Disconnect

- Semi Concealed S
- Cavity C
- Internal I
- Kisosk K
- Manifold M
- Point Load P
- Unibox U
- Surface Mouted W
- End Cap

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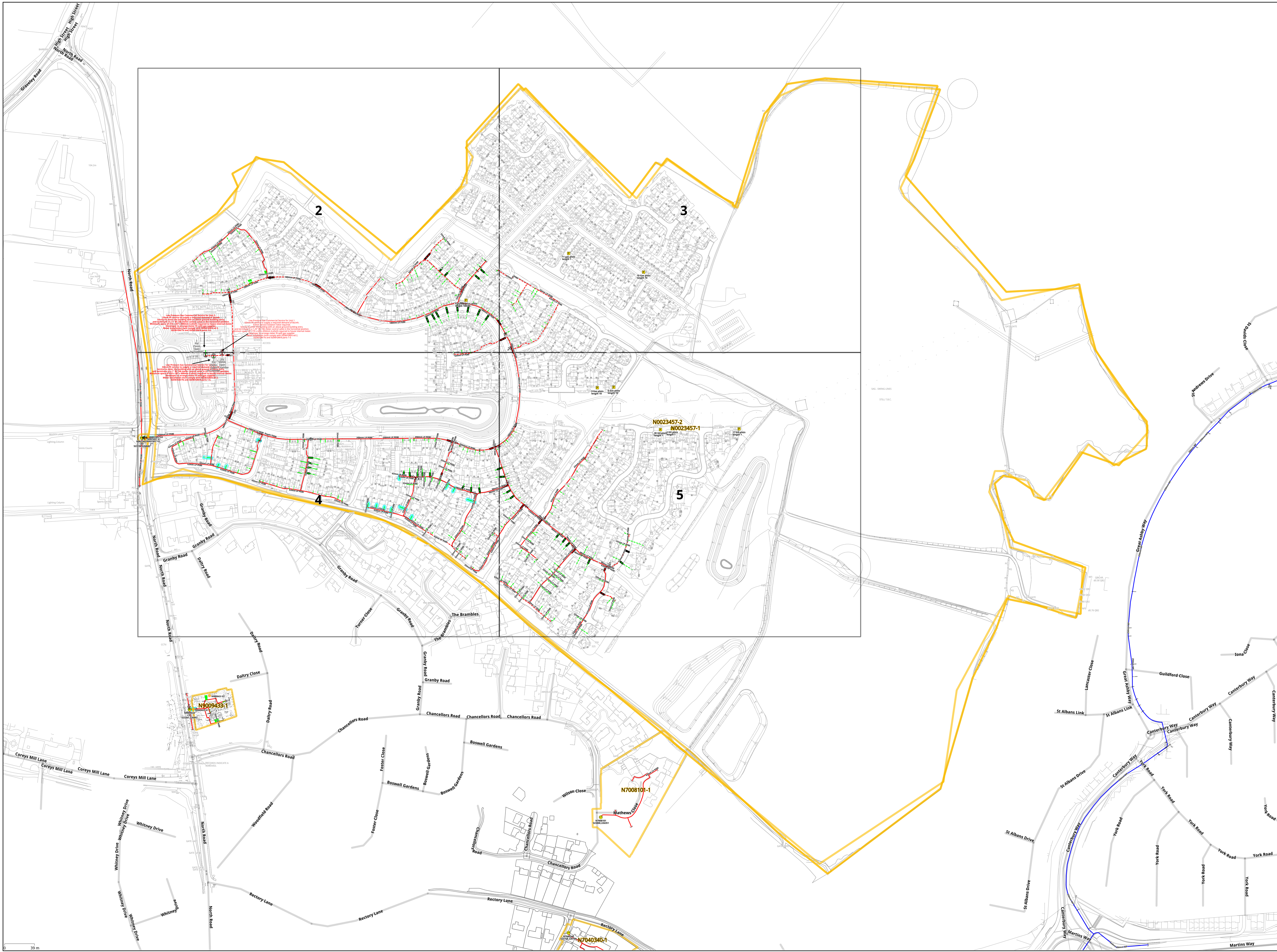
GTC, Woolpit Business Park,
Suffolk,
IP30 9UP

Tel: 01359 240363
www.gtc-uk.co.uk

Last Edit By:	
Last Approved By:	DAVID THOMPSON 1403202
Approved	
OS Ref:	523878,226860
Location:	North Road, STEVENAGE, Hertfordshire, SG1 4AH
Developer/Client:	Miller Homes
Drawing Number/Title:	N0023457-1_5_of_5_Rev2-1_appendix
Network Number: N0023457	Project Number: N0023457-1
Scale: 1:500	Sheet Size: A0
Revision: 21.0	



