

Dig Sites Area: Line:

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This plan must be used with the attached 'Symbols' document.

Date Requested: 17/08/2018
 Job Reference: 13536794
 Site Location: 574497 162277
 Requested by:
 Mr Liam English
 Your Scheme/Reference: North Dane Way
 Scale: 1:500 (When plotted at A3)

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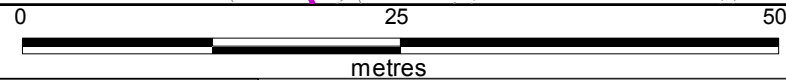
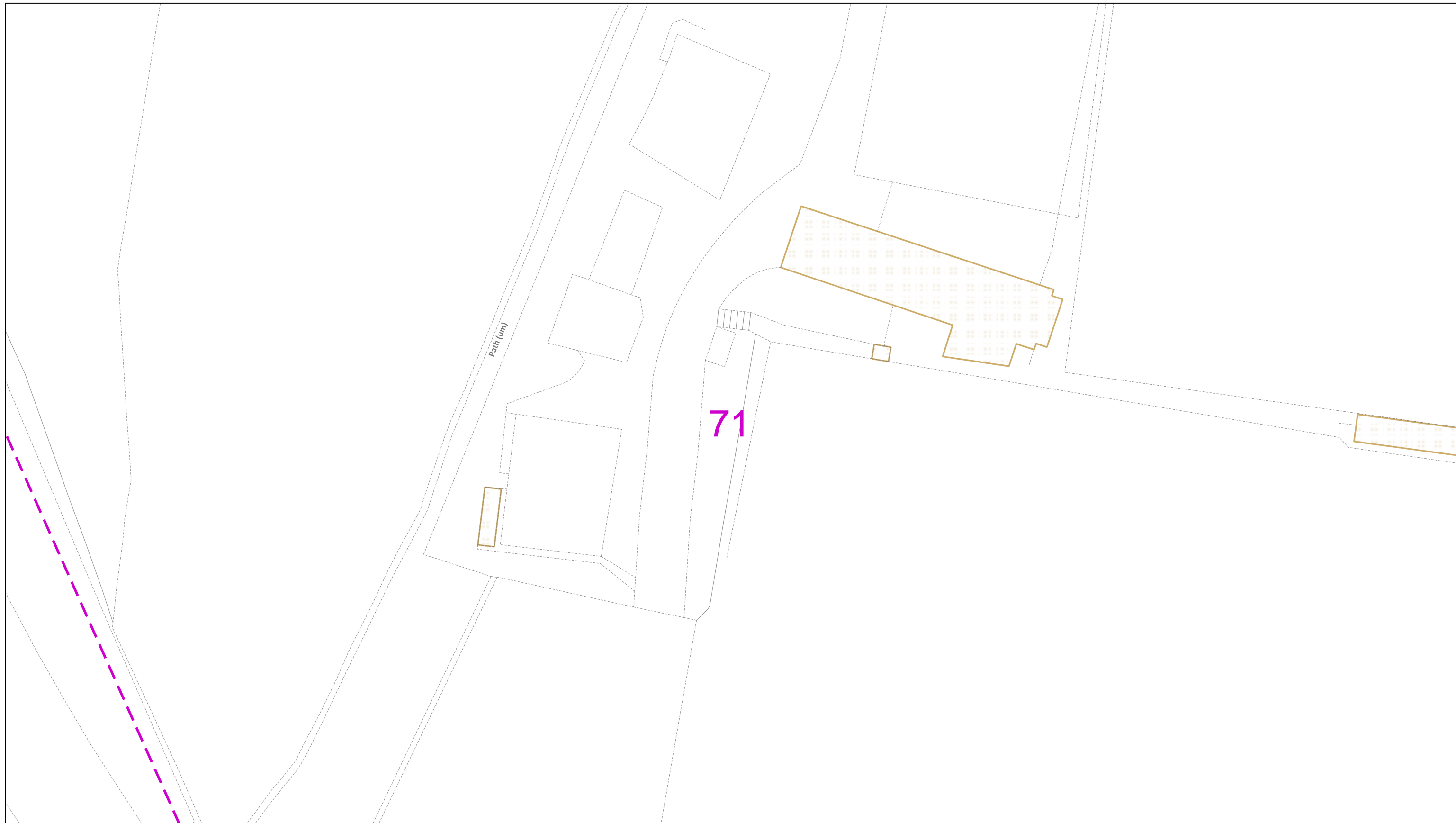


IF IN DOUBT - ASK!
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 EMERGENCY - If you damage a cable or line
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 (24hrs) URGENTLY



