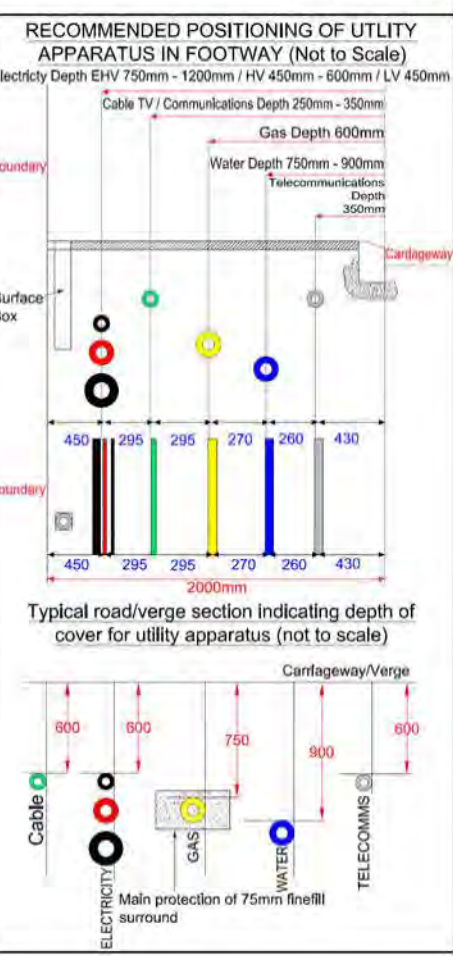


Notes:

- 1. This drawing is a site plan for the proposed development and is not to be used for any other purpose.
- 2. The proposed development is shown in yellow on this drawing.
- 3. The proposed development is shown in yellow on this drawing.
- 4. The proposed development is shown in yellow on this drawing.
- 5. The proposed development is shown in yellow on this drawing.
- 6. The proposed development is shown in yellow on this drawing.
- 7. The proposed development is shown in yellow on this drawing.
- 8. The proposed development is shown in yellow on this drawing.
- 9. The proposed development is shown in yellow on this drawing.
- 10. The proposed development is shown in yellow on this drawing.

Legend:

Proposed Development	Yellow
Existing Buildings	Grey
Proposed Buildings	White
Proposed Roads	Red
Proposed Footpaths	Blue
Proposed Cycleways	Green
Proposed Green Spaces	Light Green
Proposed Water Features	Blue
Proposed Trees	Circle with cross
Proposed Fences	Dashed line
Proposed Gates	Square with cross
Proposed Streetlights	Circle with cross
Proposed Benches	Circle with cross
Proposed Bins	Circle with cross
Proposed Planters	Circle with cross
Proposed Bollards	Circle with cross
Proposed Signposts	Circle with cross
Proposed Street Furniture	Circle with cross
Proposed Landscaping	Circle with cross
Proposed Other	Circle with cross



On-street electric vehicle charging equipment requires a separate TT earthing system. Minimum separation of 2m from GIC earthing system and from any overhead power lines. Developer to forward copy of the earthing risk assessment for GIC records.

310 TBS max. 100 amp. Developer to supply and install 100 amp GIC cable.

N001421-1

N0013849-1

TERMINATE 3-DWYV SYSTEMS WITH MANHOLE FOR SUPPLY TO THE GAS HEATED PLATS - 1 Phase (L) (S) (D) - MANHOLE SETTERS TO BE LOCATED OUTSIDE FOOTWAY

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 240mm beneath the finished surface. Electric mains and services should have a minimum of 250mm clearance from other utilities.

