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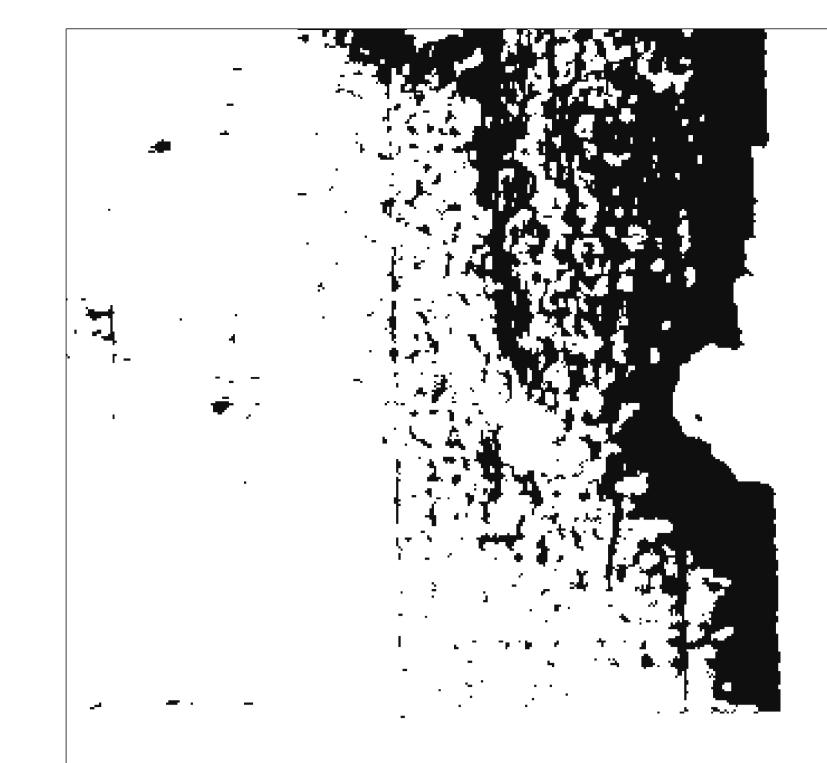
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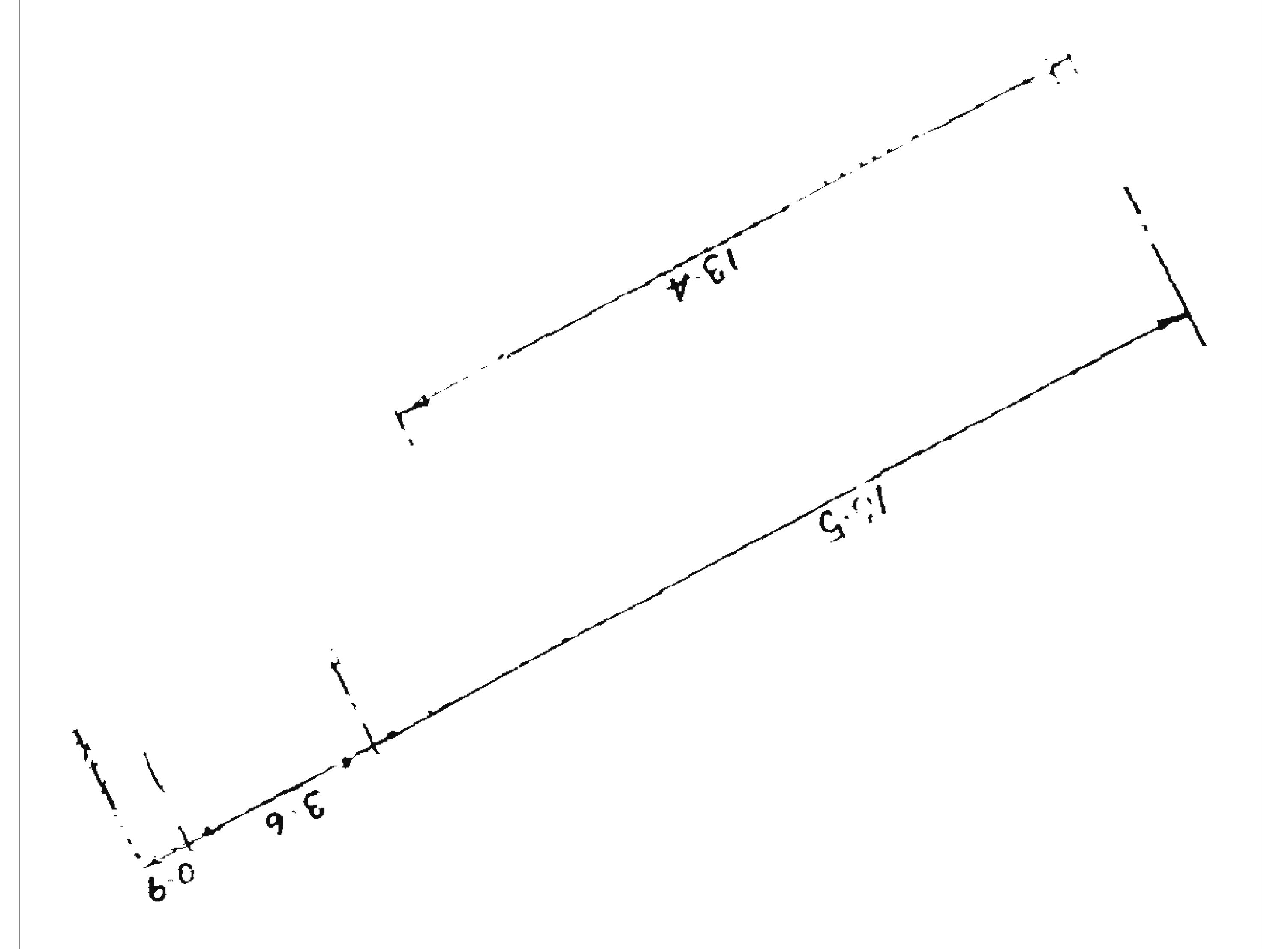
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