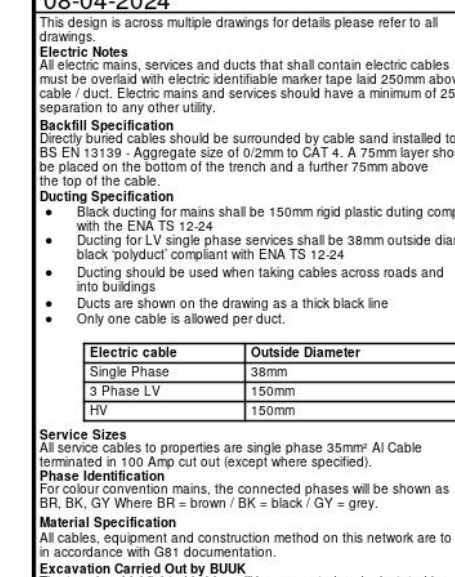




N0014713 - Recent revisions		Revision History	
Rev	Comment	Date	Dsg. App.
23.0	All plots supplied from UKPN Substation Nr28	08/04/24	DT DT
22.0	DNS over cables that will require upsizing from UKPN POC	26/02/24	DT DT
21.0	87 x streetlights	13/02/24	ZO ZO
20.0	2nd Way from UKPN Sub past 13-28	12/02/24	DT DT
19.0	Removal of dual mains	07/02/24	JD JD
18.0	Addition of 4 Way Linkbox	02/02/24	JD JD
17.0	Hyperoptic Cabinet Amendment to Live Way	23/01/24	KC KC
16.0	Hyperoptic Cabinet Amendment	27/12/23	AF AF
15.0	1-114, 116-117, 169-170, 191-200 from UKPN Substation + H-optic Cab	28/11/23	JM JM
14.0	4 x EVCP FPs and Dual Mains at 5-12	14/11/23	DT DT
13.0	DNS Polygons and 185mm spine cable upsized to 300mm	29/09/23	JD JD
12.0	(Legacy) 82m of elec mains added 82m of elec mains removed	07/06/23	KC KC
11.0	(Legacy) 65m of elec mains added 60m of elec mains removed 1 elec ...	06/06/23	MS MS
10.0	(Legacy) 2920m of elec mains added 247m of elec mains removed 207 ...	29/03/23	JM JM
9.2	(Legacy) 14m of elec mains added 14m of elec mains removed 1 elec ...	04/10/22	BB BB
9.1	(Legacy) 13m of elec mains added 13m of elec mains removed 1 elec ...	21/09/22	PH PH
9.0	(Legacy) 166m of elec mains added 166m of elec mains removed 3 ele ...	09/09/22	JD JD
8.1	(Legacy) 42m of elec mains added 42m of elec mains removed 1 elec ...	22/03/22	DG n/a
8.0	(Legacy) 203m of elec mains added 201m of elec mains removed 2 ele ...	12/01/22	MM MM
7.9	(Legacy) 35m of elec mains added 35m of elec mains removed 2 elec ...	02/10/20	CH n/a

N0023661_E1 RH16 2QQ

UKPN Cross Section Of Single LV Cable Laid Direct In Footpath

Min 450mm

Marker tape

100mm

2 x 150mm RIGIDUCT

N0014713_E1 RH16 2GB

Min 750mm

Tile tape

100mm

2 x 150mm RIGIDUCT

N0014713_E2 RH16 2FZ

Min 600mm

Tile tape

100mm

Cross Section Of HV Cable In Footpath

N0023661_E2 RH16 2QQ

ENC Cross Section Of Single LV Cable laid Direct In Footpath

Min 450mm

Tile Tape

250mm

N0019549_E2 RH16 2SJ

UKPN Cross Section Of Dual HV Cable Ducted In Carriageway

Min 750mm

Tile tape

100mm

min 300mm

3 x 150mm RIGIDUCT

N0019549_E4 RH16 2SJ

UKPN Cross Section Of Dual HV Cable Ducted In Footpath

Min 600mm

Tile tape

100mm

min 300mm

2 x 150mm RIGIDUCT

N0019549_E6 RH16 2SJ

UKPN Cross Section Of Dual HV Cable Ducted In Carriageway

Min 750mm

Tile tape

100mm

min 300mm

3 x 150mm RIGIDUCT

N0019549_E7 RH16 2SJ

UKPN Cross Section Of Dual HV Cable Ducted In Footpath

Min 600mm

Tile tape

100mm

min 300mm

2 x 150mm RIGIDUCT

N0019549_E8 RH16 2SJ

UKPN Cross Section Of Dual HV Cable Ducted In Footpath

Min 600mm

Tile tape

100mm

min 300mm

2 x 150mm RIGIDUCT

N0019549_E9 RH16 2RY

UKPN Cross Section Of Dual HV Cable Ducted In Carriageway

Min 750mm

Tile tape

100mm

min 300mm

3 x 150mm RIGIDUCT

N0019549_E10 RH16 2RY

UKPN Cross Section Of Dual HV Cable & Earth Ducted In Footpath

Min 600mm

UKPN Tile Tape

100mm

min 300mm

2 x 150mm RIGIDUCT

N0019549_E11 RH16 2RY

UKPN Cross Section Of Dual HV Cable Ducted In Carriageway

Min 750mm

Tile tape

100mm

min 300mm

70mm Earth

3 x 150mm RIGIDUCT

N0023661 UKPN Linkbox RH16 2QQ

Linkbox Details

Owned by: UKPN SPN

Volt drop (%): 0.02

ELI: (mΩ) 38.8

Fuse size (A): 315

N0019549_MSDB3P2 RH16 2RY

MSDB Details

Plot	Phase	Floor
92	GY	0
88	BR	0
89	GY	0
91	BR	0
93	BK	0
90	BK	0
LL 88-93	BK	0

N0023661 LV POC 1 RH16 2QQ

POC Details

Name: LV POC 1

Capacity (kVA): 277

DNO ref: 8200061699

Voltage: LV

Volt drop (%): 0.09

ELI: (mΩ) 10.0

Conn type: Straight joint

N0019549_MSDB3P1 RH16 2QQ

MSDB Details

Plot	Phase	Floor
79	GY	0
80	GY	0
87	BK	0
LL 79-87	GY	0
85	BK	0
82	BR	0
83	BR	0
84	BR	0
86	BK	0
81	GY	0

N0014713_MSDB1MX RH16 2GB

MSDB Details

Plot	Phase	Floor
159	BK	0
157	BR	0
158	GY	0
159	BK	0
160	BR	0
161	GY	0
162	BK	0
163	BR	0
164	GY	0
LL 156-164	BK	0

N0019549_MSDB3P3 RH16 2RY

MSDB Details

Plot	Phase	Floor
97	GY	0
96	GY	0
101	BK	0
98	BR	0
99	BR	0
103	BK	0
100	BR	0
104	GY	0
LL 96-104	GY	0
102	BK	0

N0023661 RH16 2QQ

Linkbox Details

Way	Cable	Fuse (A)
-----	-------	----------

Owned by: ENC

Volt drop (%): None

ELI: (mΩ) None

N0014713 RH16 2FZ

POC Details

Name: POC

Capacity (kVA): 216

DNO ref: 8200022699

Voltage: 11kV

Volt drop (%): None

ELI: (mΩ) None

Conn type: Branch joint

N0023661 UKPN Way 2.1 RH16 2QQ

POC Details

Name: UKPN Way 2.1

Capacity (kVA): 315

DNO ref: LV

Voltage: 11kV

Volt drop (%): 0.19

ELI: (mΩ) 21.0

Conn type: Straight joint

N0019549_POC RH16 2SJ

POC Details

Name: POC

Capacity (kVA): 216

DNO ref: 8200022699

Voltage: 11kV

Volt drop (%): None

ELI: (mΩ) None

Conn type: Straight joint

N0014713_Sub RH16 2FZ

Substation Details

Way	Cable	Fuse (A)
1	185mm	255
2	185mm	315
3	185mm	255

Name: POC

Number: 315

Ownership: 4-way

Transformer size (kVA): 315

LV cabinet: 4-way

CT ratio: 10A

TLF size (A): Low

Security assess: StandardBrickBuilt

Environ assess: Steel or GRP

Building type: Soil

Door type: Schneider RN2c T1/21

Intake RMU #1:

N0014713 RH16 2GB

POC Details

Name: Saffron Close IDNO

Capacity (kVA): 500

DNO ref: DNO_ENC

Voltage: 11kV

Volt drop (%): None

ELI: (mΩ) None

Conn type: Branch joint

N0014713 RH16 2DY

POC Details

Name: Saffron Close IDNO

Capacity (kVA): 500

DNO ref: DNO_ENC

Voltage: 11kV

Volt drop (%): None

ELI: (mΩ) None

Conn type: Branch joint

N0019549_MSDB3P0 RH16 2RY

MSDB Details

Plot	Phase	Floor
43	GY	0
41	BK	0
40	GY	0
44	BK	0
42	BR	0
39	BR	0
LL 36-44	BK	0
36	BR	0
38	BK	0
37	GY	0

N0014713_Sub Saffron Close IDNO RH16 2RY

Substation Details

Way	Cable	Fuse (A)
1	185mm	500
2	185mm	500
3	185mm	315
4	185mm	315

N0023661 UKPN Way 2.2 RH16 2QQ

POC Details

Name: UKPN Way 2.2

Capacity (kVA): 500

DNO ref: DNO_ENC

Voltage: LV

Volt drop (%): 0.19

ELI: (mΩ) 21.0

Conn type: Straight joint

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.

Plan Notes

This plan shows apparatus owned by the BUUK Group. Any third party apparatus indicated on these drawings is shown for indicative purposes only. The information shown on this plan is given without warranty, the accuracy cannot be guaranteed. No liability of any kind whatsoever is accepted by the company. Safe digging practices, in accordance with H5(GH)7, must be used to verify and establish the actual position of apparatus. This plan is reproduced by the permission of Ordnance Survey on behalf of HMSO. © Crown copyright and database right 2007. All rights reserved Ordnance Survey Licence number 0100021063.

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.

GTC, Woolpit Business Park,
Suffolk,
IP30 9UP

Tel: 01359 240363
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Last Edit By:

Last Approved By: DAVID THOMPSON 0804202

Approved

OS Ref:

535177.124507

Location:

Land to the East of
Gravelye Lane, Lyoth
Lane, Lindfield, HAYWARDS
HEATH, RH16 2BD

Developer/Client:

Barratt Homes

Drawing Number/Title:

EN0014713-1_2_of_5_Rev23-0_appendix

Network Number:

Project Number:

N0014713

N0014713-1

Scale:

Sheet Size:

Revision:

1:1500

A3

23.0



N0014713 - Recent revisions		N0023661_E2 RH16 2QQ	
N0014713/elec		Revision History	
Rev	Comment	Date	Dsg. App.
24.0	connection of 1 x TBS	14/05/24	ZO ZO
23.0	All plots supplied from UKPN Substation Nr28	08/04/24	DT DT
22.0	DNS over cables that will require upsizing from UKPN POC	26/02/24	DT DT
21.0	87 x streetlights	13/02/24	ZO ZO
20.0	2nd Way from UKPN Sub past 13-28	12/02/24	DT DT
19.0	Removal of dual mains	07/02/24	JD JD
18.0	Addition of 4 Way Linkbox	02/02/24	JD JD
17.0	Hyperoptic Cabinet Amendment to Live Way	23/01/24	KC KC
16.0	Hyperoptic Cabinet Amendment	27/12/23	AF AF
15.0	1-114, 116-117, 169-170, 191-200 from UKPN Substation + H-optic Cab	28/11/23	JM JM
14.0	4 x EVCP FPs and Dual Mains at 5-12	14/11/23	DT DT
13.0	DNS Polygons and 185mm spine cable upsized to 300mm	29/09/23	JD JD
12.0	(Legacy) 82m of elec mains added 82m of elec mains removed	07/06/23	KC KC
11.0	(Legacy) 65m of elec mains added 60m of elec mains removed 1 elec ...	06/06/23	MS MS
10.0	(Legacy) 2920m of elec mains added 247m of elec mains removed 207 ...	29/03/23	JM JM
9.2	(Legacy) 14m of elec mains added 14m of elec mains removed 1 elec ...	04/10/22	BB BB
9.1	(Legacy) 13m of elec mains added 13m of elec mains removed 1 elec ...	21/09/22	PH PH
9.0	(Legacy) 166m of elec mains added 166m of elec mains removed 3 ele ...	09/09/22	JD JD
8.1	(Legacy) 42m of elec mains added 42m of elec mains removed 1 elec ...	22/03/22	DG n/a
8.0	(Legacy) 203m of elec mains added 201m of elec mains removed 2 ele ...	12/01/22	MM MM

N0023661_E1 RH16 2QQ

UKPN Cross Section Of Single LV Cable Laid Direct In Footpath

Min 450mm

Marker tape

100mm

2 x 150mm RIGIDUCT

N0014713_E1 RH16 2GB

Min 750mm

Tile tape

100mm

2 x 150mm RIGIDUCT

N0014713_E2 RH16 2FZ

Min 600mm

Tile tape

100mm

Cross Section Of HV Cable In Footpath

N0023661_E2 RH16 2QQ

ENC Cross Section Of Single LV Cable laid Direct In Footpath

Min 450mm

Tile Tape

250mm

N0019549_E2 RH16 2SJ

UKPN Cross Section Of Dual HV Cable Ducted In Carriageway

Min 750mm

Tile tape

100mm

min 300mm

3 x 150mm RIGIDUCT

N0019549_E4 RH16 2SJ

UKPN Cross Section Of Dual HV Cable Ducted In Footpath

Min 600mm

Tile tape

100mm

min 300mm

2 x 150mm RIGIDUCT

N0019549_E6 RH16 2SJ

UKPN Cross Section Of Dual HV Cable Ducted In Carriageway

Min 750mm

Tile tape

100mm

min 300mm

3 x 150mm RIGIDUCT

N0019549_E7 RH16 2SJ

UKPN Cross Section Of Dual HV Cable Ducted In Footpath

Min 600mm

Tile tape

100mm

min 300mm

2 x 150mm RIGIDUCT

N0019549_E8 RH16 2SJ

UKPN Cross Section Of Dual HV Cable Ducted In Footpath

Min 600mm

Tile tape

100mm

min 300mm

2 x 150mm RIGIDUCT

N0019549_E9 RH16 2RY

UKPN Cross Section Of Dual HV Cable Ducted In Carriageway

Min 750mm

Tile tape

100mm

min 300mm

3 x 150mm RIGIDUCT

N0019549_E10 RH16 2RY

UKPN Cross Section Of Dual HV Cable & Earth Ducted In Footpath

Min 600mm

UKPN Tile Tape

100mm

min 300mm

2 x 150mm RIGIDUCT

N0019549_E11 RH16 2RY

UKPN Cross Section Of Dual HV Cable Ducted In Carriageway

Min 750mm

Tile tape

100mm

min 300mm

70mm Earth

3 x 150mm RIGIDUCT

N0014713 RH16 2GB

POC Details

Name: LV POC 1
Capacity (kVA): 8200061699
DNO ref: LV
Voltage: 11kV
Volt drop (%): None
ELI: (mΩ) 21.0
Conn type: Branch joint

N0023661_LV POC 1 RH16 2QQ

POC Details

Name: LV POC 1
Capacity (kVA): 8200061699
DNO ref: LV
Voltage: 11kV
Volt drop (%): 0.09
ELI: (mΩ) 10.0
Conn type: Straight joint

N0023661_UKPN Linkbox RH16 2QQ

Linkbox Details

Owned by: UKPN SPN
Volt drop (%): 0.02
ELI: (mΩ) 38.8
Fuse size (A): 315

N0014713_MSDB1MX RH16 2GB

MSDB Details

Plot	Phase	Floor
156	BK	0
157	BR	0
158	GY	0
159	BK	0
160	BR	0
161	GY	0
162	BK	0
163	BR	0
164	GY	0
LL 156-164	BK	0

N0019549_MSDB3P2 RH16 2RY

MSDB Details

Plot	Phase	Floor
92	GY	0
88	BR	0
89	GY	0
91	BR	0
93	BK	0
90	BK	0
LL 88-93	BK	0

N0019549_MSDB3P0 RH16 2RY

MSDB Details

Plot	Phase	Floor
43	GY	0
41	BK	0
40	GY	0
44	BK	0
42	BR	0
39	BR	0
LL 36-44	BK	0
36	BR	0
38	BK	0
37	GY	0

N0019549_MSDB3P3 RH16 2RY

MSDB Details

Plot	Phase	Floor
97	GY	0
96	GY	0
101	BK	0
98	BR	0
99	BR	0
103	BK	0
100	BR	0
104	GY	0
LL 96-104	GY	0
102	BK	0

N0014713 RH16 2FZ

POC Details

Name: LV POC 1
Capacity (kVA): 8200061699
DNO ref: LV
Voltage: 11kV
Volt drop (%): None
ELI: (mΩ) None
Conn type: Branch joint

N0014713_Sub_RH16 2FZ

Substation Details

Way	Cable	Fuse (A)
1	185mm	255
2	185mm	315
3	185mm	255

N0014713_Sub_RH16 2FZ

Substation Details

Way	Cable	Fuse (A)
1	185mm	255
2	185mm	315
3	185mm	255

N0019549_POC RH16 2SJ

POC Details

Name: POC
Capacity (kVA): 8200022699
DNO ref: 11kV
Voltage: 11kV
Volt drop (%): None
ELI: (mΩ) None
Conn type: Straight joint

N0019549_POC RH16 2SJ

POC Details

Name: POC
Capacity (kVA): 8200022699
DNO ref: 11kV
Voltage: 11kV
Volt drop (%): None
ELI: (mΩ) None
Conn type: Straight joint

N0023661_UKPN Way 2.1 RH16 2QQ

POC Details

Name: UKPN Way 2.1
Capacity (kVA): LV
DNO ref: LV
Voltage: 0.19
Volt drop (%): None
ELI: (mΩ) 21.0
Conn type: Straight joint

N0023661_RH16 2QQ

Linkbox Details

Way	Cable	Fuse (A)
1	185mm	500
2	185mm	500
3	185mm	315
4	185mm	315

Owned by: ENC
Volt drop (%): None
ELI: (mΩ) None

N0023661_UKPN Way 2.2 RH16 2QQ

POC Details

Name: UKPN Way 2.2
Capacity (kVA): LV
DNO ref: LV
Voltage: 0.19
Volt drop (%): None
ELI: (mΩ) 21.0
Conn type: Straight joint

N0019549_MSDB3P1 RH16 2QQ

MSDB Details

Plot	Phase	Floor
79	GY	0
80	GY	0
87	BK	0
LL 79-87	GY	0
85	BK	0
82	BR	0
83	BR	0
84	BR	0
86	BK	0
81	GY	0