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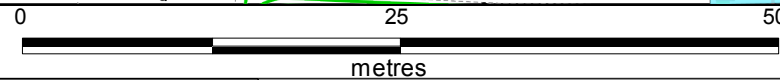
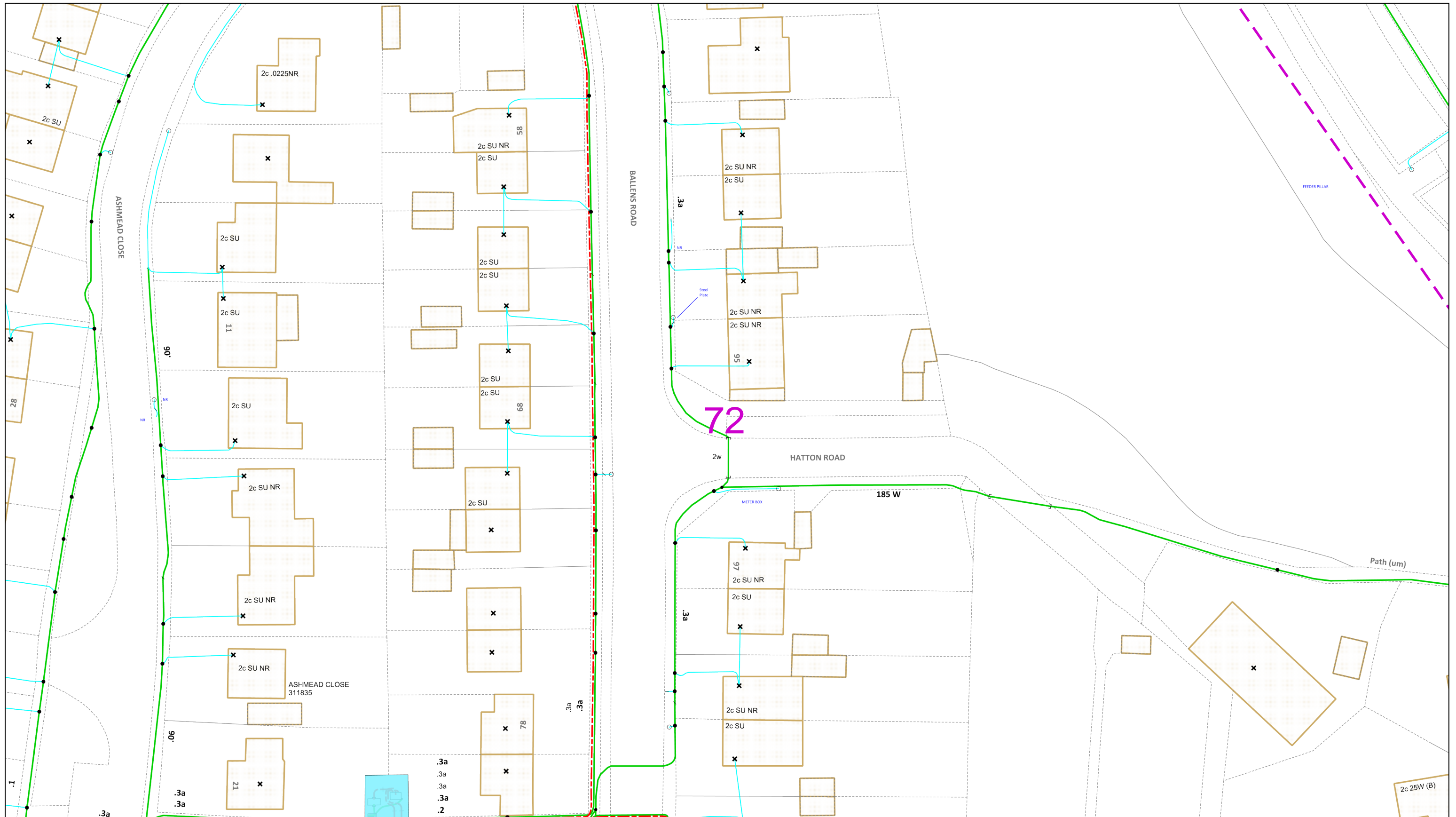
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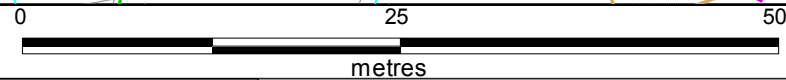
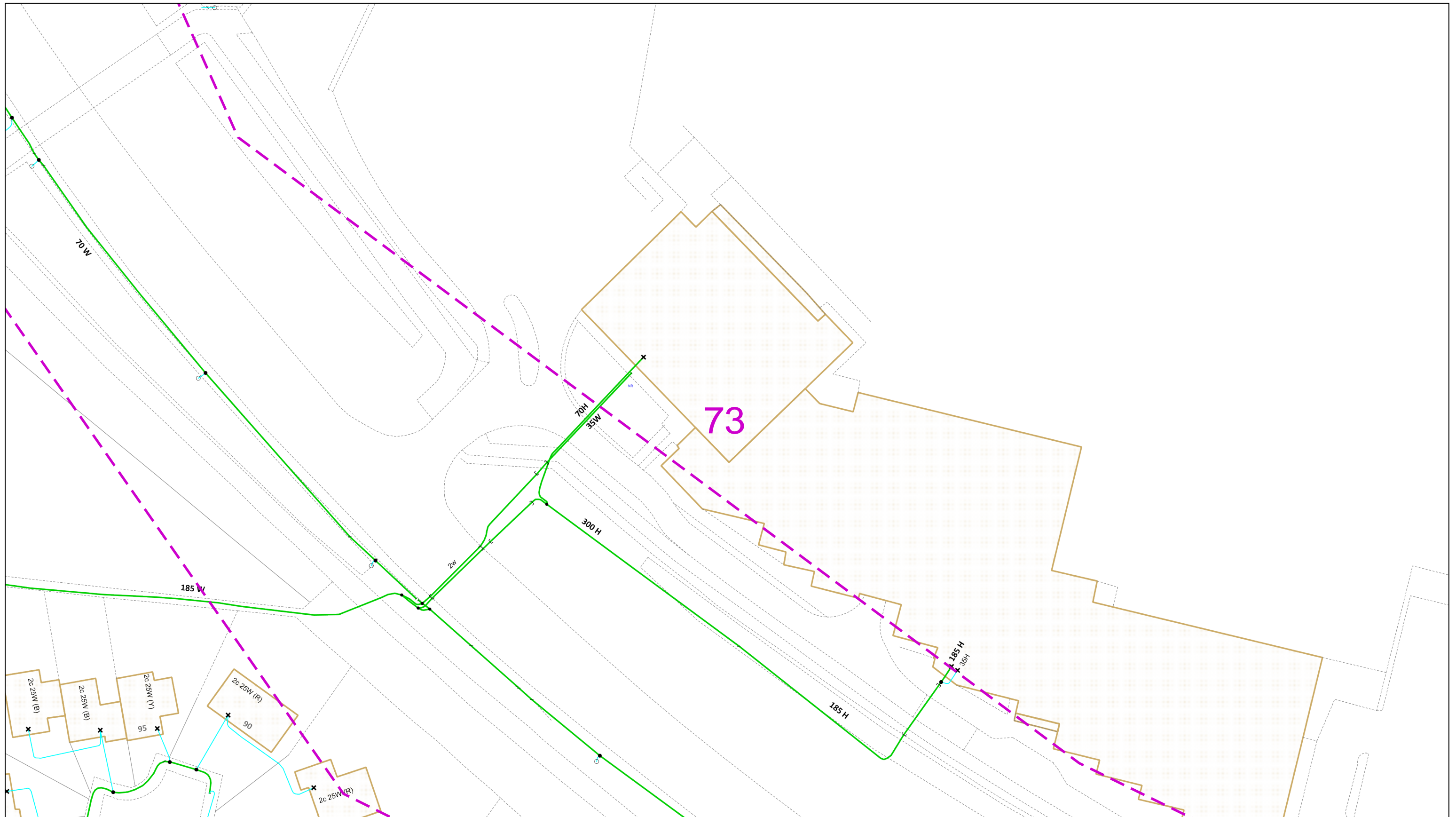
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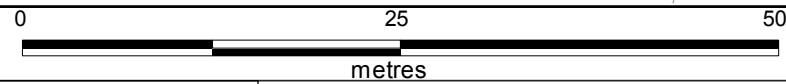
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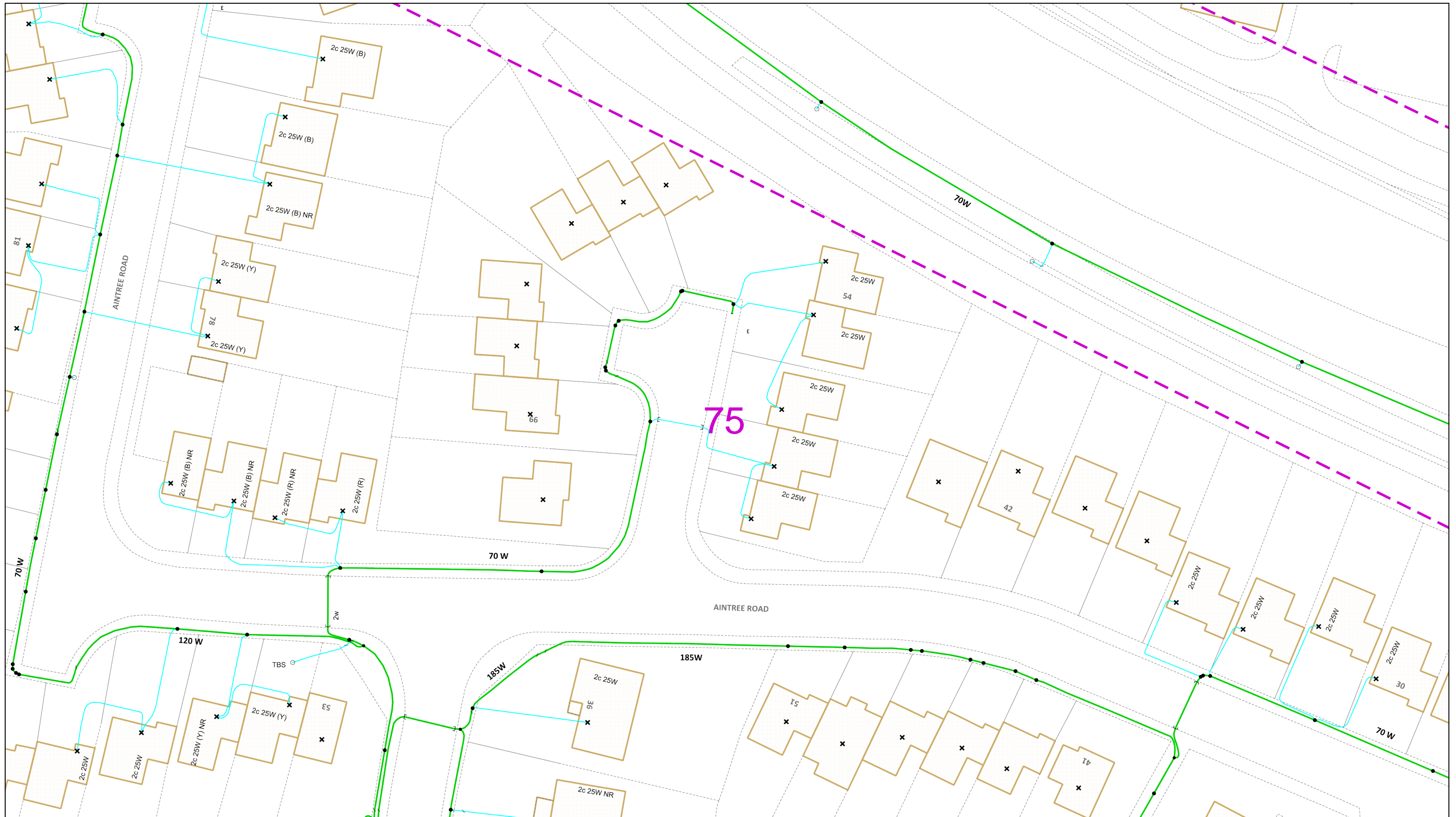
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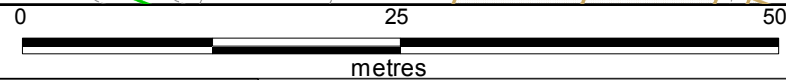
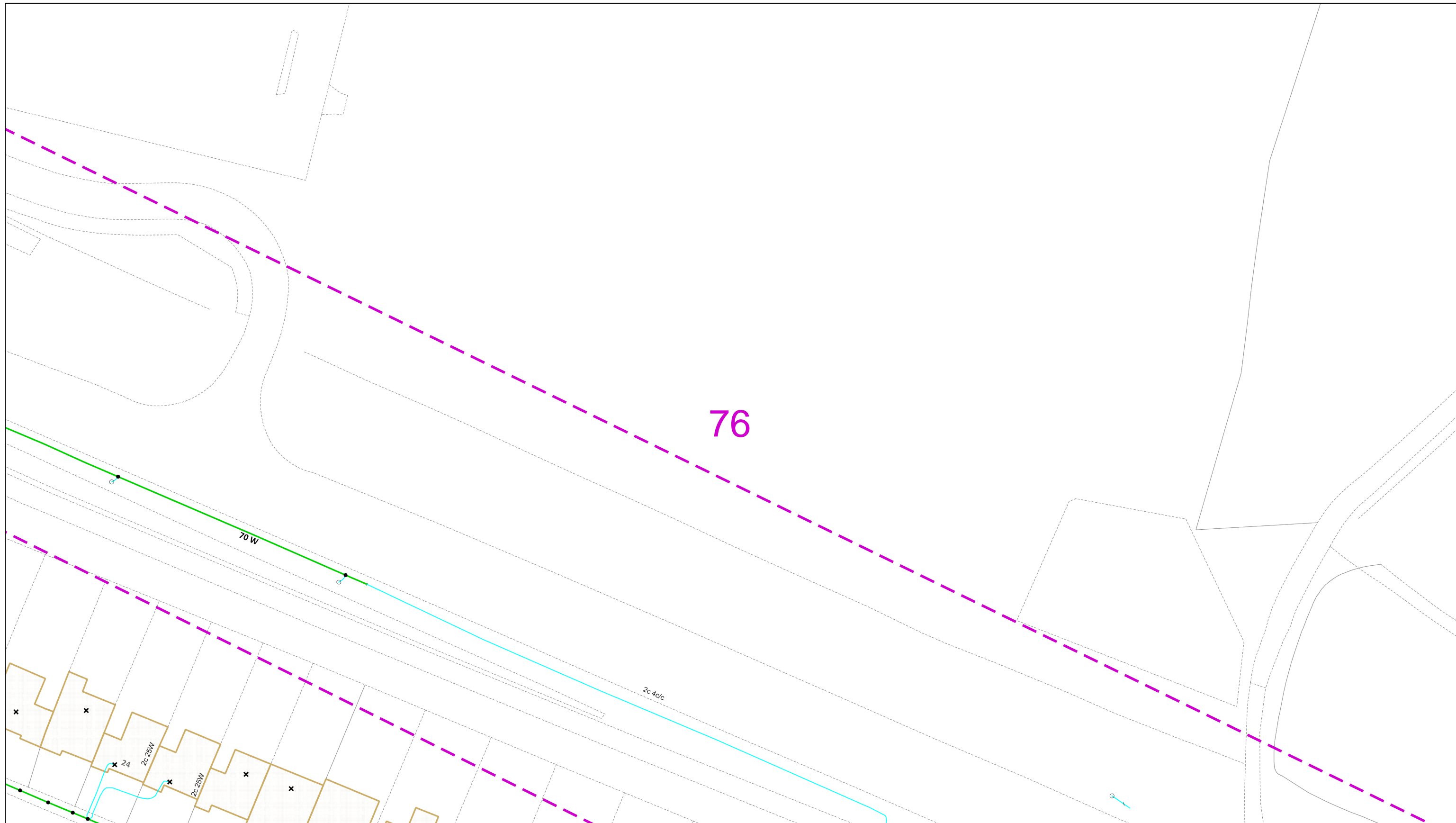