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**
- Ducting should be black twin walled corrugated rigid duct and should conform to ENATS 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

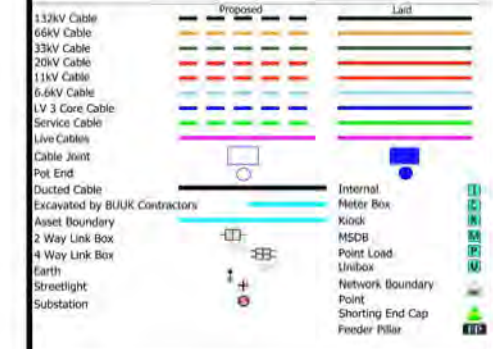
Electric Cable	Min. Duct Inside Diameter
Single Phase	32mm
3 Phase LV	150mm
HV	150mm

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 new colour convention mains, the connected phases will be shown as BR, BK, GY Where BR = brown (red) / BK = black (yellow) / GY = grey (blue).

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 HS(G)47, 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 developer's 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.

Last Edit By: _____
 Last Approved By: _____

OS Ref: _____

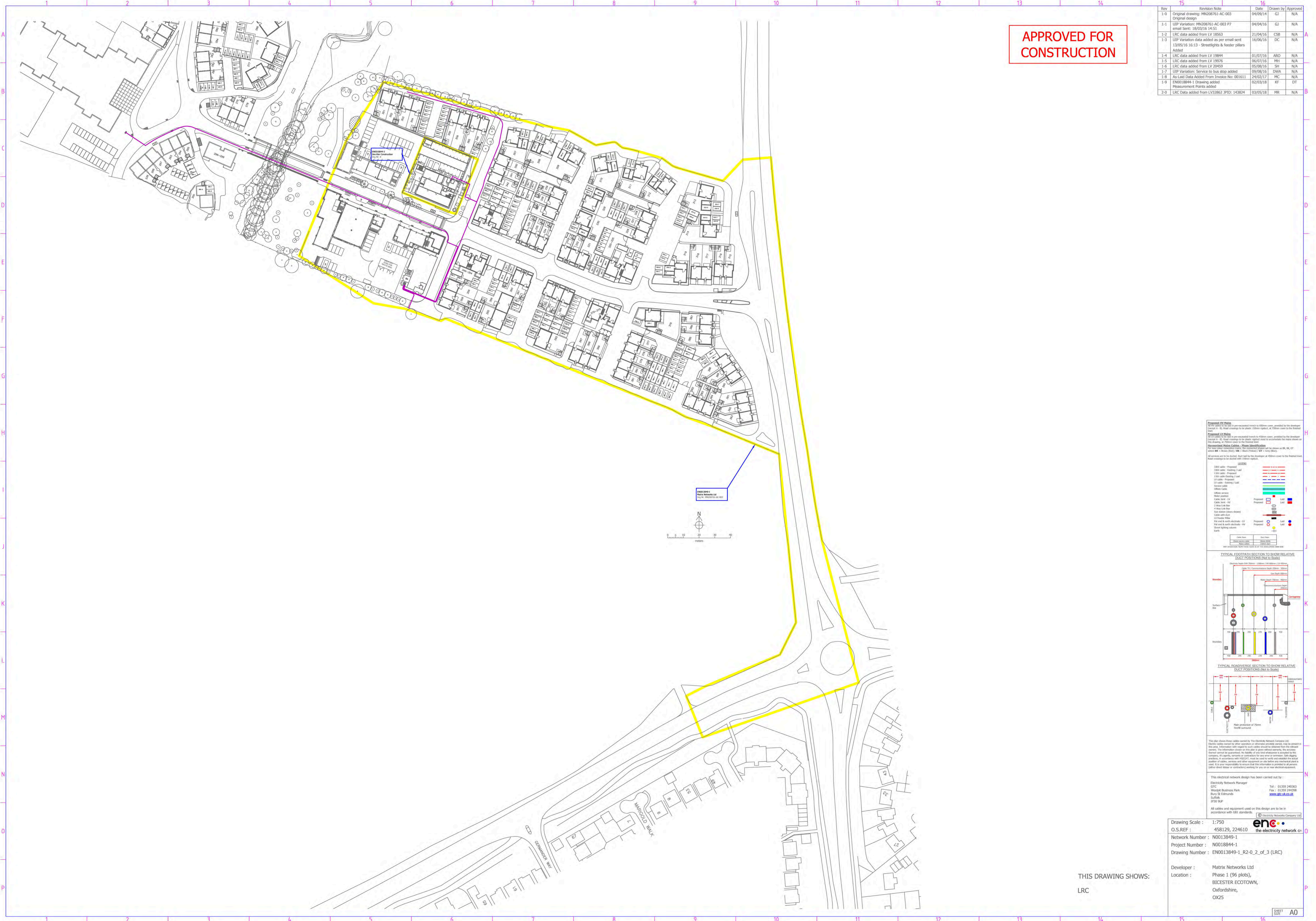
Location: _____

Developer/Client: _____

Drawing Number/Title: _____

Network Number: _____ Project Number: _____

Scale: _____ Sheet Size: _____ Revision: _____
 at the time of enquiry.

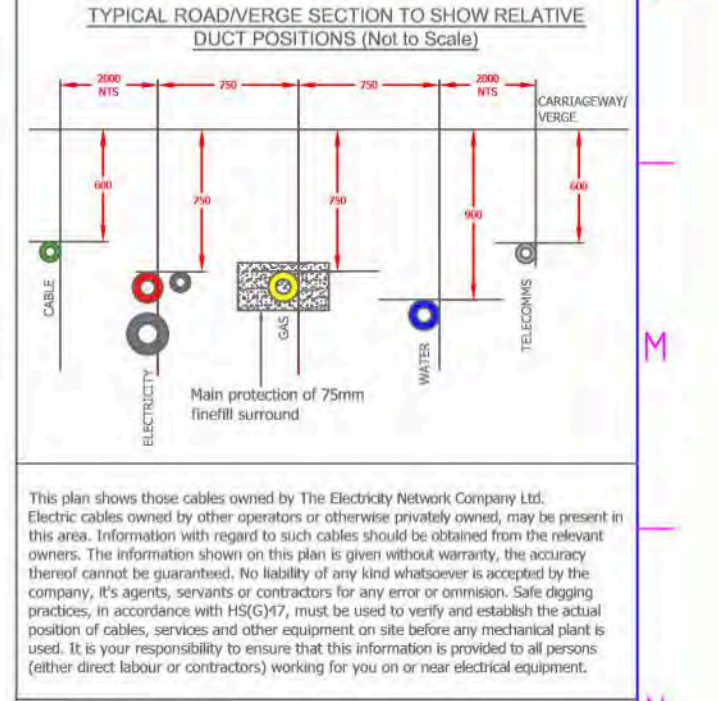
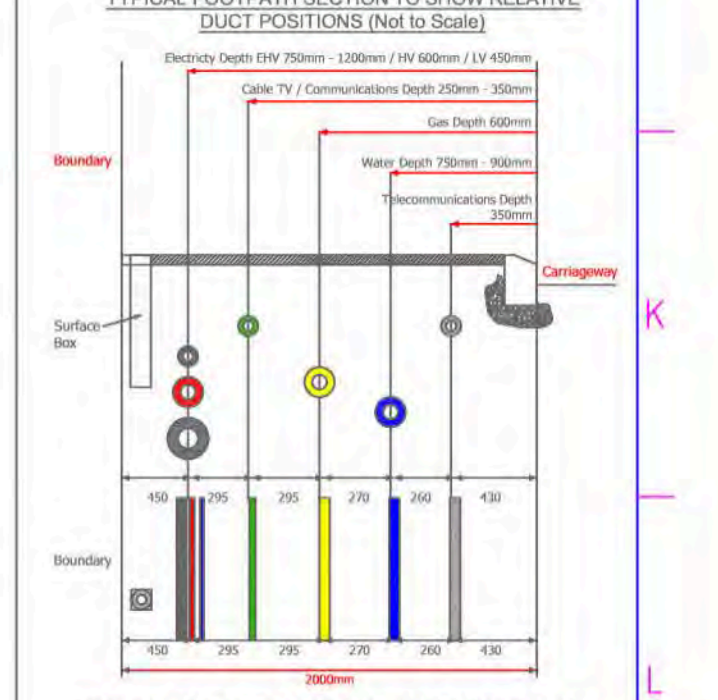