JAMES PHILLIPS 31-01-2025

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

Gas Notes

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501 to 1000	1	5	13	15

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For material specifications please refer to GG-PSC-ES-0002 Gas Materials Purchase - Standards & Specifications

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
HP Piepe > 7bar		
IP Pipe 2bar - 7bar		
MP Pipe 0.75 - 2bar		
LP Pipe < 0.75mbar		
Service Pipe		
Ducted Pipe		
Excavate by buuk Contractors		
Asset Boundary		
Connection Point		
Pressure Reduction Station		
Reducer		
Open / Closed Valve		
Network Boundary Point		
Other IGT Boundary		
Abandoned		
To Disconnect		

Semi Concealed	S
Cavity	C
Internal	I
Kiosk	K
Manifold	M
Point Load	P
Unibox	U
Surface Mouted	W
End Cap	

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 developer's responsibilityto recover the costs from the third parties.

Revision Notes

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

gtc

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

Last Edit By:

Last Approved By: BRANDON WILLIAMS 170120

Unapproved Variation

OS Ref: 523852,226798

Location: North Road, STEVENAGE, Hertfordshire, SG1 4AH

Developer/Client: Bellway Homes

Drawing Number/Title: N0023457-1_1_of_5_Entire_site_Rev20-14_appr

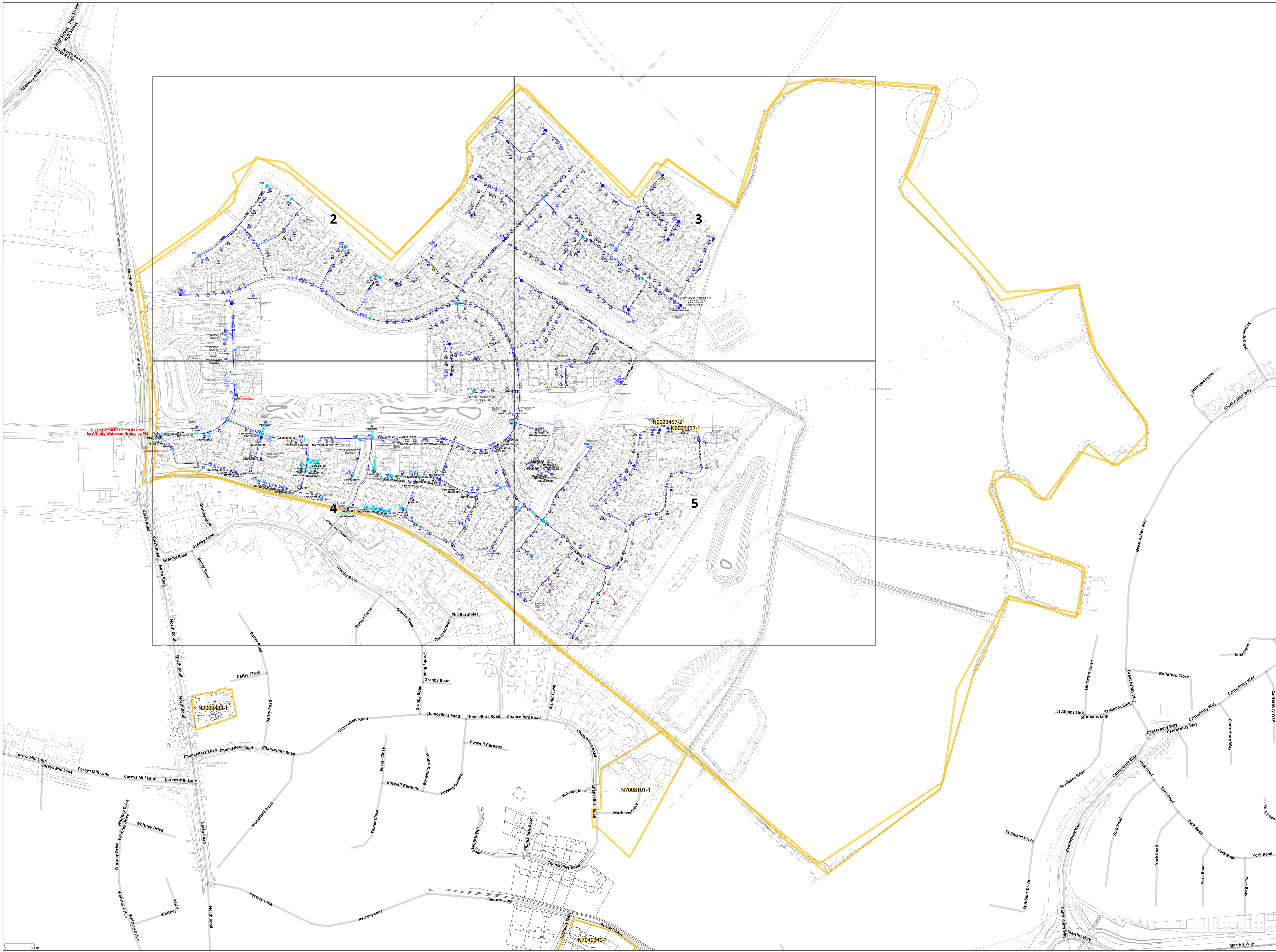
Network Number: N0023457

Project Number: N0023457-2

Scale: 1:1500

Sheet Size: A0

Revision: Based on 20.14



JAMES PHILLIPS 31-01-2025

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 Scepecification

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

Ducting Specification

All duction 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 it's entire length.

Duct Sizes

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:
BS6437 - 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 tp 900mmm cover, provided by the developer. Road crossings to be continuous plastic duct or drainage pipe sized to accomodate the mains shown on the drawing, at 900mm cover to the finished level.

	Proposed	Laid
Water Mains		
Services		
Water Mains (Incumbent)		

- Ducted Pipe
- Excavated by BUUK Contractors
- Asset Boundary
- Upstream Connection
- 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 BP: Barrier Pipe DI: Ductile Iron
- Abandoned
- To Disconnect
- Burst
- Pot Booster
- Non Return Valve
- Wash out Hydrant
- Sluice Valve
- Air Valve
- Fire Hydrant
- Pressure Reducing Valve
- Non Domestic Meter
- Domestic Meter
- Incumbent Meter