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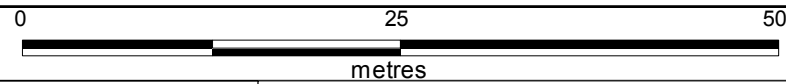
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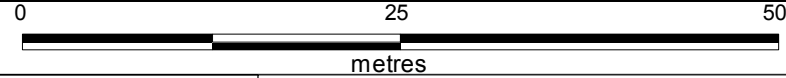
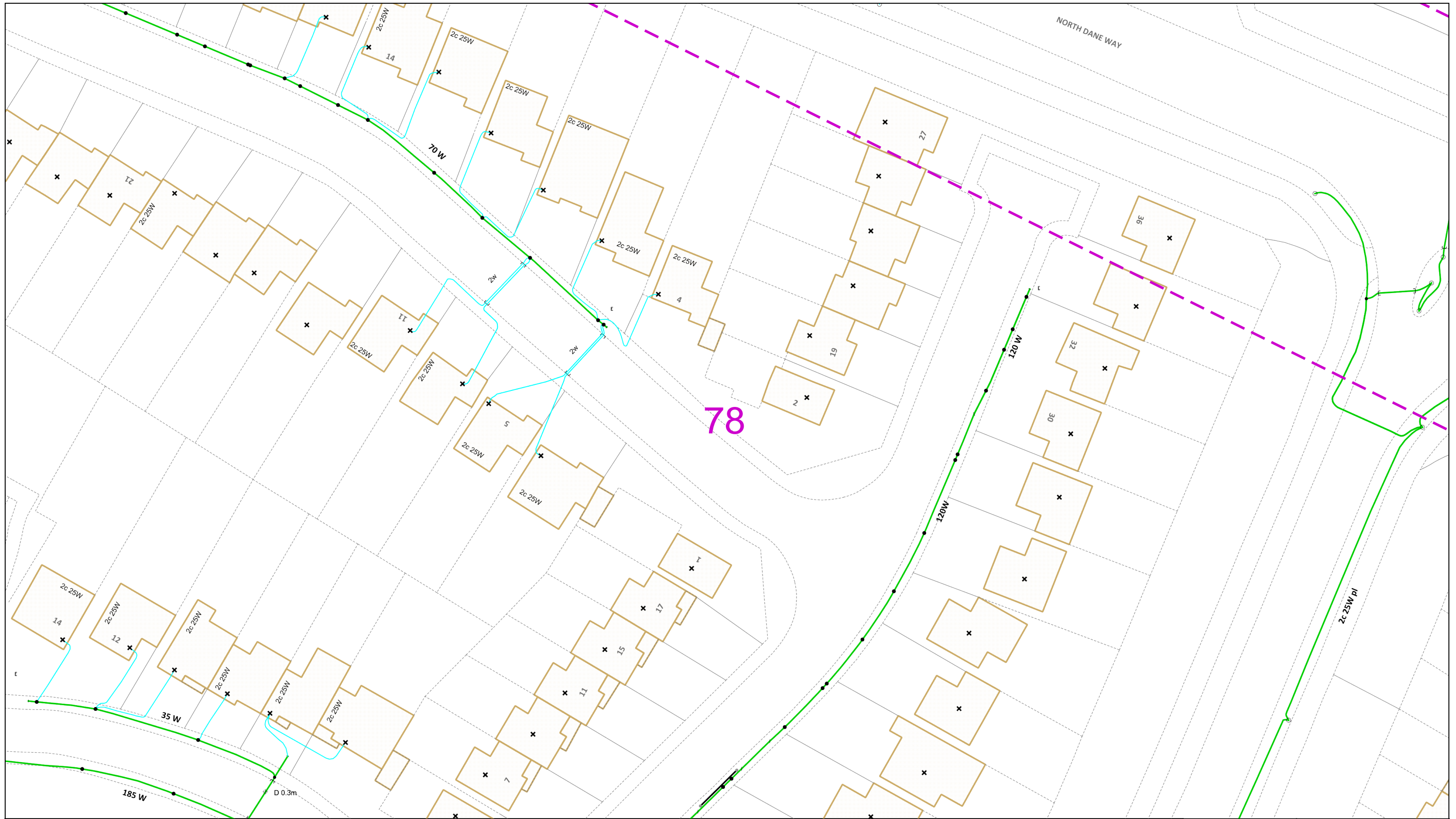
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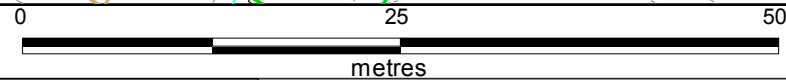
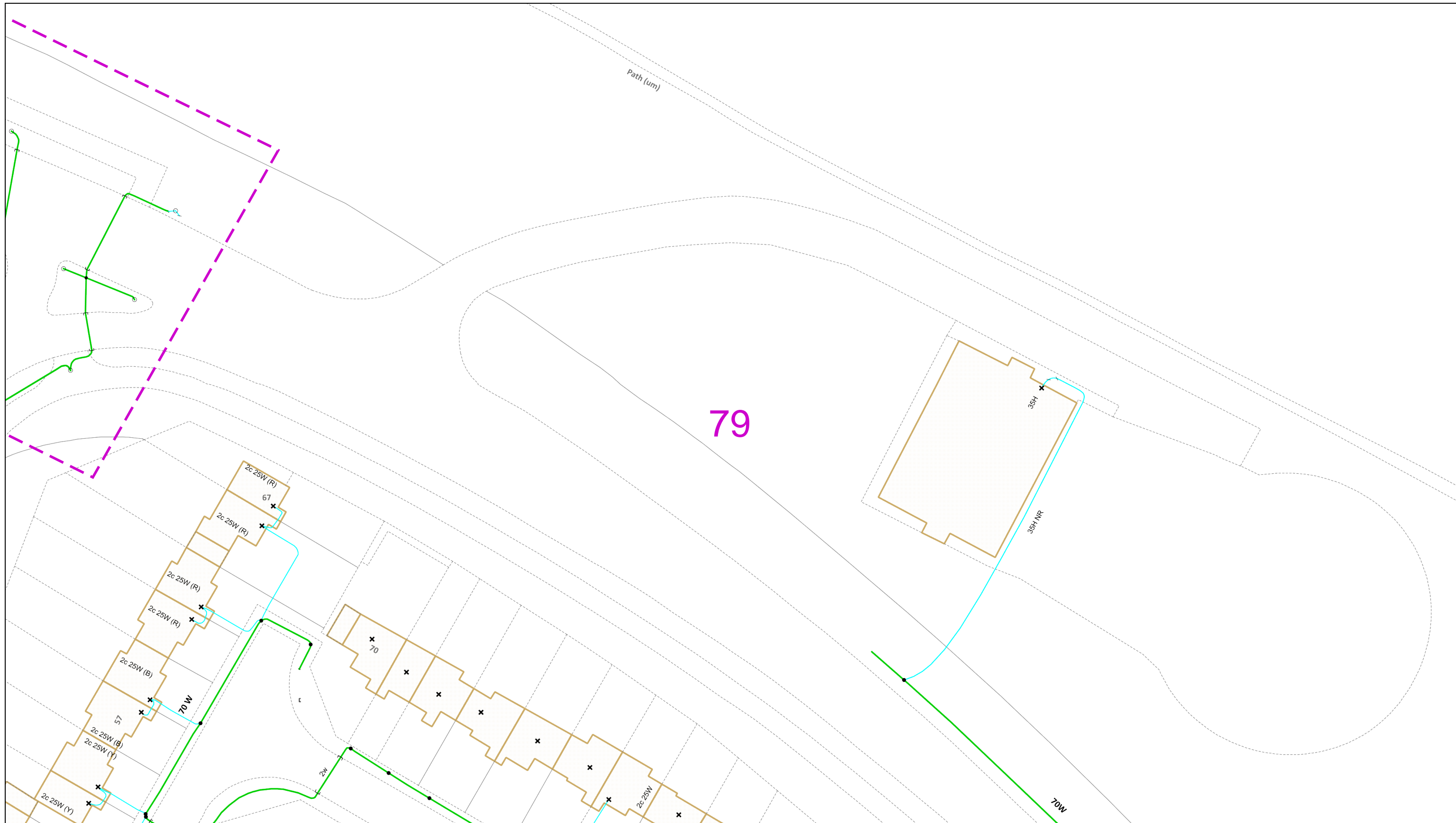
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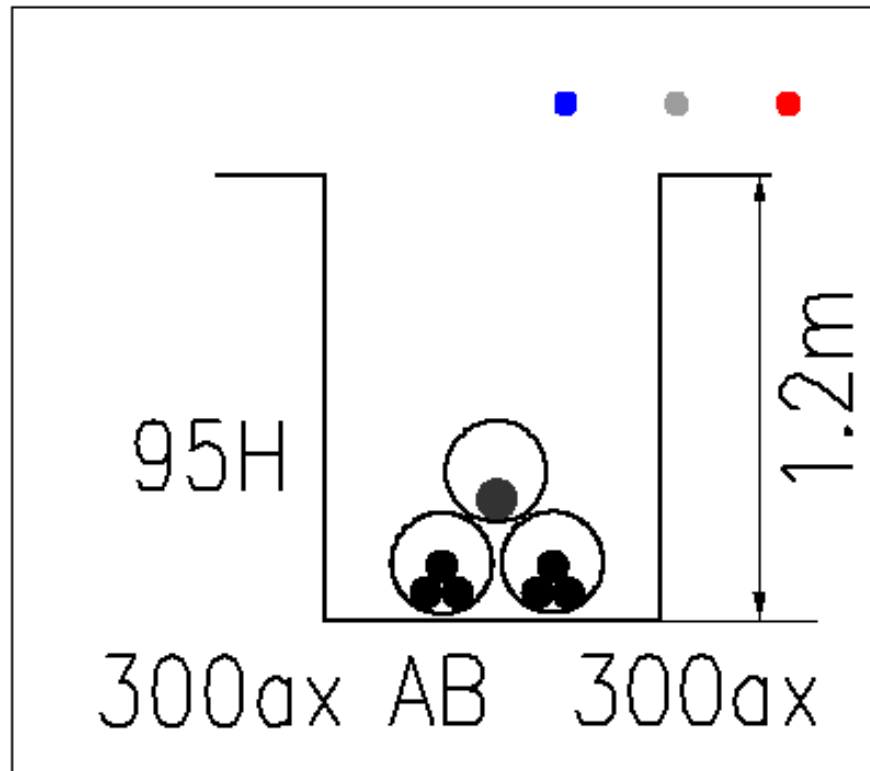
IF IN DOUBT - ASK!
 PHONE 0800 056 5866
 EMERGENCY - If you damage a cable or line Phone 0800 783 8838 (24hrs) URGENTLY