APPROVED FOR CONSTRUCTION

Rev	Revision Note	Date	Drawn by	Approved
1.0	Original drawing: MN200761-AC-003 Original design	04/09/14	GJ	N/A
1.1	UIP Variation: MN200761-AC-003 P7 email Sent: 18/03/16 14:51	04/04/16	GJ	N/A
1.2	LRC data added from LV 18963	21/04/16	CSB	N/A
1.3	UIP Variation data added as per email sent 13/05/16 16:13 - Streetlights & feeder pillars added	15/06/16	DC	N/A
1.4	LRC data added from LV 19844	01/07/16	ARD	N/A
1.5	LRC data added from LV 19976	06/07/16	MB1	N/A
1.6	LRC data added from LV 20459	05/08/16	SH	N/A
1.7	UIP Variation: Service to bus stop added	09/08/16	DWA	N/A
1.8	As-Is Data Added From Invoice No: 001611	24/02/17	MC	N/A
1.9	EN0018844-1 Drawing added Measurement Points added	02/03/18	KF	DT
2.0	LRC Data added from LV20662 (PID: 143824)	03/05/18	NR	N/A

Proposed LV Items
 230V cable - Proposed
 230V cable - Existing (not shown)
 110V cable - Proposed
 110V cable - Existing (not shown)
 LV cable - Proposed
 LV cable - Existing (not shown)
 Service cable
 Office cable
 Office service
 Office service
 Cable tray - 150mm
 Cable tray - 150mm
 2 Way Cable Tray
 4 Way Cable Tray
 6 Way Cable Tray (Backward)
 Cable with duct
 40mm dia. cable
 25mm dia. cable
 16mm dia. cable
 10mm dia. cable
 Earth

Proposed HV Items
 11kV cable - Proposed
 11kV cable - Existing (not shown)
 33kV cable - Proposed
 33kV cable - Existing (not shown)
 110kV cable - Proposed
 110kV cable - Existing (not shown)
 220kV cable - Proposed
 220kV cable - Existing (not shown)
 400kV cable - Proposed
 400kV cable - Existing (not shown)
 765kV cable - Proposed
 765kV cable - Existing (not shown)