N0014713_Sub Saffron Close IDNO RH16 2RY

Substation Details

Way	Cable	Fuse (A)
1	185mm	500
2	185mm	500
3	185mm	315
4	185mm	315

Name: Saffron Close IDNO
Number: 500
Ownership: DNO_ENC
Transformer size (kVA): 4-way
LV cabinet: 50/5
CT ratio: 10A
TLF size (A): Low
Security assess: Low
Environ assess: StandardBrickBuilt
Building type: Steel or GRP
Door type: Soil
Surface type: Schneider RN2c T1/21
RMU: Intake RMU #1:

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

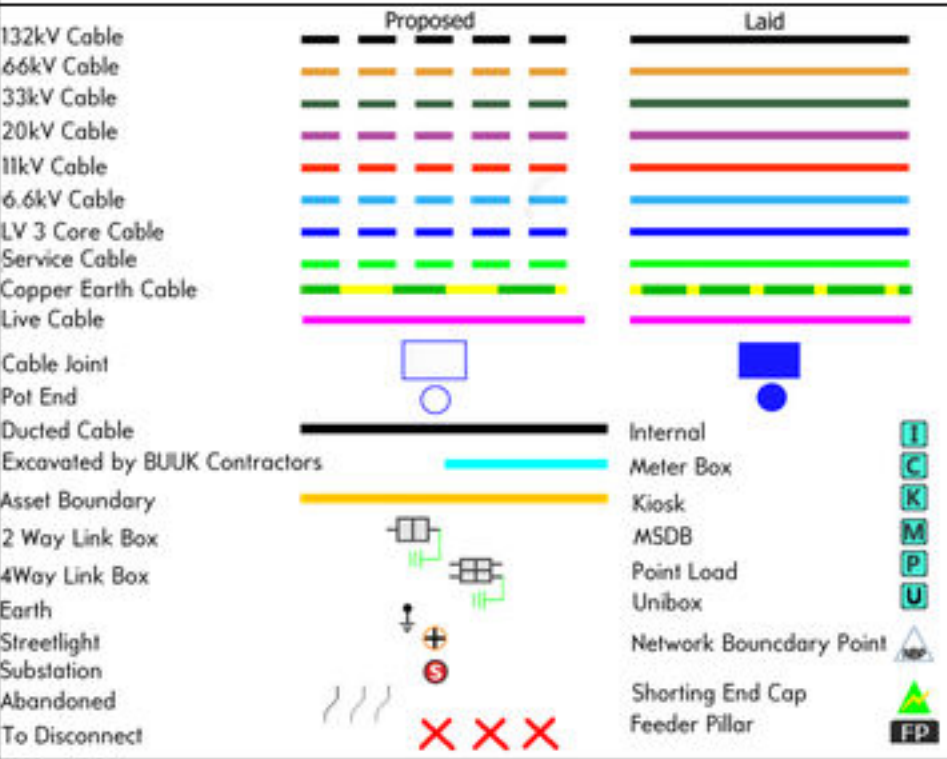
For colour convention mains, the connected phases will be shown as BR, BK, GY Where BR = brown / BK = black / GY = grey.

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.



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

GTC, Woolpit Business Park,
Suffolk,
IP30 9UP

Tel: 01359 240363
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Last Edit By:

Last Approved By: ZAK OXLEY 14052024

Unapproved Variation

OS Ref: 535177.124507

Location: Land to the East of Gravelye Lane, Lyoth Lane, Lindfield, HAYWARDS HEATH, RH16 2BD

Developer/Client: Barratt Homes

Drawing Number/Title: EN0014713-1_2_of_5_Rev24-0_appendix

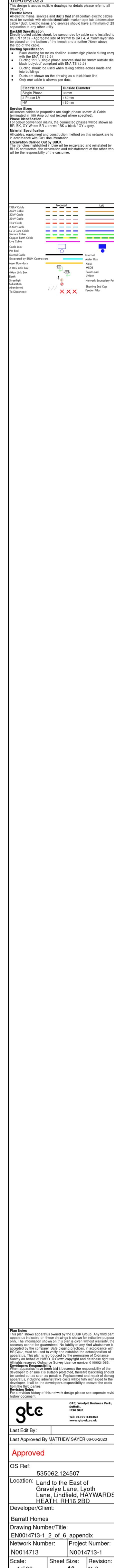
Network Number: N0014713

Project Number: N0014713-1

Scale: 1:1500

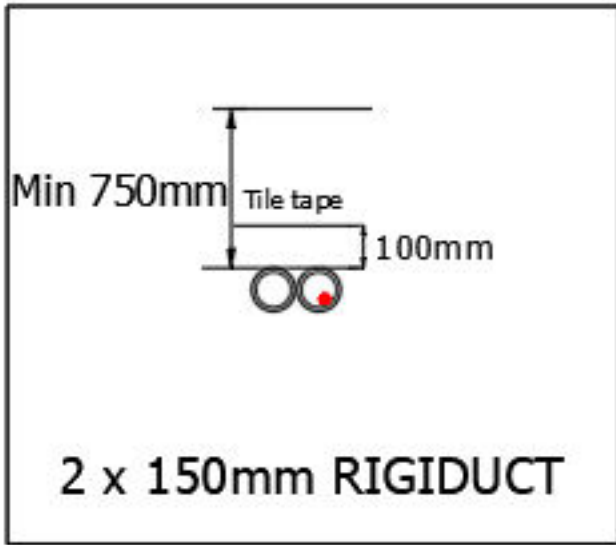
Sheet Size: A3

Revision: Based on 24.0

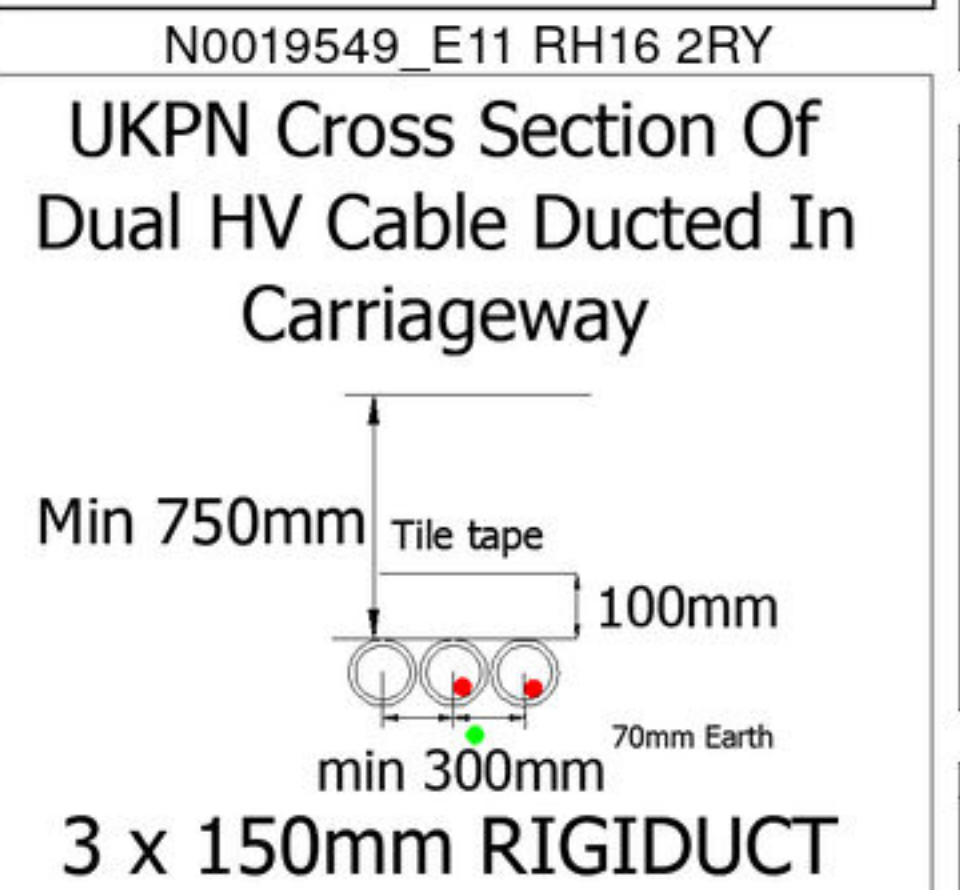
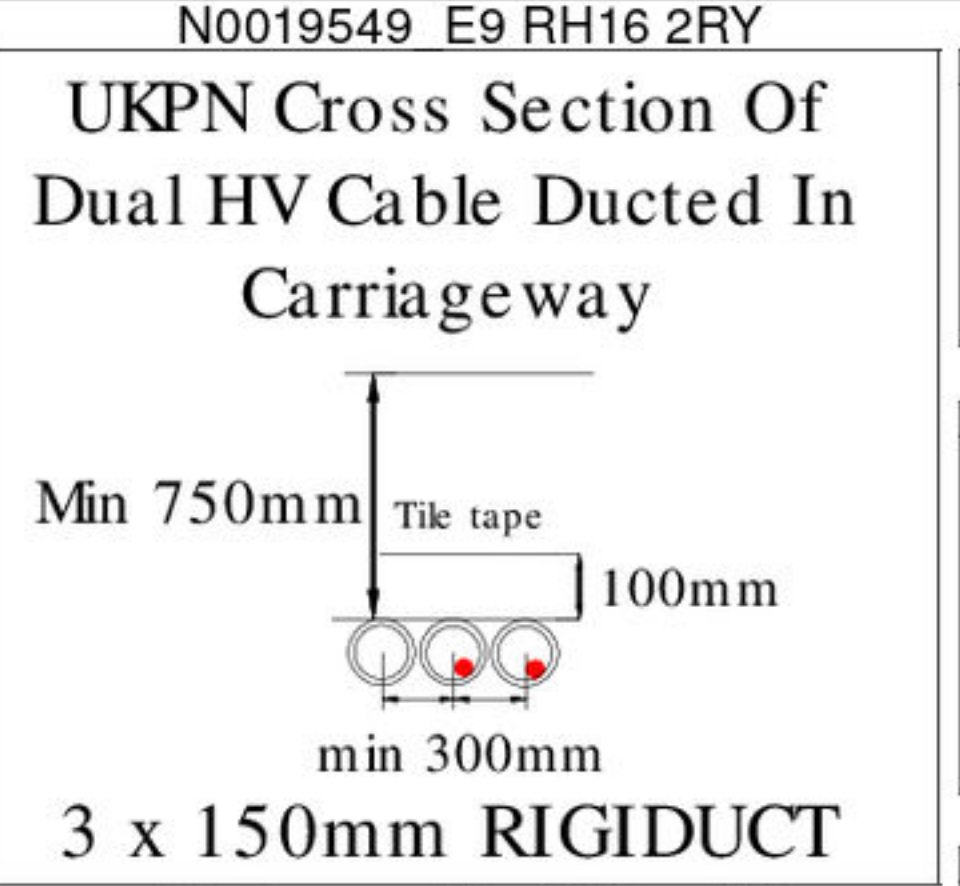
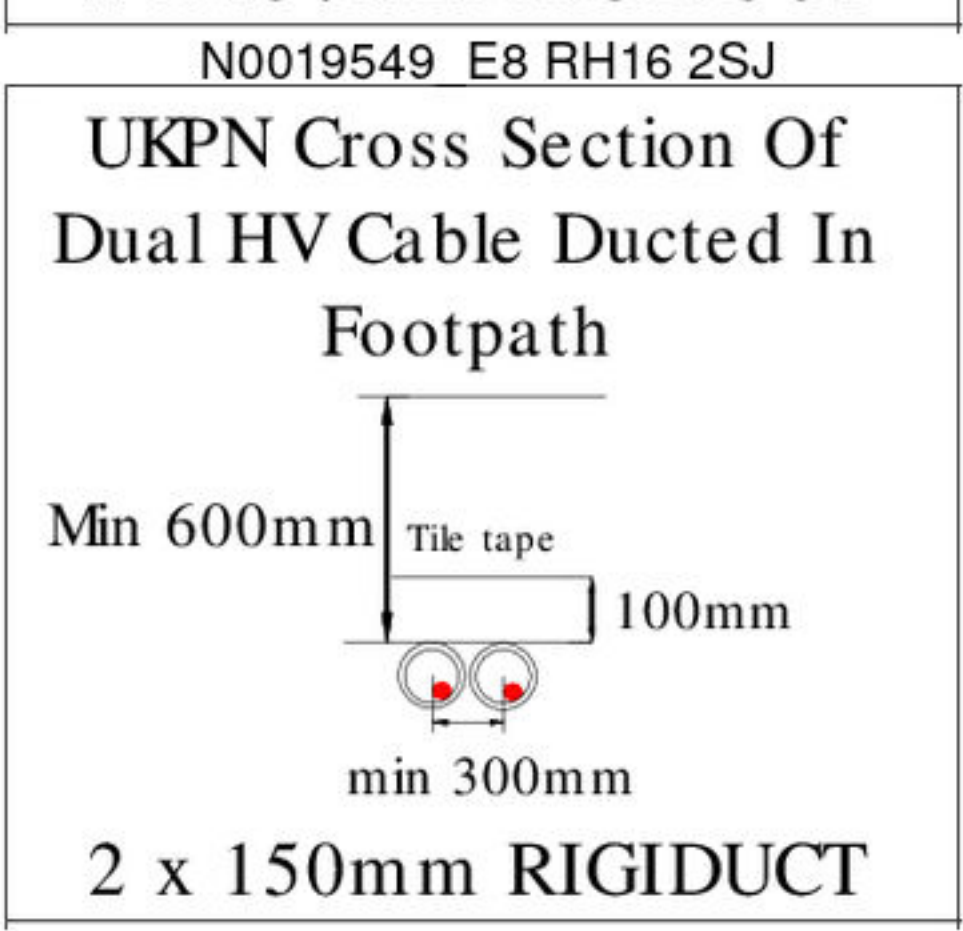
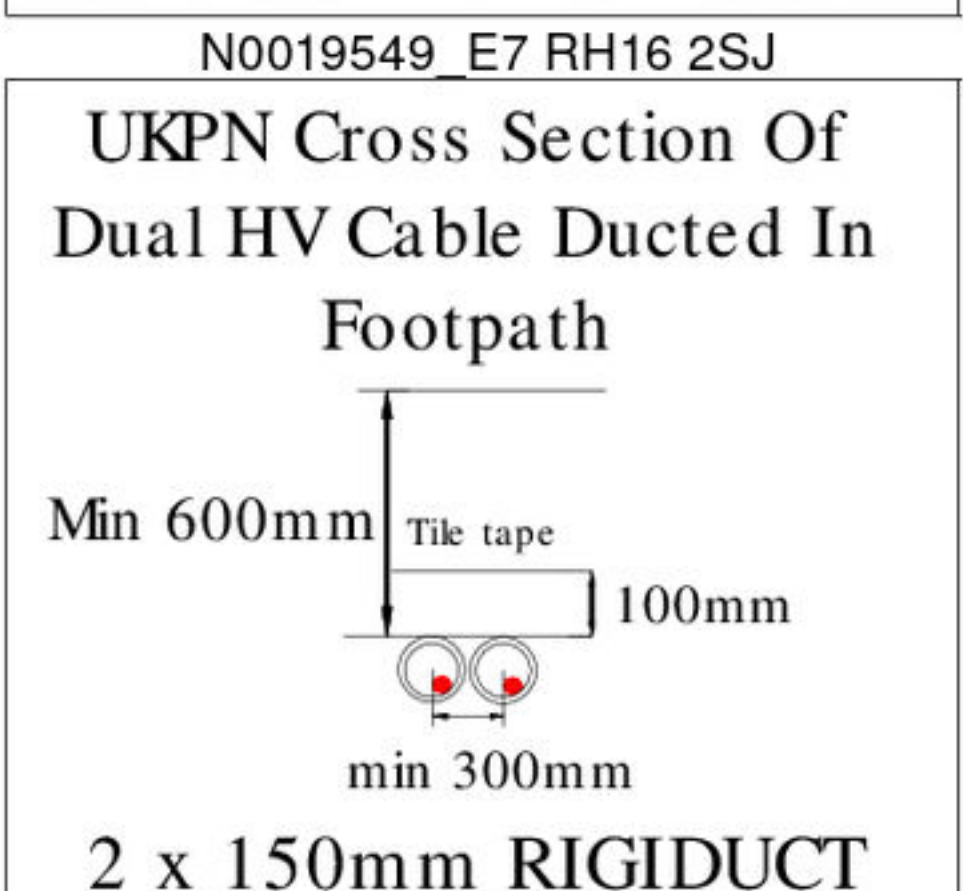
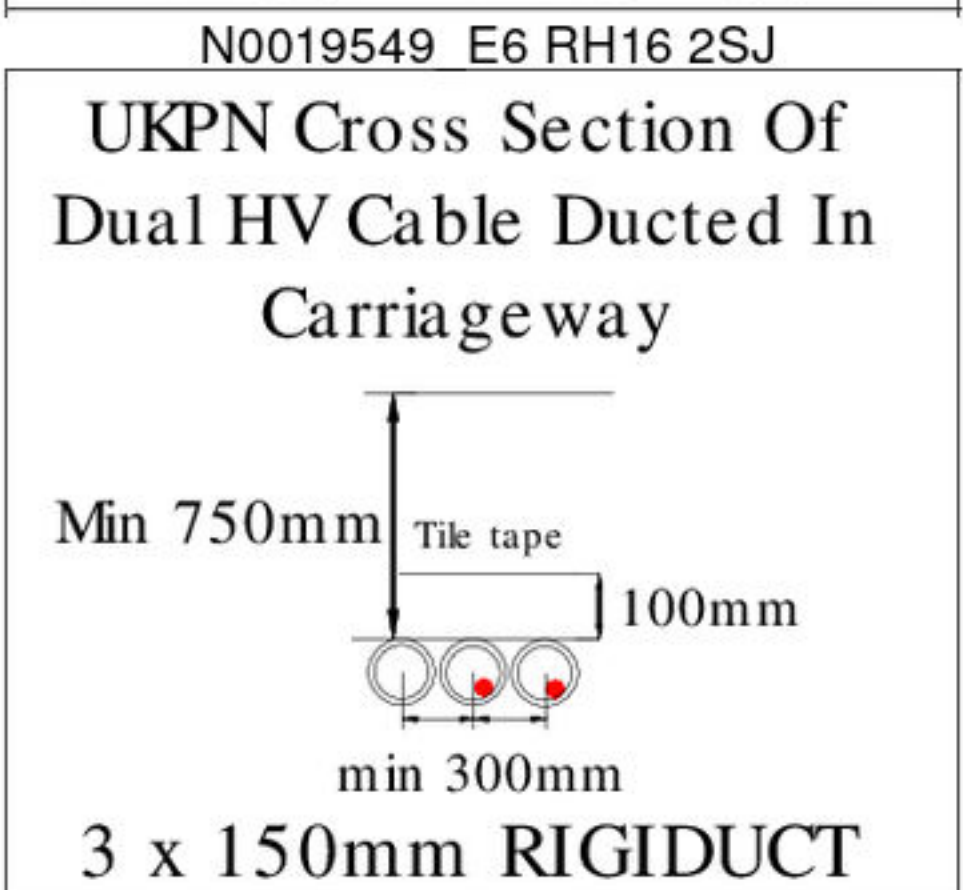
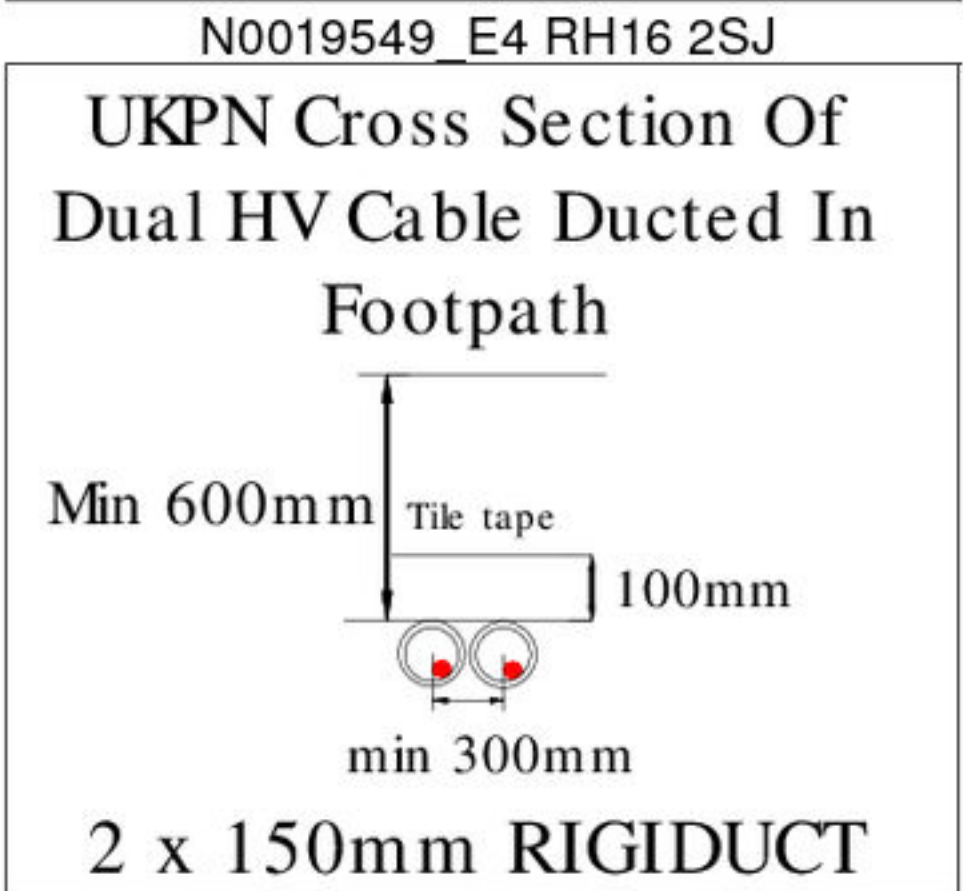
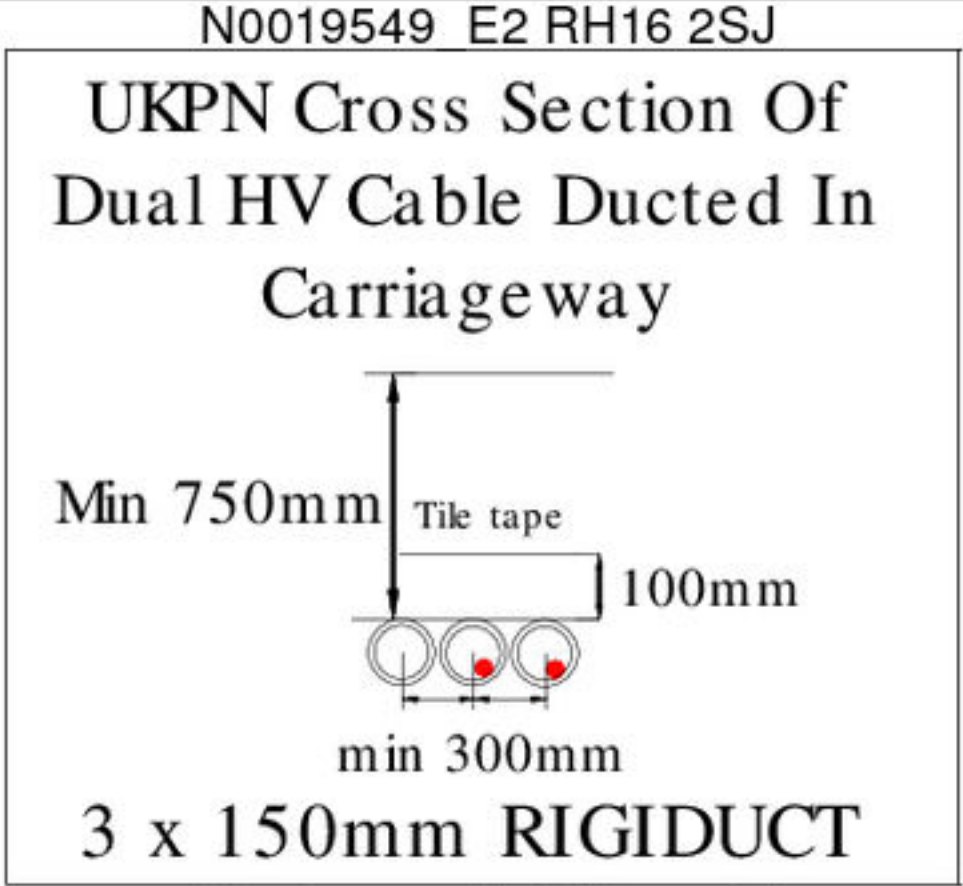
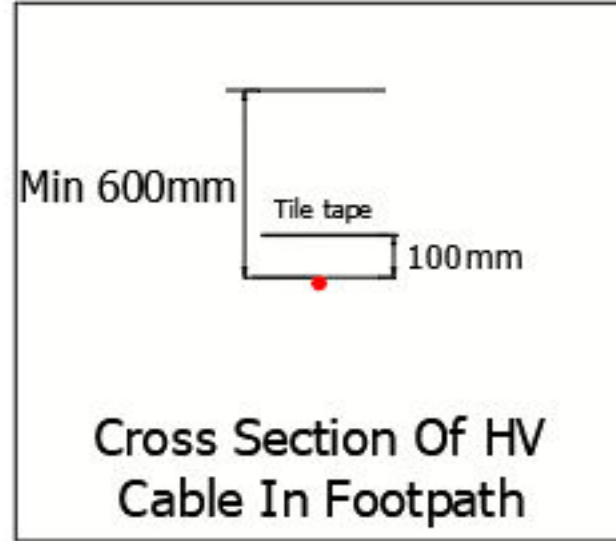