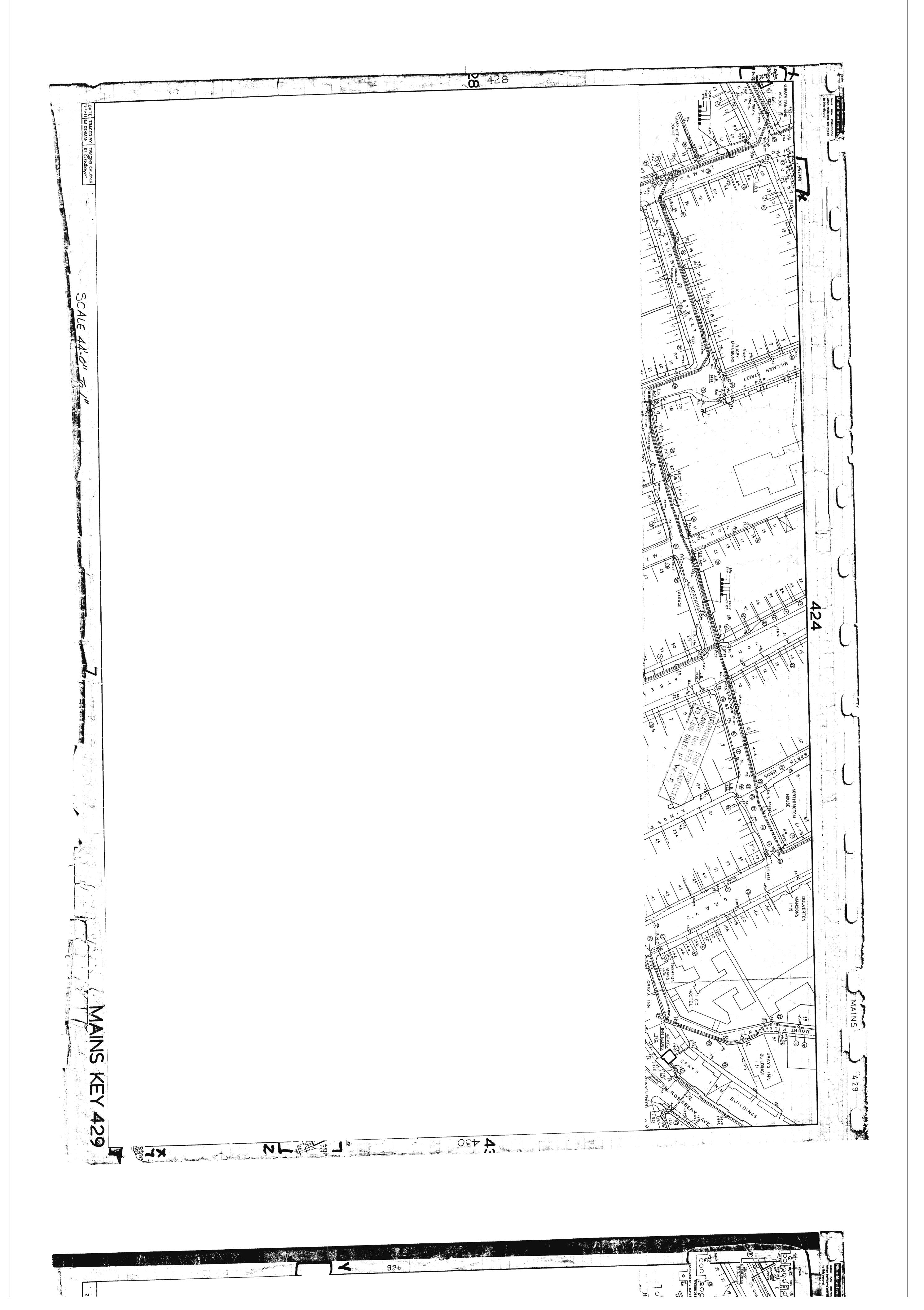
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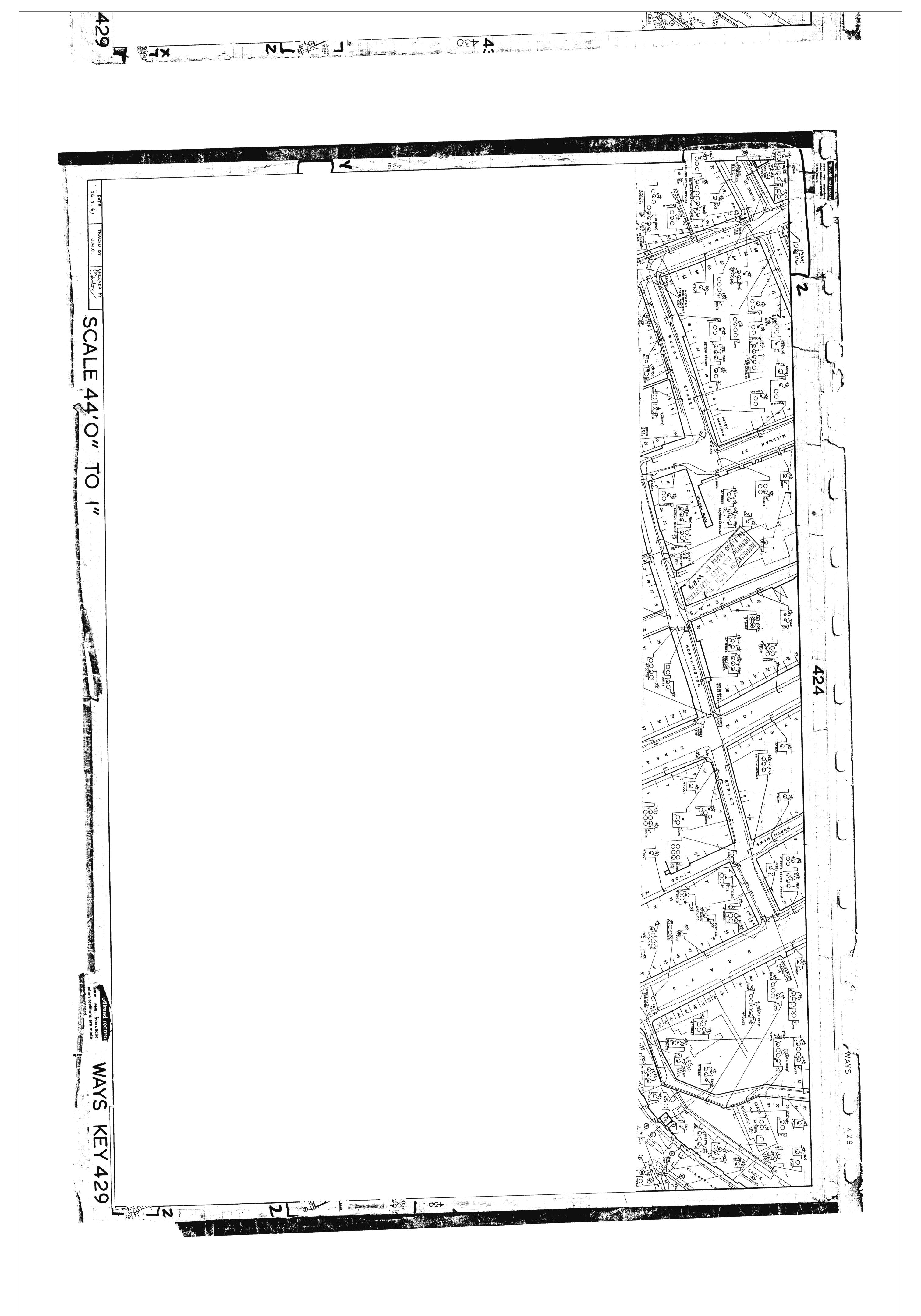
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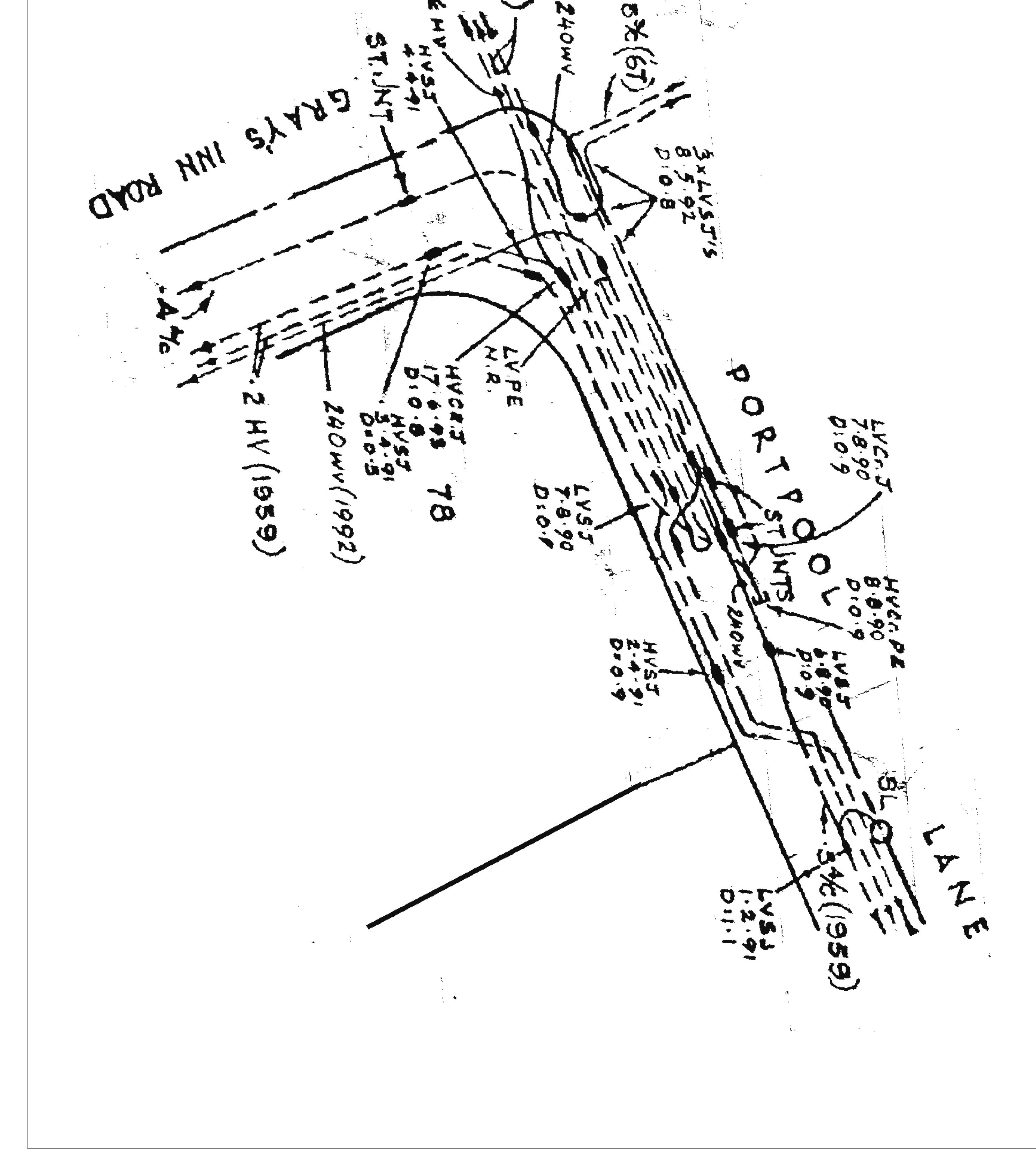