ALWAYS LOOK UP BEFORE YOU START WORK Refer to HSE Guidance note GS6

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Cross Section : 2009597

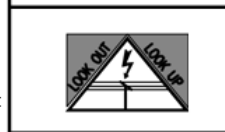


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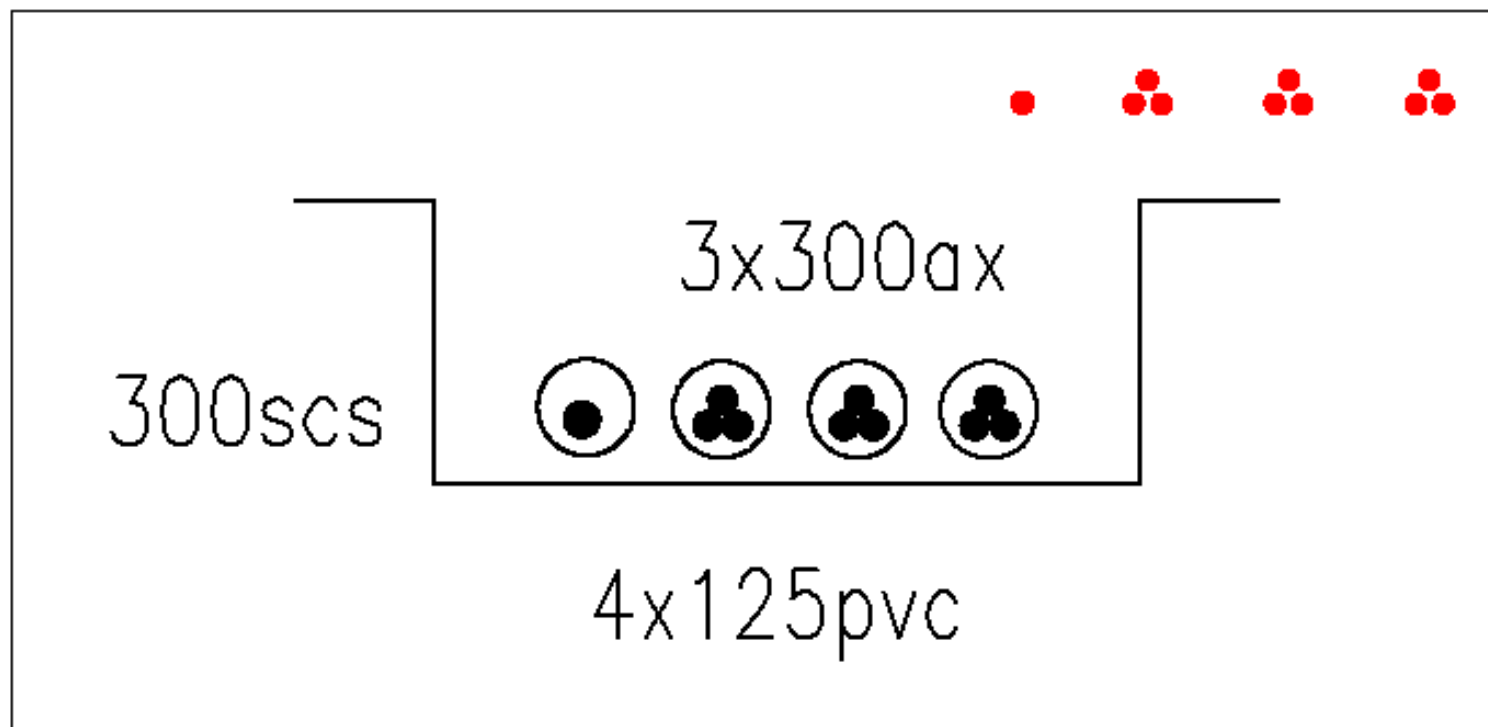
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Cross Section : 2065443