N0014713 - Recent revisions			
N0014713/elec		Revision History	
Rev	Comment	Date	Dsg. App.
17.0	Hyperoptic Cabinet Amendment to Live Way	23/01/24	KC KC
16.0	Hyperoptic Cabinet Amendment	27/12/23	AF AF
15.0	1-114, 116-117, 169-170, 191-200 from UKPN Substation + H-optic Cab	28/11/23	JM JM
14.0	4 x EVCP FPs and Dual Mains at 5-12	14/11/23	DT DT
13.0	DNS Polygons and 185mm spine cable upsized to 300mm	29/09/23	JD JD
12.0	(Legacy) 82m of elec mains added 82m of elec mains removed	07/06/23	KC KC
11.0	(Legacy) 65m of elec mains added 60m of elec mains removed 1 elec ...	06/06/23	MS MS
10.0	(Legacy) 2920m of elec mains added 247m of elec mains removed 207 ...	29/03/23	JM JM
9.2	(Legacy) 14m of elec mains added 14m of elec mains removed 1 elec ...	04/10/22	BB BB
9.1	(Legacy) 13m of elec mains added 13m of elec mains removed 1 elec ...	21/09/22	PH PH
9.0	(Legacy) 166m of elec mains added 166m of elec mains removed 3 ele ...	09/09/22	JD JD
8.1	(Legacy) 42m of elec mains added 42m of elec mains removed 1 elec ...	22/03/22	DG n/a
8.0	(Legacy) 203m of elec mains added 201m of elec mains removed 2 ele ...	12/01/22	MM MM
7.9	(Legacy) 35m of elec mains added 35m of elec mains removed 2 elec ...	02/10/20	CH n/a
7.8	(Legacy) 1 elec service added 1 elec service removed	06/05/20	SC SC
7.7	(Legacy) 9m of elec mains added 9m of elec mains removed	17/02/20	CB CB
7.6	(Legacy) 1 elec service added	15/01/20	DW n/a
7.5	(Legacy) 1 elec service added 2 elec dimensions added	15/01/20	DW DW
7.4	(Legacy) 2 elec services added	06/01/20	GD GD
7.3	(Legacy) 5m of elec mains added 5m of elec mains removed 1 elec sa	12/12/19	DW n/a

N0014713_E1 RH16 2GB



N0014713_E2 RH16 2FZ



N0019549 MSDB3P3 RH16 2RY

MSDB Details	MSDB3P3	J1
Plot	Phase	Floor
97	GY	0
96	GY	0
101	BK	0
98	BR	0
99	BR	0
103	BK	0
100	BR	0
104	GY	0
LL 96-104	GY	0
102	BK	0

N0019549 MSDB3P0 RH16 2RY

MSDB Details	MSDB3P0	J1
Plot	Phase	Floor
43	GY	0
41	BK	0
40	GY	0
44	BK	0
42	BR	0
39	BR	0
LL 36-44	BK	0
36	BR	0
38	BK	0
37	GY	0

N0014713 RH16 2GB

POC Details

Name: Capacity (kVA): DNO ref: Voltage: 11kV Volt drop (%): None ELI: (mΩ) None Conn type: Branch joint

N0019549 MSDB3P1 RH16 2QQ

MSDB Details	MSDB3P1	J1
Plot	Phase	Floor
79	GY	0
80	GY	0
87	BK	0
LL 79-87	GY	0
85	BK	0
82	BR	0
83	BR	0
84	BR	0
86	BK	0
81	GY	0

N0019549 MSDB3P2 RH16 2RY

MSDB Details	MSDB3P2	J1
Plot	Phase	Floor
92	GY	0
88	BR	0
89	GY	0
91	BR	0
93	BK	0
90	BK	0
LL 88-93	BK	0

N0014713 MSDB1MX RH16 2GB

MSDB Details	MSDB1MX	J1
Plot	Phase	Floor
156	BK	0
157	BR	0
158	GY	0
159	BK	0
160	BR	0
161	GY	0
162	BK	0
163	BR	0
164	GY	0
LL 156-164	BK	0

N0014713 RH16 2FZ

POC Details

Name: Capacity (kVA): DNO ref: Voltage: 11kV Volt drop (%): None ELI: (mΩ) None Conn type: Branch joint

N0014713 RH16 2DY

POC Details

Name: Capacity (kVA): DNO ref: Voltage: 11kV Volt drop (%): None ELI: (mΩ) None Conn type: Branch joint

N0019549_POC RH16 2SJ

POC Details

Name: POC Capacity (kVA): 216 DNO ref: 8200022699 Voltage: 11kV Volt drop (%): None ELI: (mΩ) None Conn type: Straight joint

N0014713_Sub_RH16 2FZ

Substation Details	Cable	Fuse (A)
Way		
1	185mm	255
2	185mm	315
3	185mm	255

Name: Number: Ownership: Transformer size (kVA): 315 LV cabinet: 4-way CT ratio: TLF size (A): Security assess: Environ assess: Building type: StandardBrickBuilt Door type: Intake RMU #1:

N0014713_Sub_Saffron Close IDNO RH16 2RY

Substation Details	Cable	Fuse (A)
Way		
1	185mm	500
2	185mm	500
3	185mm	315
4	185mm	315

Name: Number: Ownership: Transformer size (kVA): DNO_ENC 500 LV cabinet: 4-way CT ratio: 50/5 TLF size (A): 10A Security assess: Low Environ assess: Low Building type: StandardBrickBuilt Door type: Steel or GRP Surface type: Soil Intake RMU #1: Schneider RN2c T1/21

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

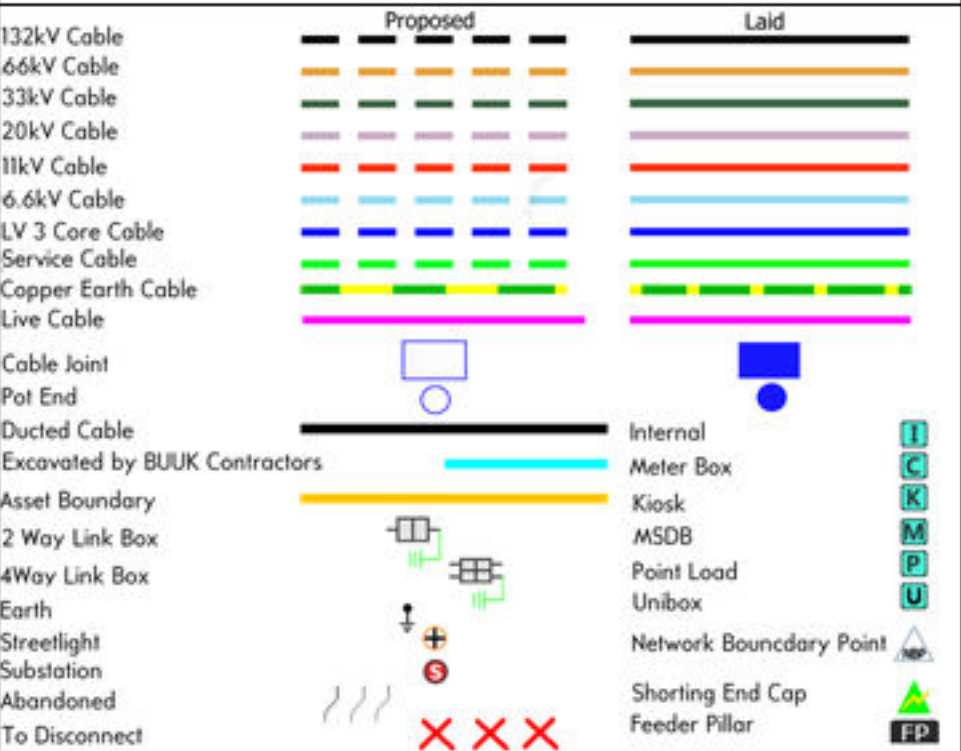
For colour convention mains, the connected phases will be shown as BR, BK, GY Where BR = brown / BK = black / GY = grey.

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.



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
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Last Edit By:

Last Approved By: KAREN CHAMBERLAIN 2301

Approved

OS Ref: 535062.124507

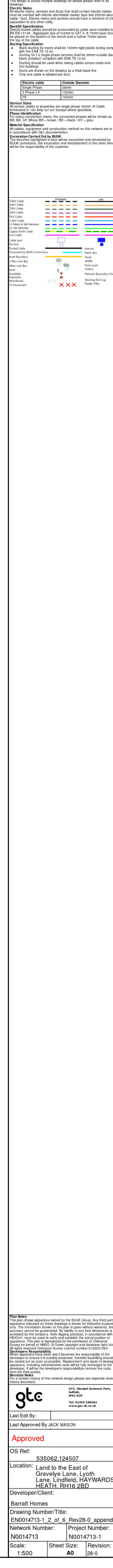
Location: Land to the East of Gravelye Lane, Lyoth Lane, Lindfield, HAYWARDS HEATH, RH16 2BD

Developer/Client: Barratt Homes

Drawing Number/Title: EN0014713-1_2_of_6_Rev17-0_appendix

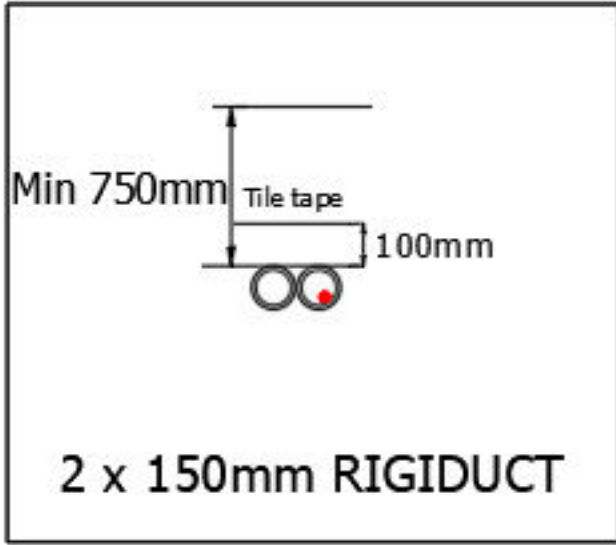
Network Number: N0014713 Project Number: N0014713-1

Scale: 1:1500 Sheet Size: A3 Revision: 17.0

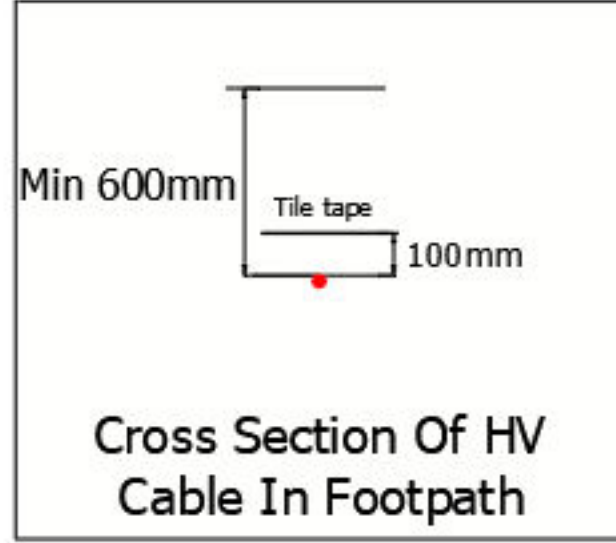


N0014713 - Recent revisions			
N0014713/elec	Revision History		
Rev	Comment	Date	Dsg. App.
28.0	Way 3.B Amendment for Primary School	08/07/24	JM JM
27.0	1 x TBS NR 200 service cable amendment	05/07/24	AS AS
26.0	Contestable LV Variation	29/05/24	MS MS
25.0	Amend way 5 connection to primary school.	21/05/24	JD JD
24.0	connection of 1 x TBS	14/05/24	ZO ZO
23.0	All plots supplied from UKPN Substation Nr28	08/04/24	DT DT
22.0	DNS over cables that will require upsizing from UKPN POC	26/02/24	DT DT
21.0	87 x streetlights	13/02/24	ZO ZO
20.0	2nd Way from UKPN Sub past 13-28	12/02/24	DT DT
19.0	Removal of dual mains	07/02/24	JD JD
18.0	Addition of 4 Way Linkbox	02/02/24	JD JD
17.0	Hyperoptic Cabinet Amendment to Live Way	23/01/24	KC KC
16.0	Hyperoptic Cabinet Amendment	27/12/23	AF AF
15.0	1-114, 116-117, 169-170, 191-200 from UKPN Substation + H-optic Cab	28/11/23	JM JM
14.0	4 x EVCP FPs and Dual Mains at 5-12	14/11/23	DT DT
13.0	DNS Polygons and 185mm spine cable upsized to 300mm	29/09/23	JD JD
12.0	(Legacy) 82m of elec mains added 82m of elec mains removed	07/06/23	KC KC
11.0	(Legacy) 65m of elec mains added 60m of elec mains removed 1 elec ...	06/06/23	MS MS
10.0	(Legacy) 2920m of elec mains added 247m of elec mains removed 207 ...	29/03/23	JM JM
9.2	(Legacy) 14m of elec mains added 14m of elec mains removed 1 elec ...	04/10/22	BB BB