Plan Notes

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Revision Notes

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

gtc | Independent Water Networks

Last Edit By:	
Last Approved By:	IANB 30012025

Unapproved Variation

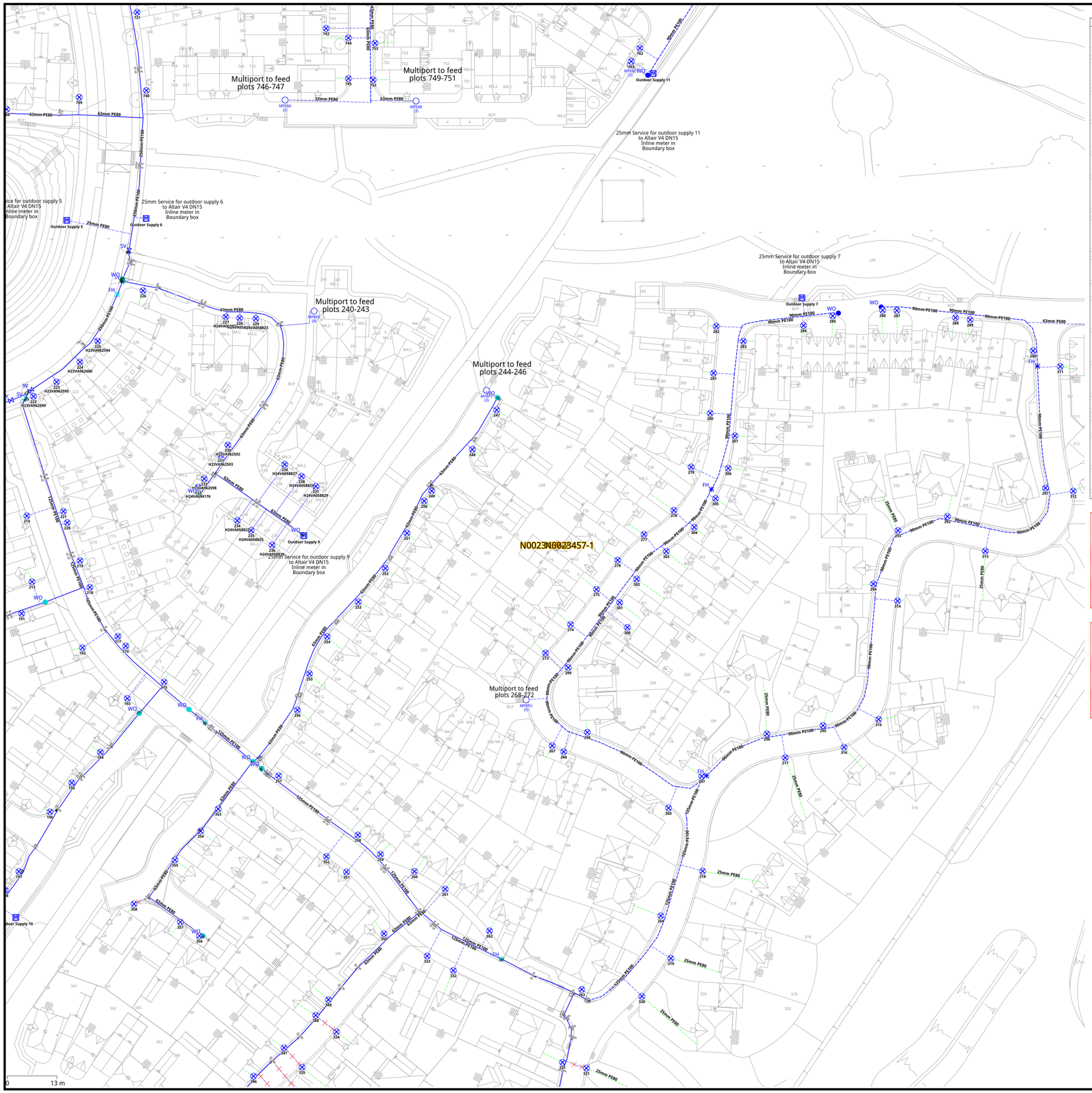
OS Ref: 523852,226798

Location: North Road, STEVENAGE, Hertfordshire, SG1 4AH

Developer/Client: Bellway Homes

Drawing Number/Title: WN0023457-1_1_of_5_Entire_site_Rev30-0_app

Network Number:	Project Number:	
N0023457	N0023457-2	
Scale: 1:1500	Sheet Size: A0	Revision: Based on 30.0



N0023457 - Recent revisions

N0023457/water_potable — **Revision History**

Rev	Comment	Date	Dsg.	App.
30.0	Mains Amendment	30/01/25	I	I
29.5	As-laid update WR981910 near plot 231 on project N0023457-1	30/01/25	LW	n/a
29.4	As-laid update WR985038 near plot 169 on project N0023457-2	27/01/25	PH	PH
29.3	As-laid update WR977037 near plot 587 on project N0023457-1	27/01/25	AK	n/a
29.2	(Legacy) 13m of potable water pipes added	24/01/25	SA	n/a
29.1	As-laid update WR981462 near plot 140 on project N0023457-1	23/01/25	BW	n/a
29.0	Main removed at 226	20/01/25	CC	CC
28.1	As-laid update WR979109 near plot 175 on project N0023457-2	17/01/25	BW	BW
28.0	DNS removed	16/01/25	CC	CC
27.1	(Legacy) 28m of potable water pipes added	16/01/25	SA	n/a
27.0	Communication pipe for BS 73-83 moved	16/12/24	BN	BN
26.4	As-laid update WR972411 near plot 227 on project N0023457-1	16/12/24	JC	n/a
26.3	As-laid update WR972180 near plot [no plot found] on project N00234 ...	10/12/24	BW	n/a
26.2	As-laid update WR970400 near plot 421 on project N0023457-1	09/12/24	LW	n/a
26.1	mains amended O/S plot 411 N0023457-1	18/11/24	MB	MB
26.0	DNS Polygon Amended	18/11/24	BN	BN
25.4	water mains amended N0023457-1	18/11/24	MB	MB
25.3	As-laid update WR970142 near plot 88 on project N0023457-2	15/11/24	AK	n/a
25.2	(Legacy) 3m of potable water pipes added	13/11/24	SA	n/a
25.1	(Legacy) 60m of potable water pipes	13/11/24	SA	n/a

N0023457_E19 SG1 4AU

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.

N0023457_E20 SG1 4AU

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KATIE WADDILOVE 30-01-2025

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Services		
Water Mains (Incumbent)		
Ducted Pipe		
Excavated by BUUK Contractors		
Asset Boundary		
Upstream Connection		
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	BP: Barrier Pipe	DI: Ductile Iron
Abandoned	To Disconnect	

Burst	
Pot Booster	
Non Return Valve	
Wash out Hydrant	WO
Sluice Valve	SV
Air Valve	AV
Fire Hydrant	FH
Pressure Reducing Valve	
Non Domestic Meter	M
Domestic Meter	
Incumbent Meter	

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gtc — Independent Water Networks

Last Edit By:	
Last Approved By:	DavidThompson 30012025

Custom Print

OS Ref:	523800,226797
Location:	North Road, STEVENAGE, Hertfordshire, SG1 4AH
Developer/Client:	Miller Homes
Drawing Number/Title:	5afe5a0a-74ad-4865-a35c-5aa1a5ddd65f_appen
Network Number:	N0023457
Project Number:	N0023457-1
Scale:	1:1000
Sheet Size:	**A3**
Revision:	30.0