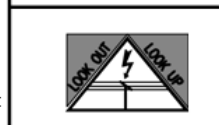


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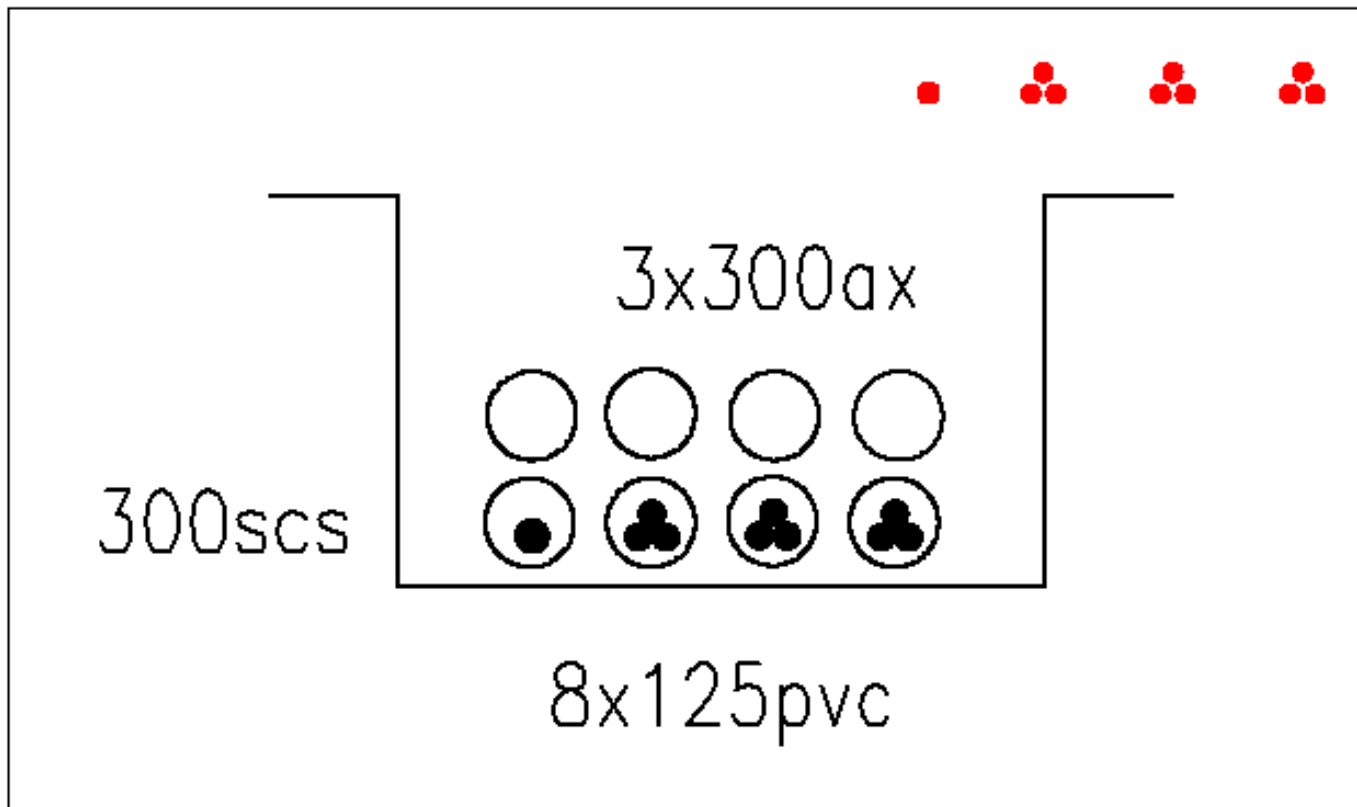
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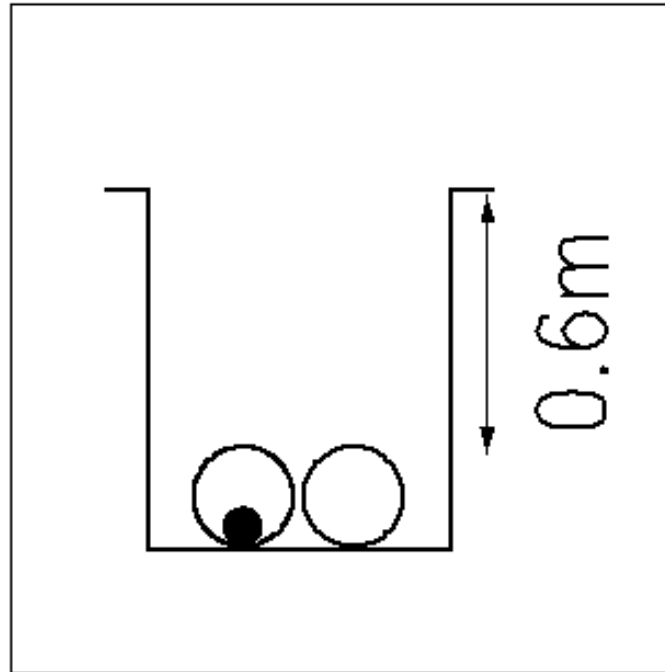
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Cross Section : B



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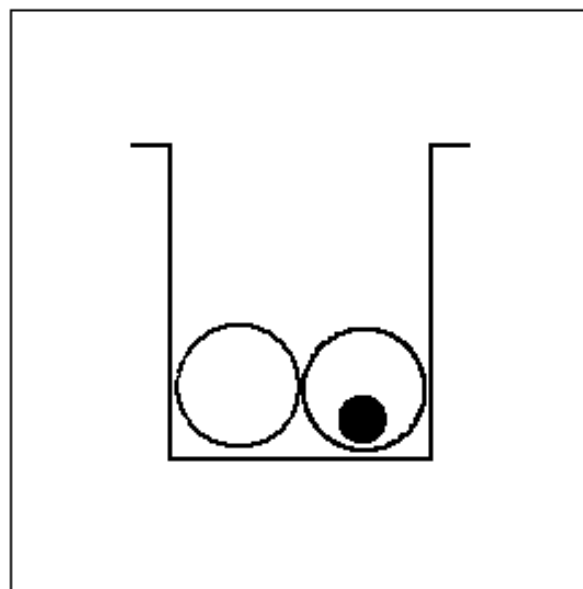
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Cross Section : J