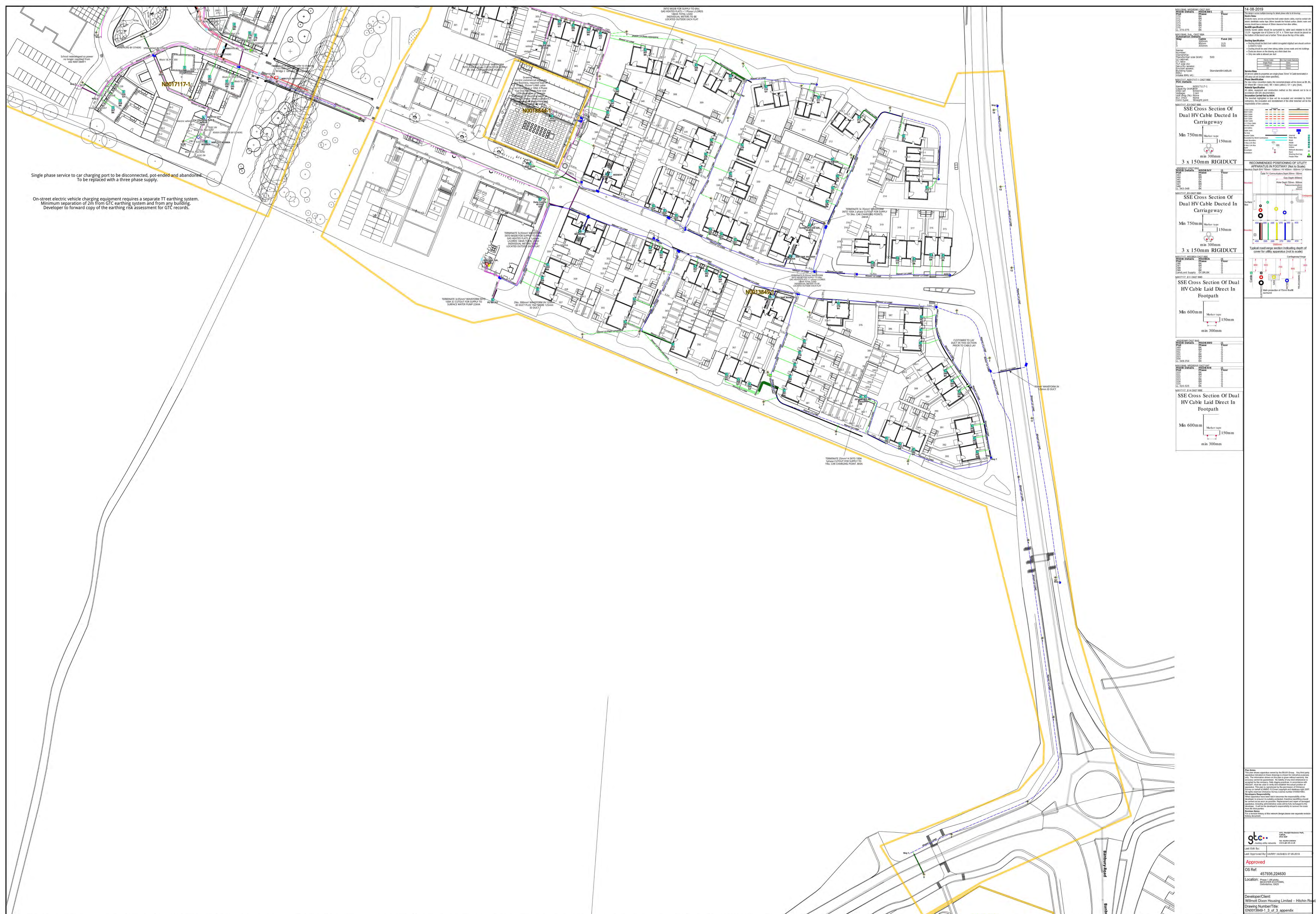
This drawing shows cables owned by The Electricity Network Company Ltd. The cables shown are for information only and do not represent a physical asset. The information shown in this drawing is for information only and does not represent a physical asset. The information shown in this drawing is for information only and does not represent a physical asset. The information shown in this drawing is for information only and does not represent a physical asset.

Drawing Scale : 1:750
 O.S.REF : 458129, 224610
 Network Number : N0013849-1
 Project Number : N0018844-1
 Drawing Number : EN0013849-1_R2-0_2_of_3 (LRC)

Developer : Matrix Networks Ltd
 Location : Phase 1 (96 plots), BICESTER ECOTOWN, Oxfordshire, OX25