N0014713_E1 RH16 2GB

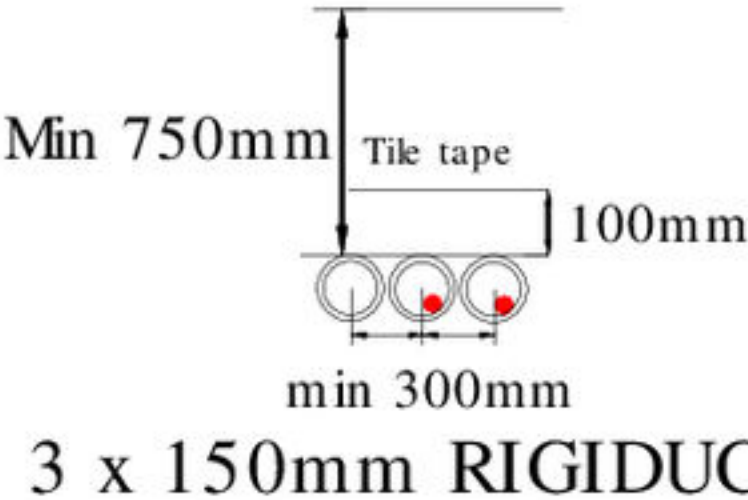


N0014713_E2 RH16 2FZ



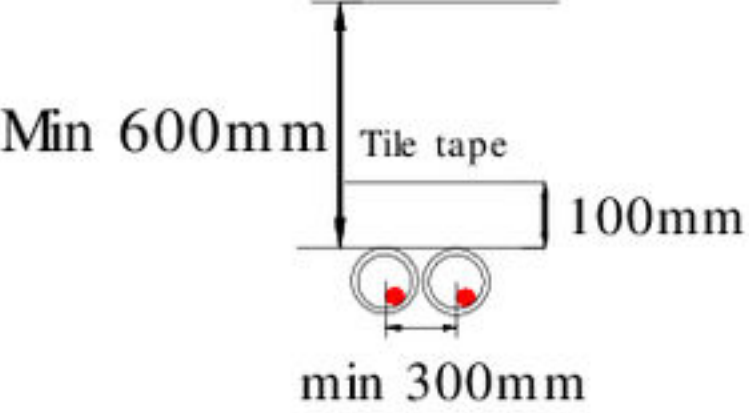
N0019549_E2 RH16 2SJ

UKPN Cross Section Of Dual HV Cable Ducted In Carriageway



N0019549_E4 RH16 2SJ

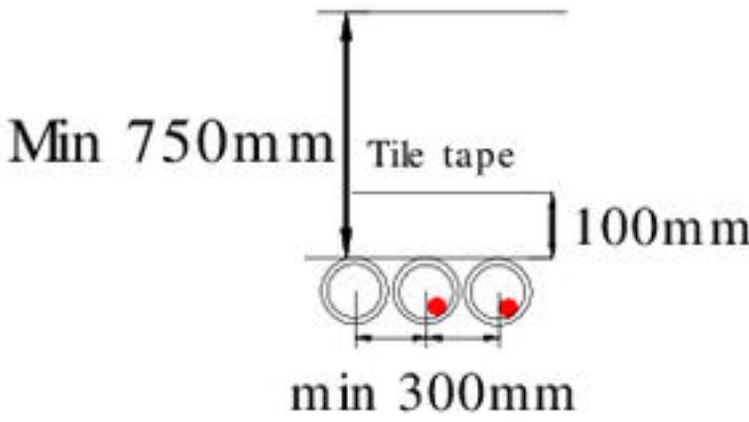
UKPN Cross Section Of Dual HV Cable Ducted In Footpath



2 x 150mm RIGIDUCT

N0019549_E6 RH16 2SJ

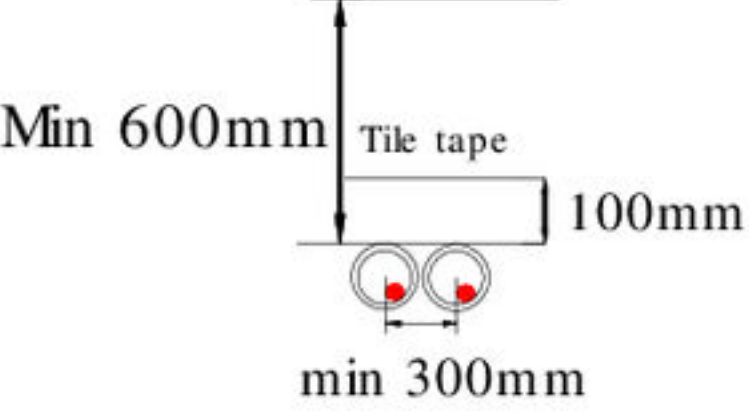
UKPN Cross Section Of Dual HV Cable Ducted In Carriageway



3 x 150mm RIGIDUCT

N0019549_E7 RH16 2SJ

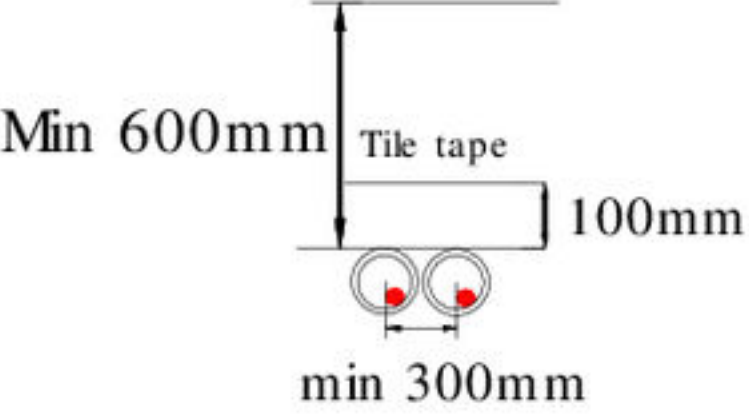
UKPN Cross Section Of Dual HV Cable Ducted In Footpath



2 x 150mm RIGIDUCT

N0019549_E8 RH16 2SJ

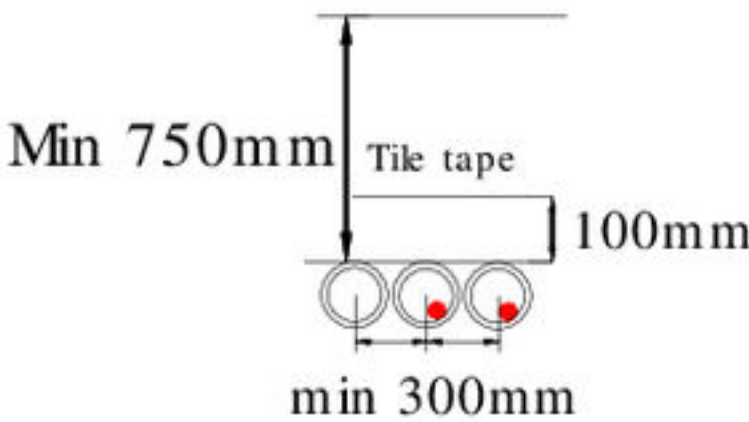
UKPN Cross Section Of Dual HV Cable Ducted In Footpath



2 x 150mm RIGIDUCT

N0019549_E9 RH16 2RY

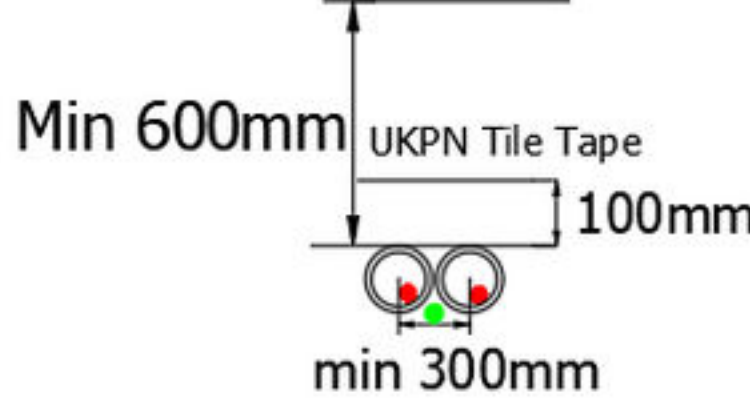
UKPN Cross Section Of Dual HV Cable Ducted In Carriageway



3 x 150mm RIGIDUCT

N0019549_E10 RH16 2RY

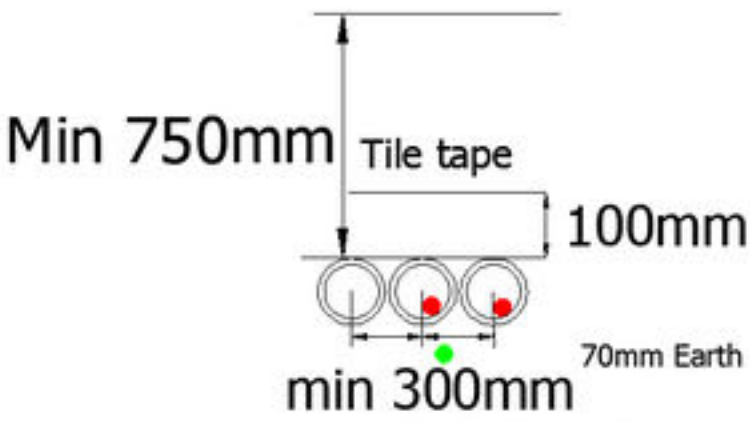
UKPN Cross Section Of Dual HV Cable & Earth Ducted In Footpath



2 x 150mm RIGIDUCT

N0019549_E11 RH16 2RY

UKPN Cross Section Of Dual HV Cable Ducted In Carriageway



3 x 150mm RIGIDUCT

N0019549_POC RH16 2SJ

POC Details	
Name:	POC
Capacity (kVA):	216
DNO ref:	8200022699
Voltage:	11kV
Volt drop (%):	None
ELI: (mΩ)	None
Conn type:	Straight joint

N0014713 RH16 2DY

POC Details	
Name:	POC
Capacity (kVA):	216
DNO ref:	8200022699
Voltage:	11kV
Volt drop (%):	None
ELI: (mΩ)	None
Conn type:	Branch joint

N0019549_MSDB3P2 RH16 2RY

MSDB Details	MSDB3P2	J1
Plot	Phase	Floor
92	GY	0
88	BR	0
89	GY	0
91	BR	0
93	BK	0
90	BK	0
LL 88-93	BK	0

N0019549_MSDB3P1 RH16 2QQ

MSDB Details	MSDB3P1	J1
Plot	Phase	Floor
79	GY	0
80	GY	0
87	BK	0
LL 79-87	GY	0
85	BK	0
82	BR	0
83	BR	0
84	BK	0
86	BK	0
81	GY	0

N0014713_MSDB1MX RH16 2GB

MSDB Details	MSDB1MX	J1
Plot	Phase	Floor
156	BK	0
157	BR	0
158	GY	0
159	BK	0
160	BR	0
161	GY	0
162	BK	0
163	BR	0
164	GY	0
LL 156-164	BK	0

N0019549_MSDB3P0 RH16 2RY

MSDB Details	MSDB3P0	J1
Plot	Phase	Floor
43	GY	0
41	BK	0
40	GY	0
44	BK	0
42	BR	0
39	BR	0
LL 36-44	BK	0
36	BR	0
38	BK	0
37	GY	0

N0019549_MSDB3P3 RH16 2RY

MSDB Details	MSDB3P3	J1
Plot	Phase	Floor
97	GY	0
96	GY	0
101	BK	0
98	BR	0
99	BR	0
103	BK	0
100	BR	0
104	GY	0
LL 96-104	GY	0
102	BK	0

N0014713_Sub Saffron Close IDNO RH16 2RY

Substation Details	Cable	Fuse (A)
Way	185mm	500
2	185mm	315
4	185mm	315
3	185mm	315
1	185mm	500

Name:	Saffron Close IDNO
Number:	
Ownership:	DNO_ENC
Transformer size (kVA):	500
LV cabinet:	4-way
CT ratio:	50/5
TLF size (A):	10A
Security assess:	Low
Environ assess:	Low
Building type:	StandardBrickBuilt
Door type:	Steel or GRP
Surface type:	Soil
RMU:	Schneider RN2c T1/21
Intake RMU #1:	

N0014713_Sub RH16 2FZ

Substation Details	Cable	Fuse (A)
Way	185mm	315
2	185mm	315
3	185mm	255
1	185mm	255

Name:	
Number:	
Ownership:	
Transformer size (kVA):	315
LV cabinet:	4-way
CT ratio:	
TLF size (A):	
Security assess:	
Environ assess:	
Building type:	StandardBrickBuilt
Door type:	
Intake RMU #1:	

N0014713 RH16 2GB

POC Details	
Name:	
Capacity (kVA):	
DNO ref:	
Voltage:	11kV
Volt drop (%):	None
ELI: (mΩ)	None
Conn type:	Branch joint

N0014713 RH16 2FZ

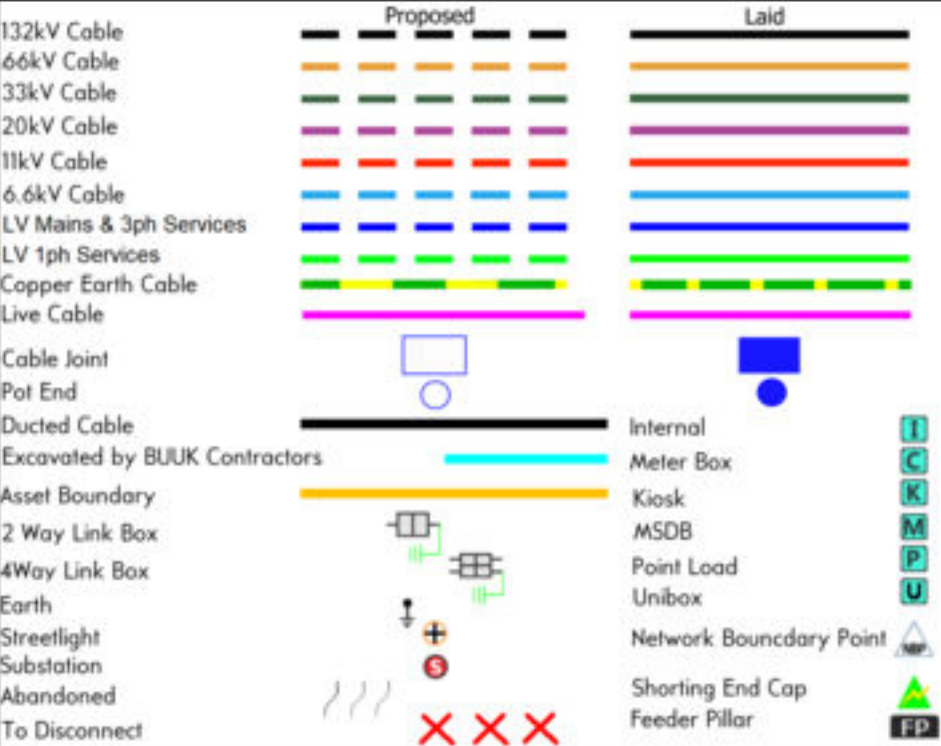
POC Details	
Name:	
Capacity (kVA):	
DNO ref:	
Voltage:	11kV
Volt drop (%):	None
ELI: (mΩ)	None
Conn type:	Branch joint