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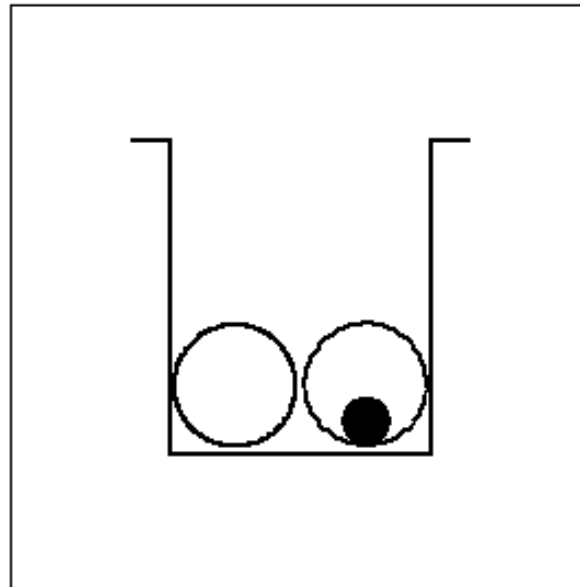
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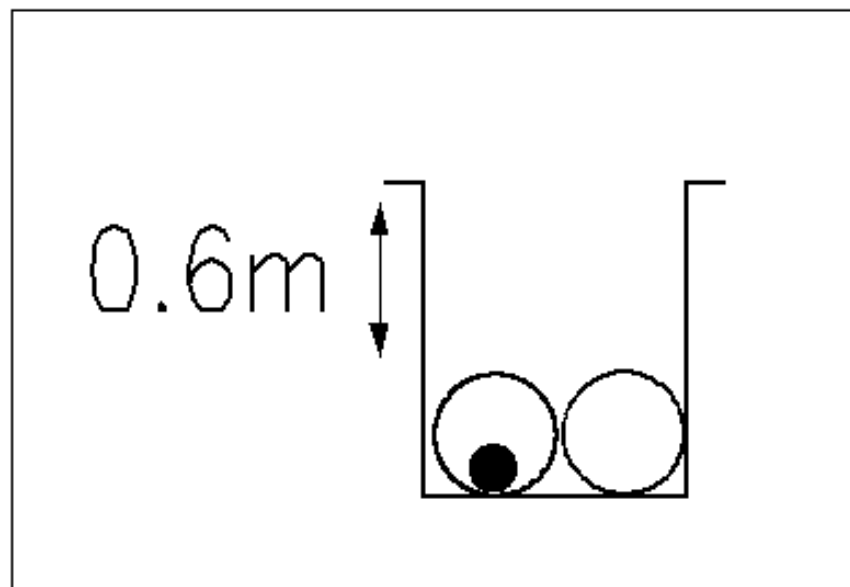
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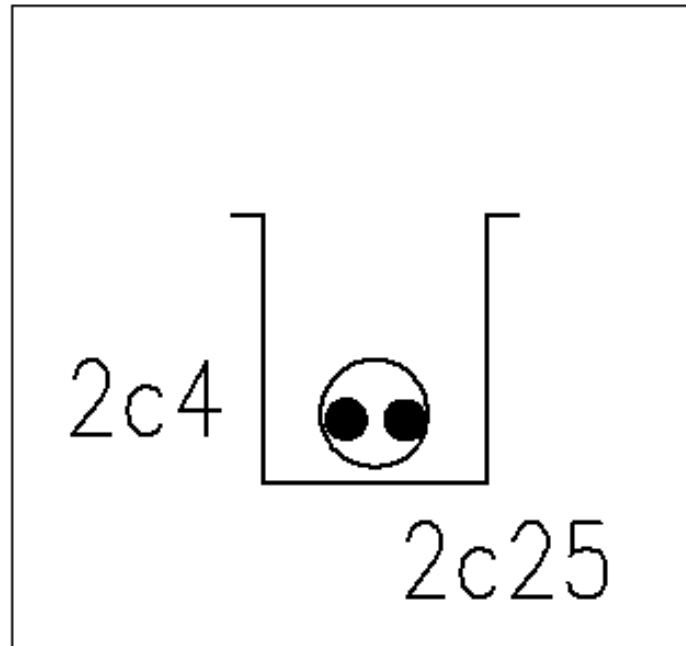
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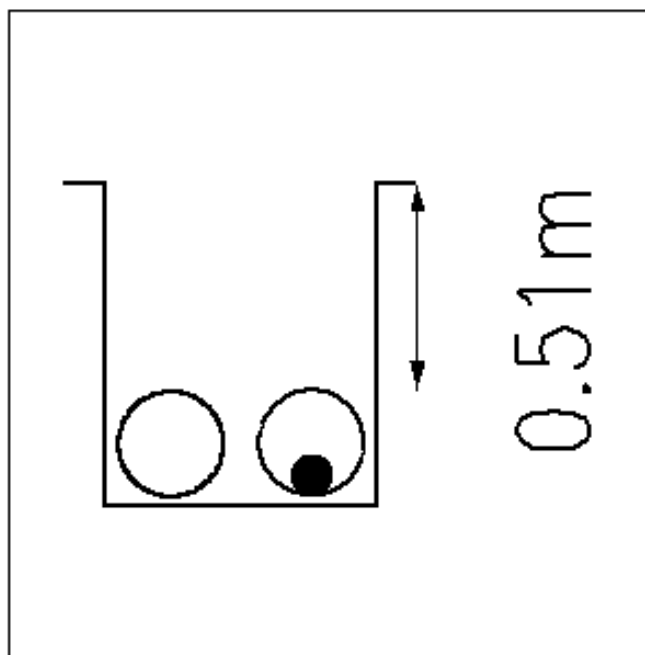
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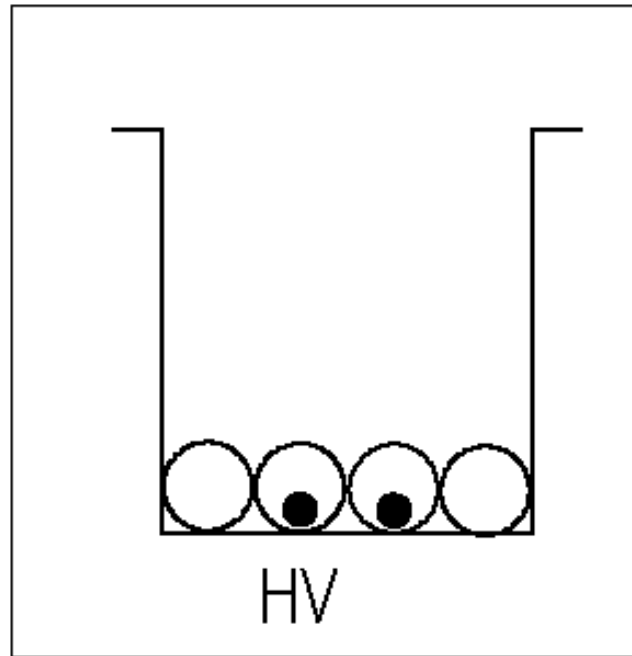
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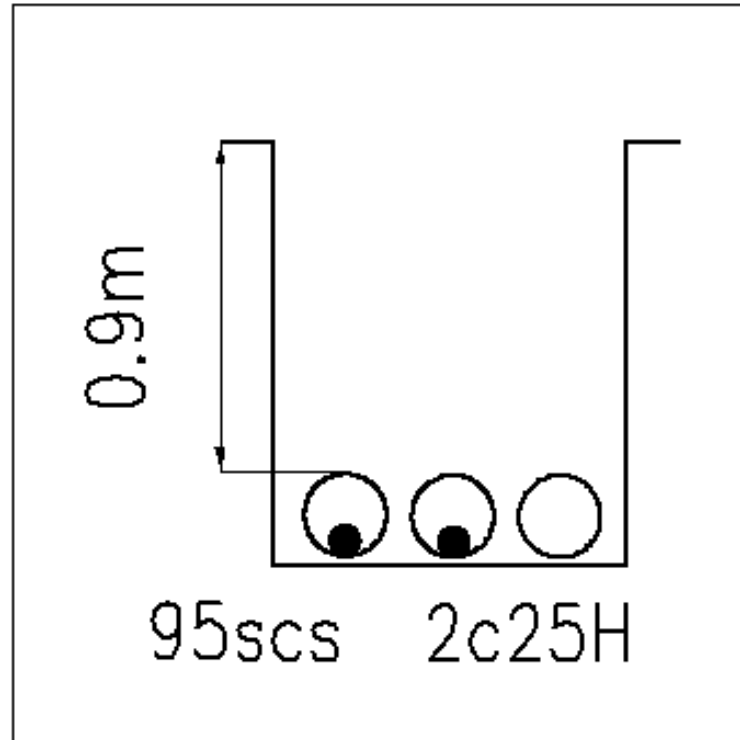
Cross Section : E



Cross Section E

| | | | |
|--|--|---|---|
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Cross Section : B



Cross Section B

1. The position of the apparatus shown on this drawing is believed to be correct but the original landmarks may have been altered since the apparatus was installed.
 2. The exact position of the apparatus should be verified - use approved cable avoidance tools prior to excavation using suitable hand tools.
 3. If it is essential that trial holes are carefully made avoiding the use of mechanical tools or picks until the exact location of all the cables have been determined.
 4. It must be assumed that there is a service cable into each property, lamp column and street sign, etc.
 5. All cables must be treated as being live unless proved otherwise by UK Power Networks.
 6. The information proved must be given to all people working near UK Power Networks plant and equipment. Do not use plans more than 3 months after the issue date for excavation purposes.
 7. Please be aware that electric cables/lines belonging to other owners of licensed electricity distribution systems may be present and it is your responsibility to identify their location.