. 446 (1959) 240m 446 (1959) 240m 2405% HV

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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				symbols may be found.	guide only - some local variations of these	Inis symbol booklet is intended as a general						BOOKIET - LONGON						NELWORK RECORDS							INCLIMUINS	Notworks				
30 Reg				24 Regi		Ex-7		Fins	The	Ex-V	All a		_		17 Symbols	15 Services.				9 Cable ter				3 Scenery.	2 The area	1 Guidance notes	Page no:	J		
Region 5: ex Southern area.	Region 4: ex-South Eastern area	eation 3: ex-North eastern area.	Region 2: ex-Northern area.	Region 1: ex-Western area.	Regional NetMAP anomalies - general overview.	Ex-North Eastern area: composite raster style 2.	Ex-North Eastern area: multi-single line style 2.	Finsbury and Shoreditch: multi-single line style 1.	The City of London: single line.	Ex-Western area and Holborn: main and ways.	All areas: composite raster style 1.	All areas: NetMAP/vector.	Tvnical nlan and cross section representations:	Abbreviations used in cross sections.	Symbols used in cross sections.		Other NetMAP symbols.	icts.	Cable size abbreviations.	Cable terminology.	Secondary distribution cables (LV/HV).	Primary distribution cables (EHV).	Scenery (UK Power Networks use only-boxed red)		The area covered by this guide.	e notes.	Contents:	•	Index:-	

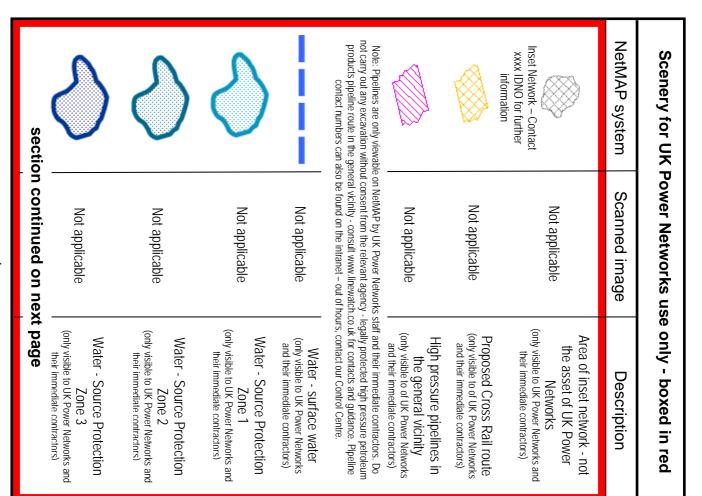
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UK Power Networks Vetworks Power Pow	All LV cables are assumed to be 4 core, and all HV cables assumed to be 3 core – unless otherwise stated. All Imperial cable sizes are assumed to be copper and all metric cable sizes are assumed to be aluminium – unless otherwise stated.	workage (LTTV) capies, former details must be obtained before commencement of work. Third party cables are not usually shown. When two or more maps are supplied for the same area, the maps must be read in conjunction with each other and with this symbol booklet.	It must be assumed that there is at least one service to each property, lamp column, street sign etc. A separate record may be available. When excavations are to be carried out near Extra High Voltage (EHV) cables further details must be obtained	The position of apparatus shown on NetMAP is believed to be correct, but the original landmarks may have altered since the apparatus was installed	Important notice: If you do not understand the NetMAP record that you are using, please contact UK Power Networks Network Records for guidance Tel: 08000 565866.	<u>Guidance notes.</u>
more significant anomalies within the London area.		UK Power Networks South East England		UK Power Networks London. This is the only area where this document applies England		The area covered by this guide:

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	Scenery	
NetMAP system	Scanned image	Description
		100 metre Ordnance Survey grid line (on 0/S based maps only) Property fence line
		Building line Kerb line Kerb line on majority of
		Kerb line on majority of ways & mains maps Cable tunnel or subway
NOT APPLICABLE		Borough or City boundary and UK Power Networks boundary
	¶ ↔ ↔ ↔	UK Power Networks or Electrical boundary



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Scenery for UK P	ower Networks us	Scenery for UK Power Networks use only - boxed in red	Scenery for UK	Power Networks us	Scenery for UK Power Networks use only - boxed in red
NetMAP system	Scanned image	Description	NetMAP system	Scanned image	Description
\diamond	Not applicable	Historical - Scheduled Monuments (only visible to UK Power Networks and their immediate contractors)	\Diamond	Not applicable	Nature - Local Nature Reserve (only visible to UK Power Networks and their immediate contractors)
\Diamond	Not applicable	Historical - Parks and Gardens (only visible to UK Power Networks and their immediate contractors)	\Diamond	Not applicable	Nature - National Nature Reserve (only visible to UK Power Networks and their immediate contractors)
\diamond	Not applicable	Historical - Areas of Archaeological Potential (AAP) (only visible to UK Power Networks and their Immediate contractors)	\Diamond	Not applicable	Nature - Area of Outstanding Natural Beauty (AONB) (only visible to UK Power Networks and their immediate contractors)
\diamond	Not applicable	Nature - Ramsar Wetlands of International Importance (only visible to UK Power Networks and their immediate contractors)	\Diamond	Not applicable	Nature - National Park (only visible to UK Power Networks and their immediate contractors)
\Diamond	Not applicable	Nature - Special Area of Conservation (SAC) (only visible to UK Power Networks and their immediate contractors)		Not applicable	Fluid filled cables - very high sensitivity (only visible to UK Power Networks and their immediate contractors)
\mathcal{O}	Not applicable	Nature - Special Protected Area (SPA) (only visible UK Power Networks and		Not applicable	Fluid Tilled Cables - Nigh Sensitivity (only visible to UK Power Networks and their immediate contractors)
) (their immediate contractors)		Not applicable	riuld lilled cables - filedium sensitivity (only visible to UK Power Networks
\Diamond	Not applicable	Nature - Site of Special and Scientific Interest (SSSI) (only visible to UK Power Networks and their immediate contractors)		Not applicable	(only visible to UK Power Networks and their immediate contractors) Fluid filled cables - Iow sensitivity
sect	section continued on next page	xt page			(only visible to UK Power Networks and their immediate contractors)

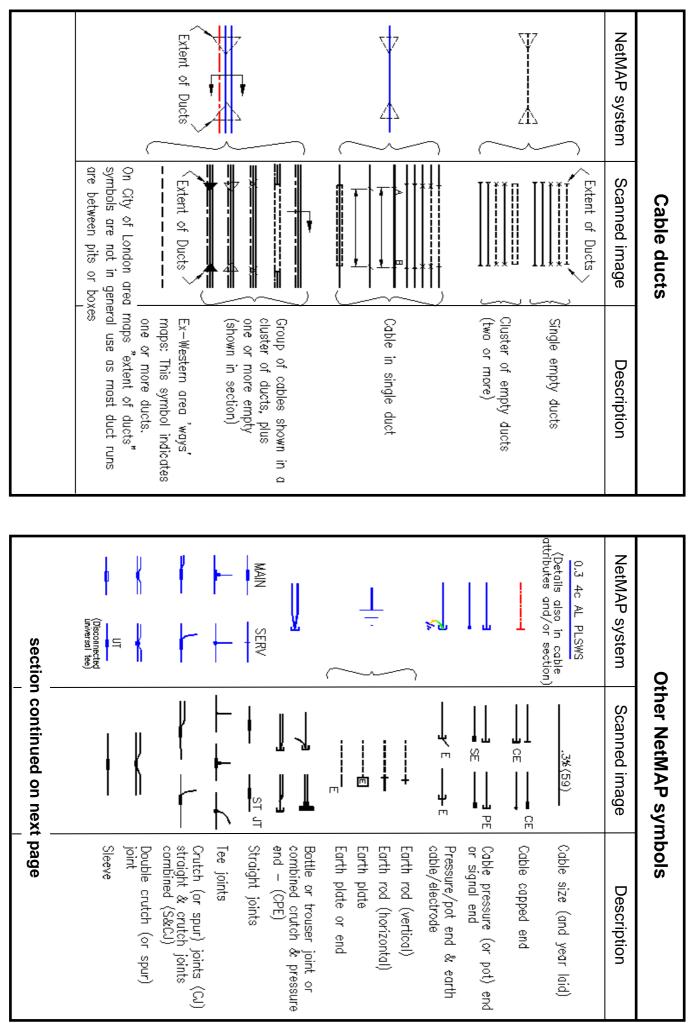
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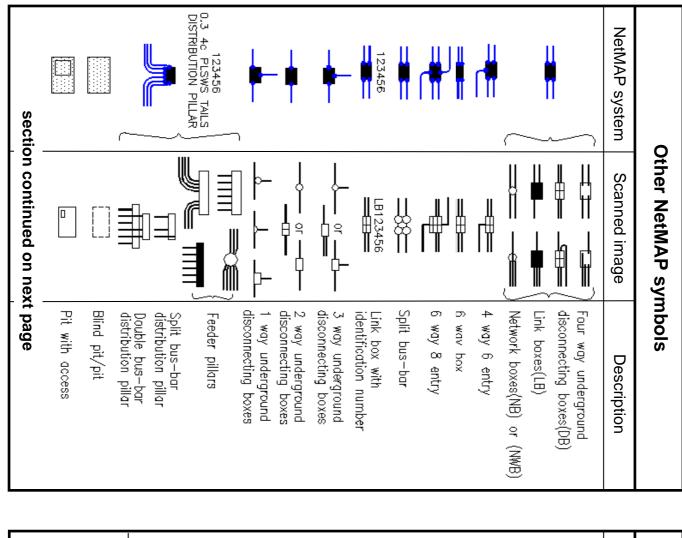
	- G - G Shallow	∎ G	EHV GABLE	NetMAP system	Prir
Γ	5-55-5-5	Not applicable	EHV Cable Rade 259	Scanned image	Primary distribution cables
	cable route where cover is less than normal	Oil/gas cable stop Part of UK Power Networks	UK Power Networks route (11,000 , 722,000 to 132,000 volts)	Description	cables
			ļ	Ne	

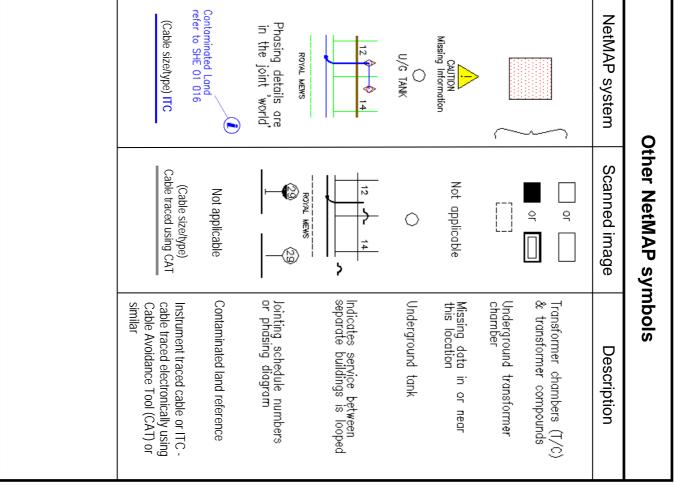
Seco	Secondary distribution cables	on cables
NetMAP system	Scanned image	Description
(20kV) (11kV) (6.6kV)	$\frac{.3}{-}\frac{(AL)^{3/c}}{.3} \left(\frac{(AL)^{3/c}}{(AL)^{3/c}} \right)$	HV cable (up to 20kV)
	185 * k	3 phase LV cable (230V or 400/230V) 1 or 2 phase LV cable (230V or 400/230V)
	Not applicable	Pilot ar Telephone cable, aften not shown in plan if running with other cables Fibre—optic cable
		Earth cable
		HV or LV cable in duct Duct route(s) not containing live cables

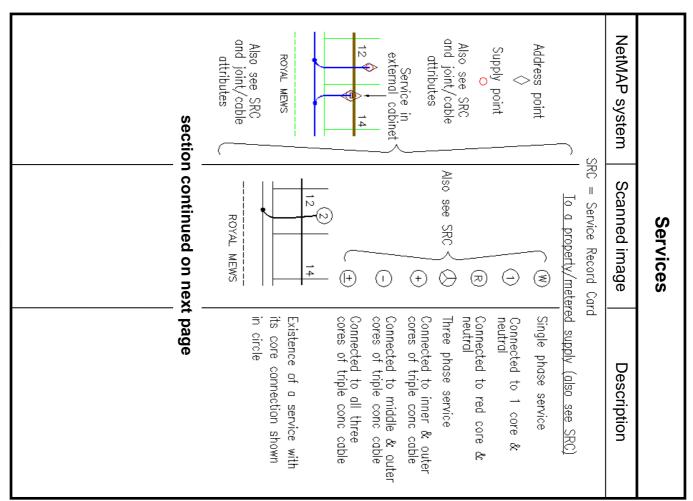
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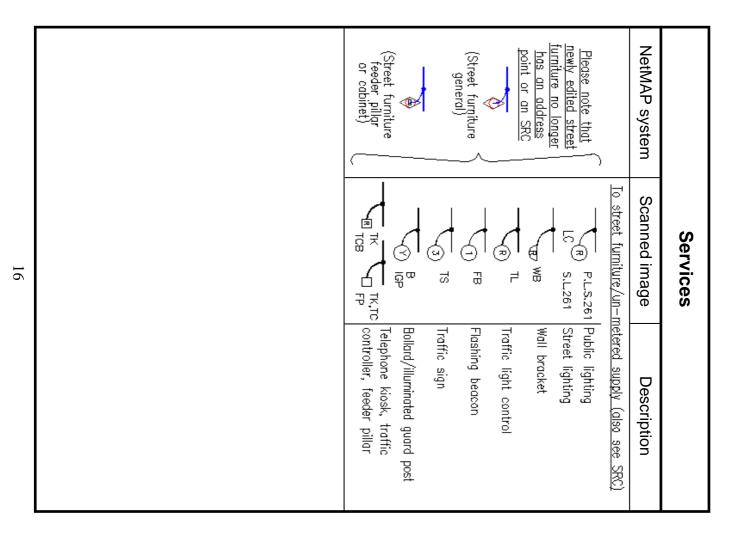
	Cable terminology	У₿с
NetMAP system	Scanned image	Description
PL PLS	PL PLS	Paper Lead Paper Lead Served
PLST or PLSW PLSTS	PLA PLTS	Paper Lead Armoured Paper Lead Steel Tape Served
PLSTS PISWS	PLDT PLWS	Lead Double Tap Lead Steel Wire
PLSW		Lead Brigh
PLS or PISW	IC & H	Lead Covered & Hessian
PLSW	LC & BA	Lead Covered & Briaht Armoured
PLST	OSTA	Double steel tape armoured Steel Tane Armoured
PLSW	SWA	Steel Wire Armoured
Cu	22	Copper
	C N	Waveconal
PVC	PVC	Polyvinyl Chloride
EPR XLPE	XLPE XLPE	Ethylene Propylene Rubber Cross Linked Polvethylene
SOL	Solidal	Solid Aluminium
Ϋ́	TRIPLEX TRIPLEX	Triplex (aluminium) Triplex (copper)







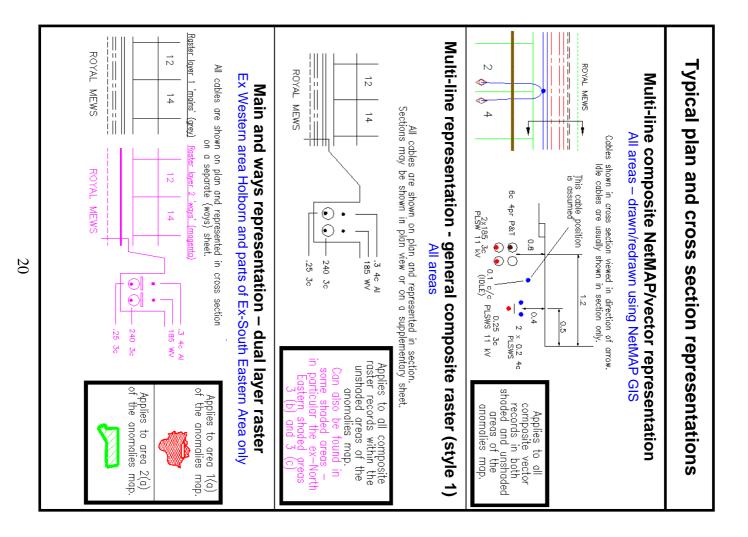


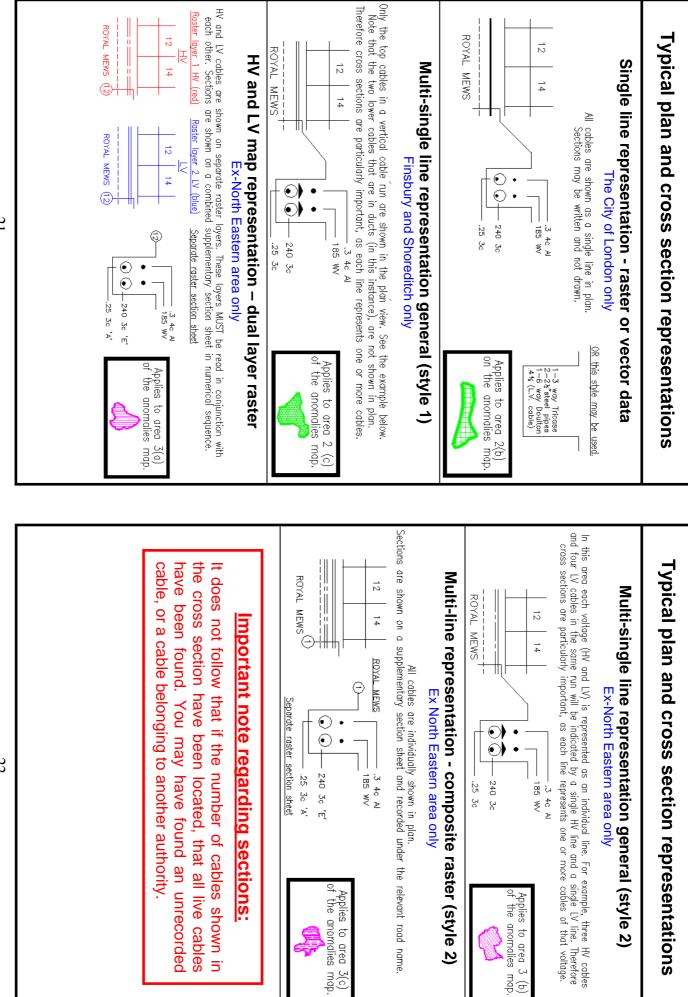


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	-	
Bitumen casing (Tri-case)	80	8
Bitumen filled iron trough (Trunks)	0 0 0	\sim
Bitumen casing (Crompton)	8	4
Cable trough		
Group of square ducts (Doulton)		
Group of circular ducts (Sykes)	88	83
Group of circular ducts	88	88
Square cable duct		
Single steel pipe	0	○ 21ª S
Single earthenware duct	0 ©	0
Blocked duct (sometimes used for unidentified cables)	© ⊗	8
Cable laid in duct	۲	۲
Cable laid direct	•	•
Description	Scanned image	NetMAP system
ss sections	Symbols used in cross	Symb

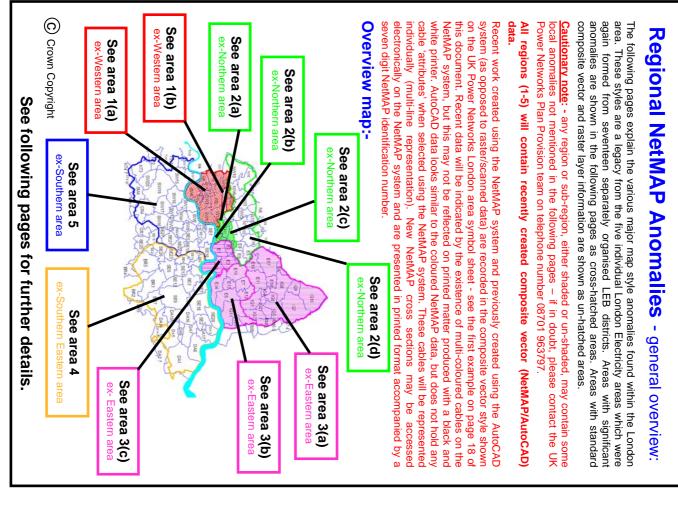
Timber 🖸		I	- ~	•	NetMAP system	Symb
222	— т/т			 > •	Scanned image	Symbols used in cross sections
Timber	Plastic tile tape	Steel plate	Concrete slabs	Protective slab	Description	s sections

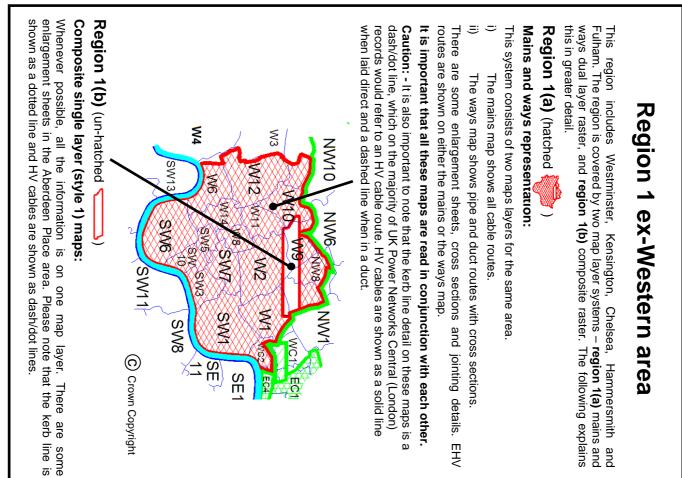
EW F F A A A F F F F F F F F F F F F F	Abbreviations used in cross sections NetMAP system Scanned image Descript
Earthenware ducts Fibre duct Asbestos Plastic or pitch fibre Steel Cast iron Wrought iron pipe Fibre duct Plastic Rigiduct Depth not known No record Everite pipe Tape Tile Date cable laid HV cable destination (See section sheet HV ref)	Description

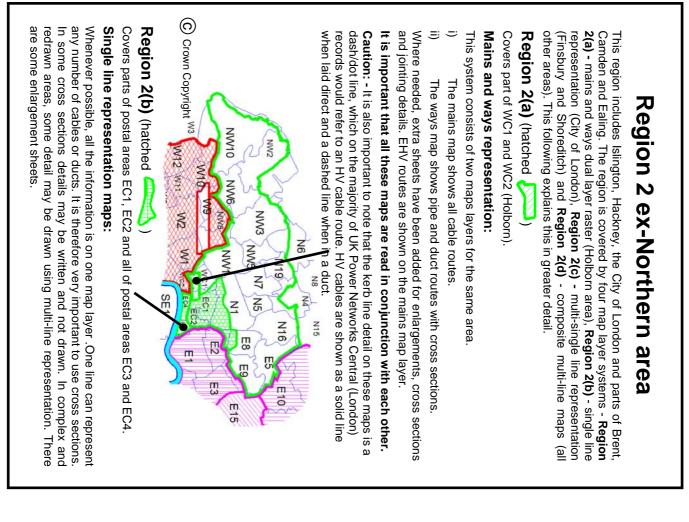


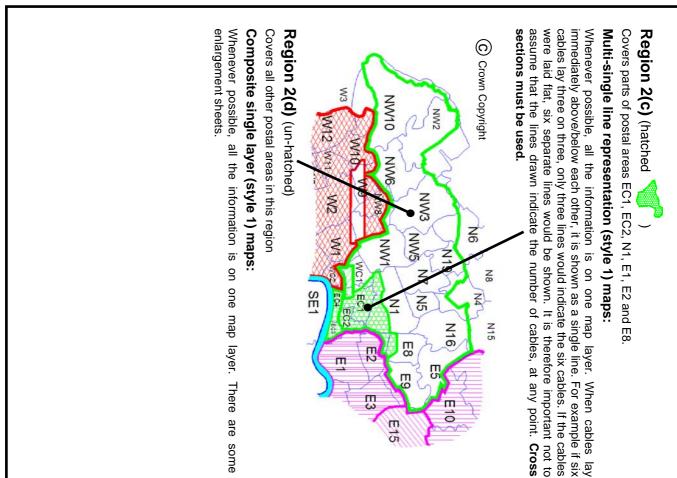


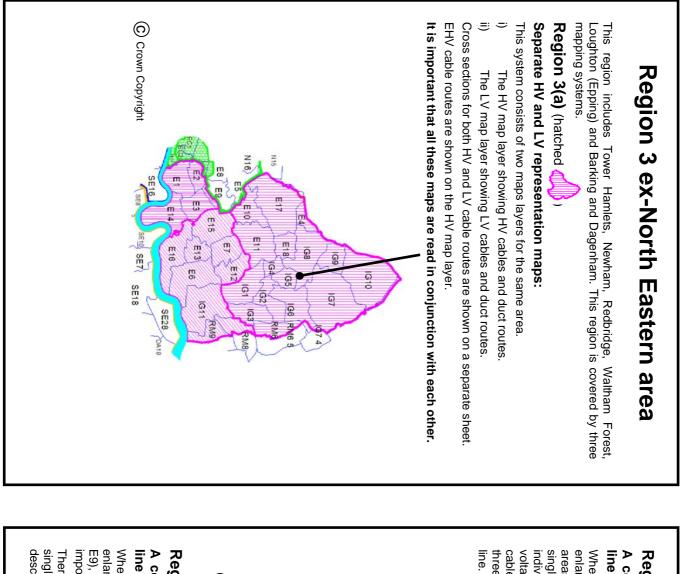
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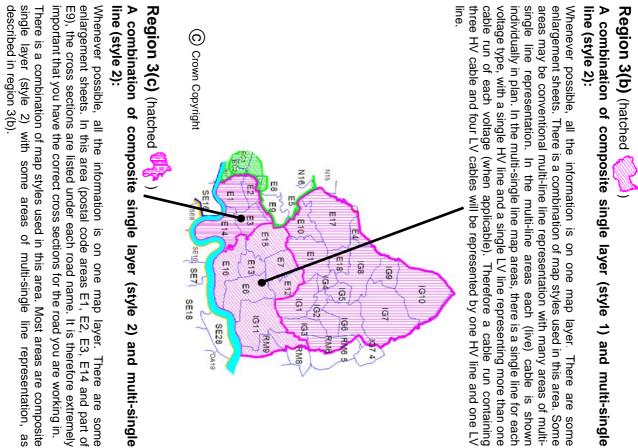


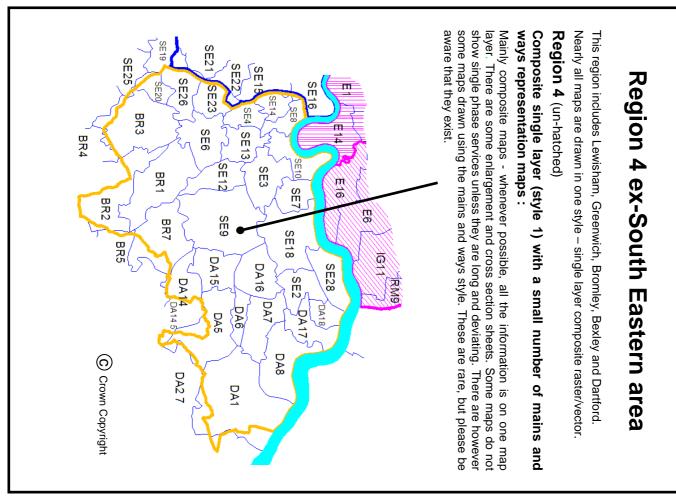












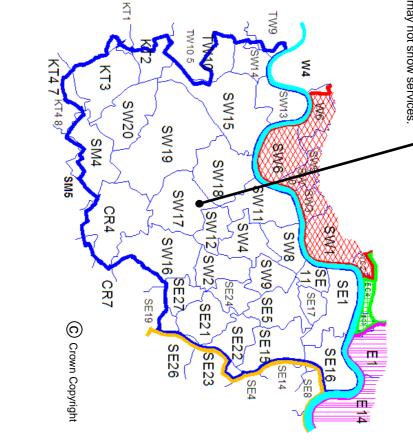
Region 5 ex-Southern area

This region includes Southwark, Lambeth, Wandsworth, Merton, Kingston upon Thames and Richmond upon Thames. All maps are drawn to one style - single layer composite raster/vector.

Region 5 (un-hatched)

Composite single layer (style 1) maps:

Composite maps - whenever possible, all the information is on one map layer. There are some enlargement and cross section sheets. A small number of maps may not show services.



Maps by email Plant Information Reply

NOT ALL PLANT IS SHOWN IN THIS AREA: PLEASE EMAIL mnhc@openreach.co.uk FOR DETAILS BEFORE COMMENCING WORK:

IMPORTANT WARNING

Information regarding the location of BT apparatus is given for your assistance and is intended for general guidance only. No guarantee is given of its accuracy. It should not be relied upon in the event of excavations or other works being made near to BT apparatus which may exist at various depths and may deviate from the marked route.



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CLICK BEFORE YOU DIG

FOR PROFESSIONAL FREE ON SITE ASSISTANCE PRIOR TO COMMENCEMENT OF EXCAVATION WORKS INCLUDING LOCATE AND MARKING SERVICE

email cbyd@openreach.co.uk

ADVANCE NOTICE REQUIRED (Office hours: Monday - Friday 08.00 to 17.00) www.openreach.co.uk/cbyd

Accidents happen

If you do damage any Openreach equipment please let us know by calling 0800 023 2023 (opt 1 + opt 1) and we can get it fixed ASAP

Reproduced from the Ordnance Survey map by BT by permission of Ordnance Survey on behalf of the Controller of Her Majesty's Stationary Office (C) Crown Copyright British Telecommunications plc 100028040

KEY	TO BT SYMI	BOLS	Change Of State	+	Hatchings	***
	Planned	Live	Split Coupling	\times	Built	1
РСР		⊠	Duct Tee		Planned	
Pole	0	0	Building		Inferred	~
Box			Kiosk	ĸ	Duct	\sim
Manhole					shown using da	
Cabinet		Û	Existi	ing BT Plant m	bove may be di hay not be reco	A CONTRACTOR AND A
					e of preparation	
			only valid fo		e of preparation ter the date of p	
	Pending Add	In Place				
Power Cable	Pending Add	In Place	only valid fo	or 90 days aft		

BT Ref : UVK04327I Map Reference : (centre) TQ3052682036 Easting/Northing : (centre) 530526,182036 Issued : 01/07/2021 16:32:45

WARNING: IF PLANNED WORKS FALL INSIDE HATCHED AREA IT IS ESSENTIAL BEFORE PROCEEDING THAT YOU CONTACT THE NATIONAL NOTICE HANDLING CENTRE. PLEASE SEND E-MAIL TO: nnhc@openreach.co.uk

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Identifying our equipment



If you're planning or building a new development, working on a regeneration project or undertaking roadworks it's likely that you'll come across some of our network infrastructure.

This guide includes images and descriptions of the most common types of equipment (past and present) to help you identify what's on your site so we can best advise you if you need anything moved or removed.

If you're not sure, please contact us – ideally sending a photo of the plant on your site – before you start work.

Poles and attachments

There are currently three materials used for poles: wood, steel and fibreglass. Wooden poles vary in length from 7 to 15m depending on the span the lines need to cover.

There are two types of pole in use:

- **Radial Distribution Poles:** typically to serve a number of properties in a street
- **Carrier Poles:** typically found in more rural locations, these are often used to provide an overhead route from A to B.



Pole markings





Owner of the pole – In this case BT. Older poles may also be marked as GPO or PO

Pole length and class (light, medium or stout) - 10L = 10m light

Year of preservation – 97

Supplier marker and type of wood – 2I = supplier 2 and Imported (I)

The punch hole sign is a testing cycle sign. This label is for internal Openreach use.

The pole reference number:

Distribution Pole – The letters DP, plus a number, in this case 19.

Carrier Pole – No letters, just a number will be shown.

You may also see square metal labels with a letter on a pole, i.e. C, D, H, SD and Z. These indicate the status of the pole to a visiting engineer.

Street covers and cabinets

Street covers and cabinets (PCP) have changed over the years, from cast iron to fibreglass to pressed steel. Sizes vary and all are made in single door versions. The most common examples are:



Cast iron cabinet





Fibreglass cabinet



All-in-one cabinet

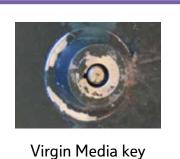


Single door cabinet (with replacement steel door)

How to spot one of our cabinets: keys and markings

Openreach and Virgin Media both have street cabinets and they look quite similar. Often the only difference is the type of key needed to open them. Openreach cabinets have a triangular or star shaped insert, while Virgin Media use conventional keys (see below).





All Openreach cabinets, frames and covers, are marked to show who owns them. Examples of these markings and the materials cabinets are made of are shown below.



Carriageway covers

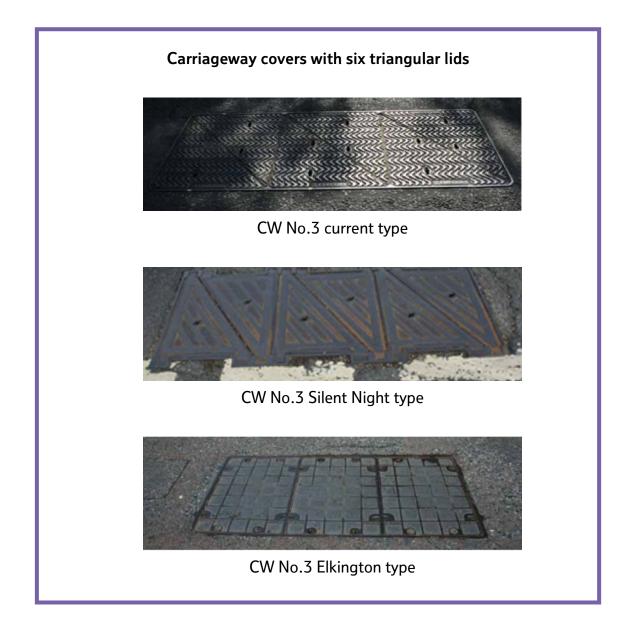
These boxes generally contain small customer connections. The old type of covers were made of concrete with a concrete lid while current covers are made of fibreglass and have a steel lid.

There are generally two types of carriageway covers. Those with a T-shaped key, the Silent Night, and those with a D-shaped key, the Elkington. Both types were supplied in all sizes and while the design varied slightly all have ownership markings on them.

All sizes are approximate.







Footway covers

Footway covers come in six basic sizes: small, medium, large, square, twin and triple, although there are size variants within some types. All sizes are approximate.

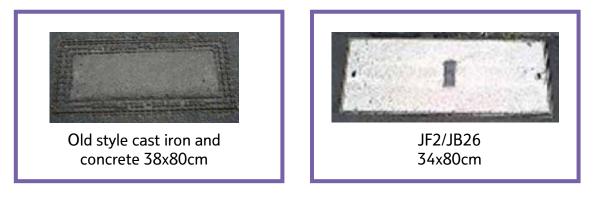
Small covers

These lids cover boxes which generally contain small customer connections. Previously the boxes and lids were made of concrete, but the current footway boxes are made of fibreglass and have steel lids.



Medium covers

There is only one size of cover in this category. This lid can be found on a fibreglass preformed box, JB26, as well as a concrete/brick chamber, JF2. As with the JB 23 small footway box above the JB26 will have a thin white edge around the cover while the JF2 has a fillet.



Large covers

Along with the twin, this is probably the most common footway type in the network. Originally the covers were made of cast iron and concrete but now they're just made of concrete.





Square covers

These covers are placed over manholes and are found in the footways and verges.

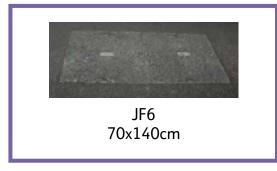




JF5 old type 70x70cm

Twin covers

This cover shown in the section is probably the most common footway type in our network. Originally the cover was made of cast iron and concrete but now they're just made of concrete. You can see variations to the inserts and markings below.



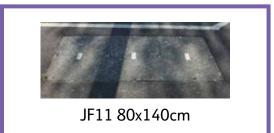


JF6 old cast and concrete type 70x140cm

Triple covers

The two sizes of triple lid covers are shown here.



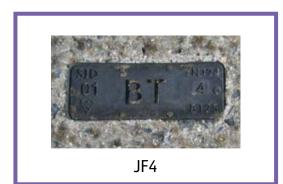


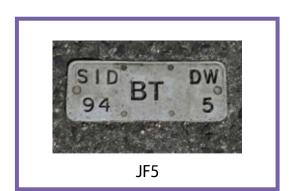
Inserts and markings

In this section you can see examples of the markings that you would expect to find on our equipment.

Footway

Examples of the current JF4 and JF5 inserts are shown below. The number '4' or '5' shown on the right hand side of the insert identifies the type. The letters 'DW' shown on the top right hand corner of the JF5 box indicate that this is a drive way lid built to stand further loading.



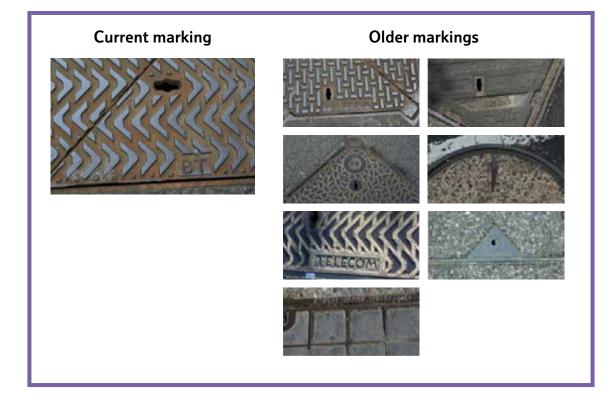


The following examples show the changes undertaken from GPO to BT.



Carriageway

The current marking is shown below, with some of the older versions beneath.

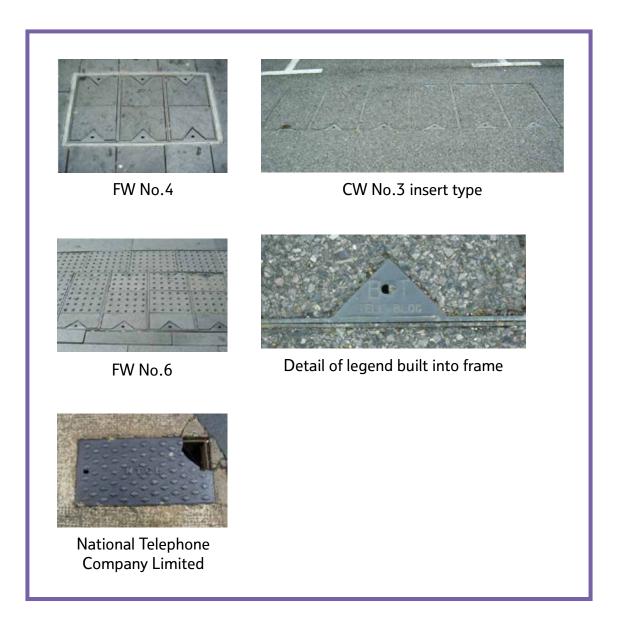


Non-standard plant

Some locations have used bespoke cover infills which improve the aesthetics of the area, enhance paving designs or accommodate high tactile surfacing. The scope of these type of covers is endless.

Maintenance for these covers may not reside with Openreach as often the responsibility remains with the Authority.

A small selection of non-standard footway and carriageway covers are shown below.



Disclaimer

This document contains information intended to help you to identify Openreach equipment on your site and is provided for information purposes only. Whilst Openreach makes every effort to ensure that the information contained in this document is accurate, Openreach does not represent that it is complete. The contents of this pack cannot be copied or reproduced in whole or in part without the written consent of British Telecommunications plc, through its division, Openreach.

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