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

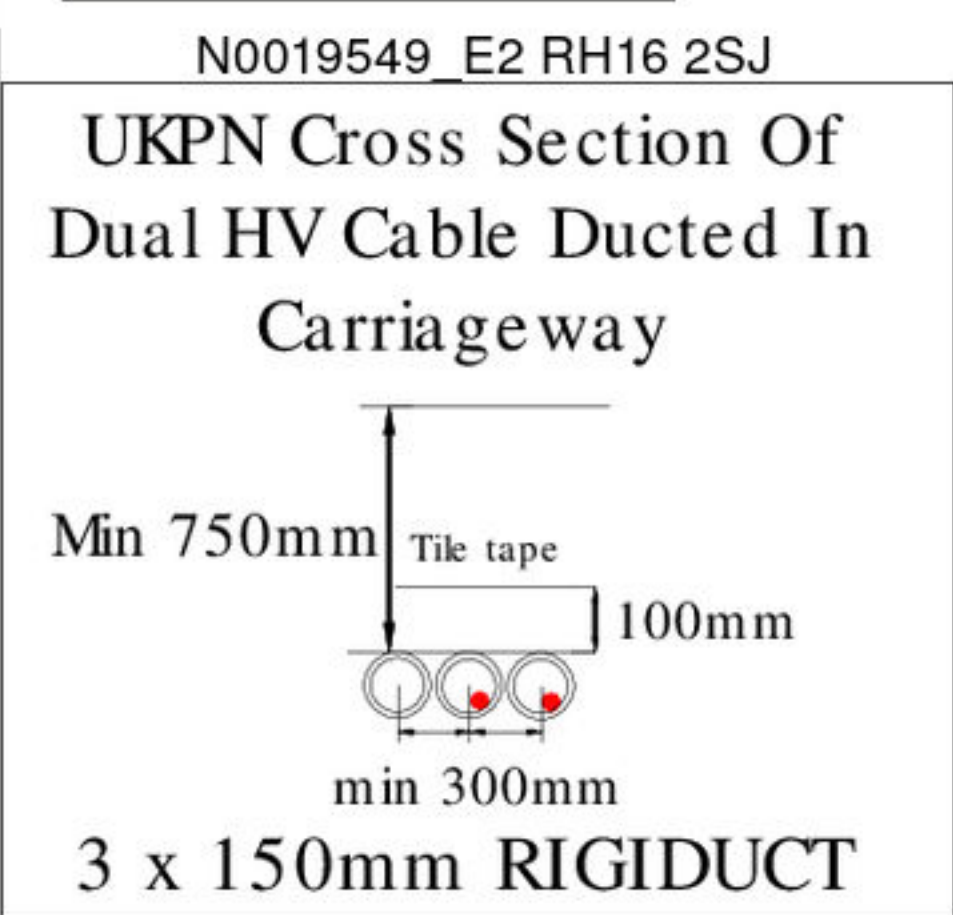
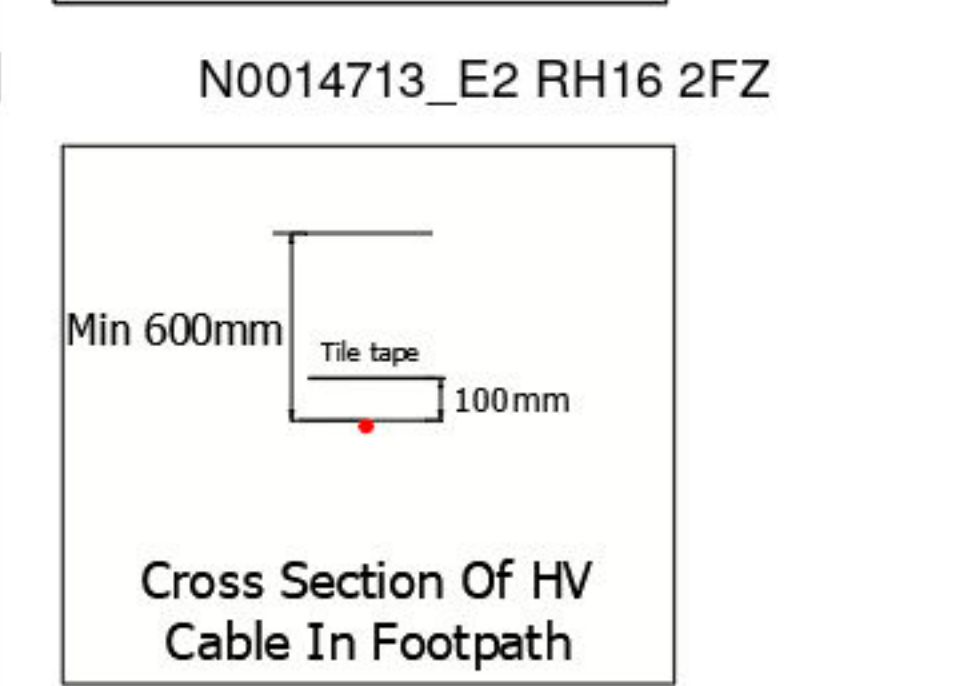
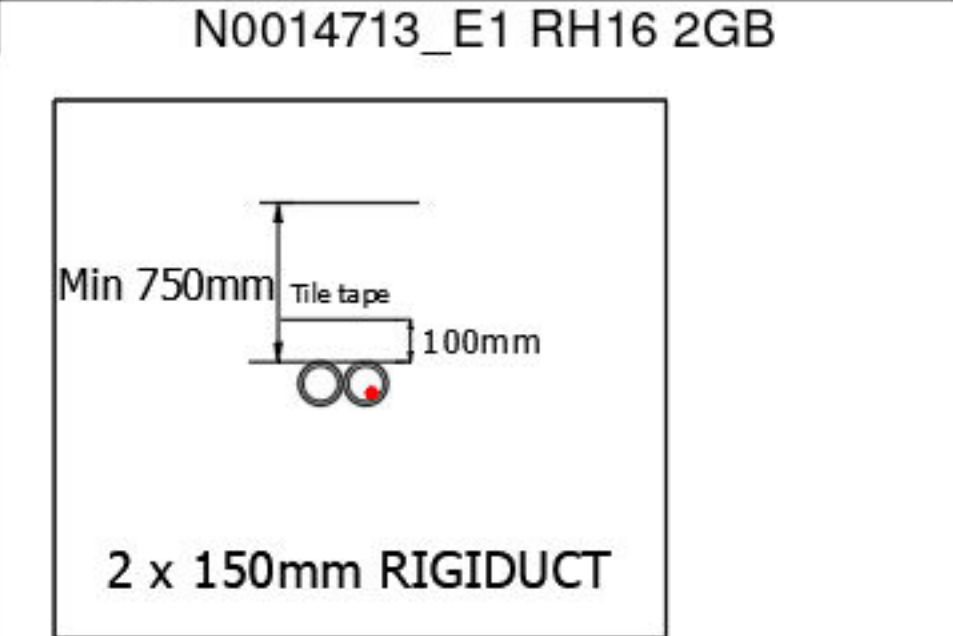
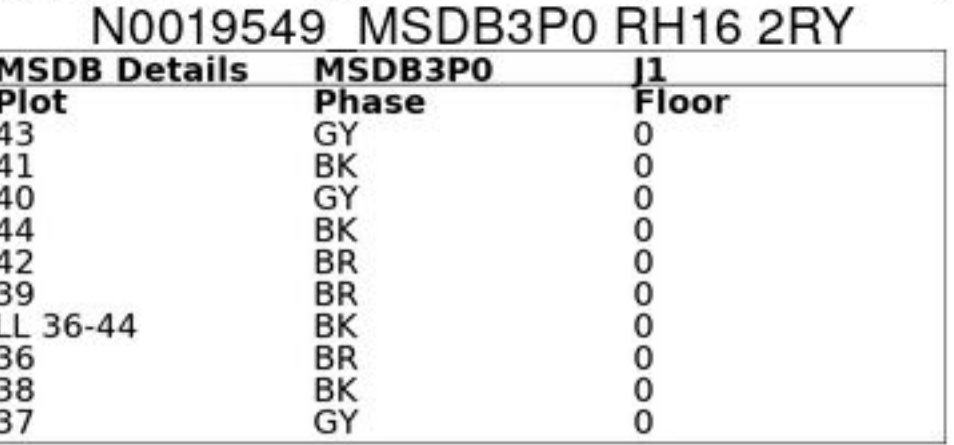
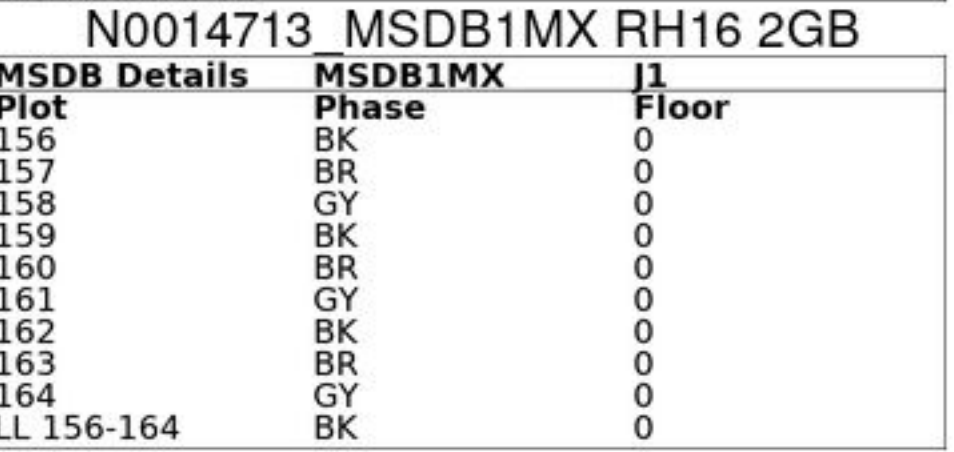
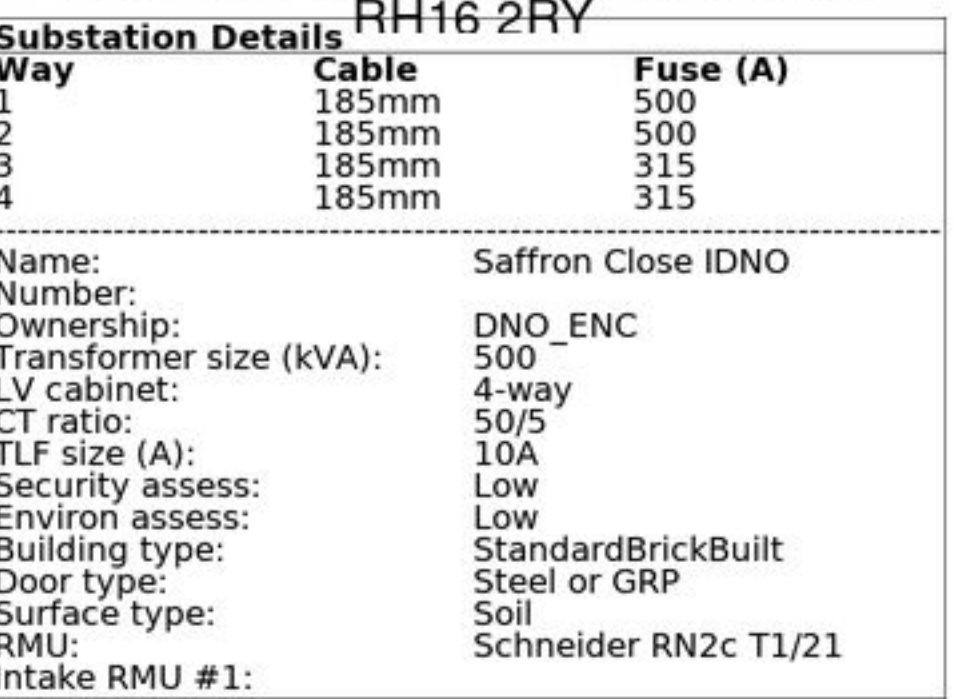
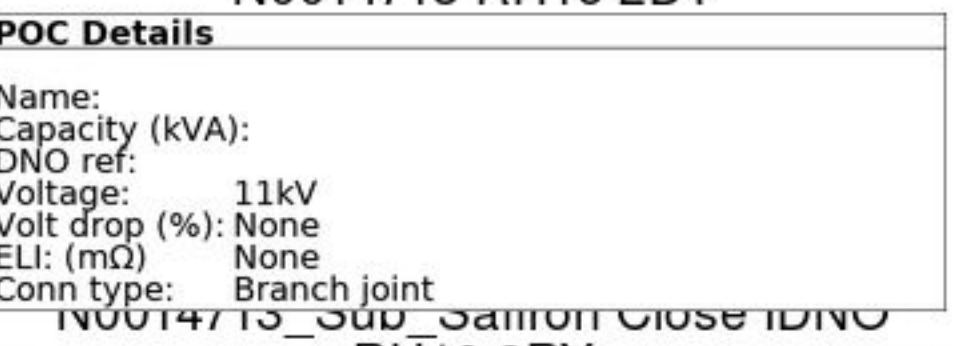
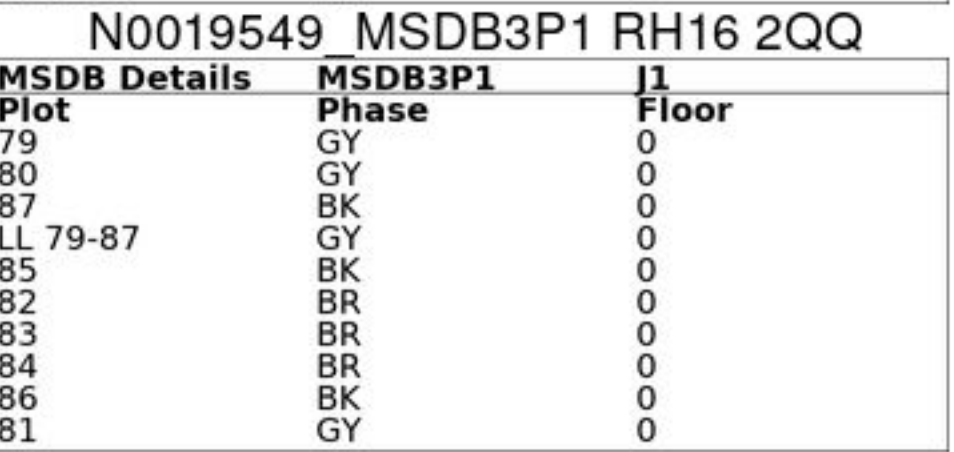
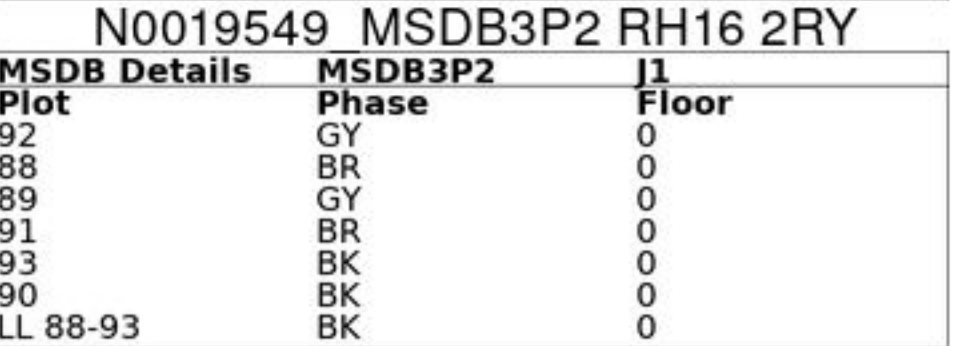
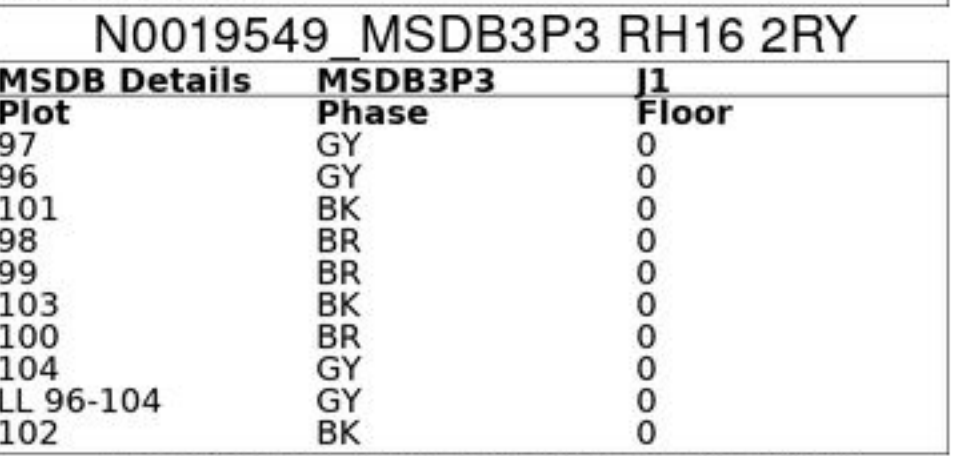
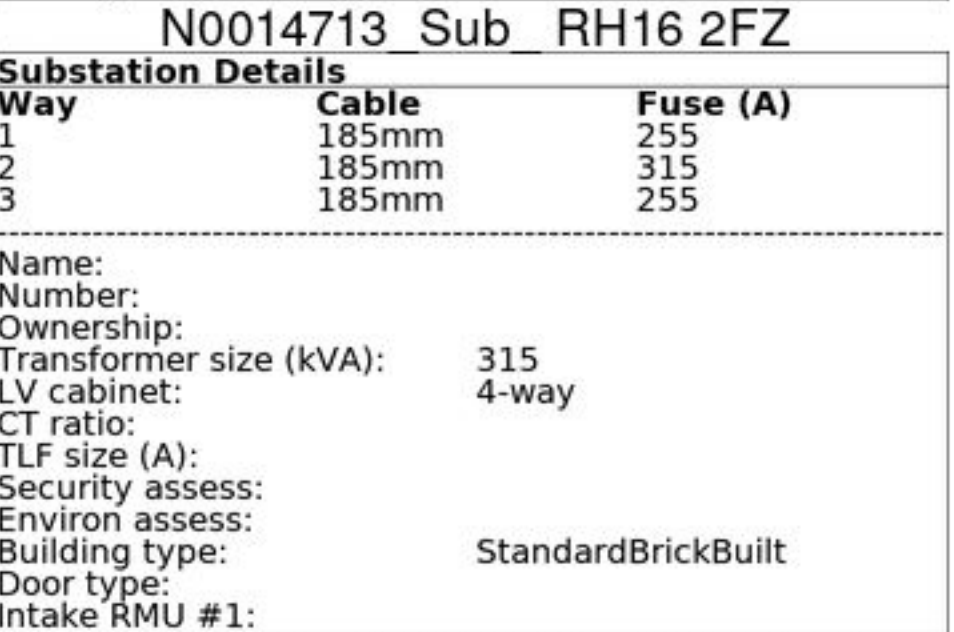
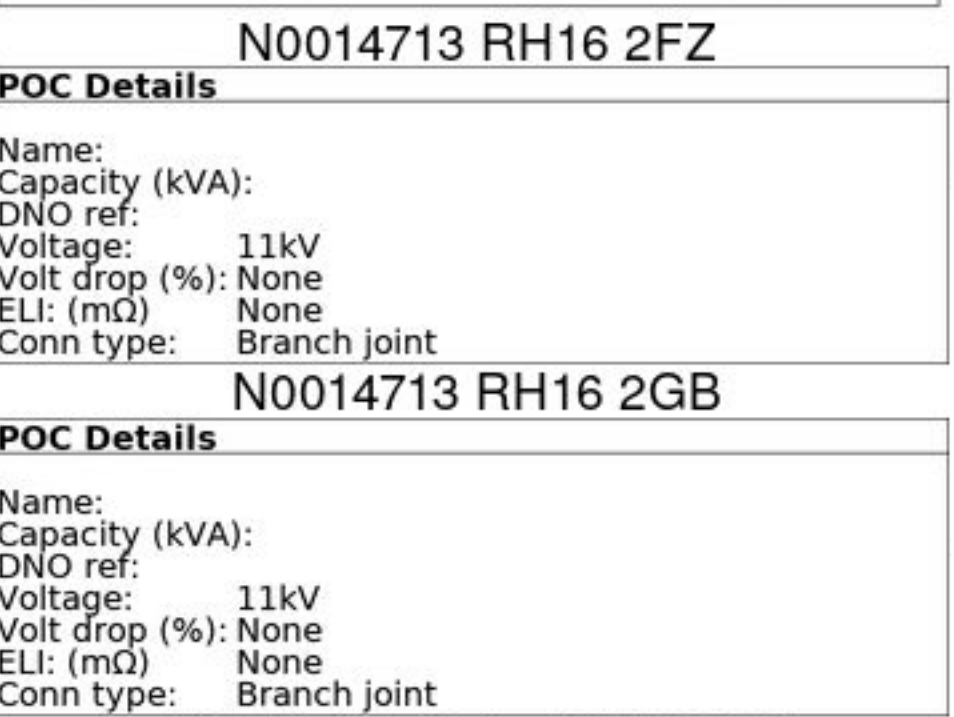
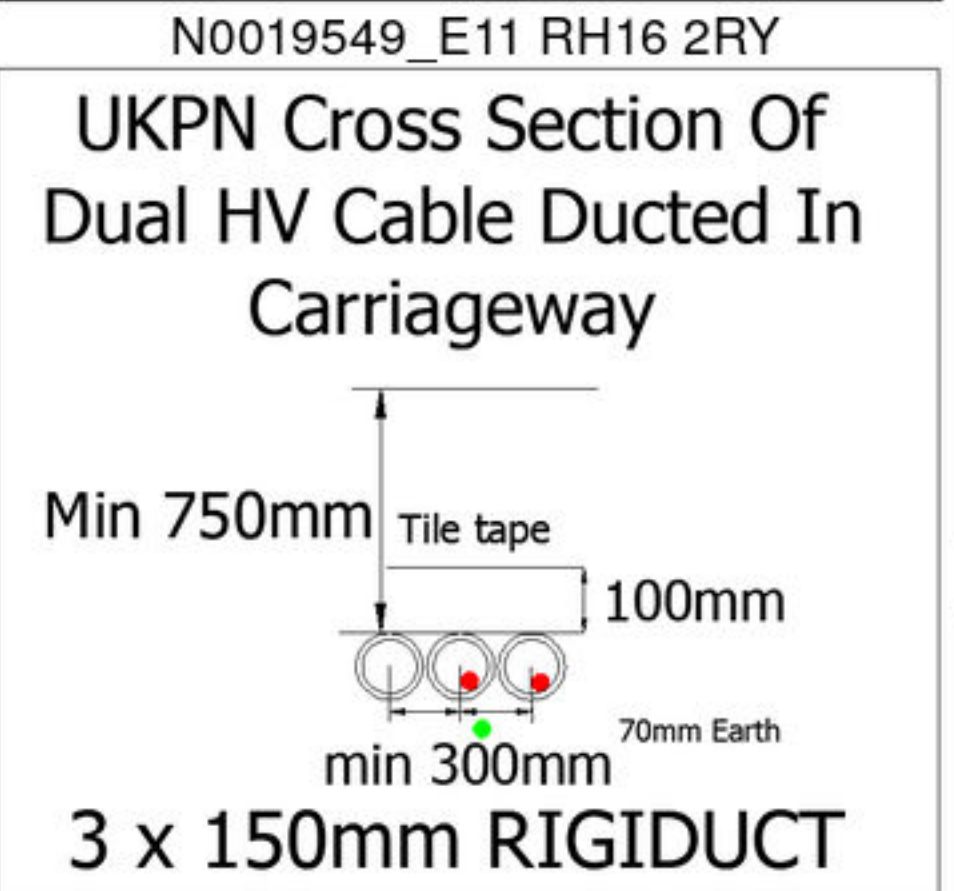
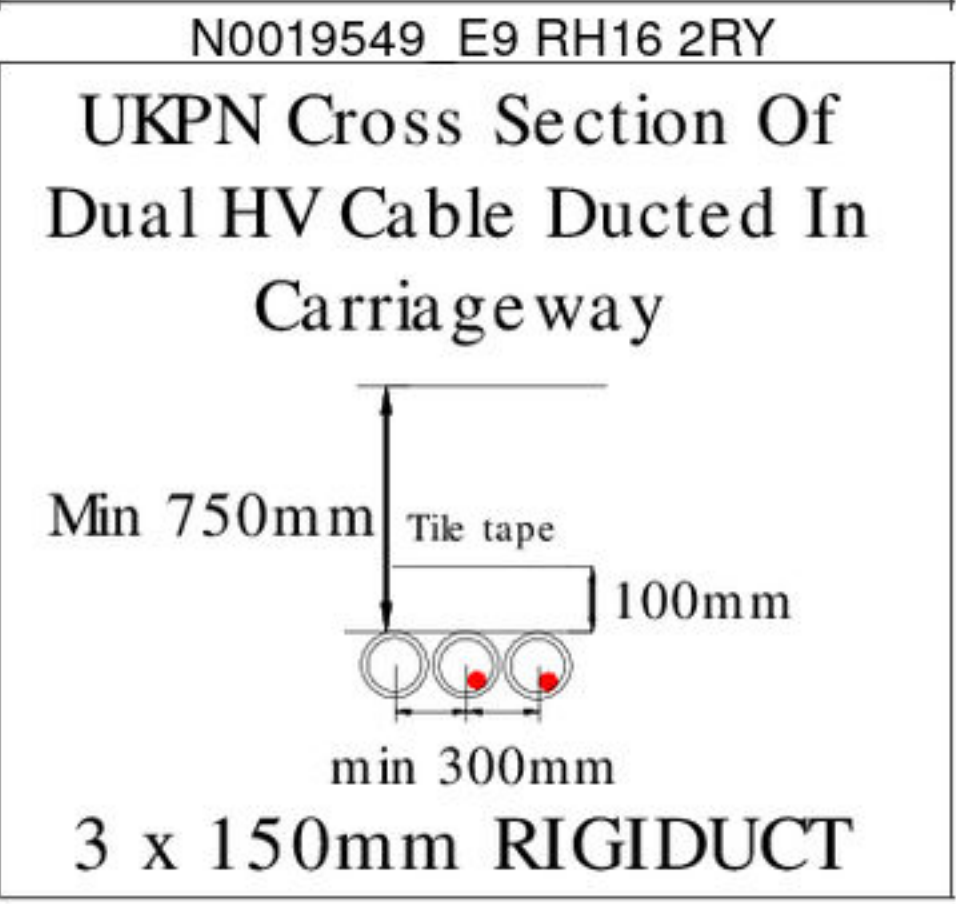
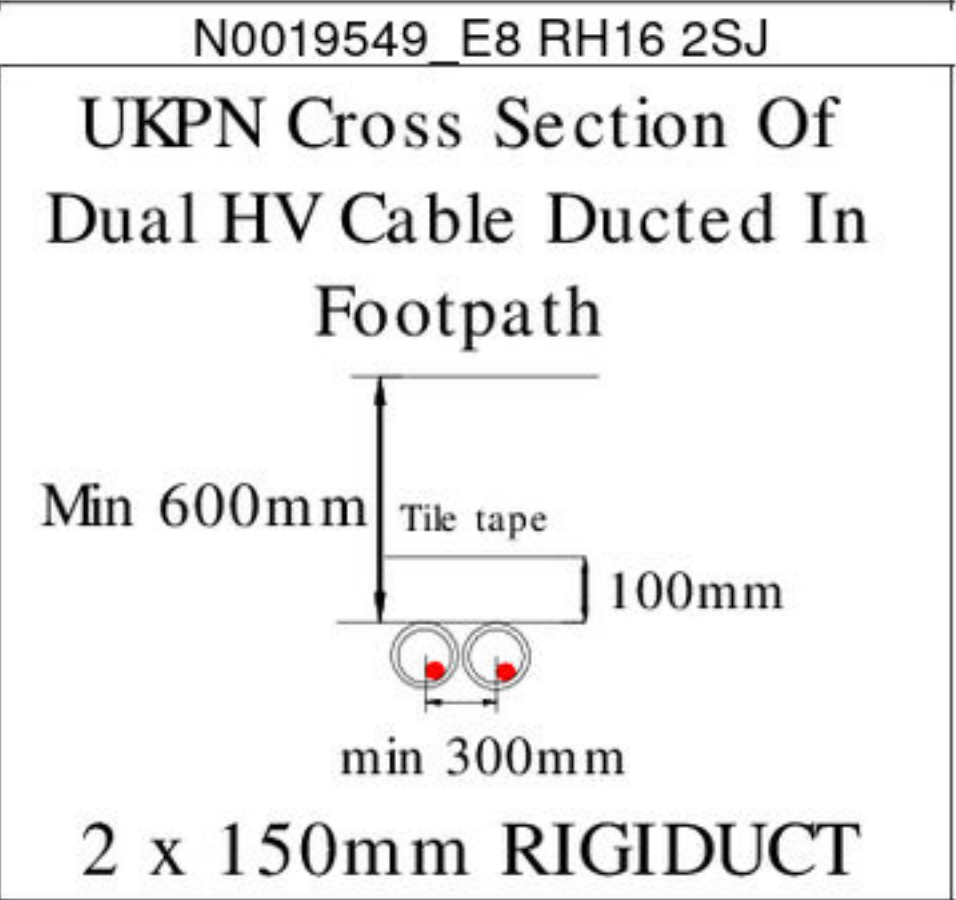
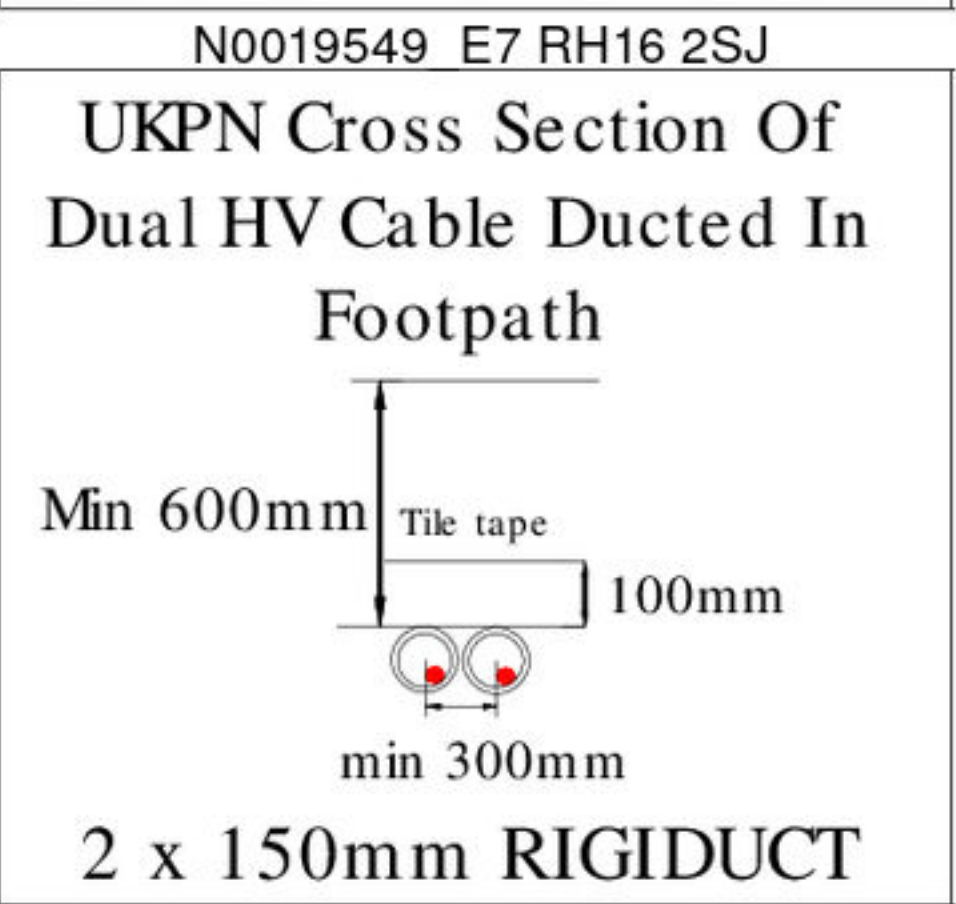
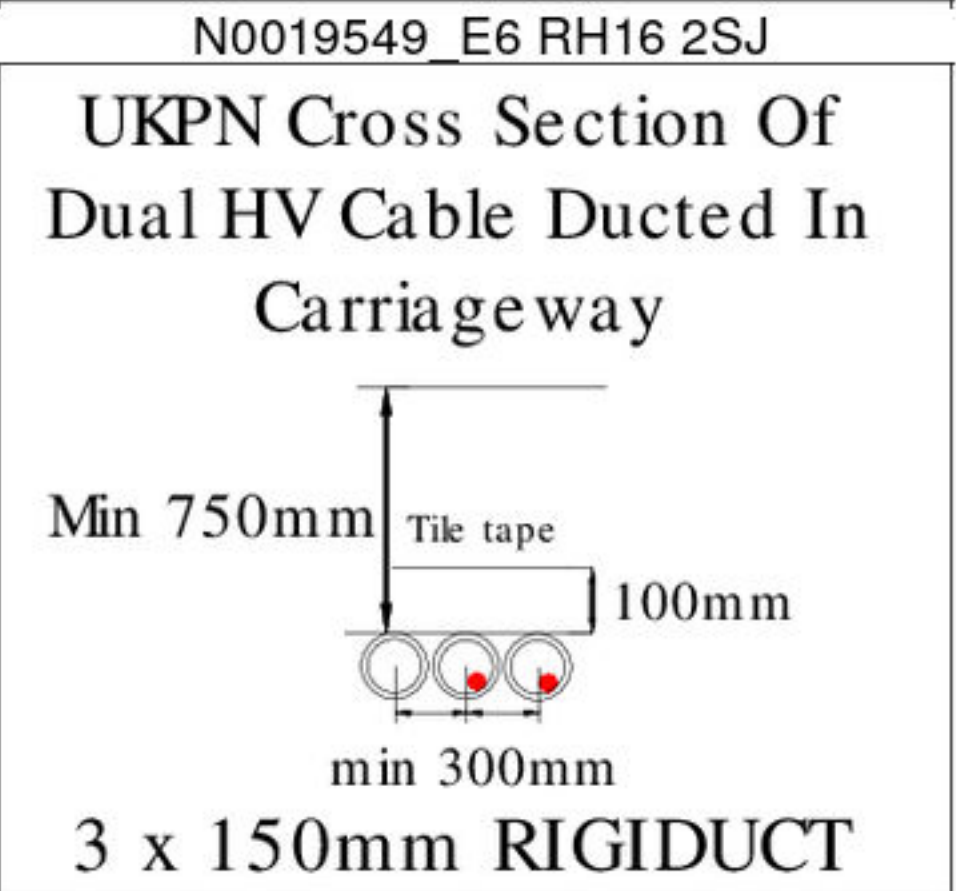
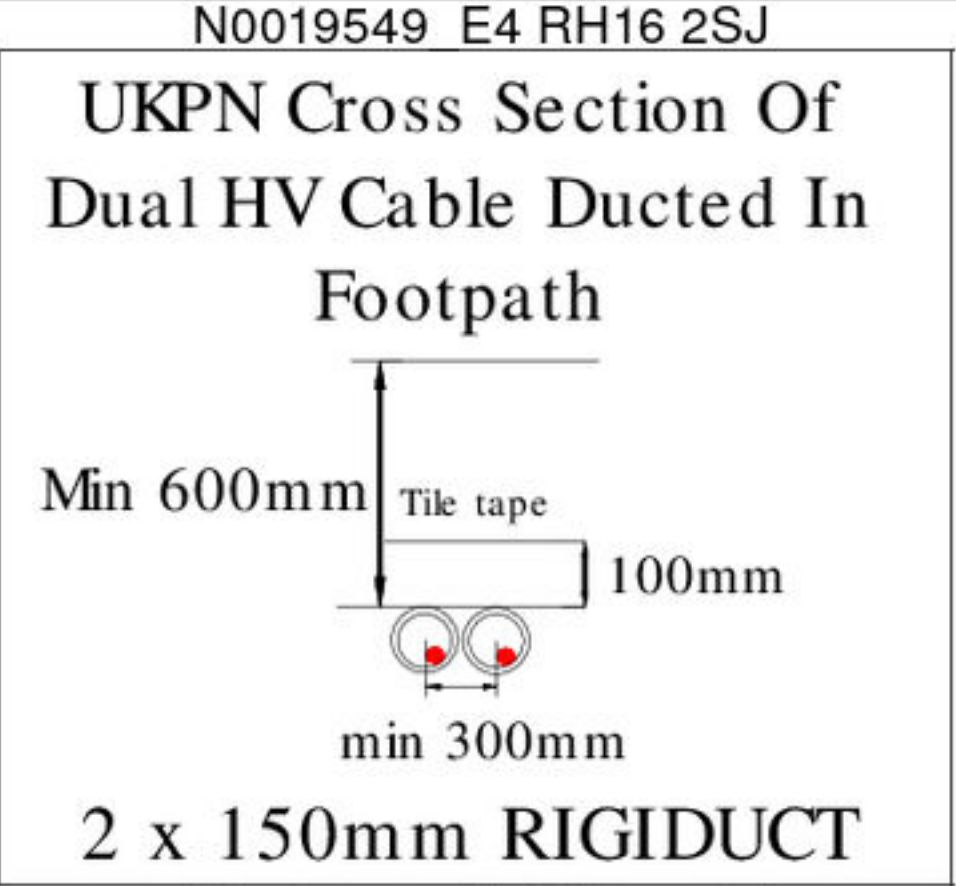
Service Sizes
All service cables to properties are single phase 35mm² Al Cable terminated in 100 Amp cut out (except where specified).
Phase Identification
For colour convention mains, the connected phases will be shown as BR, BK, GY Where BR = brown / BK = black / GY = grey.
Material Specification
All 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.