1. UK Power Networks does not warrant that the information provided to you is correct. You rely upon it at your own risk.
 2. UK Power Networks does not exclude or limit its liability if it causes the death of any persons or causes personal injury to a person.
 3. Subject to paragraph 2 UK Power Networks has no liability to you in contract, in tort (including negligence), for breach of statutory duty or otherwise for any loss, damage, cost, claims, demands, or expenses that you or any third party may suffer or incur as a result of using the information provided whether for physical damage to property or for any economic loss (including without limitation loss of profit, loss of opportunity, loss of savings, loss of goodwill, loss of business, loss of use) or any special or consequential loss or damage whatsoever.
 4. This plan has been provided to you on the basis of the terms of use set out in the covering letter that accompanies this plan. If you do not accept and/or do not understand the terms of use set out in the covering letter you must not use the plan and must return it to the sender of the letter.
 5. You are responsible for the security of the information provided to you. It must not be given, sold or made available upon payment of a fee to a third party.

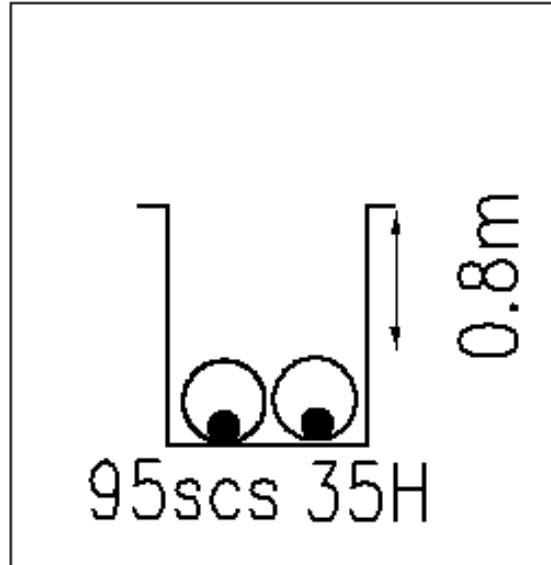
IF IN DOUBT - ASK! PHONE
 0800 056 5866
**EMERGENCY - If you damage
 a cable or line
 Phone 0800 783 8838 (24hrs)
 URGENTLY**



**ALWAYS LOOK UP BEFORE
 YOU START WORK**
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Maps produced at 1:2500 scale are Geo-Schematics which show LV mains cables and overhead lines (in some cases all voltages). Prior to carrying out excavations you must refer to the 1:500 records to determine the location of all known underground plant and equipment.

Cross Section : D



Cross Section D

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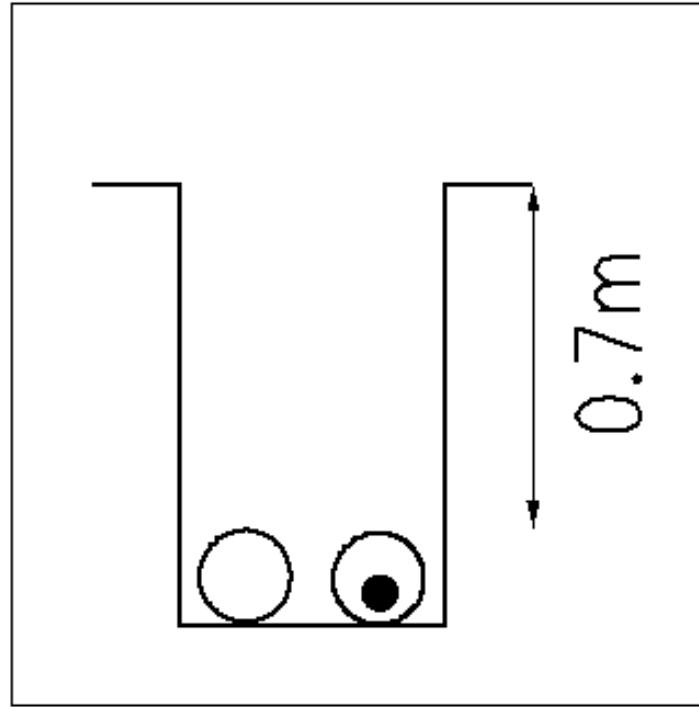
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Cross Section : A



Cross Section A

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Network Records NetMAP Symbols Booklet - South East England

Version 1.2

Released October 2010

Always check with your local Network Records office or the UK Power Networks server to ensure that you are using the most up to date copy of this booklet - Tel: 08000 565866

(i)

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| 2 | The area covered by this guide. |
| 3 | <u>1:500 (& 1:1250) view</u> |
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| 4 | Scenery (UK Power Networks use only). |
| 7 | Primary distribution line route (EHV). |
| 8 | Secondary distribution cables (HV/LV). |
| 9 | Secondary distribution cable terminology. |
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| 14 | EHV, HV and LV sites. |
| 15 | Joints. |
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| 18 | Connectivity. |
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| 20 | Cable phasing. |
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Guidance notes.

Important notice:

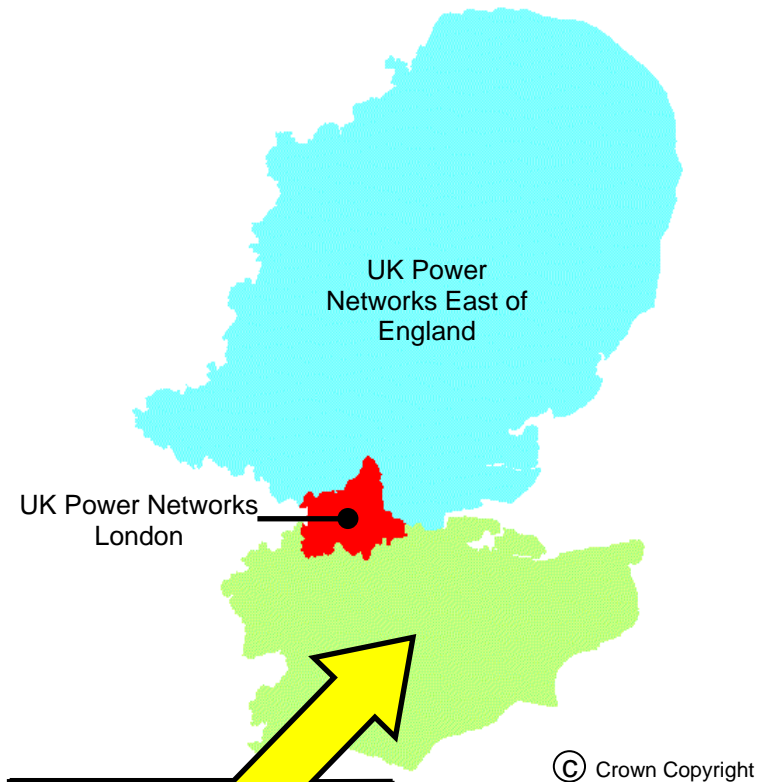
If you do not understand the NetMAP record that you are using, please contact the UK Power Networks Network Records team for guidance on
Tel: 08000 565866.

- The position of apparatus shown on NetMAP is believed to be correct, but the original landmarks may have altered since the apparatus was installed.
- It must be assumed that there is at least one service to each property, lamp column, street sign etc.
- Third party cables are not usually shown.
- When viewed in black and white, the line-style indicates the voltage.
- All LV cables are 4 core and all HV cables are 3 core – unless otherwise stated.
- All cables are copper – unless otherwise stated.