the electricity network co

THIS DRAWING SHOWS:
LRC



14-08-2019

PROJECT: NW BICESTER HOUSING PHASE 1

CLIENT: WILMOTT DIXON HOUSING LIMITED

DESIGNER: GTC

DATE: 14-08-2019

SCALE: 1:1

PROJECT NO: 457936/224630

LOCATION: NW BICESTER HOUSING PHASE 1, BARNUM ROAD, DORSET, DT10 1LH

SSE Cross Section Of Dual HV Cable Ducted In Carriageway

Mn 750mm

Marker tape

150mm

3 x 150mm RIGIDUCT

SSE Cross Section Of Dual HV Cable Ducted In Carriageway

Mn 750mm

Marker tape

150mm

min 300mm

3 x 150mm RIGIDUCT

SSE Cross Section Of Dual HV Cable Laid Direct In Footpath

Mn 600mm

Marker tape

150mm

min 300mm

SSE Cross Section Of Dual HV Cable Laid Direct In Footpath

Mn 600mm

Marker tape

150mm

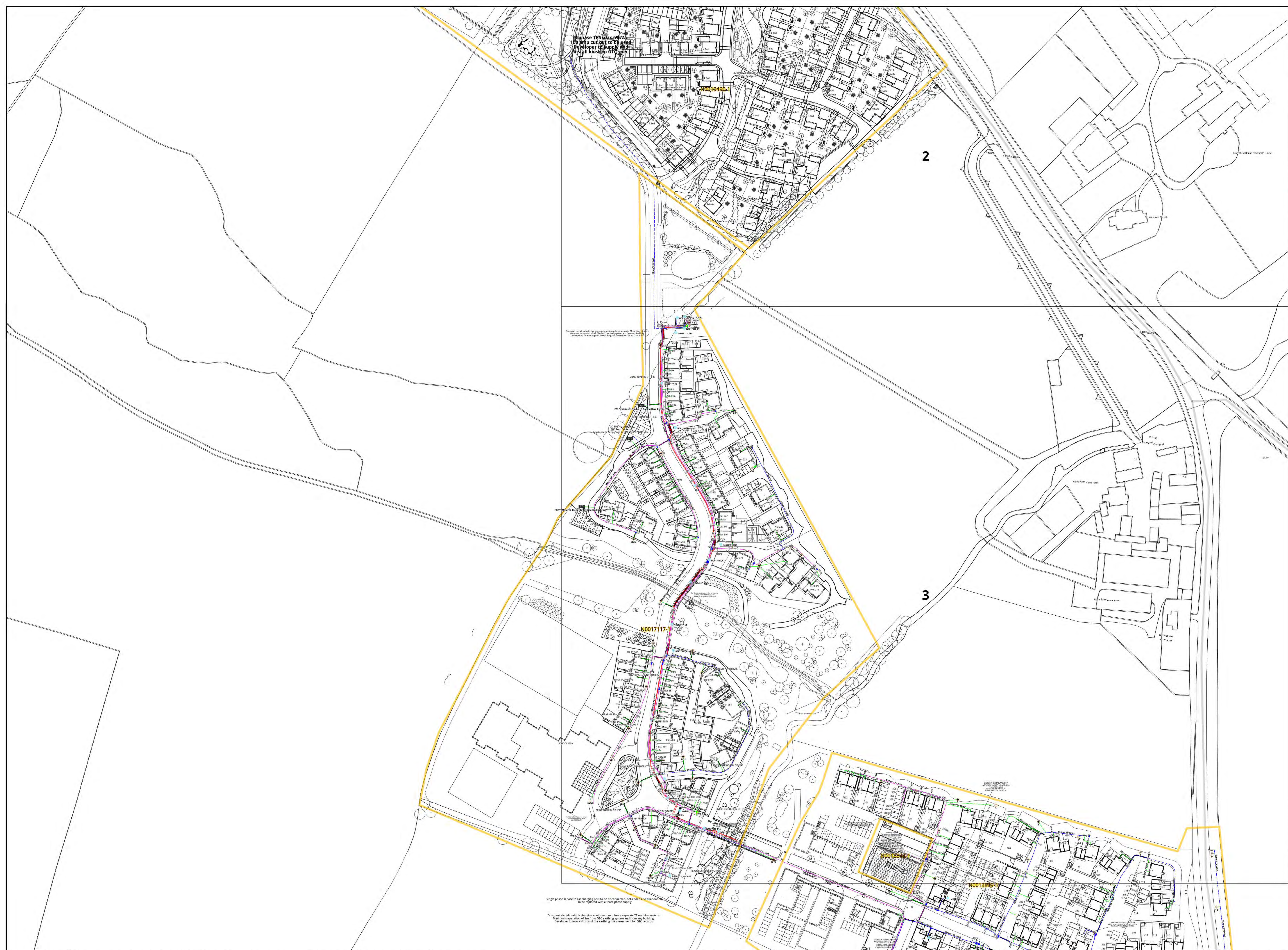
min 300mm

RECOMMENDED POSITIONING OF UTILITY APPARATUS IN FOOTWAY (Not to Scale)

Utility Apparatus Positioning Diagram

Typical installation including depth of cover for utility apparatus (not to scale)

Utility Apparatus Positioning Diagram



Phase 105 Max capacity
100 Amp cut out to be used
Developer to supply and
install kiosk to GTC agent

On street electric vehicle charging equipment requires a separate TT earthing system.
Minimum separation of 2m from GTC earthing system and from public buildings.
Developer to forward copy of the earthing risk assessment for GTC records.