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

		GTC, Woolpit Business Park, Suffolk, IP30 9UP Tel: 01359 240363 www.gtc-uk.co.uk	
Last Edit By:			
Last Approved By:		JACK MASON 08072024	
Approved			
OS Ref:		535062.124507	
Location:		Land to the East of Gravelye Lane, Lyoth Lane, Lindfield, HAYWARDS HEATH, RH16 2BD	
Developer/Client:			
Barratt Homes			
Drawing Number/Title:		EN0014713-1_2_of_6_Rev28-0_appendix	
Network Number:		Project Number:	
N0014713		N0014713-1	
Scale:	Sheet Size:	Revision:	
1:1500	A3	28.0	

N0014713 - Recent revisions			
N0014713/elec		Revision History	
Rev	Comment	Date	Dsg. App.
29.0	Block C LL Supply	02/08/24	JM JM
28.0	Way 3.B Amendment for Primary School	08/07/24	JM JM
27.0	1 x TBS NR 200 service cable amendment	05/07/24	AS AS
26.0	Contestable LV Variation	29/05/24	MS MS
25.0	Amend way 5 connection to primary school.	21/05/24	JD JD
24.0	connection of 1 x TBS	14/05/24	ZO ZO
23.0	All plots supplied from UKPN Substation Nr28	08/04/24	DT DT
22.0	DNS over cables that will require upsizing from UKPN POC	26/02/24	DT DT
21.0	87 x streetlights	13/02/24	ZO ZO
20.0	2nd Way from UKPN Sub past 13-28	12/02/24	DT DT
19.0	Removal of dual mains	07/02/24	JD JD
18.0	Addition of 4 Way Linkbox	02/02/24	JD JD
17.0	Hyperoptic Cabinet Amendment to Live Way	23/01/24	KC KC
16.0	Hyperoptic Cabinet Amendment	27/12/23	AF AF
15.0	1-114, 116-117, 169-170, 191-200 from UKPN Substation + H-optic Cab	28/11/23	JM JM
14.0	4 x EVCP FPs and Dual Mains at 5-12	14/11/23	DT DT
13.0	DNS Polygons and 185mm spine cable upsized to 300mm	29/09/23	JD JD
12.0	(Legacy) 82m of elec mains added 82m of elec mains removed	07/06/23	KC KC
11.0	(Legacy) 65m of elec mains added 60m of elec mains removed 1 elec ...	06/06/23	MS MS
10.0	(Legacy) 2920m of elec mains added 247m of elec mains removed 207 ...	29/03/23	JM JM



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

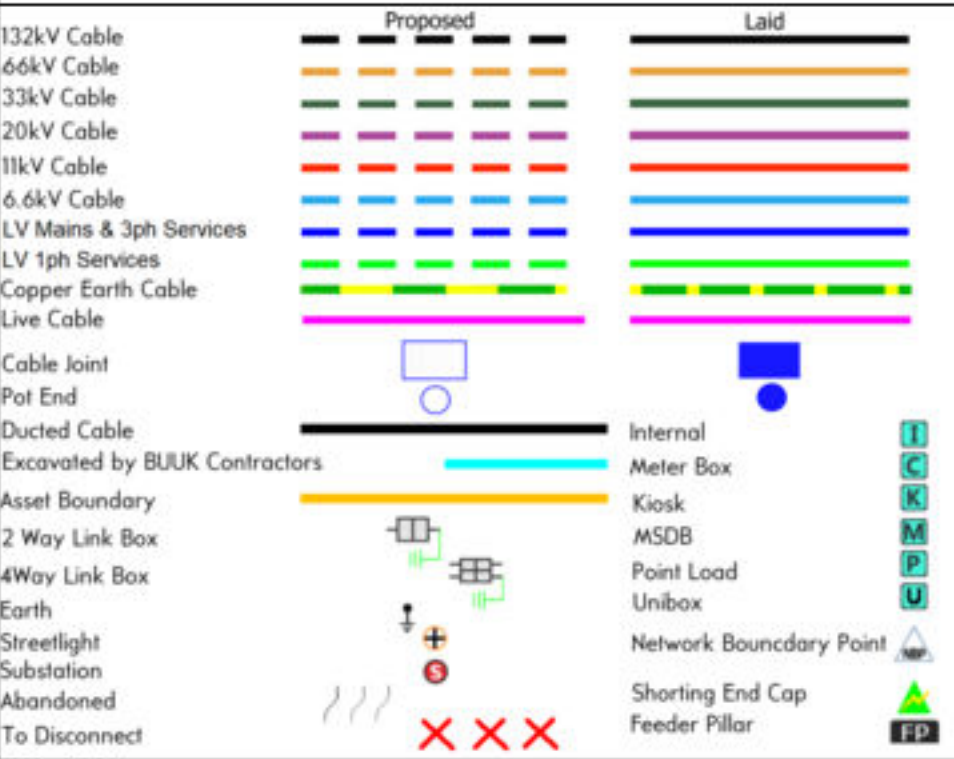
For colour convention mains, the connected phases will be shown as BR, BK, GY Where BR = brown / BK = black / GY = grey.

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.



Plan Notes

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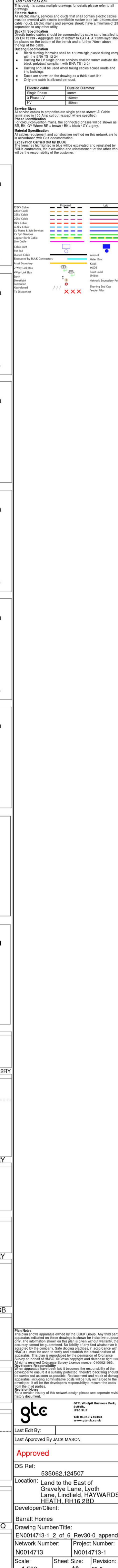
Developers Responsibility

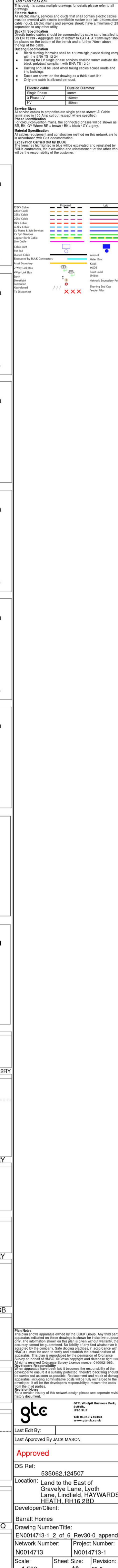
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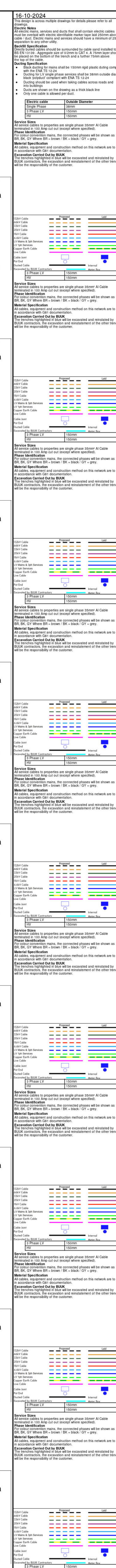
Revision Notes

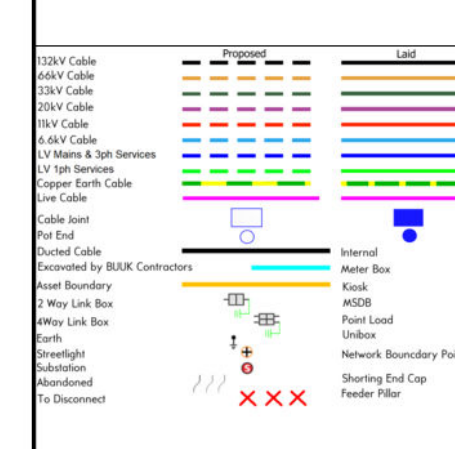
For a revision history of this network design please see separate revision history document.

			GTC, Woolpit Business Park, Suffolk, IP30 9UP Tel: 01359 240363 www.gtc-uk.co.uk		
Last Edit By:					
Last Approved By: JACK MASON 02082024					
Approved					
OS Ref: 535062.124507					
Location: Land to the East of Gravelye Lane, Lyoth Lane, Lindfield, HAYWARDS HEATH, RH16 2BD					
Developer/Client: Barratt Homes					
Drawing Number/Title: EN0014713-1_2_of_6_Rev29-0_appendix					
Network Number: N0014713			Project Number: N0014713-1		
Scale: 1:1500		Sheet Size: A3		Revision: 29.0	



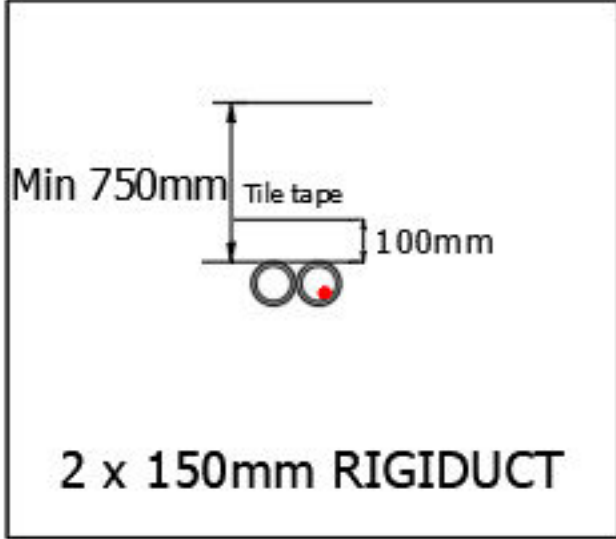




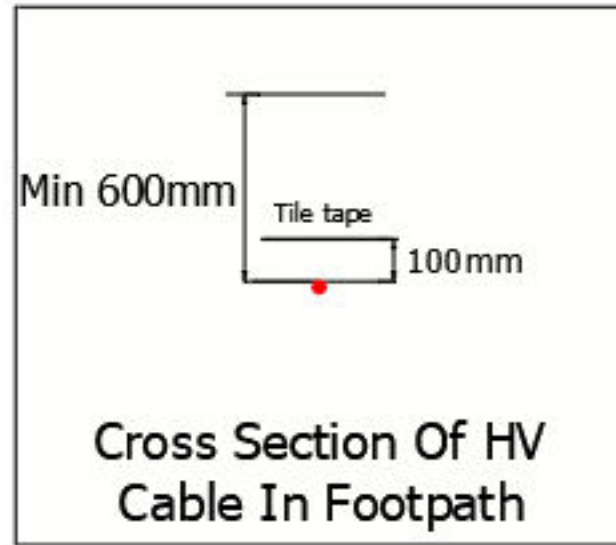


N0014713 - Recent revisions			
N0014713_elec		Revision History	
Rev	Comment	Date	Dsg. App.
33.0	Plot 155, 190 Mains Route Amendment	17/01/25	JM JM
32.0	4-Way Linkbox Variation	16/12/24	MS MS
31.0	EVCP Nr12	16/10/24	JD JD
30.0	EVCP Nr76 Amendment	09/09/24	JM JM
29.0	Block C LL Supply	02/08/24	JM JM
28.0	Way 3.B Amendment for Primary School	08/07/24	JM JM
27.0	1 x TBS NR 200 service cable amendment	05/07/24	AS AS
26.0	Contestable LV Variation	29/05/24	MS MS
25.0	Amend way 5 connection to primary school.	21/05/24	JD JD
24.0	connection of 1 x TBS	14/05/24	ZO ZO
23.0	All plots supplied from UKPN Substation Nr28	08/04/24	DT DT
22.0	DNS over cables that will require upzizing from UKPN POC	26/02/24	DT DT
21.0	87 x streetlights	13/02/24	ZO ZO
20.0	2nd Way from UKPN Sub past 13-28	12/02/24	DT DT
19.0	Removal of dual mains	07/02/24	JD JD
18.0	Addition of 4 Way Linkbox	02/02/24	JD JD
17.0	Hyperoptic Cabinet Amendment to Live Way	23/01/24	KC KC
16.0	Hyperoptic Cabinet Amendment	27/12/23	AF AF
15.0	1-114, 116-117, 169-170, 191-200 from UKPN Substation + H-optic Cab	28/11/23	JM JM
14.0	4 x EVCP FPs and Dual Mains at 5-12	14/11/23	DT DT

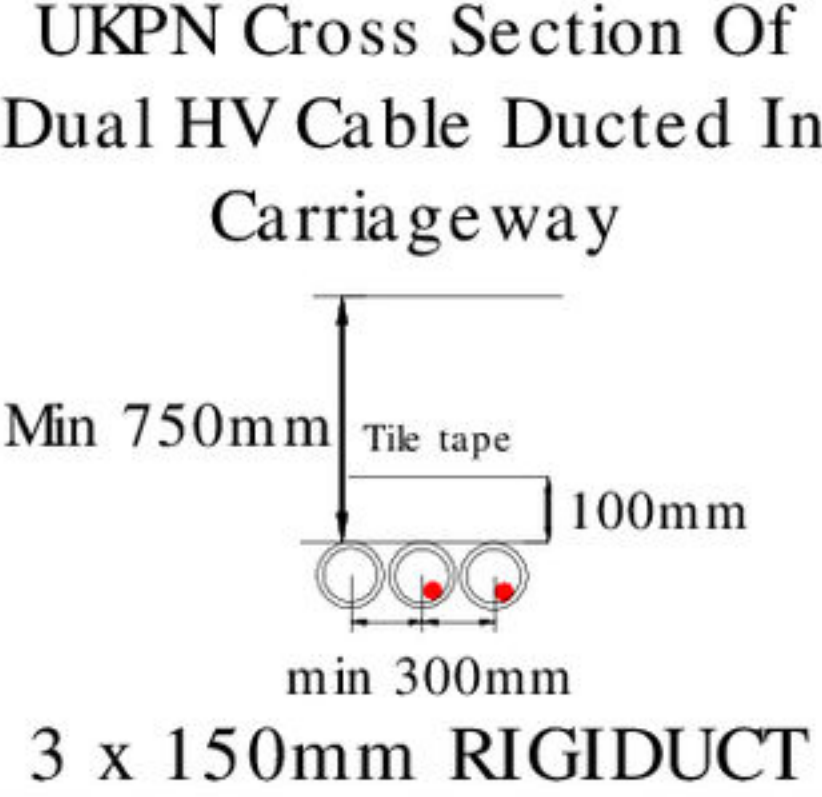
N0014713_E1 RH16 2GB



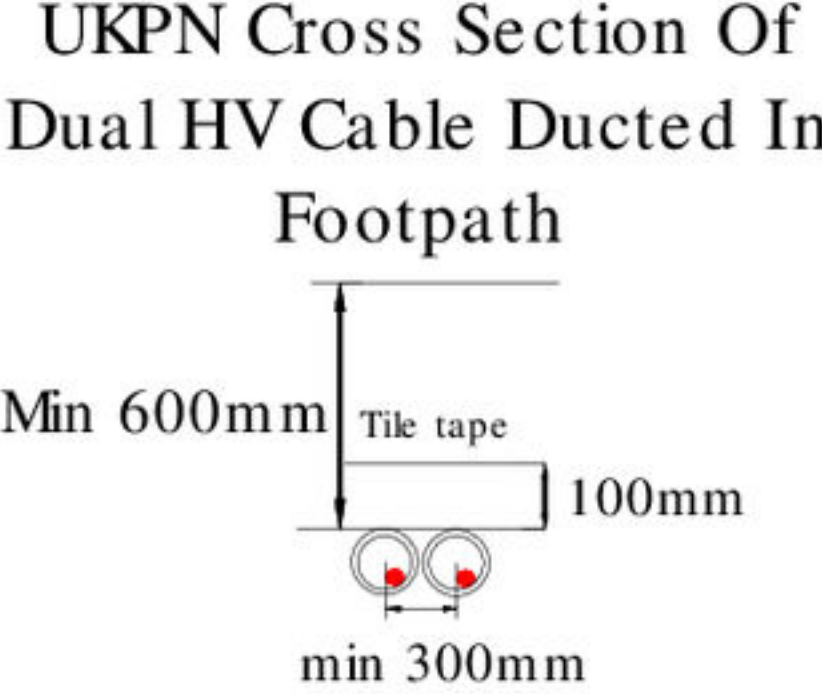
N0014713_E2 RH16 2FZ



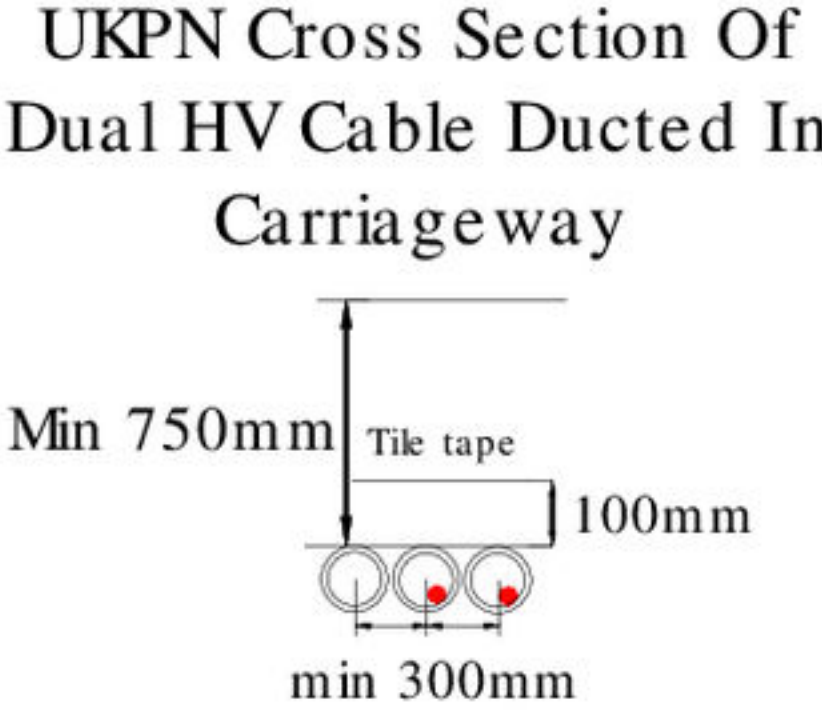
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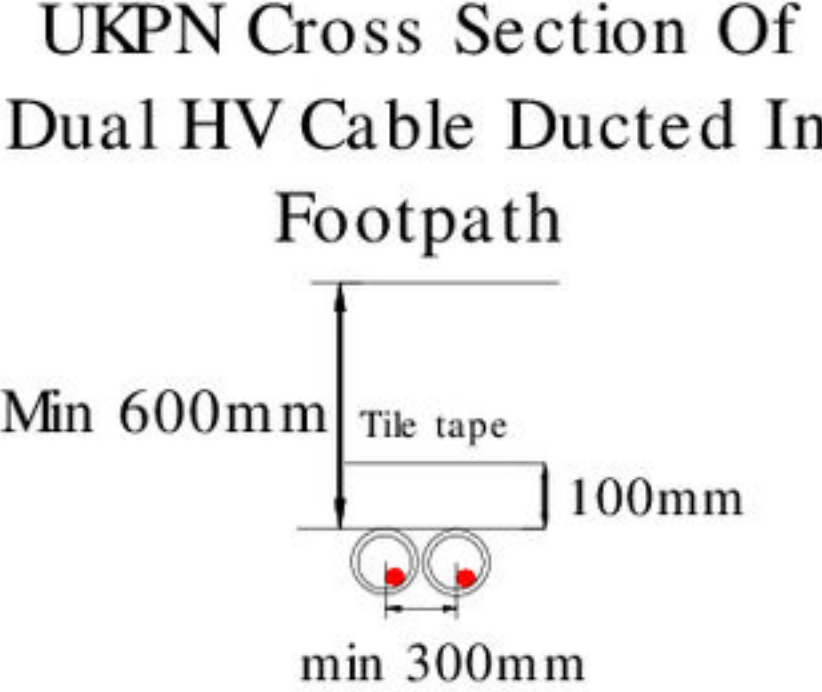
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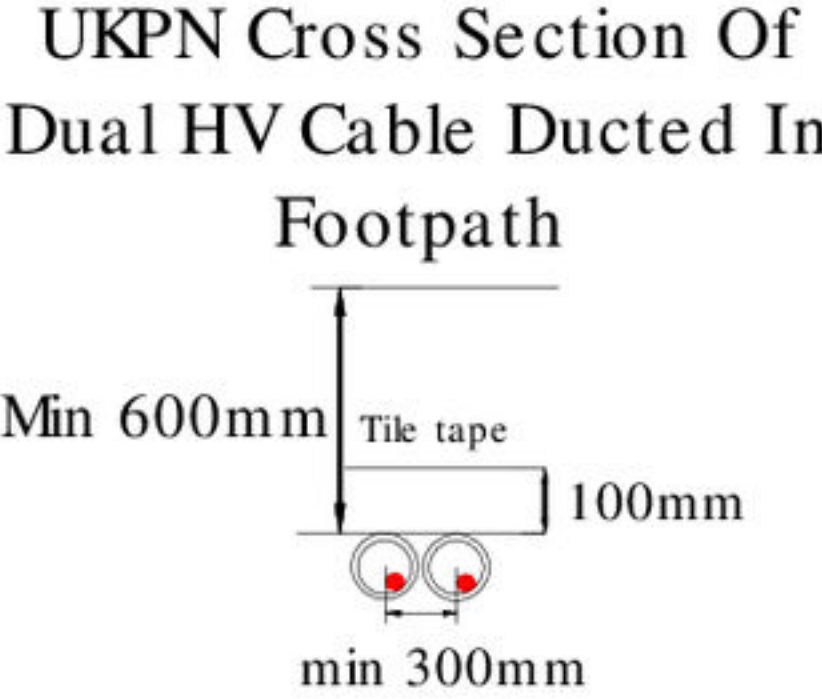
N0019549_E6 RH16 2SJ



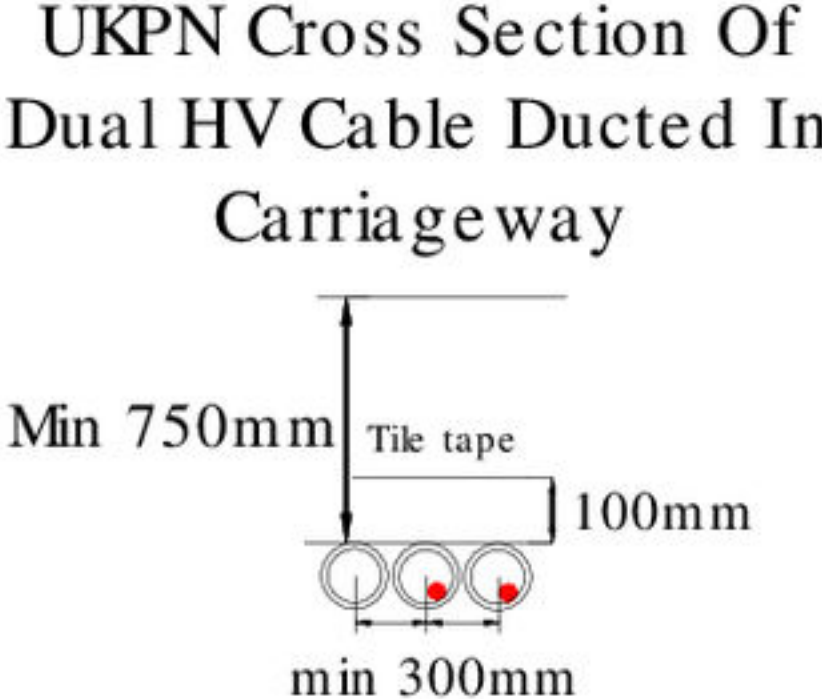
N0019549_E7 RH16 2SJ



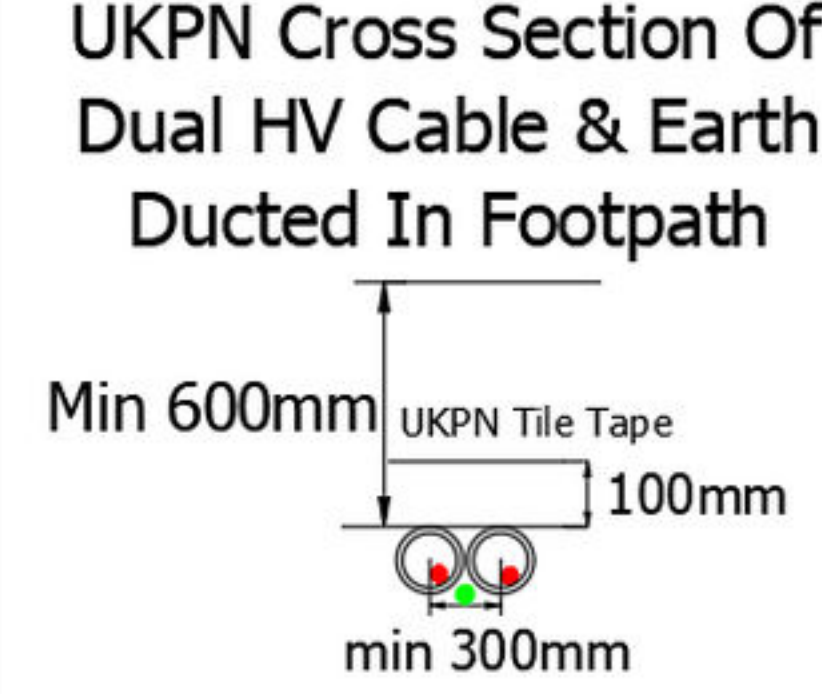
N0019549_E8 RH16 2SJ



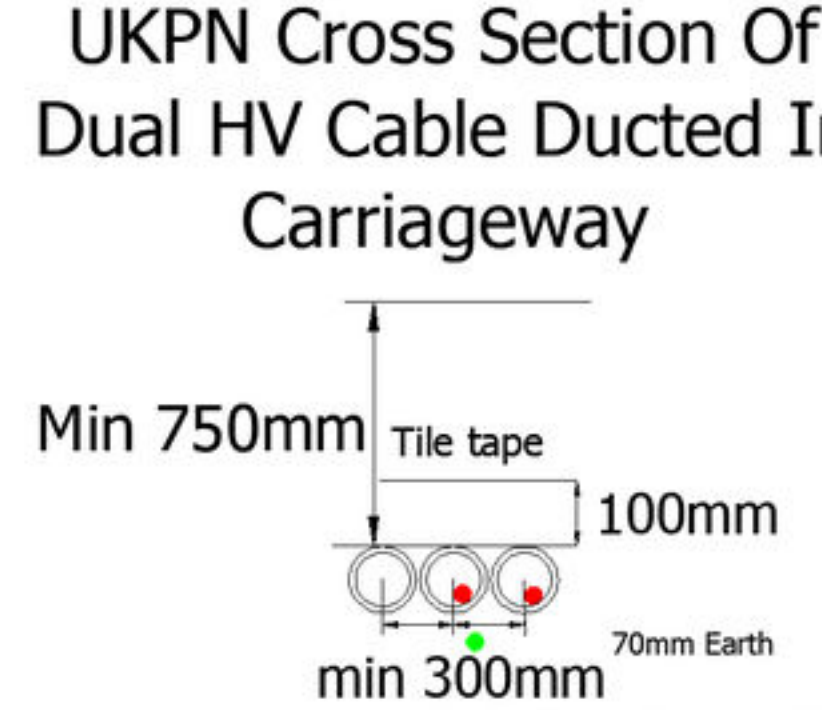
N0019549_E9 RH16 2RY



N0019549_E10 RH16 2RY



N0019549_E11 RH16 2RY



N0014713_Sub RH16 2FZ

Substation Details		
Way	Cable	Fuse (A)
1	185mm	255
2	185mm	315
3	185mm	255

Name:
Number:
Ownership:
Transformer size (kVA): 315
LV cabinet: 4-way
CT ratio:
TLF size (A):
Security assess:
Environ assess:
Building type: StandardBrickBuilt
Door type:
Intake RMU #1:

N0019549_POC RH16 2SJ

POC Details	
Name:	POC
Capacity (kVA):	216
DNO ref:	8200022699
Voltage:	11kV
Volt drop (%):	None
ELI: (mΩ)	None
Conn type:	Straight joint

N0014713 RH16 2GB

POC Details	
Name:	
Capacity (kVA):	
DNO ref:	
Voltage:	11kV
Volt drop (%):	None
ELI: (mΩ)	None
Conn type:	Branch joint

N0014713 RH16 2DY

POC Details	
Name:	
Capacity (kVA):	
DNO ref:	
Voltage:	11kV
Volt drop (%):	None
ELI: (mΩ)	None
Conn type:	Branch joint

N0014713 RH16 2FZ

POC Details	
Name:	
Capacity (kVA):	
DNO ref:	
Voltage:	11kV
Volt drop (%):	None
ELI: (mΩ)	None
Conn type:	Branch joint

N0019549_MSDB3P2 RH16 2RY

MSDB Details		
Plot	MSDB3P2 Phase	J1 Floor
92	GY	0
88	BR	0
89	GY	0
91	BR	0
93	BK	0
90	BK	0
LL 88-93	BK	0

N0019549_MSDB3P0 RH16 2RY

MSDB Details		
Plot	MSDB3P0 Phase	J1 Floor
43	GY	0
41	BK	0
40	GY	0
44	BK	0
42	BR	0
39	BR	0
LL 36-44	BK	0
36	BR	0
38	BK	0
37	GY	0

N0019549_MSDB3P1 RH16 2QQ

MSDB Details		
Plot	MSDB3P1 Phase	J1 Floor
79	GY	0
80	GY	0
87	BK	0
LL 79-87	GY	0
85	BK	0
82	BR	0
83	BR	0
84	BR	0
86	BK	0
81	GY	0

N0014713_Sub Saffron Close IDNO RH16 2RY

Substation Details		
Way	Cable	Fuse (A)
1	185mm	500
2	185mm	500
3	185mm	315
4	185mm	315

Name:	Saffron Close IDNO
Number:	
Ownership:	DNO_ENC
Transformer size (kVA):	500
LV cabinet:	4-way
CT ratio:	50/5
TLF size (A):	10A
Security assess:	Low
Environ assess:	Low
Building type:	StandardBrickBuilt
Door type:	Steel or GRP
Surface type:	Soil
RMU:	Schneider RN2c T1/21
Intake RMU #1:	

N0014713_MSDB1MX RH16 2GB

MSDB Details		
Plot	MSDB1MX Phase	J1 Floor
156	BK	0
157	BR	0
158	GY	0
159	BK	0
160	BR	0
161	GY	0
162	BK	0
163	BR	0
164	GY	0
LL 156-164	BK	0

N0019549_MSDB3P3 RH16 2RY

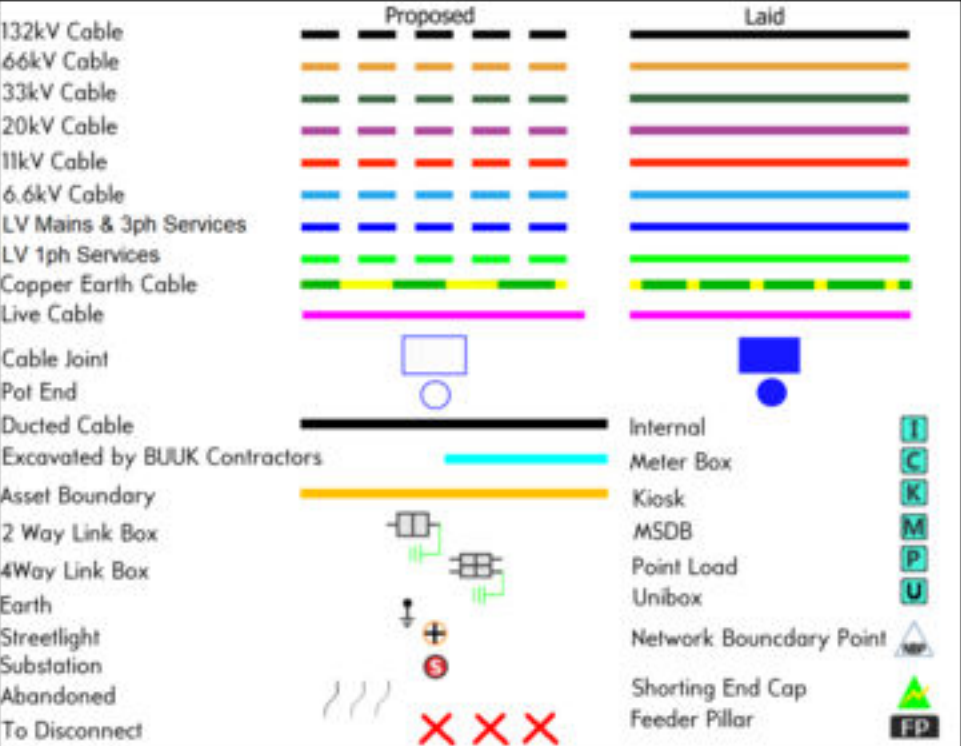
MSDB Details		
Plot	MSDB3P3 Phase	J1 Floor
97	GY	0
96	GY	0
101	BK	0
98	BR	0
99	BR	0
103	BK	0
100	BR	0
104	GY	0
LL 96-104	GY	0
102	BK	0

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.



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

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

Last Edit By:	
Last Approved By:	JACK MASON 17012025

Approved

OS Ref:	535062.124507
---------	---------------

Location:	Land to the East of Gravelye Lane, Lyoth Lane, Lindfield, HAYWARDS HEATH, RH16 2BD
-----------	---

Developer/Client:

Barratt Homes

Drawing Number/Title:	EN0014713-1_2_of_6_Rev33-0_appendix
-----------------------	-------------------------------------

Network Number:	Project Number:
N0014713	N0014713-1

Scale:	Sheet Size:	Revision:
1:1500	A3	33.0

N0014713_Sub_Saffron Close IDNO RH16 2RY

Substation Details

Way	Cable	Fuse (A)
1	185mm	500
2	185mm	500
3	185mm	315
4	185mm	315

Name:

Saffron Close IDNO

Number:

Ownership:

DNO_ENC

Transformer size (kVA):

500

LV cabinet:

4-way

CT ratio:

50/5

TLF size (A):

10A

Security assess:

Low

Environ assess:

Low

Building type:

StandardBrickBuilt

Door type:

Steel or GRP

Surface type:

Soil

RMU:

Schneider RN2c T1/21

Intake RMU #1:

N0014713_Sub_RH16 2FZ

Substation Details

Way	Cable	Fuse (A)
1	185mm	255
2	185mm	315
3	185mm	255

Name:

Number:

Ownership:

Transformer size (kVA):

315

LV cabinet:

4-way

CT ratio:

TLF size (A):

Security assess:

Environ assess:

Building type:

StandardBrickBuilt

Door type:

Intake RMU #1:

N0014713 RH16 2GB

POC Details

Name:

Capacity (kVA):

DNO ref:

Voltage:

11kV

Volt drop (%):

None

ELI: (mΩ)

None

Conn type:

Branch joint

N0014713 RH16 2FZ

POC Details

Name:

Capacity (kVA):

DNO ref:

Voltage:

11kV

Volt drop (%):

None

ELI: (mΩ)

None

Conn type:

Branch joint

N0014713 RH16 2DY

POC Details

Name:

Capacity (kVA):

DNO ref:

Voltage:

11kV

Volt drop (%):

None

ELI: (mΩ)

None

Conn type:

Branch joint

N0019549_POC RH16 2SJ

POC Details

Name:

POC

Capacity (kVA):

216

DNO ref:

8200022699

Voltage:

11kV

Volt drop (%):

None

ELI: (mΩ)

None

Conn type:

Straight joint

N0014713_MSDB1MX RH16 2GB

MSDB Details

Plot	Phase	J1	Floor
156	BK	0	
157	BR	0	
158	GY	0	
159	BK	0	
160	BR	0	
161	GY	0	
162	BK	0	
163	BR	0	
164	GY	0	
LL 156-164	BK	0	

N0014713_E1 RH16 2GB

Min 750mm

Tile tape

100mm

2 x 150mm RIGIDUCT

N0014713_E2 RH16 2FZ

Min 600mm

Tile tape

100mm

Cross Section Of HV Cable In Footpath

N0019549_E2 RH16 2SJ

UKPN Cross Section Of Dual HV Cable Ducted In Carriageway

Min 750mm

Tile tape

100mm

min 300mm

3 x 150mm RIGIDUCT

N0019549_E4 RH16 2SJ

UKPN Cross Section Of Dual HV Cable Ducted In Footpath

Min 600mm

Tile tape

100mm

min 300mm

2 x 150mm RIGIDUCT

N0019549_E6 RH16 2SJ

UKPN Cross Section Of Dual HV Cable Ducted In Carriageway

Min 750mm

Tile tape

100mm

min 300mm

3 x 150mm RIGIDUCT

N0019549_E7 RH16 2SJ

UKPN Cross Section Of Dual HV Cable Ducted In Footpath

Min 600mm

Tile tape

100mm

min 300mm

2 x 150mm RIGIDUCT

N0019549_E8 RH16 2SJ

UKPN Cross Section Of Dual HV Cable Ducted In Footpath

Min 600mm

Tile tape

100mm

min 300mm

2 x 150mm RIGIDUCT

N0019549_E9 RH16 2RY

UKPN Cross Section Of Dual HV Cable Ducted In Carriageway

Min 750mm

Tile tape

100mm

min 300mm

3 x 150mm RIGIDUCT

N0019549_E10 RH16 2RY

UKPN Cross Section Of Dual HV Cable & Earth Ducted In Footpath

Min 600mm

UKPN Tile Tape

100mm

min 300mm

2 x 150mm RIGIDUCT

N0019549_E11 RH16 2RY

UKPN Cross Section Of Dual HV Cable Ducted In Carriageway

Min 750mm

Tile tape

100mm

min 300mm

3 x 150mm RIGIDUCT

N0019549_MSDB3P0 RH16 2RY

MSDB Details

Plot	Phase	J1	Floor
43	GY	0	
41	BK	0	
40	GY	0	
44	BK	0	
42	BR	0	
39	BR	0	
LL 36-44	BK	0	
36	BR	0	
38	BK	0	
37	GY	0	

N0019549_MSDB3P1 RH16 2QQ

MSDB Details

Plot	Phase	J1	Floor
79	GY	0	
80	GY	0	
87	BK	0	
LL 79-87	GY	0	
85	BK	0	
82	BR	0	
83	BR	0	
84	BR	0	
86	BK	0	
81	GY	0	

N0019549_MSDB3P2 RH16 2RY

MSDB Details

Plot	Phase	J1	Floor
92	GY	0	
88	BR	0	
89	GY	0	
91	BR	0	
93	BK	0	
90	BK	0	
LL 88-93	BK	0	

N0019549_MSDB3P3 RH16 2RY

MSDB Details

Plot	Phase	J1	Floor
97	GY	0	
96	GY	0	
101	BK	0	
98	BR	0	
99	BR	0	
103	BK	0	
100	BR	0	
104	GY	0	
LL 96-104	GY	0	
102	BK	0	

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132kV Cable

66kV Cable

33kV Cable

20kV Cable

11kV Cable

6.6kV Cable

LV 3 Core Cable

Service 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

Proposed

Laid

Internal

Meter Box

Kiosk

MSDB

Point Load

Unibox

Network Boundary Point

Shoring End Cap

Feeder Pillar

Plan Notes

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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: MATTHEW SAYER 06062023

Approved

OS Ref:
535062.124507

Location:
Land to the East of
Gravelye Lane, Lyoth
Lane, Lindfield, HAYWARDS
HEATH, RH16 2BD

Developer/Client:
Barratt Homes

Drawing Number/Title:
EN0014713-1_2_of_6_appendix

Network Number:
N0014713

Project Number:
N0014713-1

Scale:
1:1500

Sheet Size:
A3

Revision:
11.0