**Plan Provision Team
and CableWatch
Fore Hamlet
Ipswich
Suffolk IP3 8AA
Tel: 08000 565866**

The area covered by this guide:







**UK Power Networks
South East England.**








This is the only area
where this booklet
applies

1:500 (& 1:1250) view

Scenery








| NetMAP system | Description |
|---|--|
|  | Secondary buildings and fence lines |
|  | Building line |
|  | Kerb line |
|  | UK Power Networks / SPN licence boundary (not visible unless selected) |

Scenery for UK Power Networks use only - boxed in red









| NetMAP system | Description |
|--|---|
|  Inset Network – Contact xxxx IDNO for further information | Area of inset network - not the asset of UK Power Networks (only visible to UK Power Networks and their immediate contractors) |
|  | Proposed Cross Rail route (only visible to UK Power Networks and their immediate contractors) |
|  | High pressure pipelines in the general vicinity (only visible to UK Power Networks and their immediate contractors) |
| <p>Note: Pipelines are only viewable on NetMAP by UK Power Networks staff and their immediate contractors. Do not carry out any excavation without consent from the relevant agency - legally protected high pressure petroleum products pipeline route in the general vicinity - consult www.linewatch.co.uk for contacts and guidance. Pipeline contact numbers can also be found on the intranet – out of hours, contact our Control Centre.</p> | |
|  | Water - surface water (only visible to UK Power Networks and their immediate contractors) |
|  | Water - Source Protection Zone 1 (only visible to UK Power Networks and their immediate contractors) |
|  | Water - Source Protection Zone 2 (only visible to UK Power Networks and their immediate contractors) |
|  | Water - Source Protection Zone 3 (only visible to UK Power Networks and their immediate contractors) |

section continued on next page




Scenery for UK Power Networks use only - boxed in red

| NetMAP system | Description |
|---|--|
|  | Historical - Scheduled Monuments (only visible to UK Power Networks and their immediate contractors) |
|  | Historical - Parks and Gardens (only visible to UK Power Networks and their immediate contractors) |
|  | Historical - Areas of Archaeological Potential (AAP) (only visible to UK Power Networks and their immediate contractors) |
|  | Nature - Ramsar Wetlands of International Importance (only visible to UK Power Networks and their immediate contractors) |
|  | Nature - Special Area of Conservation (SAC) (only visible to UK Power Networks and their immediate contractors) |
|  | Nature - Special Protected Area (SPA) (only visible to UK Power Networks and their immediate contractors) |
|  | Nature - Site of Special and Scientific Interest (SSSI) (only visible to UK Power Networks and their immediate contractors) |
| section continued on next page | |














Scenery for UK Power Networks use only - boxed in red

| NetMAP system | Description |
|---|---|
|  | Nature - Local Nature Reserve (only visible to UK Power Networks and their immediate contractors) |
|  | Nature - National Nature Reserve (only visible to UK Power Networks and their immediate contractors) |
|  | Nature - Area of Outstanding Natural Beauty (AONB) (only visible to UK Power Networks and their immediate contractors) |
|  | Nature - National Park (only visible to UK Power Networks and their immediate contractors) |
|  | Fluid filled cables - very high sensitivity (only visible to UK Power Networks and their immediate contractors) |
|  | Fluid filled cables - high sensitivity (only visible to UK Power Networks and their immediate contractors) |
|  | Fluid filled cables - medium sensitivity (only visible to UK Power Networks and their immediate contractors) |
|  | Fluid filled cables - low sensitivity (only visible to UK Power Networks and their immediate contractors) |

Primary distribution line route (1:500 view)

| NetMAP system | Description |
|---|-------------------------------|
|  | 275–400kV National Grid route |
|  | 132kV cable route |
|  | 33kV cable route |
| Approximate routes only – see separate record | |

Secondary distribution cables (1:500 view)

| NetMAP system | Description |
|---|----------------------------|
|  | 11kV underground cable |
|  | 11kV overhead line |
|  | 6.6kV underground cable |
|  | 6.6kV overhead line |
|  | <6.6kV underground cable |
|  | <6.6kV overhead line |
|  | LV underground cable |
|  | LV overhead line |
|  | Pilot cable |
|  | LV street lighting (pl) |
|  | Service overhead line |
|  | Service underground |
|  | Logical service connection |

Secondary distribution cable terminology (1:500 view)

HV underground

| | |
|------------------|--|
| sta (no text) | PILCSTA (paper insulated lead covered steel tape armour) |
| XLPE | PILCSWA (paper insulated lead covered steel wire armour) |
| bcs | XLPE (cross linked polyethylene) insulation |
| scs | CAS (corrugated aluminium sheath) belted construction |
| ua | CAS (corrugated aluminium sheath) with screened cores |
| c/c | PILC (paper insulated lead covered) unarmoured |
| Poly | Concentric cores |
| BOTES | Poly (polyethylene) insulation |
| of | BOTES – Board of Trade earth screen |
| 33 kV design | Oil filled |
| ax | Constructed to 33 kV specification |
| cx | Triplex with aluminium conductor |
| | Triplex with copper conductor |

HV overhead

| | |
|-----------|---|
| (no text) | Bare open wire |
| pvc | Open wire PVC covered |
| cat | ABC (aerial bundled or bunched conductor) with supporting strain wire |
| +ew | Open wire with extra earth conductor |
| ccc | Compact covered conductor |

Overhead line materials

| | |
|-----|-----------------------|
| sca | Steel cored aluminium |
| cc | Cadmium copper |
| st | Steel |
| sil | Simalec |
| ccs | Copper covered steel |
| cpl | Compactal |

section continued on next page

Secondary distribution cable terminology continued (1:500 view)

LV underground mains and services

| | |
|-----------|---|
| W | Waveform |
| We | Waveform with separate earth wire |
| H | Hybrid – copper neutral with aluminium phase conductor |
| He | Hybrid with separate earth wire |
| ua | PILC (paper insulated lead covered) unarmoured |
| (no text) | PILC (paper insulated lead covered) with/without armour |
| XLPE | XLPE (cross linked polyethylene) insulation |
| DISTR1 | PISTA (paper insulated steel tape armour) 4c SAC (solid aluminium core) with lead covered neutral |
| c/c | Concentric cores |
| s/c | Split concentric with separated neutral and earth wires |
| CONSAC | Paper insulated aluminium sheathed 3 core with solid aluminium cores |
| vb | Vulcanised bitumen/rubber insulation |
| Capothene | Capothene core insulation |
| tby | Tape braid and yarn |
| swa | PILSWA (paper insulated lead steel wire armour) |
| sac | PILSTA (paper insulated steel tape armour) solid aluminium core |
| Solidal | 4 sector SAC with solid aluminium cores |
| LSF | Low smoke and fume (orange cable) |
| Trough | Cable laid in filled trough |

LV overhead mains and services

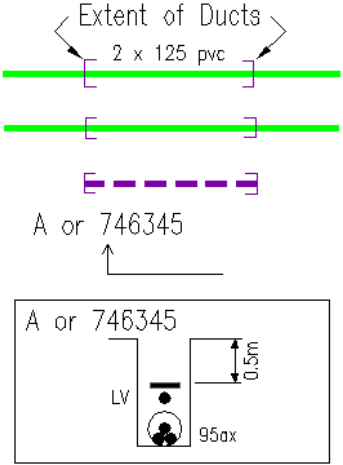
| | |
|-----------|---|
| (no text) | Bare open wire |
| ABC | Aerial bundled (or bunched) conductor |
| cat | ABC (aerial bundled or bunched conductor) with supporting strain wire |
| pvc | PVC covered open wire |
| c/c | Concentric cores |
| H | Hybrid – copper neutral with aluminium phase conductor |
| ue | Under eaves – hessian covered lead cable |
| vir | Vulcanised India rubber insulation |

section continued on next page

Secondary distribution cable terminology continued
(1:500 view)

| Various annotation | |
|--------------------|--|
| .1 | Cable size (sq. inches) |
| 185 | Cable size (sq. millimetres) |
| a | Aluminium |
| ITC | Instrument traced cable or ITC - cable traced electronically using Cable Avoidance Tool (CAT) or similar |

Cable ducts (1:500 view)

| NetMAP system | Description |
|---|---|
|  <p>Extent of Ducts 2 x 125 pvc</p> <p>A or 746345</p> <p>A or 746345 LV 0.5m 95ax</p> | <p>Duct 2 way</p> <p>Duct 1 way (no text)</p> <p>Spare duct</p> <p>Cross section arrow</p> <p>Cross section showing: duct, tile depth, tile, single LV cable and HV Triplex cable</p> |

Duct materials

| | |
|---|---|
| (no text) pvc st asb fbr wi cp t/e | <p>Earthenware</p> <p>PVC</p> <p>Steel</p> <p>Asbestos</p> <p>Fibre</p> <p>Iron</p> <p>Concrete pipe</p> <p>Trenchless excavation</p> |
|---|---|