14-08-2019

Notes:
 1. All work shall be carried out in accordance with the relevant standards and codes of practice.
 2. The contractor shall be responsible for obtaining all necessary permits and approvals.
 3. The contractor shall be responsible for the safety of all personnel and the public.
 4. The contractor shall be responsible for the protection of all existing services and structures.
 5. The contractor shall be responsible for the removal and reinstatement of all services and structures.
 6. The contractor shall be responsible for the completion of all work within the agreed programme of works.

Legend:

Symbol	Description
(Symbol)	110V AC
(Symbol)	230V AC
(Symbol)	380V AC
(Symbol)	110V DC
(Symbol)	230V DC
(Symbol)	380V DC
(Symbol)	Lightning Protection
(Symbol)	Structural Steel
(Symbol)	Concrete
(Symbol)	Brick
(Symbol)	Blockwork
(Symbol)	Timber
(Symbol)	Asphalt
(Symbol)	Gravel
(Symbol)	Grass
(Symbol)	Water
(Symbol)	Sewer
(Symbol)	Road
(Symbol)	Footway
(Symbol)	Boundary
(Symbol)	Proposed
(Symbol)	Existing

RECOMMENDED POSITIONING OF UTILITY APPARATUS IN FOOTWAY (Not to Scale)

Table 1: Minimum Separation Distances (mm)

Utility	Depth (mm)	Separation (mm)
110V AC	0-100	100
	100-200	150
230V AC	0-100	150
	100-200	200
380V AC	0-100	200
	100-200	250
110V DC	0-100	100
	100-200	150
230V DC	0-100	150
	100-200	200
380V DC	0-100	200
	100-200	250

Typical installation details including depth of cover for utility apparatus (not to scale)

Table 2: Typical Installation Details

Utility	Depth (mm)	Separation (mm)
110V AC	100	100
230V AC	150	150
380V AC	200	200
110V DC	100	100
230V DC	150	150
380V DC	200	200

gtec Group

Approved

OS Ref: 457751/225028

Location: Phase 2 BICESTER, 0127

Developer/Client: H3I Partnerships

Drawing Number/Title: EN001717-1 of 5 - Entire site approach

Network Number: N001717-1

Project Number: N001717-1

Scale: A0

Revision: 15-1

14-08-2019

Item	Description	Page	Total Pages
1	Cover Sheet	1	1
2	General Arrangement	2	2
3	Equipment Specifications	3	3
4	Typical Cross Sections	4	4
5	Material Schedule	5	5
6	Bill of Materials	6	6
7	Appendix A	7	7

Notes:

- 1. All dimensions are in millimeters unless otherwise specified.
- 2. All materials shall be of a grade suitable for the intended application and shall be tested to the relevant standards.
- 3. The contractor shall be responsible for the correct installation and maintenance of the equipment.
- 4. The contractor shall be responsible for the correct identification of the cables and equipment.
- 5. The contractor shall be responsible for the correct marking of the cables and equipment.
- 6. The contractor shall be responsible for the correct labeling of the cables and equipment.
- 7. The contractor shall be responsible for the correct recording of the cables and equipment.
- 8. The contractor shall be responsible for the correct storage of the cables and equipment.
- 9. The contractor shall be responsible for the correct handling of the cables and equipment.
- 10. The contractor shall be responsible for the correct disposal of the cables and equipment.

Revisions:

No.	Description	Date
1	Issue for Tender	14/08/2019
2	As Issued	14/08/2019



3 phase TBS max 69kVA,
100 amp cut out to be used.
Developer to supply and
install kiosk to GTC spec.

N0018496

N0017117-1

RECOMMENDED POSITIONING OF UTILITY APPARATUS IN FOOTWAY (Not to Scale)

Typical cross-sections including depth of cover for utility apparatus (not to scale)

Notes:

- 1. The depth of cover shall be as per the relevant standards.
- 2. The depth of cover shall be as per the relevant standards.
- 3. The depth of cover shall be as per the relevant standards.
- 4. The depth of cover shall be as per the relevant standards.
- 5. The depth of cover shall be as per the relevant standards.
- 6. The depth of cover shall be as per the relevant standards.
- 7. The depth of cover shall be as per the relevant standards.
- 8. The depth of cover shall be as per the relevant standards.
- 9. The depth of cover shall be as per the relevant standards.
- 10. The depth of cover shall be as per the relevant standards.

gtc.

OS Ref: 457931, 225331
Location: Phase 2 BICESTER, 0127

Developer/Client:
Hill Partnerships
Drawing Number/Title:
EN0017117-1 2 of 5 appendix
Network Number: Project Number:
Scale: AO
Revision: 1-1

On-street electric vehicle charging equipment requires a separate TT earthing system. Minimum separation of 2m from GTC earthing system and from any building. Developer to supply and install separate GTC earthing system.

30 TSC max capacity 100 Amp. Developer to supply and install separate GTC earthing system.

No roof arrangement unless otherwise specified. General arrangement.

TERMINATE SCHEMATIC WORKFORMS TO THE MAIN RIBS USING 75mm GALV HEATED PLATE + 1 Phase LEGS AND LOCKED OUTSIDE EACH FLAT. RESIDUAL METERS TO BE LOCKED OUTSIDE EACH FLAT.

Single phase service to car charging port to be disconnected, pot-ended and abandoned. To be replaced with a three phase supply.

RECOMMENDED POSITIONING OF UTILITY APPARATUS IN FOOTWAY (Not to Scale)

Utility Apparatus Depth 200mm - 300mm
 Cable Trench Depth 200mm - 300mm
 Cable Trench Width 100mm - 150mm
 Cable Trench Spacing 100mm - 150mm
 Cable Trench Depth 200mm - 300mm
 Cable Trench Width 100mm - 150mm
 Cable Trench Spacing 100mm - 150mm

Typical installation details including depth of cover for utility apparatus (not to scale)

Utility Apparatus Depth 200mm - 300mm
 Cable Trench Depth 200mm - 300mm
 Cable Trench Width 100mm - 150mm
 Cable Trench Spacing 100mm - 150mm

gtec Group Limited
 257931 224958
 Approved
 OS Ref: 257931 224958
 Location: Phase 2 BICESTER, O127

Developer/Client: H3I Partnerships
 Drawing Number/Title: EN001717-1 of 2 - Appendix
 Network Number: N001717-1
 Project Number: AO 15-1

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 240mm beneath the finished surface. Electric mains and services should have a minimum of 250mm clearance from other utilities.

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

- Ducting should be black twin walled corrugated rigid duct and should conform to ENATS 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	Min. Duct Inside Diameter
Single Phase	32mm
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

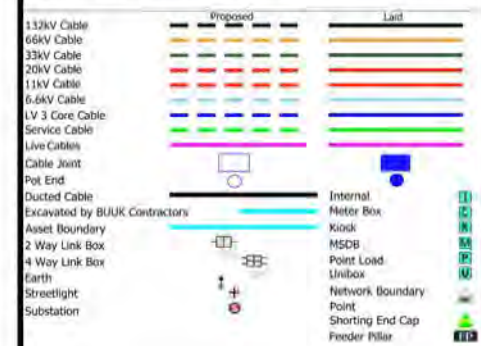
For new colour convention mains, the connected phases will be shown as BR, BK, GY Where BR = brown (red) / BK = black (yellow) / GY = grey (blue).

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 developer's 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.

Last Edit By:

Last Approved By:

OS Ref:

Location:

Developer/Client:

Drawing Number/Title:

Network Number:

Project Number:

Scale:

Sheet Size:

Revision: