

Essentials Utility Search Report

For the following location:

Growing Concerns Garden Centre, 2 Wick Lane,
Tower Hamlets, Greater London, E3 2NA

Client:

Caroline Walker

Co-ordinates:

536905.000,184116.200

Reference:

GRS00347/GS-1953602

Search Date:

11/03/2015

emapsite™



Technics
Geospatial Consultant Surveyors

LOCATION INTELLIGENCE

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Thank you for your Utility Search Report order. You have selected one of several report options developed to suit the specific needs of our different customers. The range comprises:

Utility Essentials

The Utility Essentials report gives visibility of the 5 key services – Gas, Electric, Water, Sewage and British Telecom, supplied for areas of up to 25 hectares. The Essentials report is ideal for remote sites where only the main utilities providers are likely to be present or projects where the aim is merely to check the availability of the main utilities e.g. in the planning stages of a new development. All available information is collated and delivered as a single report in 5 working days with any outstanding information being delivered as soon as it is available.

Utility Premium

The Utility Premium report provides comprehensive information about all services affecting your site, including: Gas and Oil Pipelines; mains Water and Sewerage; Telecoms and fibre-optic cables; and transportation networks. This report is ideal when comprehensive information is required for your site, ensuring you are managing your risk and avoiding expensive delays. Supplied for areas of up to 25 hectares, all available information is gathered, collated and supplied as a single report within 10 working days, with any outstanding information being delivered as soon as it is available. Please note, a search of Vtesse Networks Ltd is not included in this report. If you require a Vtesse Networks Ltd search this is available through our Utility Singles Telecoms report.

Utility Fast-track

The Utility Fast-track report delivers all the information of a Premium report (Gas and Oil Pipelines; mains Water and Sewerage; Telecoms and fibre-optic cables; and transportation networks) but with all available supplier responses being collated in a report and delivered to you within 5 working days, with any outstanding information being delivered as soon as it is available. Please note, a search of Vtesse Networks Ltd is not included in this report. If you require a Vtesse Networks Ltd search this is available through our Utility Singles Telecoms report.

Utility Singles

Our Utility Singles reports enable you to request data for a single utility type. You can order Gas, Water & Sewerage, Electricity or Telecoms as an individual search. This is a cost-effective way to obtain relevant information if you only need to check the availability/position of a particular utility in order to plan a new development or make changes to an existing development. Supplied for areas of up to 25 hectares*, all available information is gathered, collated and supplied as a single report within 10 working days, with any outstanding information being delivered as soon as it is available.

*Telecom report with Vtesse is limited to a maximum radius of 250m.

UTILITY REPORT CONTENT & INFORMATION

1 Purpose of Utilities Report

The Utilities Report is intended to be for project planning and feasibility only. It is not suitable to be used for construction or excavation purposes. The existence of utilities on the plans does not imply that they are suitable in size, capacity, type or location for the project purpose. The Utility Companies should be contacted directly for clarification in this regard.

2 Compilation of the Utilities Report

The Utilities Report is a compilation of Utility Company record plans. These are obtained via application to the Utility Companies following a geographic search to determine which Companies are in a given area. The data is provided by the Utility Companies in a variety of formats including faxed plans, pdf files, digital drawing files and paper drawings. They are all converted to pdf files for inclusion in the report. The quality of the plans therefore varies. A quality assured process is followed for each report. This requires that it is checked at different stages during the process before being subjected to a final assessment prior to issue.

3 Limitations and Accuracy of the data

Each Utility Company has its own disclaimer statement in respect of the information they provide. They do not guarantee or provide a warranty for the data. The Utility Company disclaimers should be referred to when considering the accuracy and completeness of the data. Generally the plans provided are for guidance only and are not guaranteed to be up to date or to be a complete record of the Utility Company plant in a given area.

Some Utility Companies only show main utilities. Therefore service pipes or cables may not be shown on the plans but they may be present on the site.

Some Utility Companies state that the utilities may deviate from the route and position shown on the plans.

Due to the time delay between installation of, or repair or upgrading of utilities and the subsequent updating of the Utility Companies plans, it should be noted that there could be utilities present that are not shown on the plans.

The user shall make further enquires and investigations to satisfy himself as to the adequacy of the plans and position of the utilities. The exact position of the utilities should be verified by the use of suitable detecting devices and safe digging practices in accordance with HS(G)47. Further advice on the location of the utilities should be requested from the owner.

4 Completeness

Whilst every effort is made to locate all Utility Companies in a given area, due to the sensitive or restrictive nature of certain sites, the existence of redundant utilities, the emergence of new companies and the combining of, takeover or sale of existing Companies, we cannot guarantee to provide details on all utilities in a given area.

5 Date

Due to the Utility Companies plans being regularly changed and updated, the Utility Report is only valid at the time of production.

6 Liability

For the reasons given in 1 – 5 above neither emapsite Ltd nor Technics Group Limited (trading name of Subtechnics Limited) can accept any liability for or offer any guarantees for the report or the content. No representation is made by either emapsite Ltd and/or Technics Group Limited as to the accuracy, completeness, sufficiency or otherwise of this report.

7 Copyright

The copyright of the Utilities Report remains with Technics Group Limited and may not be copied nor communicated using any method either in whole or in part without the prior written consent of Technics Group Limited.

8 Assignment

The Utility Report cannot be assigned to any other party without the prior written consent of Technics Group Limited.

Terms and Conditions

The Terms and Conditions should be read in conjunction with the 'Report Content & Information' sheet. The content of the 'Report Content & Information' sheet forms part of the Terms and Conditions.

1. Disbursements

1.1. Several Utility Companies charge for either searching to determine if they have any plant or for providing plans. These charges are included in the cost of Utility Essentials, Utility Premium and Utility Fast-track Reports, and are not charged as extra. Utility Singles Reports do not include disbursement charges and these will be charged as extra to the client at cost. The client will be made aware of any applicable charges prior to finalisation of purchase.

1.2. The Utility Companies that make a charge or the charges themselves may be changed or updated without notification to the client.

2. Turnaround times

2.1. Whilst every effort is made to produce the reports as quickly as possible we are reliant on the Utility Companies to provide us with the plans and/or data. Depending on the product purchased, generally reports are completed within approximately 5 to 15 working days.

2.2. No guarantees can be made regarding the time taken to complete the report.

3. Limitation of Liability

3.1 Technics Group Ltd (trading name of Subtechnics Limited) and/or emapsite Ltd will make all reasonable endeavors to provide the Utility Report within the stated time period and shall not be liable for any delay arising because of any act, omission or delay of any Utility Company.

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3.3 Technics Group Ltd and/or emapsite Ltd shall have no liability in relation to any Utilities Report for loss or damage arising in relation to loss of profits, loss of business, loss of use, costs, damages, charges or expenses.

4. Cancellation Policy

4.1. We are unable to cancel the order once finalised.

5. Force Majeure

Technics Group Ltd and/or emapsite Ltd will have no liability to the Client if it is prevented from or delayed in performing its obligations in connection with producing the Utilities Report by any act, event, omission, accident or incident beyond its reasonable control. These include but are not limited to:- any form of industrial dispute, strike or lock-out, breakdown or failure of a utility service or transport network, act of God, war, riot, civil commotion, malicious damage, accident, incident, breakdown of plant, machinery or electronic system, fire or flood.

6. Governing Law

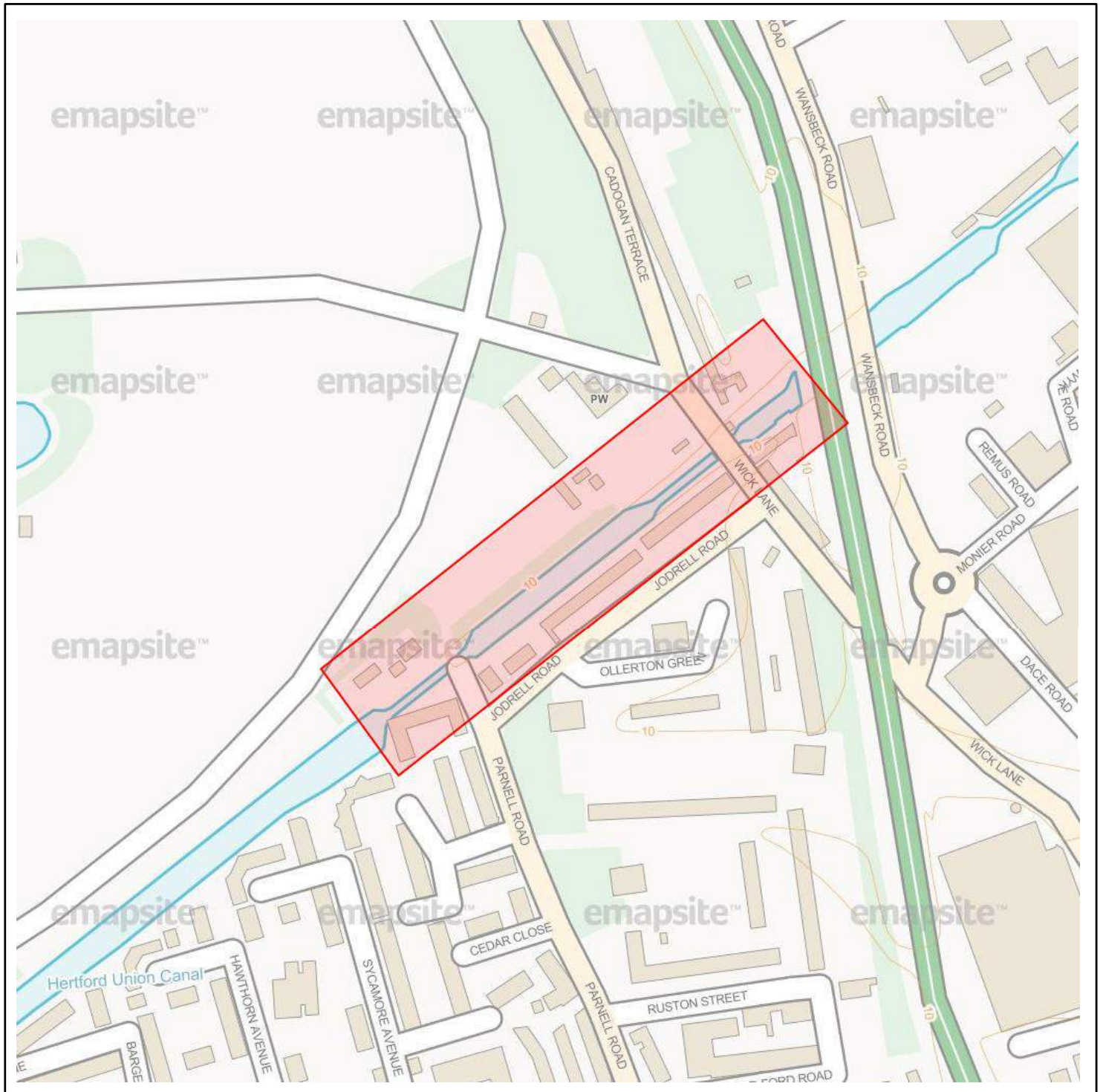
The Governing Law and Jurisdiction of these Terms and Conditions, any Contract or Agreement are governed by and construed in accordance with the laws of England and Wales. The courts of England and Wales shall have non-exclusive jurisdiction to settle any dispute or claim that arises out of or in connection with these Terms and Conditions, any Contract or Agreement.

Our Ref

GRS00347/GS-1953602

Grid Reference

OSGB: 536905.000,184116.200



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The representation of a road, track or path is no evidence of a right of way.

The representation of features as lines is no evidence of a property boundary.

Utility Company Underground Services Results Schedule

Your Ref 1953602

Our Ref: EMS00347

Address: Growing Concerns Garden Centre, 2 Wick Lane

Grid Reference: 536905.000,184116.200

Post code: E3 2NA

Author: Stephen Sawyer

Search Date: 11/03/2015

Utility Company	Responses	Outcome
Electricity		
UK Power Networks	31	Affected
National Grid UK	8	Affected
Gas		
National Grid UK	11	Affected
Telecoms/Cable		
BT	1	Affected
Water and Sewers		
Thames Water	1	Affected

Electricity



Mr. Stephen Sawyer
Technics Group
Technics House
Merrow Business Centre
Merrow Lane
Guildford
GU4 7WA

Our Ref: 2015/2181896
Your Ref: GRS00347
12/03/2015

Dear Sir/Madam

GROWING CONCERNS GARDEN CENTRE 2, WICK LANE, LONDON, E3 2NA

Thank you for your letter of 11/03/2015 in which you asked if there are any electric lines and/or electrical plant belonging to UK Power Networks (LPN) plc ("UK Power Networks") within land referred to by your enquiry. Unfortunately I have not been able to determine the specific site to which your enquiry relates. I have thus provided records for the land to which I believe your enquiry may refer. If the records provided do not relate to the land to which you had intended to refer please resubmit your enquiry, showing the relevant land edged red on a plan which clearly shows the entirety of the land for which you require copies of our records. It will help me to identify the land to which your enquiry relates if you could also provide me with a copy or page from an A to Z map, showing both the land itself and the area in which it is located.

Subject to the above, I enclose a copy of UK Power Networks record of its electric lines and/or electrical plant at the site. If the records provided do not relate to the land to which you had intended to refer please resubmit your enquiry.

This information is made available to you on the terms set out below.

- 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 person or causes personal injury to a person where such death or personal injury is caused by its negligence.
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 how for any loss, damage, costs, 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. The information about UK Power Networks electrical plant and/or electric lines provided to you belongs to and remains the property of UK Power Networks. You must not alter it in any respect.
5. **The information provided to you about the electrical plant and/or electric lines depicted on the plans may NOT be a complete record of such apparatus belonging to UK Power Networks. The information provided relates to electric lines and/or electrical plant belonging to UK Power Networks that it believes to be present but the plans are NOT definitive: other**

electric lines and/or electrical plant may be present and that may or may not belong to UK Power Networks.

6. **Other apparatus not belonging to UK Power Networks is not shown on the plan. It is your responsibility to make your own enquiries elsewhere to discover whether apparatus belonging to others is present. It would be prudent to assume that other apparatus is present.**
7. You are responsible for ensuring that the information made available to you is passed to those acting on your behalf and that all such persons are made aware of the contents of this letter.
8. Because the information provided to you may **NOT** be accurate, you are recommended to ascertain the presence of UK Power Networks electric lines and/or electrical plant by the digging of trial holes. **Trial holes should be dug by hand only.**

Excavations must be carried out in line with the Health and Safety Executive guidance document HSG 47. We will not undertake this work. A copy of HSG 47 can be obtained from the Health and Safety Executives website.

All electric lines discovered must be considered LIVE and DANGEROUS at all times and must not be cut, resited, suspended, bent or interfered with unless specially authorised by UK Power Networks.

The electric line and electrical plant belonging to UK Power Networks remains so even when made dead and abandoned and any such electric line and/or electrical plant exposed shall be reported to UK Power Networks.

Where your works are likely to affect our electric lines and/or electrical plant an estimate of the price of any protective /diversionary works can be prepared by UK Power Networks Branch at Metropolitan House, Darkes Lane, Potters Bar, Herts. , EN6 1AG, telephone no. 0845 2340040

9. **Any work near to any overhead electric lines must be carried out by you in accordance with the Health and Safety Executive guidance document GS6 and the Electricity at Work Regulations.**

The GS6 Recommendations may be purchased from HSE Books or downloaded from the Energy Networks Association's website.

If given a reasonable period of prior notice UK Power Networks will attend on site without charge to advise how and where "goal posts" should be erected. If you wish to avail yourself of this service, in the first instance please telephone: 0845 6014516 between 08:30 and 17:00 Monday to Friday, Public and bank holidays excepted.

10. 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.
11. If in carrying out work on land in, on, under or over which is installed an electric line and/or electrical plant that belongs to UK Power Networks you and/or anyone working on your behalf damages (however slightly) that apparatus you must inform immediately UK Power Networks by telephone at the number below providing:
 - your name, address and telephone number; and
 - the date, time and place at which such damage was caused; and

- a description of the electric line and/or electrical plant to which damage was caused; and
- the name of the person whom it appears to you is responsible for that damage; and
- the nature of the damage

Telephone 0800 780078 (24 Hours).

12. The expression “UK Power Networks” includes UK Power Networks (EPN) plc, UK Power Networks (LPN) plc, UK Power Networks (SEPN) plc, UK Power Networks and any of their successors and predecessors in title.

IF YOU DO **NOT** ACCEPT AND/OR **DO NOT** UNDERSTAND THE TERMS OF USE SET OUT IN PARAGRAPHS 1 TO 12 INCLUSIVE ABOVE YOU MUST NOT USE THE PLANS AND RETURN THEM TO ME.

I would remind you that work adjacent to electric lines and/or electrical plant represents a serious risk to health and safety and as such should feature amongst the items you have assessed in your workplace risk assessment and method statement.

I shall be pleased to supply you with further assistance if you require it.



Scale: 1:1000
 Date: 12/03/2015



File Description:

Map Centre: T05784SW



PRIMARY CABLES
 EXTRA HIGH VOLTAGE CABLES (EHV) 22,000 TO 132,000 Volts
 Depth normally 750mm cover in carriageway & 600mm cover in footway.
 Before digging within one metre of these cable routes Telephone 0800 056 5866 in order that the Company's apparatus may be located on site and any necessary protection works agreed.
N.B. THRUST BOMBS OR HOLES MUST NOT BE USED WITHIN THE VICINITY OF ANY CABLES BELONGING TO UK POWER NETWORKS WITHOUT FIRST CONTACTING THIS COMPANY.

- 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.
- The exact position of the apparatus should be verified - use approved cable avoidance tools prior to excavation using suitable hand tools.
- It is essential that trial holes are carefully made avoiding the use of mechanical tools or picks and the exact location of all cables have been determined.
- It must be assumed that there is a service cable in every property, lamp column and street furniture.
- All cables must be treated as being live unless proved otherwise by UK Power Networks.
- The information provided must be given to all people working near UK Power Networks' plant & equipment. Do not use plants more than 3 months after the issue date for excavation.
- Liability:**
- 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.

- UK Power Networks Ltd does not warrant that the information provided to you is correct. You rely upon it at your own risk.
- UK Power Networks Ltd does not exclude or limit its liability if it causes the death of a person or causes personal injury to a person where such death or personal injury is caused by its negligence.
- Subject to paragraph 2, UK Power Networks Ltd has no liability to you in contract, in tort (including negligence), for breach of statutory duty or otherwise howsoever for any loss, damage, costs, 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 profits, loss of opportunity, loss of savings, loss of goodwill, loss of business, loss of use) or any special or consequential loss or damage whatsoever.

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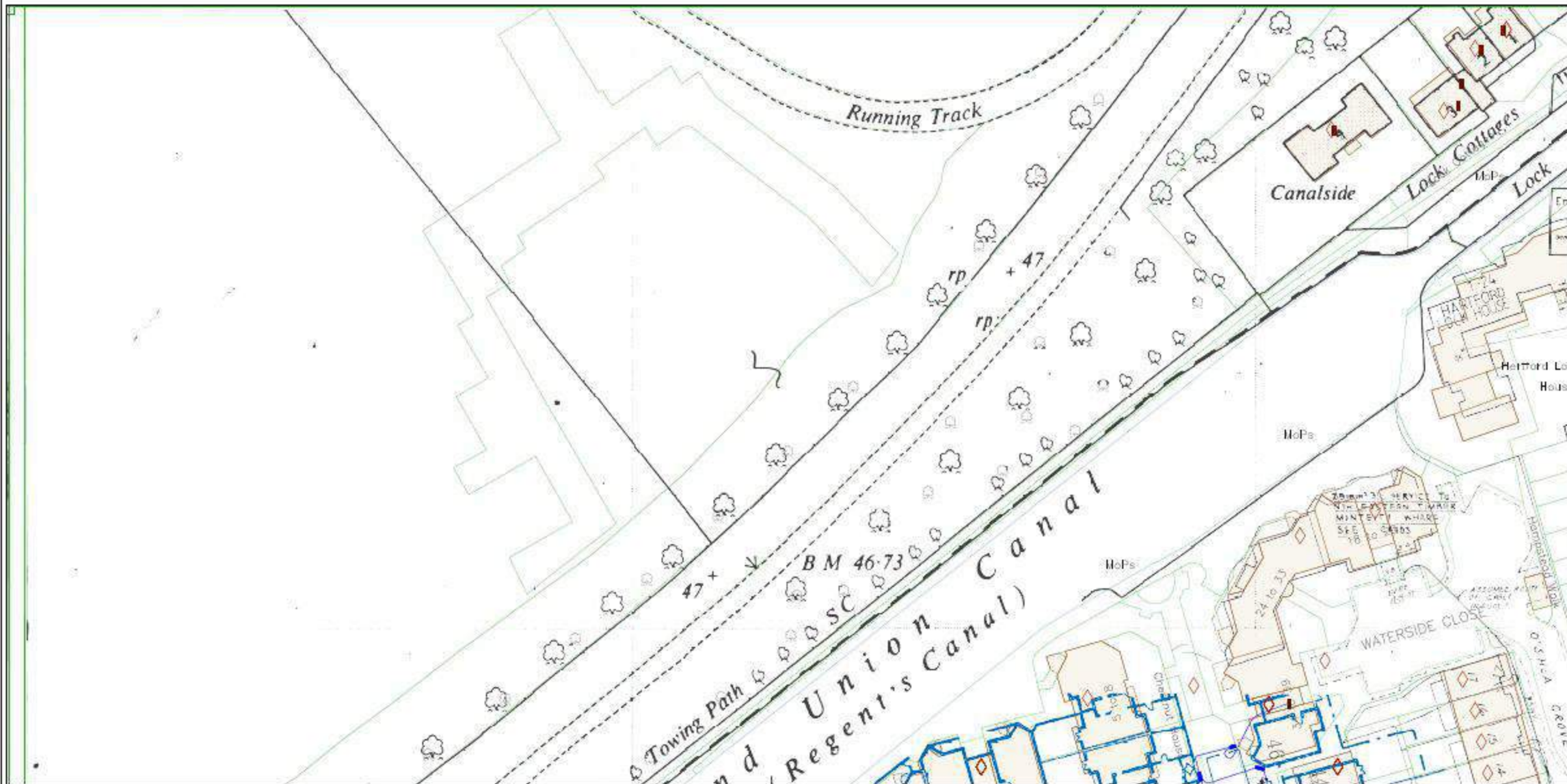
ADVICE TO CONTRACTORS ON AVOIDING DANGER FROM BURIED ELECTRICITY CABLES:

- Do have cable drawings with you on site and check them before you start the excavation.
- Do have a cable locator tool on site and use it to help you.
- Mark out the location of electricity cables.
- Do not use a mechanical excavator within 0.5m of electricity cables.
- Use spades and shovels in preference to other tools.
- Never disturb electricity cables and joints or their protective covers.

**IF IN DOUBT - ASK! PHONE 0800 056 5866
 B2B@ENY - If you damage a cable or line
 Phone 0800 780 0780 (24hrs) UK-BNL**

These basic safety precautions are explained in detail in the HSE booklet H52417 - Avoiding Danger from Underground Services, a copy of which may be obtained from your supervisor or HMSO.

Please be aware that electric lines belonging to other owners of licensed electricity distribution systems may be present and it is your responsibility to identify their location.



Printed On : 12/03/2015



Plot Description:

Map Centre : TQ3083NE



PRIMARY CABLES
EXTRA HIGH VOLTAGE CABLES (EHV) 22,000 TO 132,000 volts
 Depth normally 750mm cover in carriageway & 600mm cover in footway.
 Before digging within one metre of these cables contact
 Telephone 0800 056 5856 in order that the Company's apparatus may be located
 on site and any necessary protection works agreed.
**NEVER THRUST BORDERS OR MOLES MUST NOT BE USED WITHIN THE VICINITY OF ANY
 CABLES BELONGING TO UK POWER NETWORKS WITHOUT FIRST CONTACTING THIS
 COMPANY.**

1. The position of the apparatus shown on this drawing is believed to be correct but the ground conditions 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. It is essential that trial holes are carefully made avoiding the use of mechanical tools or picks and the exact location of all cables have been identified.
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 provided may be open to all people working near UK Power Networks plant & equipment. Do not use plans more than 3 months after the issue date for excavation.
7. Please be aware that electric cables/lines belonging to other owners or licensed electricity distribution systems may be present and it is your responsibility to identify their location.

1. UK Power Networks Ltd does not warrant that the information provided to you is correct. You rely upon it at your own risk.
2. UK Power Networks Ltd does not exclude or limit its liability if it causes the death of a person or causes personal injury to a person where such death or personal injury is caused by its negligence.
3. Subject to paragraph 2, UK Power Networks Ltd has no liability to you in contract, in tort (including negligence), for breach of statutory duty or otherwise howsoever for any loss, damage, costs, 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.

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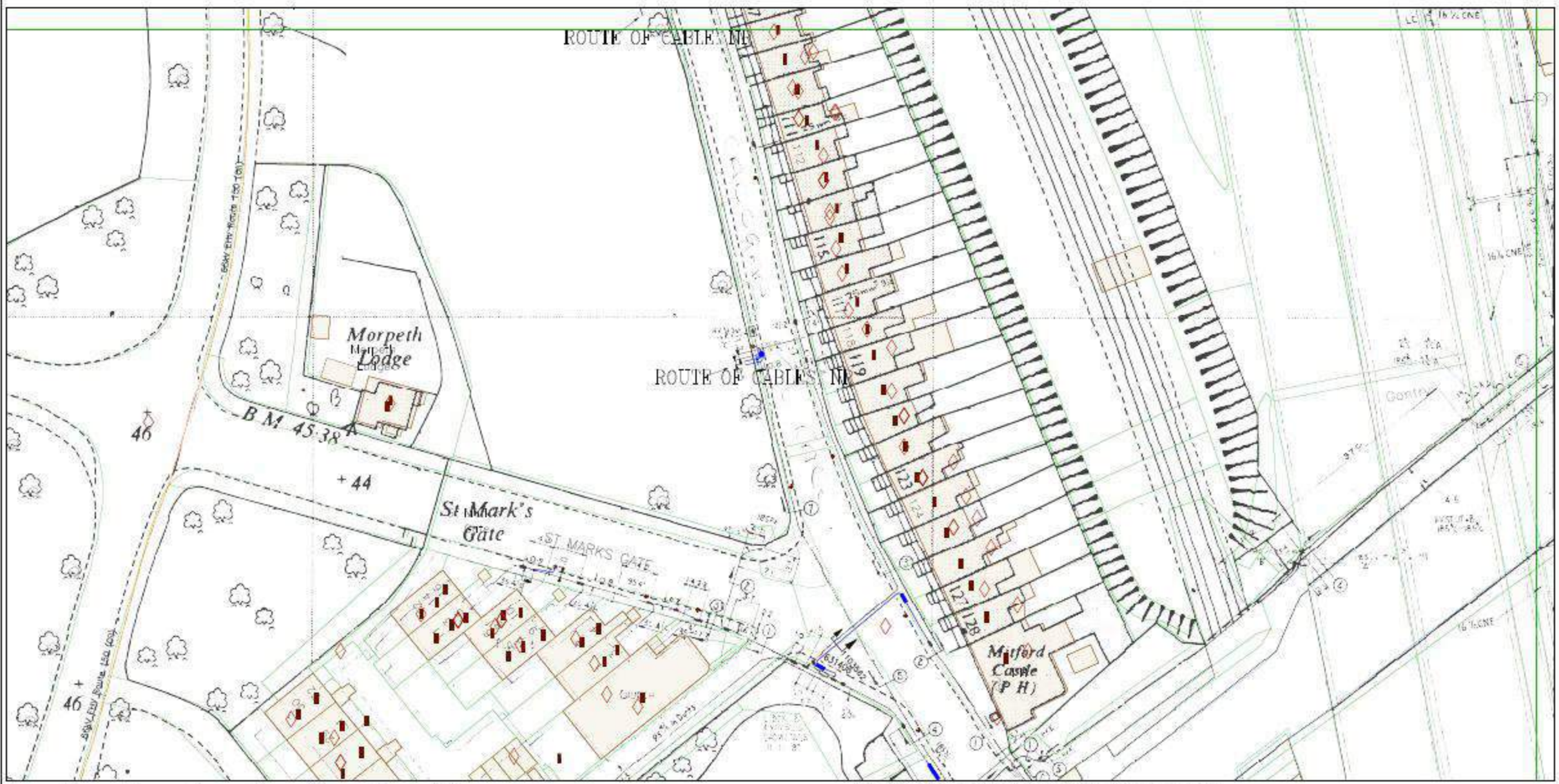
ADVICE TO CONTRACTORS ON AVOIDING DAMAGE FROM BURIED ELECTRICITY CABLES

- 1) Do have cable drawings with you on site and check them before you start the excavation.
- 2) Do have a cable locating tool on site and use it to help you.
- 3) Mark out the location of electricity cables.
- 4) Do not use a mechanical excavator within 0.5m of electricity cables.
- 5) Use spades and shovels in preference to other tools.
- 6) Never disturb electricity cables and joints or their protective covers.

IF IN DOUBT - ASK PHONE 0800 056 5866
BIG-ENERGY - If you damage a cable or line
 Phone 0800 780 0780 (24hrs) UK-ENL

These basic safety precautions are explained in detail in the HSE booklet HS(G)47 - Avoiding Danger from Underground Services, a copy of which may be obtained from your supervisor or HMSO.

Please be aware that electric lines belonging to other owners or licensed electricity distribution systems may be present and it is your responsibility to identify their location.



Filed On : 12/03/2015

File Description :

Map Centre : TQ5684SE



For details of our services please visit www.ukpowernetworks.co.uk

PRIMARY CABLES
EXTRA HIGH VOLTAGE CABLES (EHV) 22,000 TO 132,000 Volts

Depth: normally 750mm cover in subhighway & 600mm cover in footway.
 Before digging within the vicinity of these cables contact Telephone 0800 056 5866 in order that the Company's apparatus may be located on site and any necessary protection works agreed.
N.B. THRUST BORERS OR HOLES MUST NOT BE USED WITHIN THE VICINITY OF ANY CABLES BELONGING TO UK POWER NETWORKS WITHOUT FIRST CONTACTING THIS COMPANY.

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 ascertained by use approved cable avoidance tools prior to excavation using suitable hand tools.
3. It is essential that trial holes are carefully made avoiding the use of mechanical tools or picks until the exact location of all cables have been determined.
4. It must be assumed that there is a service cable into each property, lamp column and street lighting etc.
5. All cables must be treated as being live unless proved otherwise by UK Power Networks.
6. The information provided must be given to all people working near UK Power Networks plant & equipment. Do not use plants more than 3 months after the issue date for excavation.
7. **Caution**
8. 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 Ltd does not warrant that the information provided to you is correct. You rely upon it at your own risk.
 2. UK Power Networks Ltd does not exclude or limit its liability in it causes the death of a person or causes personal injury to a person where such death or personal injury is caused by its negligence.
 3. Subject to paragraph 2, UK Power Networks Ltd has no liability to you in contract, in tort (including negligence), for breach of statutory duty or otherwise howsoever for any loss, damage, costs, 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.

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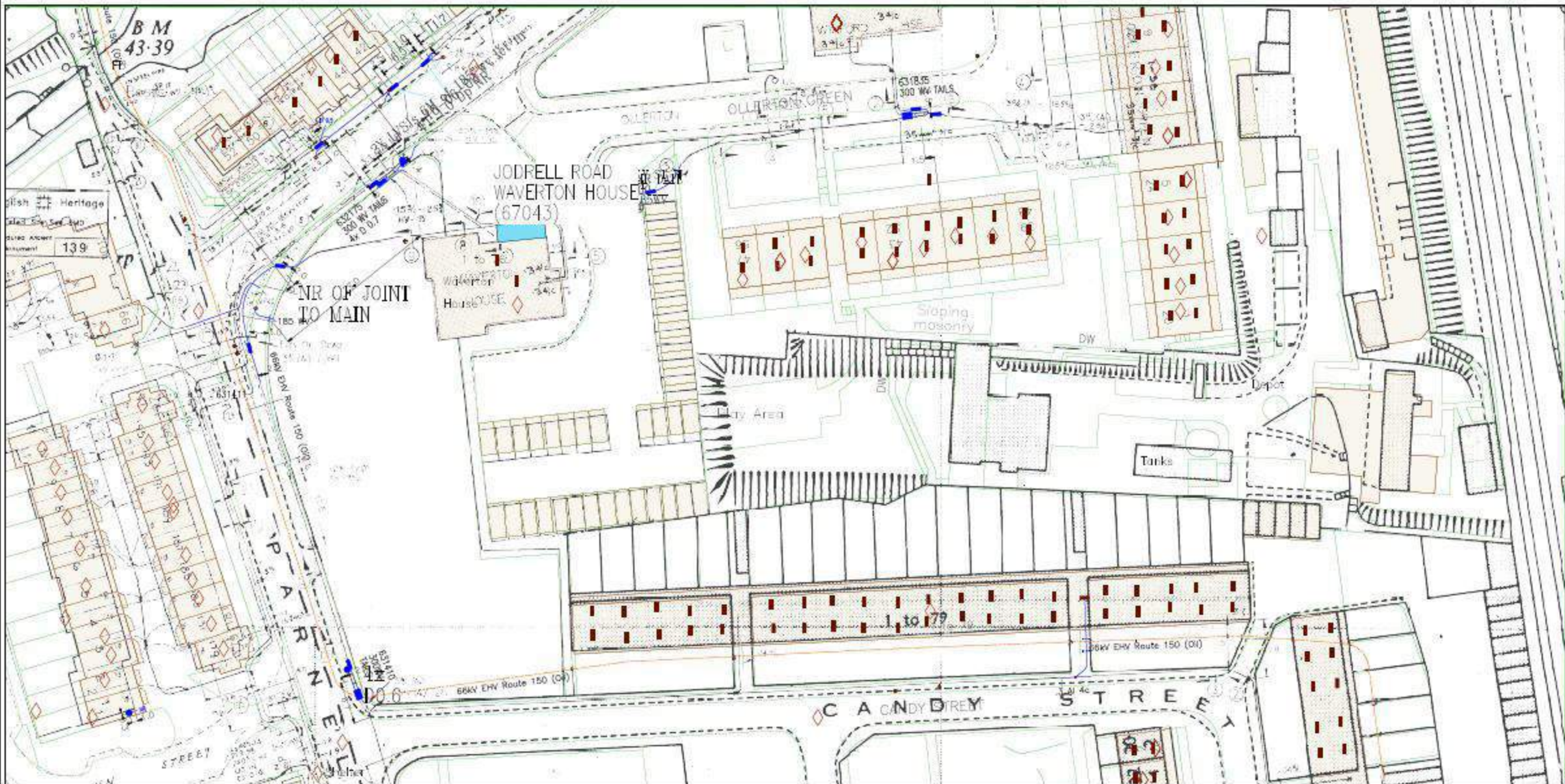
ADVICE TO CONTRACTORS ON AVOIDING DAMAGE FROM BURIED ELECTRICITY CABLES

- 1) Do have cable drawings with you on site and check them before you start the excavation.
- 2) Do have a cable locator tool on site and use it to help you.
- 3) Mark out the location of electricity cables.
- 4) Do not use a mechanical excavator within 0.5m of electricity cables.
- 5) Use spades and shovels in preference to other tools.
- 6) Never disturb electricity cables and joints or their protective covers.

IF IN DOUBT - ASK! PHONE 0800 056 5866
EMERGENCY - If you damage a cable or line
 Phone 0800 750 0760 (24hrs) **URGENTLY**

These basic safety precautions are explained in detail in the HSE booklet H52417 - Avoiding Danger from Underground Services, a copy of which may be obtained from your supervisor or HMSO.

Please be aware that electric lines belonging to other owners of licensed electricity distribution systems may be present and it is your responsibility to identify their location.



Printed On: 12/03/2015



File Description:

Map Centre: TQ5681NE



For details on cables please visit:
<http://www.ukpower.co.uk/ehv/ehv-cables/ehv-cables-ehv-cables.aspx>

PRIMARY CABLES:
EXTRA HIGH VOLTAGE CABLES (EHV) 22,000 TO 132,000 Volts

Depth normally 750mm cover in subgrade & 600mm cover in footway.
 Before digging within one metre of these cable routes Telephone 0800 056 5866 in order that the Company's apparatus may be located on site and any necessary protective works agreed.

N.B. THRUST BORES OR HOLES MUST NOT BE USED WITHIN THE VICINITY OF ANY CABLES BELONGING TO UK POWER NETWORKS WITHOUT FIRST CONTACTING THIS COMPANY.

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2. The exact position of the apparatus should be verified - use approved cable avoidance tools prior to excavation using suitable hand tools.
3. It is essential that trial holes are carefully made avoiding the use of mechanical tools or picks and the exact location of all cables have been detailed.
4. It must be assumed that there is a service cable to each property, lamp column and street lighting etc.
5. All cables must be treated as being live unless proved otherwise by UK Power Networks.
6. The information provided must be given to all people working near UK Power Networks plant & equipment. Do not use plants more than 3 months after the issue date for excavation.
7. Please be aware that electric cables/buses belonging to other owners of licensed electricity distribution systems may be present and it is your responsibility to identify their location.

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2. UK Power Networks Ltd does not exclude or limit its liability if it causes the death of a person or causes personal injury to a person where such death or personal injury is caused by its negligence.
3. Subject to paragraph 2, UK Power Networks Ltd has no liability to you in contract, in tort (including negligence), for breach of statutory duty or otherwise howsoever for any loss, damage, costs, 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 profits, loss of opportunity, loss of savings, loss of goodwill, loss of business, loss of use) or any special or consequential loss or damage whatsoever.

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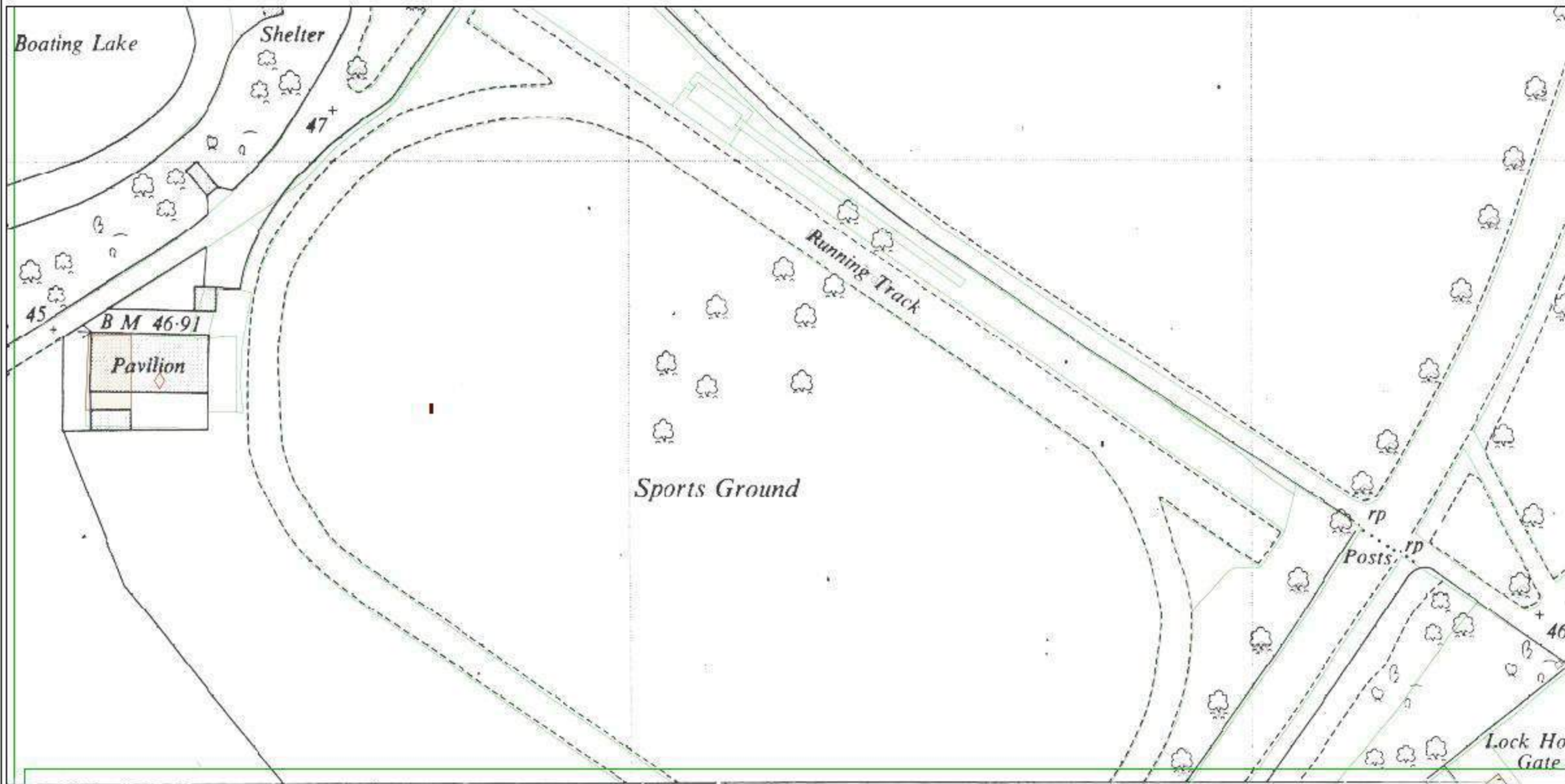
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- 3) Mark out the location of electricity cables.
- 4) Do not use a mechanical excavator within 0.5m of electricity cables.
- 5) Use spades and shovels in preference to other tools.
- 6) Never disturb electricity cables and joints or their protective covers.

**IF IN DOUBT - ASK PHONE 0800 056 5866
 EMERGENCY - If you damage a cable or line
 Phone 0800 760 0760 (24hrs) URGENTLY**

These basic safety precautions are explained in detail in the HSE booklet H52(17) - Avoiding Danger from Underground Services, a copy of which may be obtained from your superior or HMSO.

Please be aware that electric lines belonging to other owners of licensed electricity distribution systems may be present and it is your responsibility to identify their location.



Filed On: 12/03/2015

File Description:

Map Centre: TQ35845E



PRIMARY CABLES:
EXTRA HIGH VOLTAGE CABLES (EHV): 22,000 TO 132,000 Volts
 Depth: normally 750mm cover in subgrade & 600mm cover in tarmac.
 Before digging within one metre of these cable routes Telephone 0800 025 5866 in order that the Company's apparatus may be located on site and any necessary protective works agreed.
N.B. THRUST BORERS OR HOLES MUST NOT BE USED WITHIN THE VICINITY OF ANY CABLES BELONGING TO UK POWER NETWORKS WITHOUT FIRST CONTACTING THIS COMPANY.

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 cover position of the apparatus should be marked - use approved cable avoidance tools prior to excavation using suitable hand tools.
 3. It is essential that trial holes are carefully made avoiding the use of mechanical tools or picks and the exact location of all cables have been identified.
 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 live unless proved otherwise by UK Power Networks.
 6. The information provided must be given to all people working near UK Power Networks plant & equipment. Do not use plans more than 3 months after the issue date for excavation.
Liability:
 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 Ltd does not warrant that the information provided to you is correct. You rely upon it at your own risk.
 2. UK Power Networks Ltd does not exclude or limit its liability in it causes the death of a person or causes personal injury to a person where such death or personal injury is caused by its negligence.
 3. Subject to paragraph 2, UK Power Networks Ltd has no liability to you in contract, in tort (including negligence), for breach of statutory duty or otherwise howsoever for any loss, damage, costs, 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.

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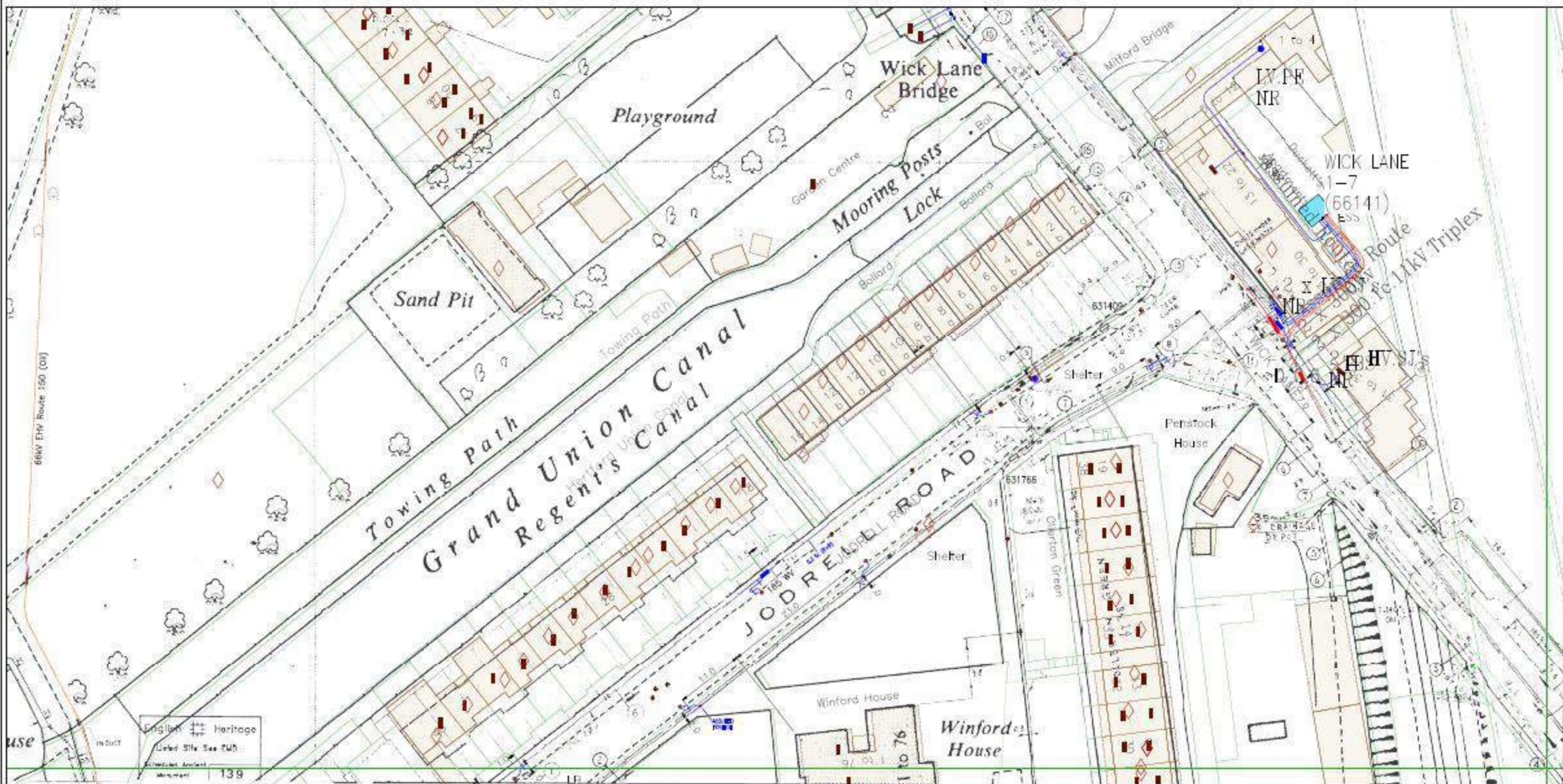
ADVICE TO CONTRACTORS ON AVOIDING DAMAGE FROM BURIED ELECTRICITY CABLES

- 1) Do have cable drawings with you on site and check them before you start the excavation.
- 2) Do have a cable locator tool on site and use it to help you.
- 3) Mark out the location of electricity cables.
- 4) Do not use a mechanical excavator within 0.5m of electricity cables.
- 5) Use spades and shovels in preference to other tools.
- 6) Never disturb electricity cables and joints or their protective covers.

IF IN DOUBT - ASK PHONE 0800 025 5866
BIDRENTY - If you damage a cable or line
 Phone 0800 750 0780 (24hrs) UK-BTL

These basic safety precautions are explained in detail in the RSE booklet H3(6)17 - Avoiding Danger from Underground Services, a copy of which may be obtained from your supervisor or HMSO.

Please be aware that electric lines belonging to other owners of licensed electricity distribution systems may be present and it is your responsibility to identify their location.



Filed On | 12/03/2015



File Description

Map Centre : T036843E



PRIMARY CABLES
EXTRA HIGH VOLTAGE CABLES (EHV) 22,000 TO 132,000 Volts
 Depth normally 750mm cover in carriageway & 600mm cover in footway.
 Before digging within six metres of these cables call the Telephone 0800 056 5566 in order that the Company's apparatus may be located at site and any necessary protection works agreed.
N.B. TRUST BORDERS OR MOLES MUST NOT BE USED WITHIN THE VICINITY OF ANY CABLES BELONGING TO UK POWER NETWORKS WITHOUT FIRST CONTACTING THIS COMPANY.

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

1. UK Power Networks Ltd does not warrant that the information provided to you is correct. You rely upon it at your own risk.
2. UK Power Networks Ltd does not exclude or limit its liability if it causes the death of a person or causes personal injury to a person where such death or personal injury is caused by its negligence.
3. Subject to paragraph 2, UK Power Networks Ltd has no liability to you in contract, in tort (including negligence), for breach of statutory duty or otherwise howsoever for any loss, damage, costs, 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 profits, loss of opportunity, loss of savings, loss of goodwill, loss of business, loss of use) or any special or consequential loss or damage whatsoever.

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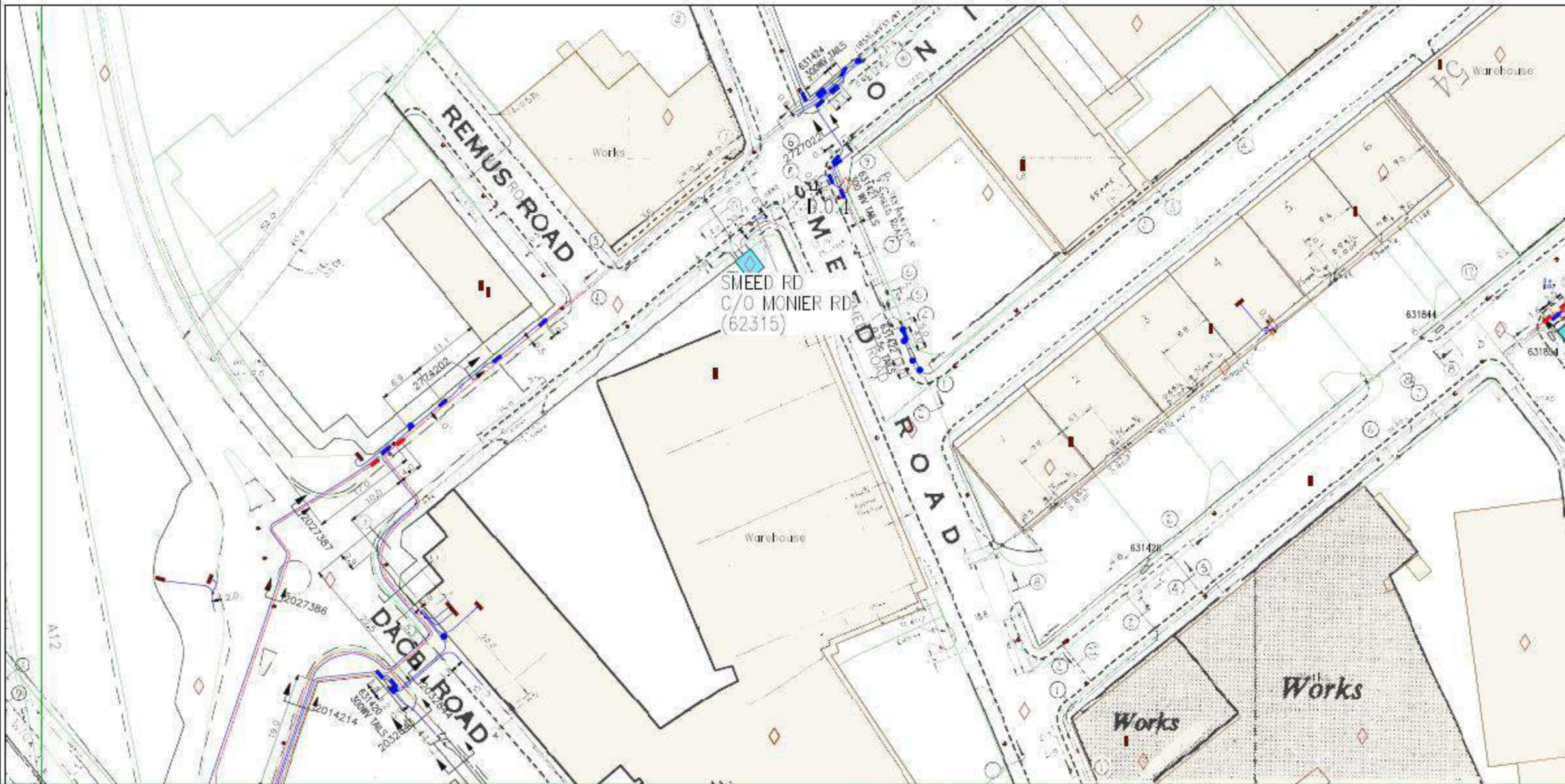
ADVICE TO CONTRACTORS ON AVOIDING DANGER FROM BURIED ELECTRICITY CABLES.

1. Do have cable drawings with you on site and check them before you start the excavation.
2. Do have a cable locating tool on site and use it to help you.
3. Mark out the location of electricity cables.
4. Do not use a mechanical excavator within 0.5m of electricity cables.
5. Use spades and shovels in preference to other tools.
6. Never disturb electricity cables and joints or their protective covers.

IF IN DOUBT - ASK PHONE 0800 056 5566
BIGBENNY - If you damage a cable or line
 Phone 0800 780 0760 (24hrs) UK ONLY

These basic safety precautions are explained in detail in the HSE booklet H5247 - Avoiding Danger from Underground Services, a copy of which may be obtained from your supervisor or HMSO.

Please be aware that electric lines belonging to other owners or licensed electricity distribution systems may be present and it is your responsibility to identify their location.



Printed On: 12/03/2015

File Description:

Map Centre: TQ57845W



For details of our cables please visit:
<http://www.ukpowernetworks.co.uk/cables>

PRIMARY CABLES
EXTRA HIGH VOLTAGE CABLES (EHV) 22,000 TO 132,000 Volts

Depth normally 750mm cover in carriageway & 600mm cover in footway.
 Before digging within one metre of these cable routes
 Telephone 0800 056 5856 in order that the Company's apparatus may be located
 at site and any necessary protection works agreed.

**N.B. THRUST BORERS OR MOLES MUST NOT BE USED WITHIN THE VICINITY OF ANY
 CABLES BELONGING TO UK POWER NETWORKS WITHOUT FIRST CONTACTING THIS
 COMPANY.**

1. The position of the apparatus shown on this drawing is believed to be correct but the original handbooks may have been altered since the apparatus was installed.
 2. The cover position of the apparatus should be marked - use approved cable avoidance tools prior to excavation using suitable hand tools.
 3. It is essential that trial holes are carefully made avoiding the use of mechanical tools or picks and the exact location of all cables have been determined.
 4. It must be assumed that there is a service cable in each property, lamp column and street furniture etc.
 5. All cables must be treated as being live unless proved otherwise by UK Power Networks.
 6. The information provided must be given to all people working near UK Power Networks' plant & equipment. Do not use plants more than 3 months after the issue date for excavation.
- UK Power Networks**
 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.

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3. Subject to paragraph 2, UK Power Networks Ltd has no liability to you in contract, in tort (including negligence), for breach of statutory duty or otherwise howsoever for any loss, damage, costs, 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 profits, loss of opportunity, loss of savings, loss of goodwill, loss of business, loss of use) or any special or consequential loss or damage whatsoever.

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**ADVICE TO CONTRACTORS ON AVOIDING DANGER
 FROM BURIED ELECTRICITY CABLES**

1. Do have cable drawings with you on site and check them before you start the excavation.
2. Do have a cable locator tool on site and use it to help you.
3. Mark out the location of electricity cables.
4. Do not use a mechanical excavator within 0.5m of electricity cables.
5. Use spades and shovels in preference to other tools.
6. Never disturb electricity cables and joints or their protective covers.

**IF IN DOUBT - ASK! PHONE 0800 056 5856
 B2B/EHCN - If you damage a cable or line
 Phone 0800 780 0780 (24hrs) UK-BNL**

These basic safety precautions are explained in detail in the HSE booklet H52417 - Avoiding Danger from Underground Services, a copy of which may be obtained from your supervisor or HMSO.

Please be aware that electric lines belonging to other owners of licensed electricity distribution systems may be present and it is your responsibility to identify their location.



Network Records NetMAP Symbols Booklet - London

This symbol booklet is intended as a general guide only - some local variations of these symbols may be found.

Version 1.2
Released October 2010

Index:-

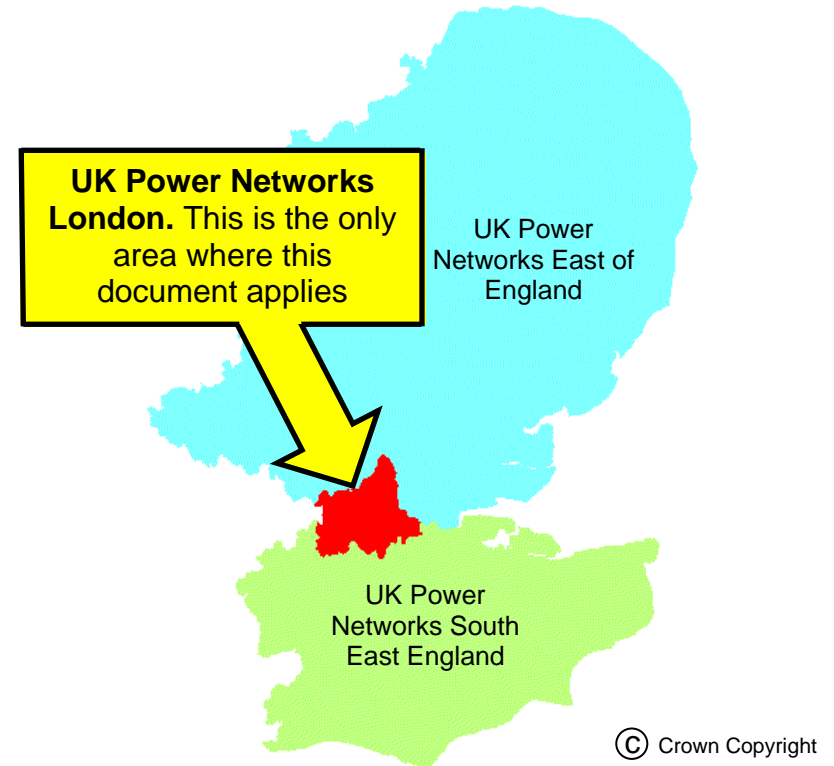
Page no:	Contents:
1	Guidance notes.
2	The area covered by this guide.
3	Scenery.
4	Scenery (UK Power Networks use only-boxed red)
7	Primary distribution cables (EHV).
8	Secondary distribution cables (LV/HV).
9	Cable terminology.
10	Cable size abbreviations.
11	Cable ducts.
12	Other NetMAP symbols.
15	Services.
17	Symbols used in cross sections.
19	Abbreviations used in cross sections.
20	Typical plan and cross section representations: <ul style="list-style-type: none">All areas: NetMAP/vector.All areas: composite raster style 1.Ex-Western area and Holborn: main and ways.The City of London: single line.Finsbury and Shoreditch: multi-single line style 1.Ex-North Eastern area: HV/LV.Ex-North Eastern area: multi-single line style 2.Ex-North Eastern area: composite raster style 2.
23	Regional NetMAP anomalies - general overview.
24	Region 1: ex-Western area.
25	Region 2: ex-Northern area.
27	Region 3: ex-North eastern area.
29	Region 4: ex-South Eastern area.
30	Region 5: ex Southern area.

Guidance notes.












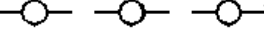




- The position of apparatus shown on NetMAP is believed to be correct, but the original landmarks may have altered since the apparatus was installed.
- It must be assumed that there is at least one service to each property, lamp column, street sign etc. A separate record may be available.
- When excavations are to be carried out near Extra High Voltage (EHV) cables, further 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.
- 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.










The area covered by this guide:










Please see the anomalies map at the end of this safety booklet for greater map area detail, and a breakdown of the more significant anomalies within the London area.

Scenery		
NetMAP system	Scanned image	Description
		100 metre Ordnance Survey grid line (on O/S based maps only)
		Property fence line
		Building line
		Kerb line
		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
		

Scenery for UK Power Networks use only - boxed in red		
NetMAP system	Scanned image	Description
 Inset Network – Contact xxxx IDNO for further information	Not applicable	Area of inset network - not the asset of UK Power Networks (only visible to UK Power Networks and their immediate contractors)
	Not applicable	Proposed Cross Rail route (only visible to of UK Power Networks and their immediate contractors)
	Not applicable	High pressure pipelines in the general vicinity (only visible to of 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>		
	Not applicable	Water - surface water (only visible to UK Power Networks and their immediate contractors)
	Not applicable	Water - Source Protection Zone 1 (only visible to UK Power Networks and their immediate contractors)
	Not applicable	Water - Source Protection Zone 2 (only visible to UK Power Networks and their immediate contractors)
	Not applicable	Water - Source Protection Zone 3 (only visible to UK Power Networks and their immediate contractors)









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Scenery for UK Power Networks use only - boxed in red






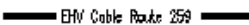

NetMAP system	Scanned image	Description
	Not applicable	Historical - Scheduled Monuments (only visible to UK Power Networks and their immediate contractors)
	Not applicable	Historical - Parks and Gardens (only visible to UK Power Networks and their immediate contractors)
	Not applicable	Historical - Areas of Archaeological Potential (AAP) (only visible to UK Power Networks and their immediate contractors)
	Not applicable	Nature - Ramsar Wetlands of International Importance (only visible to UK Power Networks and their immediate contractors)
	Not applicable	Nature - Special Area of Conservation (SAC) (only visible to UK Power Networks and their immediate contractors)
	Not applicable	Nature - Special Protected Area (SPA) (only visible UK Power Networks and their immediate contractors)
	Not applicable	Nature - Site of Special and Scientific Interest (SSSI) (only visible to UK Power Networks and their immediate contractors)

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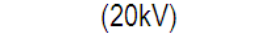
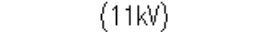

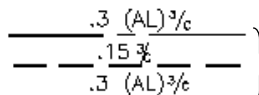

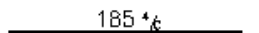

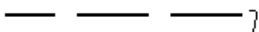







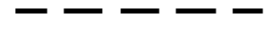
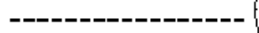
Scenery for UK Power Networks use only - boxed in red

NetMAP system	Scanned image	Description
	Not applicable	Nature - Local Nature Reserve (only visible to UK Power Networks and their immediate contractors)
	Not applicable	Nature - National Nature Reserve (only visible to UK Power Networks and their immediate contractors)
	Not applicable	Nature - Area of Outstanding Natural Beauty (AONB) (only visible to UK Power Networks and their immediate contractors)
	Not applicable	Nature - National Park (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)
	Not applicable	Fluid filled cables - high sensitivity (only visible to UK Power Networks and their immediate contractors)
	Not applicable	Fluid filled cables - medium sensitivity (only visible to UK Power Networks and their immediate contractors)
	Not applicable	Fluid filled cables - low sensitivity (only visible to UK Power Networks and their immediate contractors)

Primary distribution cables

NetMAP system	Scanned image	Description
 Solid  Gas  Oil  Cable stop  Shallow	 EHV Cable Route 259 Not applicable 	UK Power Networks route (11,000 , 22,000 to 132,000 volts) Oil/gas cable stop Part of UK Power Networks cable route where cover is less than normal

Secondary distribution cables

NetMAP system	Scanned image	Description
 (20kV)  (11kV)  (6.6kV)		HV cable (up to 20kV)
		3 phase LV cable (230V or 400/230V)
		1 or 2 phase LV cable (230V or 400/230V)
		Pilot or Telephone cable, often not shown in plan if running with other cables
	Not applicable	Fibre-optic cable
		Earth cable
		HV or LV cable in duct
		Duct route(s) not containing live cables

Cable terminology		
NetMAP system	Scanned image	Description
PL	PL	Paper Lead
PLS	PLS	Paper Lead Served
PLST or PLSW	PLA	Paper Lead Armoured
PLSTS	PLTS	Paper Lead Steel Tape Served
PLSTS	PLDT	Paper Lead Double Tape
PLSWS	PLWS	Paper Lead Steel Wire Served
PLSW	PLBW	Paper Lead Bright Wire
PLS	LC & H	Lead Covered & Hessian
PLST or PLSW	LC & A	Lead Covered & Armoured
PLSW	LC & BA	Lead Covered & Bright Armoured
PLST	DSTA	Double steel tape armoured
PLST	STA	Steel Tape Armoured
PLSW	SWA	Steel Wire Armoured
Al	Al	Aluminium
Cu	Cu	Copper
WV	WV	Waveconal
CS	CS	Cansac
PVC	PVC	Polyvinyl Chloride
EPR	EPR	Ethylene Propylene Rubber
XLPE	XLPE	Cross Linked Polyethylene
SOL	SOLIDAL	Solid Aluminium
ax	TRIPLEX	Triplex (aluminium)
cx	TRIPLEX	Triplex (copper)

Cable size abbreviations		
NetMAP system	Scanned image	Description
1c	$\frac{1}{c}$	Single core.
c/c	$\frac{c}{c}$	Concentric cores
t/c	$\frac{T}{c}$ or T/cc	Triple concentric cores
4c	$\frac{4}{c}$	Four cores
3c CNE	$\frac{3}{c}$ (CNE)	Three cores and concentric neutral – not of the Waveconal type
2c	$\frac{2}{c}$ (or Tw)	Two cores (or twin)
s/c	$\frac{s}{c}$	Split concentric cores
3c	$\frac{3}{c}$	Three cores
DC	DC	Direct current
P	P	Pilot
Pr	Pr	Number of telephone pairs

Cable ducts		
NetMAP system	Scanned image	Description
		Single empty ducts
		Cluster of empty ducts (two or more)
		Cable in single duct
		Group of cables shown in a cluster of ducts, plus one or more empty (shown in section)
		Ex-Western area 'ways' maps: This symbol indicates one or more ducts.
		On City of London area maps "extent of ducts" symbols are not in general use as most duct runs are between pits or boxes

Other NetMAP symbols		
NetMAP system	Scanned image	Description
<u>0.3 4c AL PLSWS</u> (Details also in cable attributes and/or section)		Cable size (and year laid)
		Cable capped end
		Cable pressure (or pot) end or signal end
		Pressure/pot end & earth cable/electrode
		Earth rod (vertical)
		Earth rod (horizontal)
		Earth plate
		Earth plate or end
		Straight joints
		Tee joints
		Crutch (or spur) joints (CJ)
		Straight & crutch joints combined (S&CJ)
		Double crutch (or spur) joint
		Sleeve

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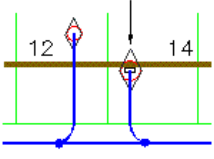
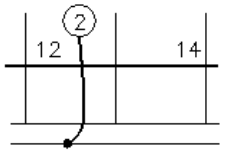
Other NetMAP symbols




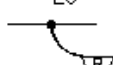

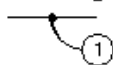
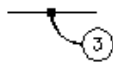
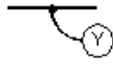

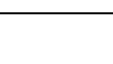
NetMAP system	Scanned image	Description
		Four way underground disconnecting boxes(DB)
		Link boxes(LB)
		Network boxes(NB) or (NWB)
		4 way 6 entry
		6 way box
		6 way 8 entry
		Split bus-bar
		Link box with identification number
		3 way underground disconnecting boxes
		2 way underground disconnecting boxes
		1 way underground disconnecting boxes
		Feeder pillars
		Split bus-bar distribution pillar
		Double bus-bar distribution pillar
		Blind pit/pit
		Pit with access

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
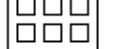



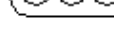




Other NetMAP symbols

NetMAP system	Scanned image	Description
		Transformer chambers (T/C) & transformer compounds
		Underground transformer chamber
		Missing data in or near this location
		Underground tank
		Indicates service between separate buildings is looped
		Jointing schedule numbers or phasing diagram
		Contaminated land reference
		Instrument traced cable or ITC - cable traced electronically using Cable Avoidance Tool (CAT) or similar

Services		
NetMAP system	Scanned image	Description
SRC = Service Record Card		
To a property/metered supply (also see SRC)		
<p>Address point ◇</p> <p>Supply point ○</p> <p>Also see SRC and joint/cable attributes</p> <p>Service in external cabinet</p>  <p>Also see SRC and joint/cable attributes</p>	<p>Also see SRC</p> <ul style="list-style-type: none"> Ⓜ Single phase service ① Connected to 1 core & neutral Ⓡ Connected to red core & neutral ⊕ Three phase service ⊕ Connected to inner & outer cores of triple conc cable ⊖ Connected to middle & outer cores of triple conc cable ⊕ Connected to all three cores of triple conc cable  <p>ROYAL MEWS</p>	<p>Single phase service</p> <p>Connected to 1 core & neutral</p> <p>Connected to red core & neutral</p> <p>Three phase service</p> <p>Connected to inner & outer cores of triple conc cable</p> <p>Connected to middle & outer cores of triple conc cable</p> <p>Connected to all three cores of triple conc cable</p> <p>Existence of a service with its core connection shown in circle</p>
section continued on next page		













Services		
NetMAP system	Scanned image	Description
To street furniture/un-metered supply (also see SRC)		
<p>Please note that newly edited street furniture no longer has an address point or an SRC</p>  <p>(Street furniture general)</p>  <p>(Street furniture feeder pillar or cabinet)</p>	 <p>P.L.S.261 Public lighting</p>  <p>S.L.261 Street lighting</p>  <p>WB Wall bracket</p>  <p>TL Traffic light control</p>  <p>FB Flashing beacon</p>  <p>TS Traffic sign</p>  <p>B IGP Bollard/illuminated guard post</p>  <p>TK,TC TK,TC TCB FP Telephone kiosk, traffic controller, feeder pillar</p>	<p>Public lighting</p> <p>Street lighting</p> <p>Wall bracket</p> <p>Traffic light control</p> <p>Flashing beacon</p> <p>Traffic sign</p> <p>Bollard/illuminated guard post</p> <p>Telephone kiosk, traffic controller, feeder pillar</p>

Symbols used in cross sections

NetMAP system	Scanned image	Description
		Cable laid direct
		Cable laid in duct
		Blocked duct (sometimes used for unidentified cables)
		Single earthenware duct
		Single steel pipe
		Square cable duct
		Group of circular ducts
		Group of circular ducts (Sykes)
		Group of square ducts (Doulton)
		Cable trough
		Bitumen casing (Crompton)
		Bitumen filled iron trough (Trunks)
		Bitumen casing (Tri-case)

section continued on next page

Symbols used in cross sections

NetMAP system	Scanned image	Description
		Protective slab
		Tiles.
		Concrete slabs
		Steel plate
		Plastic tile tape
Timber 		Timber

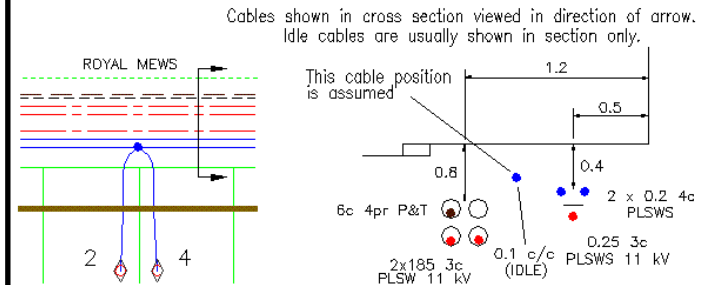
Abbreviations used in cross sections

NetMAP system	Scanned image	Description
EW	E.W.D(s) or EW.	Earthenware ducts
F	F.P or F or F.D	Fibre duct
A	ASB or A	Asbestos
P	P	Plastic or pitch fibre
S	S.P or S	Steel
C	C.I or C or C.I.P	Cast iron
WI	W.I	Wrought iron pipe
F	F or F.D	Fibre duct
PRD	PRD	Plastic Rigiduct
Left blank – means NR	{ D.N.K or D:NR N.R or (N.R)	Depth not known No record
E.V	E.V.P or E.V	Everite pipe
T/T	T/T	Tape Tile
N/A	3/62 or NOV 79	Date cable laid
N/A—destination now only shown in cable attribute	ABCD etc	HV cable destination (See section sheet HV ref)
	Please note: Ducts are assumed to be 4"/100mm earthenware – unless otherwise stated	

Typical plan and cross section representations

Multi-line composite NetMAP/vector representation

All areas – drawn/redrawn using NetMAP GIS

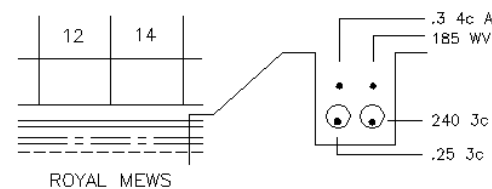


Applies to all composite vector records in both shaded and unshaded areas of the anomalies map.

Multi-line representation - general composite raster (style 1)

All areas

All cables are shown on plan and represented in section.
Sections may be shown in plan view or on a supplementary sheet.

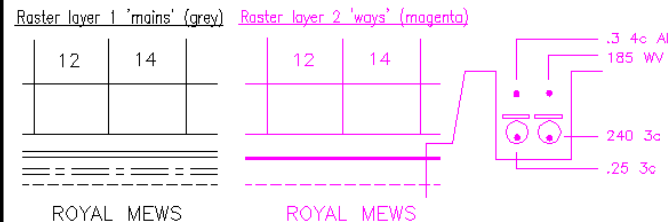


Applies to all composite raster records within the unshaded areas of the anomalies map.
Can also be found in some shaded areas – in particular the ex-North Eastern shaded areas 3 (b) and 3 (c)

Main and ways representation – dual layer raster

Ex Western area Holborn and parts of Ex-South Eastern Area only

All cables are shown on plan and represented in cross section on a separate (ways) sheet.



Applies to area 1(a) of the anomalies map.

Applies to area 2(a) of the anomalies map.

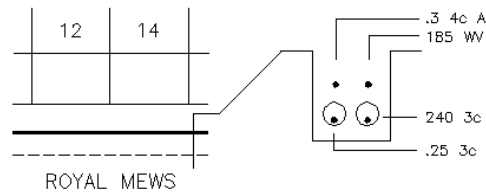
Typical plan and cross section representations

Single line representation - raster or vector data

The City of London only

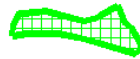
All cables are shown as a single line in plan.
Sections may be written and not drawn.

OR this style may be used.



1-3 way Tricase
2-2½" steel pipes
1-6 way Doulton
.4% (L.V. cable)

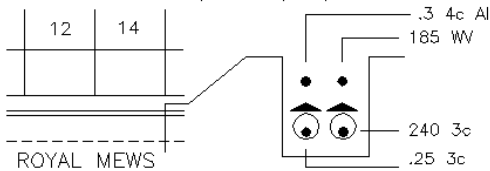
Applies to area 2(b)
on the anomalies map.



Multi-single line representation general (style 1)

Finsbury and Shoreditch only

Only the top cables in a vertical cable run are shown in the plan view. See the example below.
Note that the two lower cables that are in ducts (in this instance), are not shown in plan.
Therefore cross sections are particularly important, as each line represents one or more cables.



Applies to area 2 (c)
of the anomalies map.

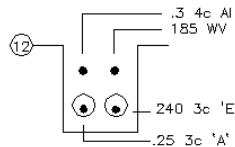
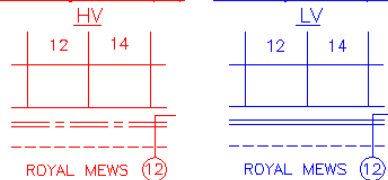


HV and LV map representation – dual layer raster

Ex-North Eastern area only

HV and LV cables are shown on separate raster layers. These layers MUST be read in conjunction with each other. Sections are shown on a combined supplementary section sheet in numerical sequence.

Raster layer 1 HV (red) Raster layer 2 LV (blue) Separate raster section sheet



Applies to area 3(a)
of the anomalies map.

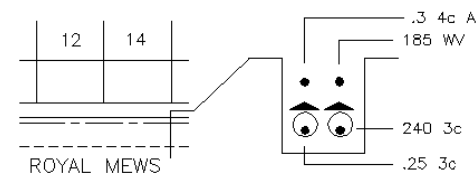


Typical plan and cross section representations

Multi-single line representation general (style 2)

Ex-North Eastern area only

In this area each voltage (HV and LV) is represented as an individual line. For example, three HV cables and four LV cables in the same run will be indicated by a single HV line and a single LV line. Therefore cross sections are particularly important, as each line represents one or more cables of that voltage.



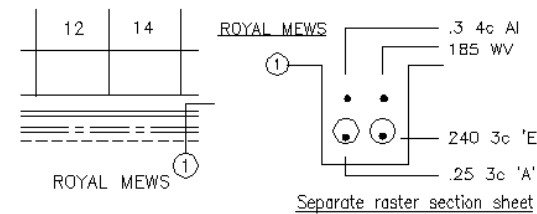
Applies to area 3 (b)
of the anomalies map.



Multi-line representation - composite raster (style 2)

Ex North Eastern area only

All cables are individually shown in plan.
Sections are shown on a supplementary section sheet and recorded under the relevant road name.



Applies to area 3(c)
of the anomalies map.



Important note regarding sections:

It does not follow that if the number of cables shown in the cross section have been located, that all live cables have been found. You may have found an unrecorded cable, or a cable belonging to another authority.

Regional NetMAP Anomalies - general overview:

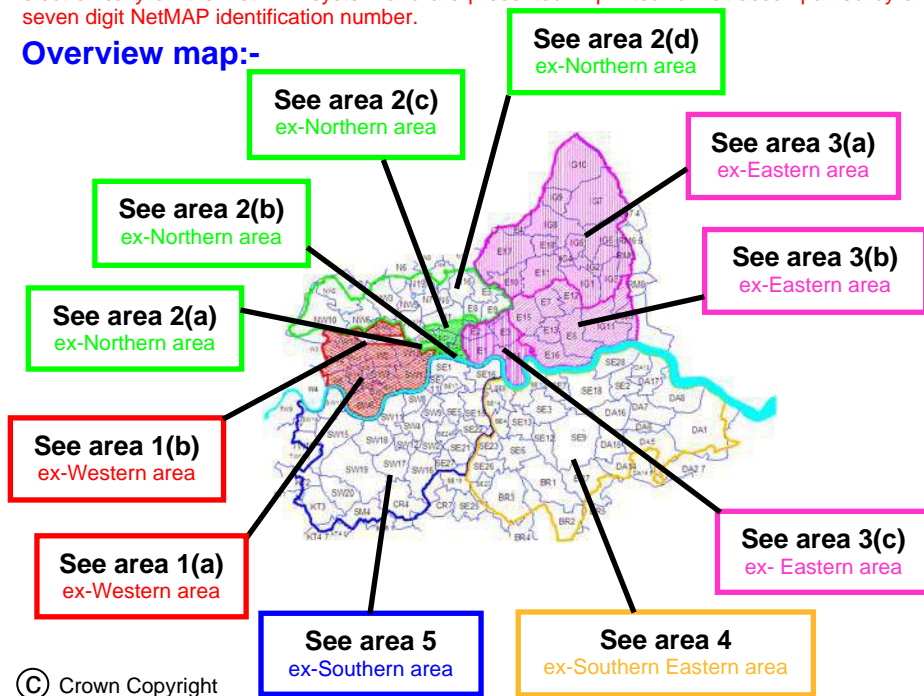
The following pages explain the various major map style anomalies found within the London area. These styles are a legacy from the five individual London Electricity areas which were again formed from seventeen separately organised LEB districts. Areas with significant anomalies are shown in the following pages as cross-hatched areas. Areas with standard composite vector and raster layer information are shown as un-hatched areas.

Cautionary note: - any region or sub-region, either shaded or un-shaded, may contain some local anomalies not mentioned in the following pages – if in doubt, please contact the UK Power Networks Plan Provision team on telephone number 08701 963797.

All regions (1-5) will contain recently created composite vector (NetMAP/AutoCAD) data.

Recent work created using the NetMAP system and previously created using the AutoCAD system (as opposed to raster/scanned data) are recorded in the composite vector style shown on the UK Power Networks London area symbol sheet - see the first example on page 18 of this document. Recent data will be indicated by the existence of multi-coloured cables on the NetMAP system, but this may not be reflected on printed matter produced with a black and white printer. AutoCAD data looks similar to the coloured NetMAP data, but does not hold any cable 'attributes' when selected using the NetMAP system. These cables will be represented individually (multi-line representation). New NetMAP cross sections may be accessed electronically on the NetMAP system and are presented in printed format accompanied by a seven digit NetMAP identification number.


Overview map:-



See following pages for further details.

Region 1 ex-Western area

This region includes Westminster, Kensington, Chelsea, Hammersmith and Fulham. The region is covered by two map layer systems – **region 1(a)** mains and ways dual layer raster, and **region 1(b)** composite raster. The following explains this in greater detail.

Region 1(a) (hatched )

Mains and ways representation:

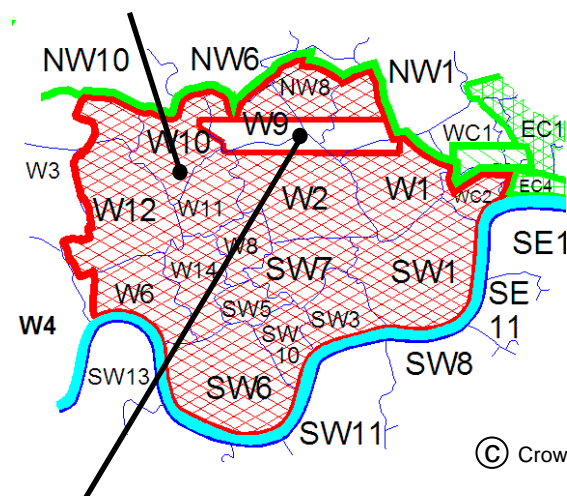
This system consists of two maps layers for the same area.


- i) The mains map shows all cable routes.
- ii) The ways map shows pipe and duct routes with cross sections.

There are some enlargement sheets, cross sections and jointing details. EHV routes are shown on either the mains or the ways map.

It is important that all these maps are read in conjunction with each other.

Caution: - It is also important to note that the kerb line detail on these maps is a dash/dot line, which on the majority of UK Power Networks Central (London) records would refer to an HV cable route. HV cables are shown as a solid line when laid direct and a dashed line when in a duct.



Region 1(b) (un-hatched )

Composite single layer (style 1) maps:

Whenever possible, all the information is on one map layer. There are some enlargement sheets in the Aberdeen Place area. Please note that the kerb line is shown as a dotted line and HV cables are shown as dash/dot lines.

Region 2 ex-Northern area

This region includes Islington, Hackney, the City of London and parts of Brent, Camden and Ealing. The region is covered by four map layer systems - **Region 2(a)** - mains and ways dual layer raster (Holborn area), **Region 2(b)** - single line representation (City of London), **Region 2(c)** - multi-single line representation (Finsbury and Shoreditch) and **Region 2(d)** - composite multi-line maps (all other areas). This following explains this in greater detail.

Region 2(a) (hatched)

Covers part of WC1 and WC2 (Holborn).

Mains and ways representation:

This system consists of two maps layers for the same area.

- i) The mains map shows all cable routes.
- ii) The ways map shows pipe and duct routes with cross sections.

Where needed, extra sheets have been added for enlargements, cross sections and jointing details. EHV routes are shown on the mains map layer.

It is important that all these maps are read in conjunction with each other.

Caution: - It is also important to note that the kerb line detail on these maps is a dash/dot line, which on the majority of UK Power Networks Central (London) records would refer to an HV cable route. HV cables are shown as a solid line when laid direct and a dashed line when in a duct.



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Region 2(b) (hatched)

Covers parts of postal areas EC1, EC2 and all of postal areas EC3 and EC4.

Single line representation maps:

Whenever possible, all the information is on one map layer. One line can represent any number of cables or ducts. It is therefore very important to use cross sections. In some cross sections details may be written and not drawn. In complex and redrawn areas, some detail may be drawn using multi-line representation. There are some enlargement sheets.

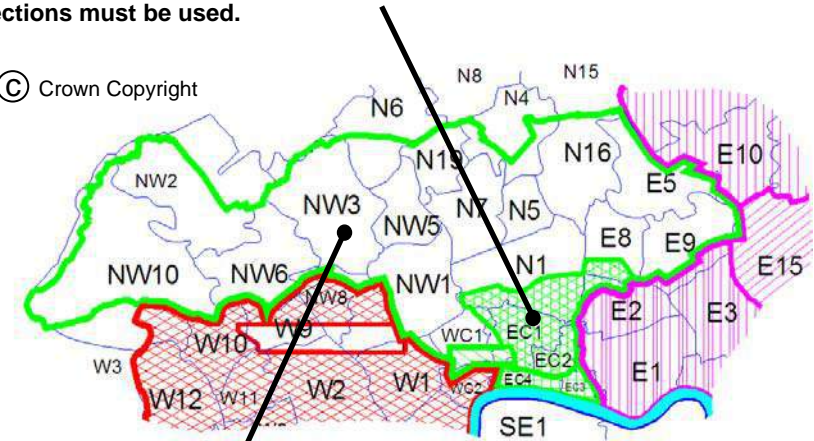
Region 2(c) (hatched)

Covers parts of postal areas EC1, EC2, N1, E1, E2 and E8.

Multi-single line representation (style 1) maps:

Whenever possible, all the information is on one map layer. When cables lay immediately above/below each other, it is shown as a single line. For example if six cables lay three on three, only three lines would indicate the six cables. If the cables were laid flat, six separate lines would be shown. It is therefore important not to assume that the lines drawn indicate the number of cables, at any point. **Cross sections must be used.**

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Region 2(d) (un-hatched)

Covers all other postal areas in this region

Composite single layer (style 1) maps:

Whenever possible, all the information is on one map layer. There are some enlargement sheets.

Region 3 ex-North Eastern area

This region includes Tower Hamlets, Newham, Redbridge, Waltham Forest, Loughton (Epping) and Barking and Dagenham. This region is covered by three mapping systems.

Region 3(a) (hatched)

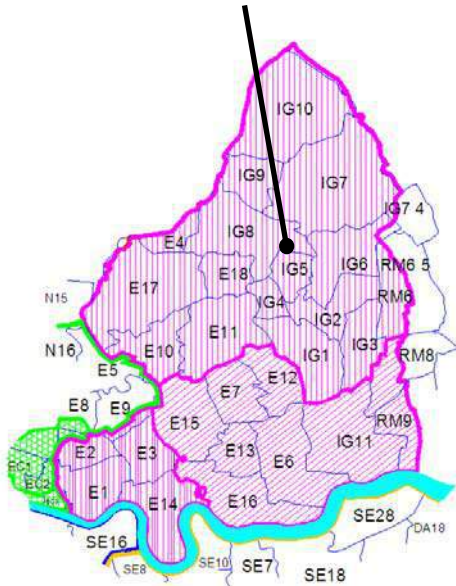
Separate HV and LV representation maps:

This system consists of two maps layers for the same area.

- i) The HV map layer showing HV cables and duct routes.
- ii) The LV map layer showing LV cables and duct routes.

Cross sections for both HV and LV cable routes are shown on a separate sheet. EHV cable routes are shown on the HV map layer.

It is important that all these maps are read in conjunction with each other.

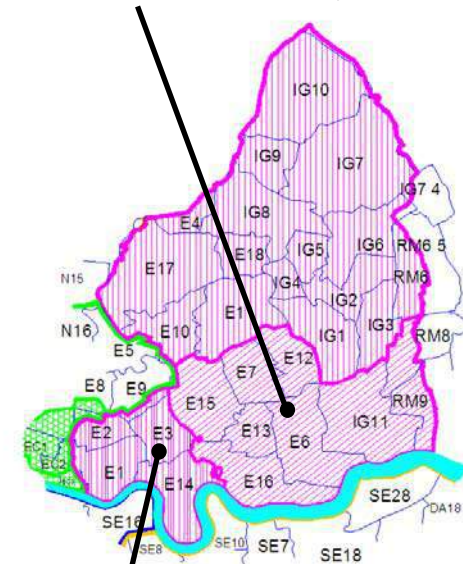


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Region 3(b) (hatched)

A combination of composite single layer (style 1) and multi-single line (style 2):

Whenever possible, all the information is on one map layer. There are some enlargement sheets. There is a combination of map styles used in this area. Some areas may be conventional multi-line line representation with many areas of multi-single line representation. In the multi-line areas each (live) cable is shown individually in plan. In the multi-single line map areas, there is a single line for each voltage type, with a single HV line and a single LV line representing more than one cable run of each voltage (when applicable). Therefore a cable run containing three HV cable and four LV cables will be represented by one HV line and one LV line.



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Region 3(c) (hatched)

A combination of composite single layer (style 2) and multi-single line (style 2):

Whenever possible, all the information is on one map layer. There are some enlargement sheets. In this area (postal code areas E1, E2, E3, E14 and part of E9), the cross sections are listed under each road name. It is therefore extremely important that you have the correct cross sections for the road you are working in.

There is a combination of map styles used in this area. Most areas are composite single layer (style 2) with some areas of multi-single line representation, as described in region 3(b).

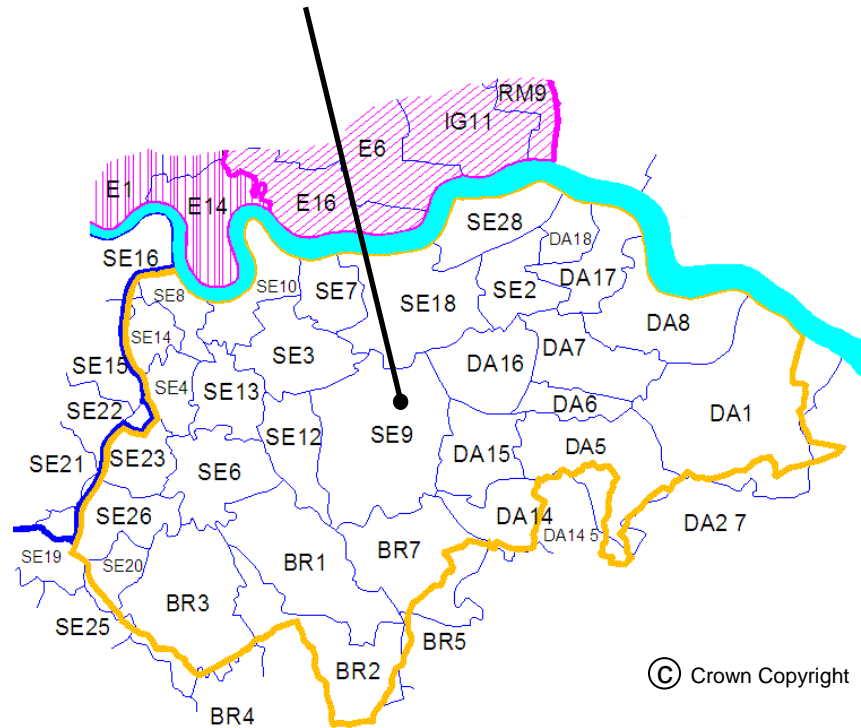
Region 4 ex-South Eastern area

This region includes Lewisham, Greenwich, Bromley, Bexley and Dartford.
Nearly all maps are drawn in one style – single layer composite raster/vector.

Region 4 (un-hatched)

Composite single layer (style 1) with a small number of mains and ways representation maps :

Mainly composite maps - whenever possible, all the information is on one map layer. There are some enlargement and cross section sheets. Some maps do not show single phase services unless they are long and deviating. There are however some maps drawn using the mains and ways style. These are rare, but please be aware that they exist.



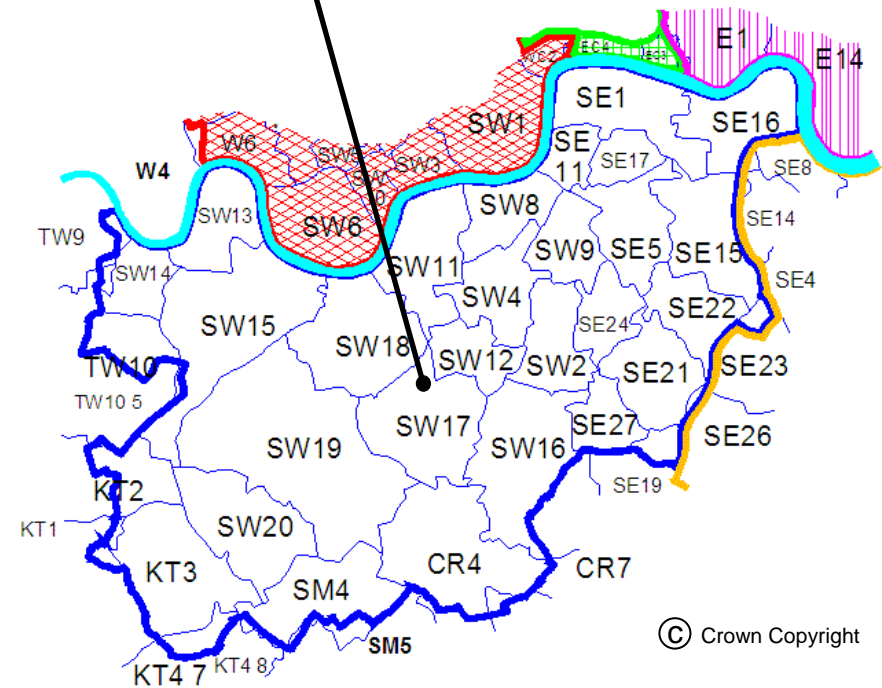
Region 5 ex-Southern area

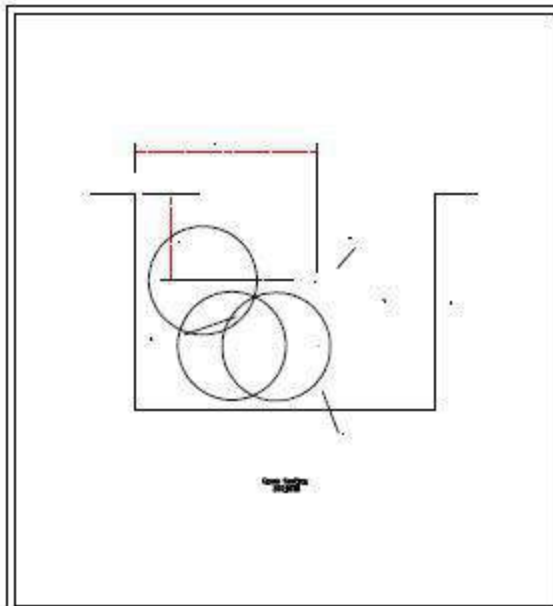
This region includes Southwark, Lambeth, Wandsworth, Merton, Kingston upon Thames and Richmond upon Thames. All maps are drawn to one style - single layer composite raster/vector.

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.





17 Y 205

ELIMINATE 80
DRAINAGE ROAD
DRAINAGE ROAD
DRAINAGE ROAD
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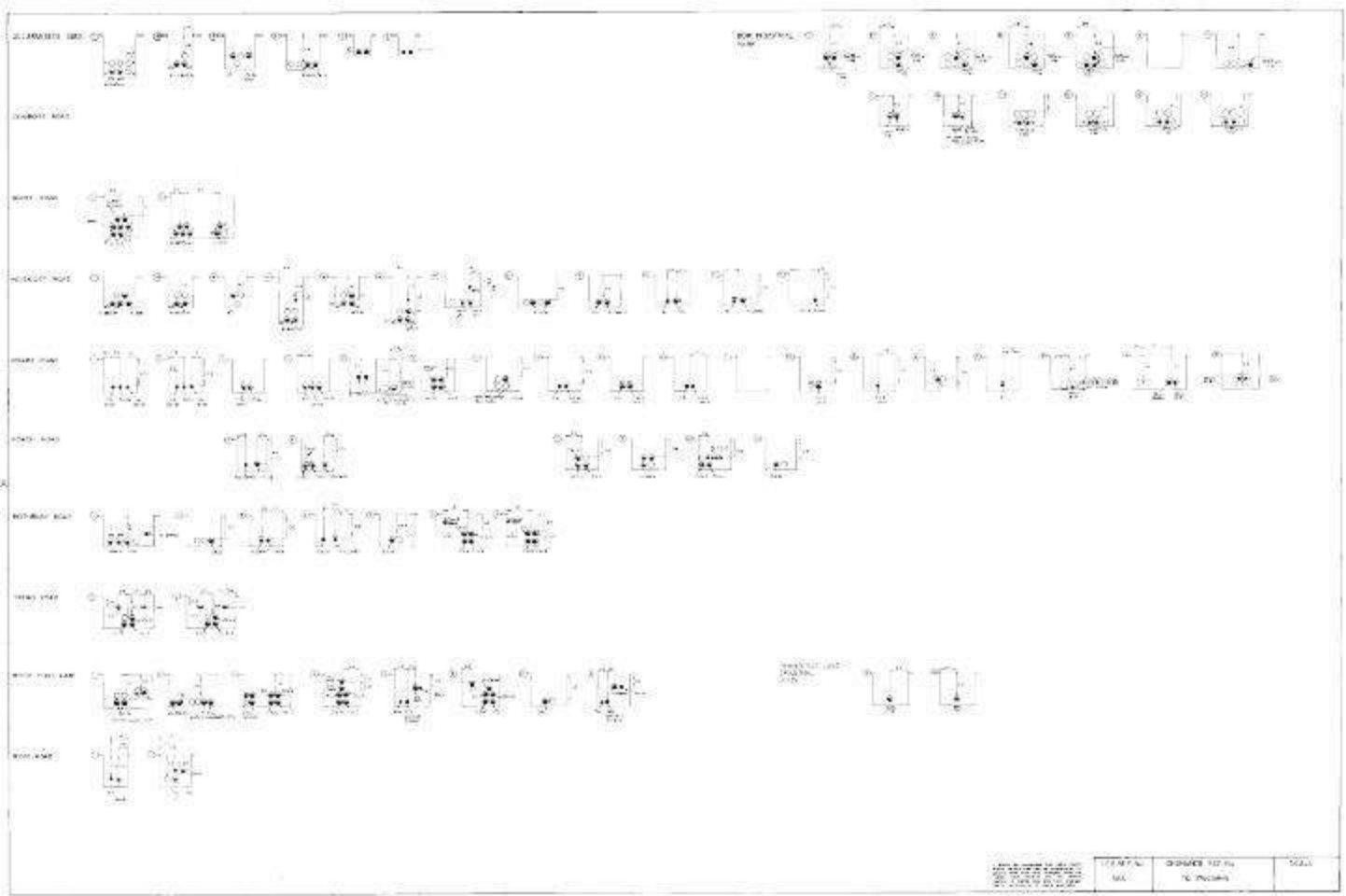
7A

GENERAL NOTES	
1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE MISSOURI DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.	2. ALL MATERIALS SHALL BE TESTED AND APPROVED BY THE MISSOURI DEPARTMENT OF TRANSPORTATION BEFORE USE.
3. ALL UTILITIES SHALL BE PROTECTED OR RELOCATED AS NECESSARY.	4. ALL EROSION CONTROL MEASURES SHALL BE INSTALLED AND MAINTAINED THROUGHOUT CONSTRUCTION.
5. ALL EXCAVATIONS SHALL BE PROTECTED FROM COLLAPSE AND WATER INFILTRATION.	6. ALL DRAINAGE STRUCTURES SHALL BE CONSTRUCTED TO THE DESIGN ELEVATION.
7. ALL PAVING SHALL BE CONSTRUCTED TO THE DESIGN THICKNESS AND COMPOSITION.	8. ALL CURBS AND GUTTERS SHALL BE CONSTRUCTED TO THE DESIGN ELEVATION AND PROFILE.
9. ALL SIGNAGE SHALL BE INSTALLED IN ACCORDANCE WITH THE MISSOURI DEPARTMENT OF TRANSPORTATION SIGNAGE MANUAL.	10. ALL UTILITIES SHALL BE DEEPENED TO THE DESIGN ELEVATION.
11. ALL UTILITIES SHALL BE PROTECTED BY FLAGGING AND BARRIERS.	12. ALL UTILITIES SHALL BE RELOCATED TO THE DESIGN ELEVATION.
13. ALL UTILITIES SHALL BE PROTECTED BY FLAGGING AND BARRIERS.	14. ALL UTILITIES SHALL BE RELOCATED TO THE DESIGN ELEVATION.



PROJECT INFORMATION		
PROJECT NO.	7A	DRAINAGE ROAD
DATE	10/15/2024	
DESIGNER	MISSOURI DEPARTMENT OF TRANSPORTATION	
CONTRACTOR		
SCALE	AS SHOWN	
SHEET NO.	10/15/2024	
TOTAL SHEETS	10/15/2024	
DATE	10/15/2024	
DESIGNER	MISSOURI DEPARTMENT OF TRANSPORTATION	
CONTRACTOR		
SCALE	AS SHOWN	
SHEET NO.	10/15/2024	
TOTAL SHEETS	10/15/2024	





12 1/2
100
100

GROUNDING

GROUNDING

GROUNDING

GROUNDING

GROUNDING

GROUNDING

GROUNDING

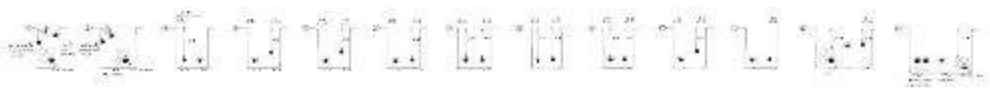
GROUNDING

GROUNDING

GROUNDING

GROUNDING

GROUNDING



GROUNDING SYSTEM

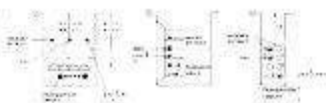
TO BRUCE-N

DATE

PLAN VIEW OF
SECTION 10000



PLAN VIEW OF
SECTION 10000



SCALE

SECTION 10000
SECTION 10000
SECTION 10000

SECTION 10000
SECTION 10000

SECTION 10000
SECTION 10000

SCALE

6A

6B

10000

3

10000
 9500
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1. GENERAL NOTES

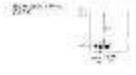
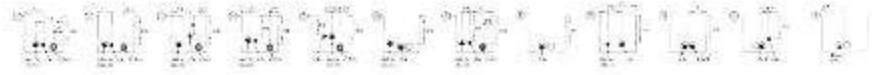
1. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, SEVENTH EDITION, 2003, AND THE LATEST EDITIONS OF THE STANDARD SPECIFICATIONS FOR MATERIALS, NINTH EDITION, 2003, PUBLISHED BY THE MISSOURI DEPARTMENT OF TRANSPORTATION.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES.
3. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL ADJACENT PROPERTIES AND UTILITIES AT ALL TIMES.
4. ALL UTILITIES SHALL BE PROTECTED AND DEEPENED AS NECESSARY TO MAINTAIN ADEQUATE COVER.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION AND REPAIR OF ALL EXISTING UTILITIES.
6. ALL EROSION CONTROL MEASURES SHALL BE INSTALLED AND MAINTAINED THROUGHOUT CONSTRUCTION.
7. THE CONTRACTOR SHALL MAINTAIN ADEQUATE DRAINAGE THROUGHOUT CONSTRUCTION.
8. ALL MATERIALS SHALL BE TESTED AND APPROVED BY THE MISSOURI DEPARTMENT OF TRANSPORTATION BEFORE USE.
9. THE CONTRACTOR SHALL MAINTAIN ADEQUATE RECORDS OF ALL CONSTRUCTION ACTIVITIES.
10. ALL WORK SHALL BE COMPLETED WITHIN THE SPECIFIED TIME FRAME.



CAUTION: THIS PLAN IS A PRELIMINARY DESIGN AND IS NOT TO BE USED FOR CONSTRUCTION WITHOUT THE APPROVAL OF THE MISSOURI DEPARTMENT OF TRANSPORTATION.

PROJECT NO.	DATE	SCALE	BY	CHECKED
703745W-5	10/15/10	AS SHOWN	J. SMITH	M. JONES
MISSOURI DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAY DESIGN AND CONSTRUCTION				

BOARD 10



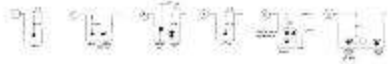
BOARD 12



BOARD 13



BOARD 14



BOARD 15

BOARD 16



BOARD 18



BOARD 19



BOARD 20 TO BOARD 23 (4)



BOARD 24



BOARD 25 TO BOARD 28 (4)



BOARD 29



BOARD 30



BOARD 31



BOARD 32

REVISIONS

REV. NO.

ISSUE DATE

BY

60

TD 27845W - 1

TOTAL PARTS
MANUFACTURING



LOWER FRAME



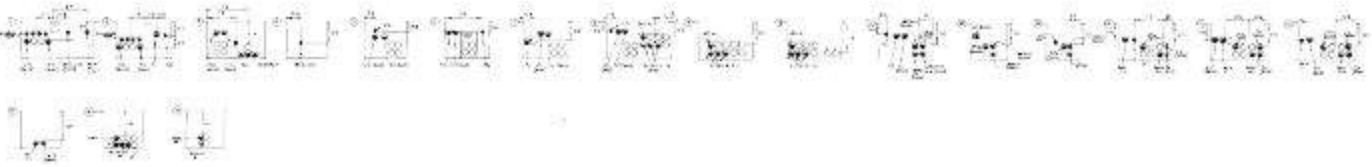
WHEELS



REAR COVER



SCREW



FOR DETAILS OF CABLES
IN THIS AREA REFER TO
THE RECORDS KEPT BY
THE NORTH-SOUTH RAIL OF
LONDON ELECTRICITY PLC

FOR DETAILS OF CABLES
IN THIS AREA REFER TO
THE RECORDS KEPT BY
THE NORTH-SOUTH RAIL OF
LONDON ELECTRICITY PLC

PLANT AND EQUIPMENT
A list of the plant and equipment to be used is given in the following table.

NO.	DESCRIPTION	QUANTITY	REMARKS
1
2
3
4
5
6
7
8
9
10



TO 3784 NE-S

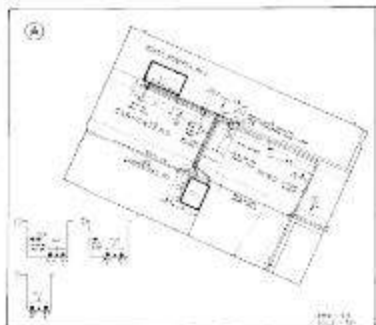


...

CAUTION ...

...





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FILE NO.	UNIVERSITY OF CALIFORNIA	SCALE
118	703754NE-5	AS SHOWN

Plan 146

14A

14B

NO.	DESCRIPTION	DATE
1
2
3
4
5
6
7
8
9
10

CAUTION

...

23A

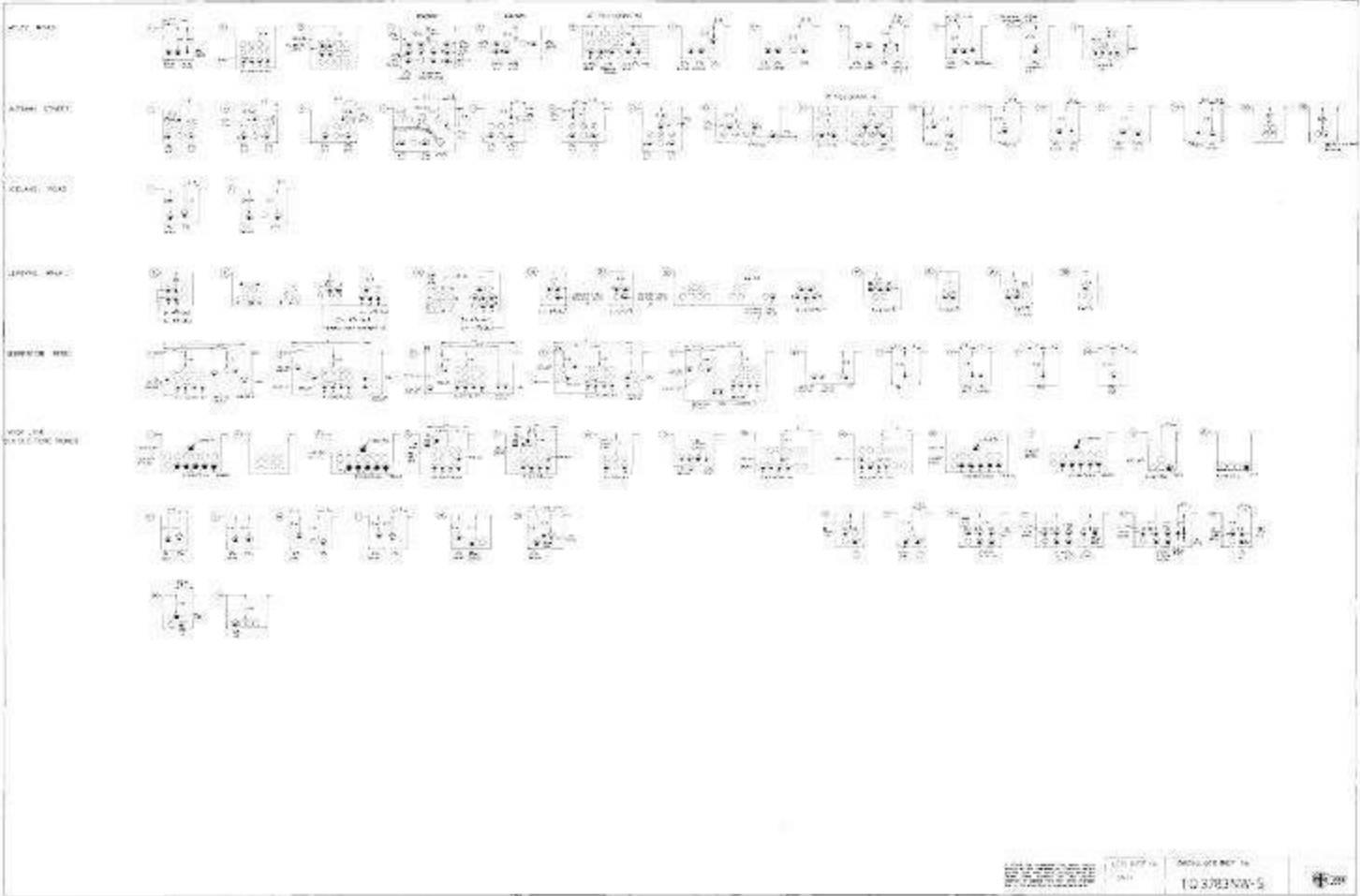
14B

14B

+

G

14B



CAUTION

1.5% TOLERANCE 0.5% TOLERANCE 0.1% TOLERANCE	1000 P.P.M. 5000 P.P.M. 10000 P.P.M.	1000 P.P.M. 5000 P.P.M. 10000 P.P.M.	1000 P.P.M. 5000 P.P.M. 10000 P.P.M.	1000 P.P.M. 5000 P.P.M. 10000 P.P.M.
--	--	--	--	--



Scale

10



AWL 1250

10



AWL 1250

CAUTION: IN APPROX.
CONSTRUCTION TO BE MADE AT THIS

DATE OF ISSUE
BY
REVISIONS

DATE OF
REV.

DATE OF REV.
TO 3753NW-S

SCALE
1:100

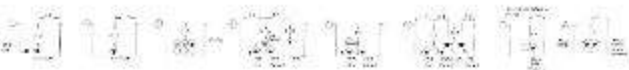
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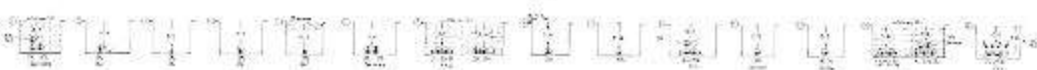
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000001002



000001003



000001004



000001005



000001006



000001007



000001008



000001009



000001010

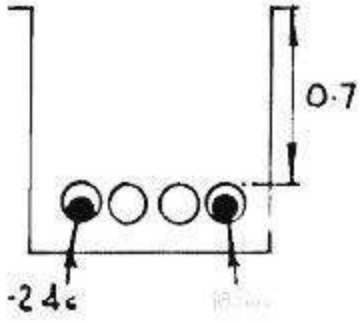


REVISIONS
DATE
BY

1964
J.H.

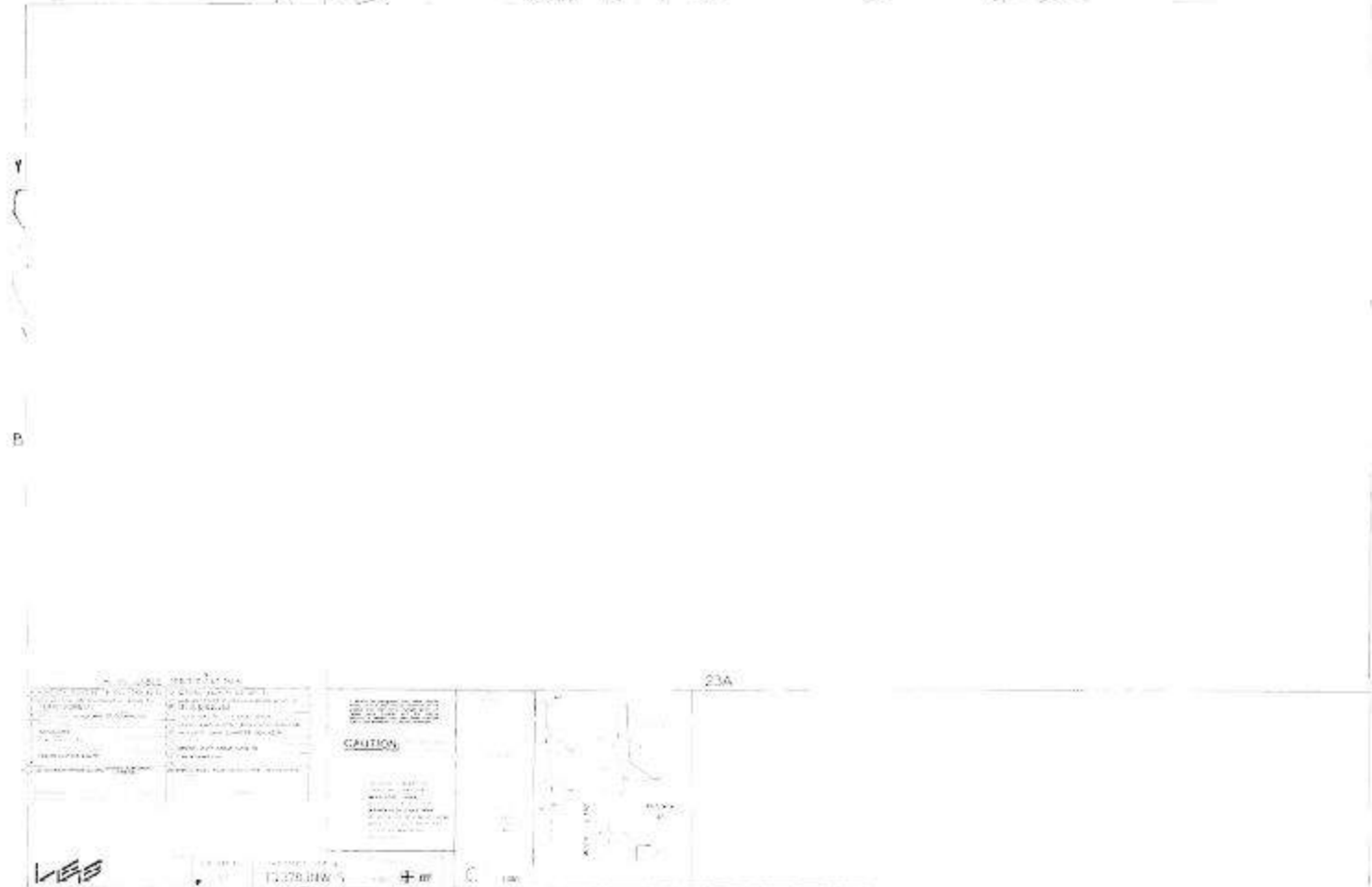
STANDARD
17-34841-12





Cross Section
1/10/2008

REVISED 4/6

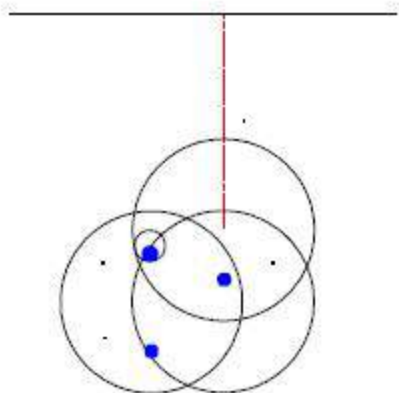


14B 100
14B 100
14B 100
14B 100
14B 100
14B 100
14B 100
14B 100
14B 100
14B 100

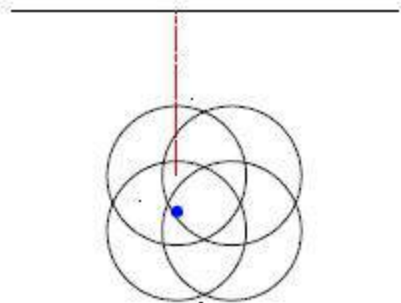
LES

1379.DW'5 + m

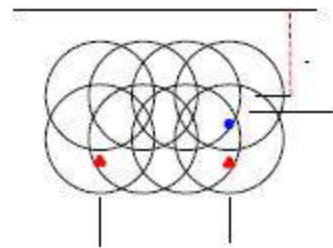
14 B



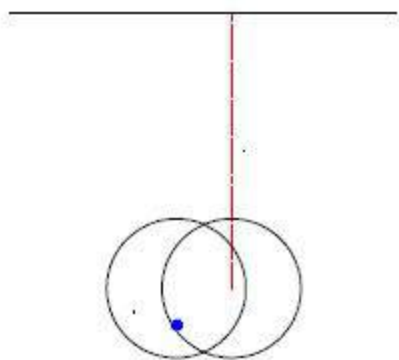
Cross Section
2008944



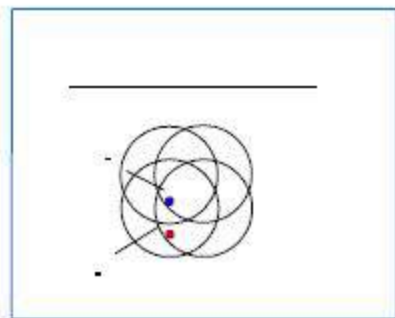
Cross Section
2008944



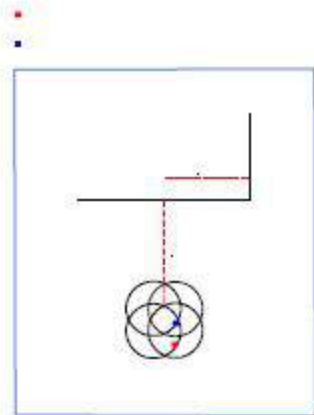
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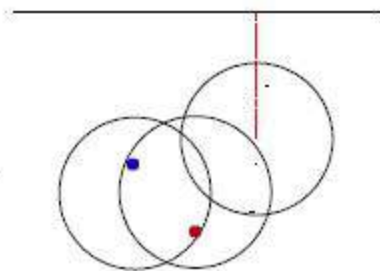
Cross Section
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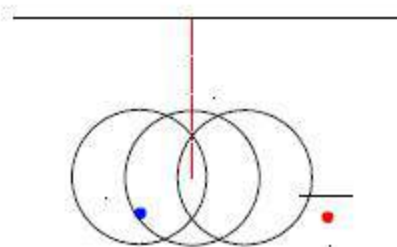
Cross Section
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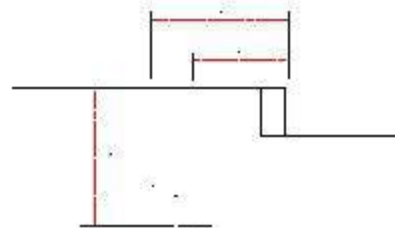
Cross Section
2008944



Circle Section
207988

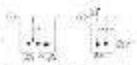


Circle Section
208943



Circle Section
208942

SWITCHES



SWITCHES (CONT'D)

SWITCHES



SWITCHES



SWITCHES



SWITCHES



SWITCHES



SEE NOTE 1

DATE: 10/20/64
DRAWN BY: [signature]
CHECKED BY: [signature]

SEE NOTE 1
DATE: 10/20/64
DRAWN BY: [signature]
CHECKED BY: [signature]



Stephen Sawyer
Technics Group
Technics House
Guildford
Guildford
Surrey
GU4 7WA

Date: 20/03/2015

Our Ref: NL_TE_Z5_3SWX_140163

Your Ref: GRS00347

RE: Proposed Works, Growing Concerns Garden Centre, 2 Wick Lane, Tower Hamlets, Greater London, E3 2NA

Thank you for your enquiry which was received on 20/03/2015.
Please note this response and any attached map(s) are valid for 28 days.

An assessment has been carried out with respect to National Grid Electricity Transmission plc's and National Grid Gas plc's apparatus. Please note it does not cover the items listed in the section "Your Responsibilities and Obligations", including gas service pipes and related apparatus.

As your works are at a "proposed" stage, any maps and guidance provided are for information purposes only. This is not approval to commence work. You must submit a "Scheduled Works" enquiry at the earliest opportunity and failure to do this may lead to disruption to your plans and works. National Grid will endeavour to provide an initial assessment within 14 days of receipt of a Scheduled Works enquiry and dependent on the outcome of this, further consultation may be required.

In any event, for safety and legal reasons, works must not be carried out until a Scheduled Works enquiry has been completed and final response received.

Your Responsibilities and Obligations

The "Assessment" Section below outlines the detailed requirements that must be followed when planning or undertaking your scheduled activities at this location.

It is your responsibility to ensure that the information you have submitted is accurate and that all relevant documents including links are provided to all persons (either direct labour or contractors) working for you near National Grid's apparatus, e.g. as contained within the Construction (Design and Management) Regulations.

This assessment solely relates to National Grid Electricity Transmission plc (NGET) and National Grid Gas plc (NGG) apparatus. This assessment does **NOT** include:

- National Grid's legal interest (easements or wayleaves) in the land which restricts activity in proximity to National Grid's assets in private land. You must obtain details of any such restrictions from the landowner in the first instance and if in doubt contact National Grid.
- Gas service pipes and related apparatus
- Recently installed apparatus
- Apparatus owned by other organisations, e.g. other gas distribution operators, local electricity companies, other utilities, etc.

This communication does not constitute any formal agreement or consent for any proposed development work; either generally or with regard to National Grid's easements or wayleaves nor any planning or building regulations applications.

NGG and NGET or their agents, servants or contractors do not accept any liability for any losses arising under or in connection with this information. This limit on liability applies to all and any claims in contract, tort (including negligence), misrepresentation (excluding fraudulent misrepresentation), breach of statutory duty or otherwise. This limit on liability does not exclude or restrict liability where prohibited by the law nor does it supersede the express terms of any related agreements.

ASSESSMENT

Affected Apparatus

The National Grid apparatus that has been identified as being in the vicinity of your proposed works is:

- Low or Medium pressure (below 2 bar) gas pipes and associated equipment. (As a result it is highly likely that there are gas services and associated apparatus in the vicinity)
- Electricity Transmission underground cables and associated equipment

Requirements

BEFORE carrying out any work you must:

- **Refer to the attached cable profile drawings (if any) which provide details about the location of National Grid's high voltage underground cables.**
- Carefully read these requirements including the attached guidance documents and maps showing the location of National Grid apparatus.
- Contact the landowner and ensure any proposed works in private land do not infringe National Grid's legal rights (i.e. easements or wayleaves). If the works are in the road or footpath the relevant local authority should be contacted.
- Ensure that all persons, including direct labour and contractors, working for you on or near National Grid's apparatus follow the requirements of the HSE Guidance Notes HSG47 - 'Avoiding Danger from Underground Services' and GS6 – 'Avoidance of danger from overhead electric power lines'. This guidance can be downloaded free of charge at <http://www.hse.gov.uk>
- In line with the above guidance, verify and establish the actual position of mains, pipes, cables, services and other apparatus on site before any activities are undertaken.

GUIDANCE

Electricity Underground Cables Guidance:

<http://www.nationalgrid.com/NR/rdonlyres/1174F509-0F16-4B68-8CF6-63FE27919E0A/51895/ElectricityUndergroundCableguidance.pdf>

Excavating Safely - Avoiding injury when working near gas pipes:

http://www.nationalgrid.com/NR/rdonlyres/2D2EEA97-B213-459C-9A26-18361C6E0B0D/25249/Digsafe_leaflet3e2finalamends061207.pdf

Standard Guidance

Essential Guidance document:

<http://www.nationalgrid.com/NR/rdonlyres/6D6525F9-59EB-4825-BA89-DBD7E68882C7/51319/EssentialGuidance.pdf>

General Guidance document:

<http://www2.nationalgrid.com/WorkArea/DownloadAsset.aspx?id=35103>

Excavating Safely in the vicinity of gas pipes guidance (Credit card):

<http://www.nationalgrid.com/NR/rdonlyres/A3D37677-6641-476C-9DDA-E89949052829/44257/ExcavatingSafelyCreditCard.pdf>

Excavating Safely in the vicinity of electricity cables guidance (Credit card):

<http://www.nationalgrid.com/NR/rdonlyres/35DDEC6D-D754-4BA5-AF3C-D607D05A25C2/44858/ExcavatingSafelyCreditCardelectricitycables.pdf>



ID: NL_TE_Z5_3SWX_140163
 USER: utilityreports
 DATE: 20/03/2015
 DATA DATE: 19/03/2015
 REF: GRS00347
 MAP REF: TQ3684
 CENTRE: 536838, 184052

View extent: 1445m, 785m

LP MAINS	
MP MAINS	
IP MAINS	
LHP MAINS	
NHP MAINS	

0m 100m
 Approximate scale 1:5000
 on A4 Colour Landscape

Map not to be used for construction

This plan shows those pipes owned by National Grid Gas plc in its role as a Licensed Gas Transporter (GT). Gas pipes owned by other GTs, or otherwise privately owned, may be present in this area. Information with regard to such pipes should be obtained from the relevant owners. The information shown on this plan is given without warranty, the accuracy thereof cannot be guaranteed. Service pipes, valves, syphons, stub connections, etc., are not shown but their presence should be anticipated. No liability of any kind whatsoever is accepted by National Grid Gas plc or their agents, servants or contractors for any error or omission. Safe digging practices, in accordance with HS(G)47, must be used to verify and establish the actual position of mains, pipes, services and other apparatus on site before any mechanical plant is used. It is your responsibility to ensure that this information is provided to all persons (either direct labour or contractors) working for you on or near gas apparatus. The information included on this plan should not be referred to beyond a period of 28 days from the date of issue.

Map 1 of 2 (GAS)
 MAPS Plot Server Version 1.8.0




Requested by: Technics Group

This plan is reproduced from or based on the OS map by National Grid Gas plc, with the sanction of the controller of HM Stationery Office. Crown Copyright Reserved. Ordnance Survey Licence number 100024886

Valve	Depth of Cover	Syphon	Diameter Change	Material Change
-------	----------------	--------	-----------------	-----------------



ID: NL_TE_Z5_3SWX_140163
 USER: utilityreports
 DATE: 20/03/2015
 DATA DATE: 04/07/2014
 REF: GRS00347
 MAP REF: TQ3684
 CENTRE: 536838, 184052

View extent: 2890m, 1570m
 Underground cables 
 Overhead lines 
 0m  200m
 Approximate scale 1:10000
 on A4 Colour Landscape

Map not to be used for construction

This plan shows those cables owned by National Grid Electricity Transmission plc in its role as a Licensed Electricity Transporter (ET). Electricity cables owned by other ETs, or otherwise privately owned, may be present in this area. Information with regard to such cables should be obtained from the relevant owners. The information shown on this plan is given without warranty, the accuracy thereof cannot be guaranteed. Ancillary equipment such as cooling systems and communication cables are not shown but their presence should be anticipated. No liability of any kind whatsoever is accepted by National Grid Electricity Transmission plc or their agents, servants or contractors for any error or omission. Safe digging practices, in accordance with HS(G)47, must be used to verify and establish the actual position of cables and other apparatus on site before any mechanical plant is used. It is your responsibility to ensure that this information is provided to all persons (either direct labour or contractors) working for you on or near electricity apparatus. The information included on this plan should not be referred to beyond a period of 28 days from the date of issue.

Map 2 of 2 (ELECTRIC)
 MAPS Plot Server Version 1.8.0

 Requested by: Technics Group
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ENQUIRY SUMMARY

Received Date

20/03/2015

Your Reference

GRS00347

Location

Centre Point: 536838, 184052

X Extent: 303

Y Extent: 276

Postcode: E3 2NA

Location Description: Growing Concerns Garden Centre, 2 Wick Lane, Tower Hamlets, Greater London, E3 2NA

Map Options

Paper Size: A4

Orientation: LANDSCAPE

Requested Scale: 2500

Actual Scale: 1:5000 (GAS), 1:10000 (ELECTRIC)

Real World Extents: 1445m x 785m (GAS), 2890m x 1570m (ELECTRIC)

Recipients

utility.reports@technicsgroup.com

Enquirer Details

Organisation Name: Technics Group

Contact Name: Stephen Sawyer

Email Address: utility.reports@technicsgroup.com

Telephone: 01483 230080

Address: Technics House, Guildford, Guildford, Surrey, GU4 7WA

Description of Works

Growing Concerns Garden Centre, 2 Wick Lane, Tower Hamlets, Greater London, E3 2NA

Enquiry Type

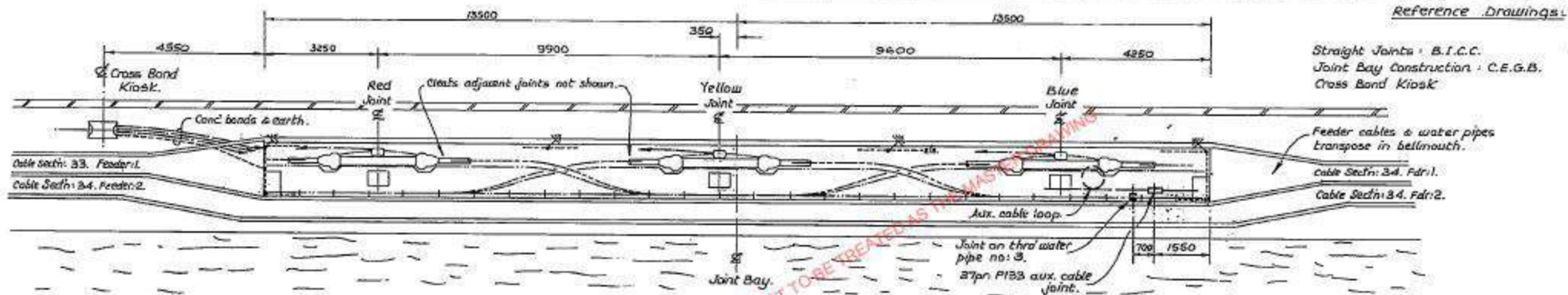
Proposed Works

Activity Type

Utility Works

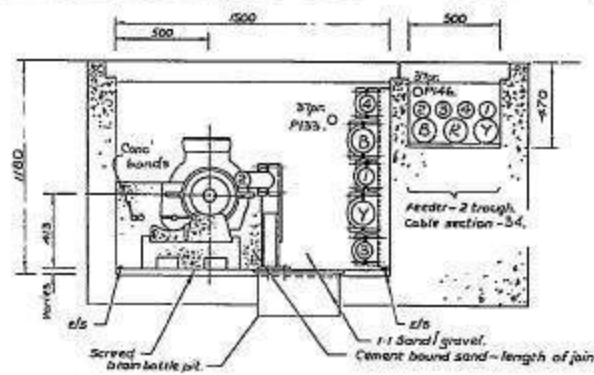
Work Types

Work Type: Plans Only

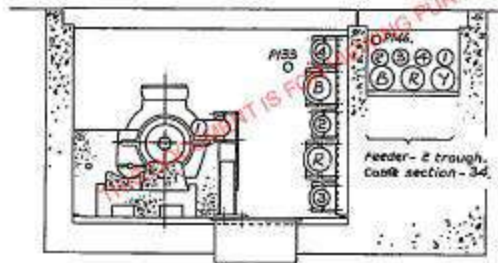


Reference Drawings:
 Straight Joints: B.I.C.C. E95480 - D1.
 Joint Bay Construction: C.E.G.B. 16/16308, rev. A
 Cross Band Kiask: E90348 - D3.

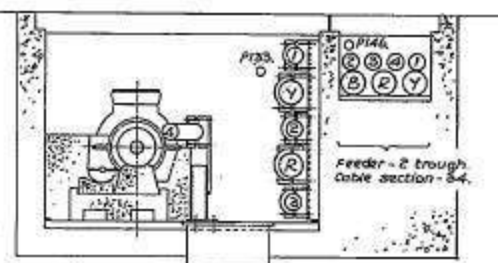
Layout of Straight Joint Bay ~ 33/34. Scale - 1:100



Section on Red Phase Joint



Section on Yellow Phase Joint



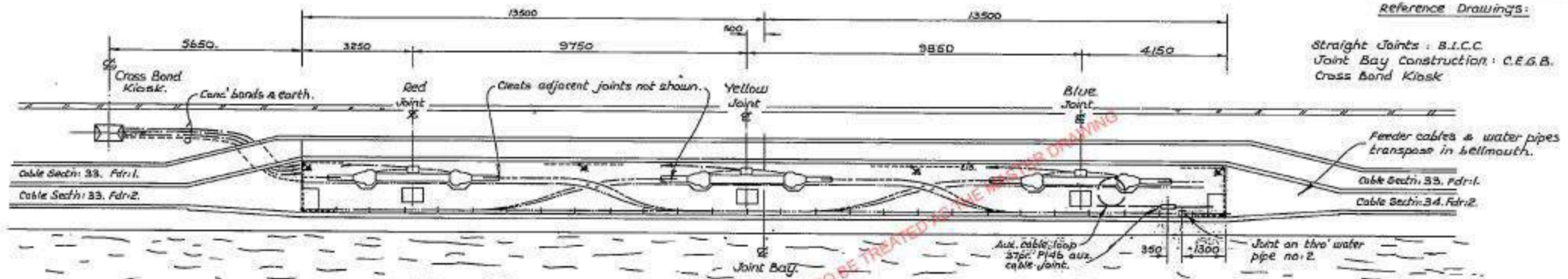
Section on Blue Phase Joint

Cross Sections Facing West Nam. Scale - 1:25

Jointing Details ~ Feeder Cables.			
Phase	Type of Cable.	Jointer.	Date.
R	400 kv. S.C. 2000 ^{mm} all filled lead sheath.	D. Kerr.	10-7-80
Y	—	—	15-7-80
B	—	—	18-7-80

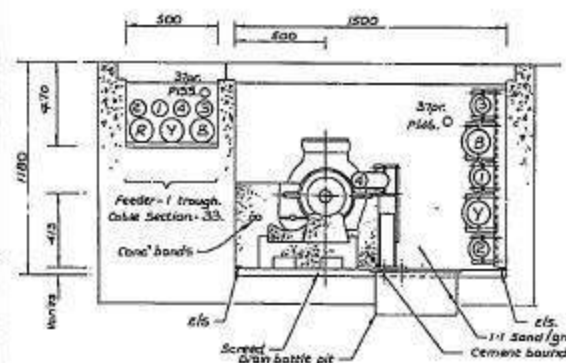
Jointing Details ~ Auxiliary Cables.			
	Type of Cable.	Jointer.	Date.
P153	27pin 1/0-3mm. Pe. Pa. Awl. Pe. jelly filled.	B. Mansfield.	25-7-80

70/3620 SHT 108

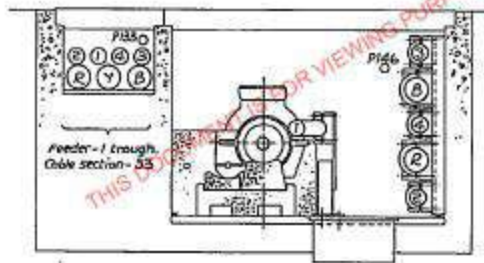


Reference Drawings:
 Straight Joints: B.I.C.C. : E95480-D1.
 Joint Bay Construction: C.E.G.B. : 16/16.307 rev. A.
 Cross Bond Kiosk : E90348-D3.

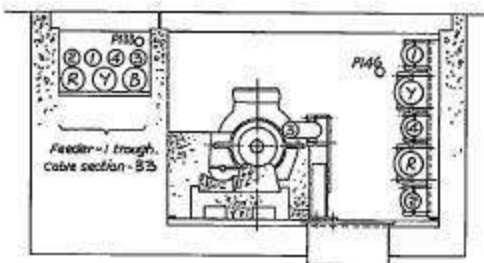
Layout of Straight Joint Bay - 33/34. Scale - 1:100



Section on Red Phase Joint.



Section on Yellow Phase Joint.



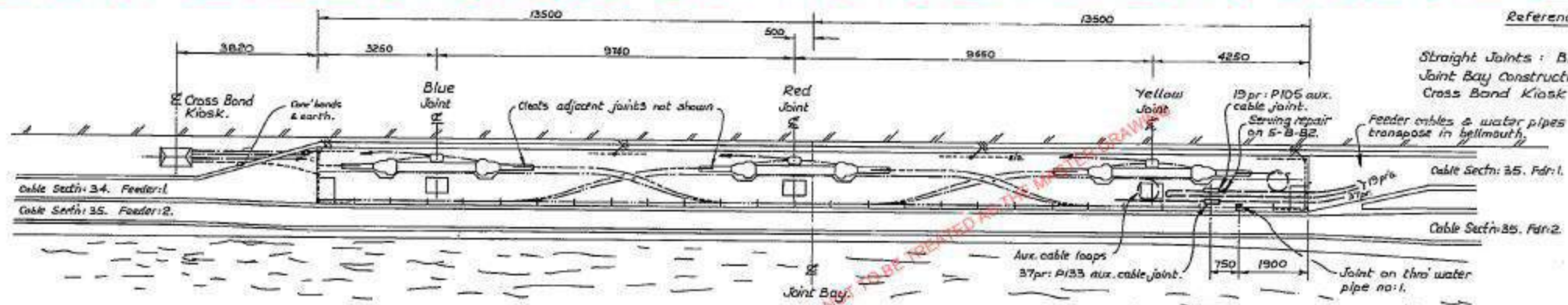
Section on Blue Phase Joint.

THIS DOCUMENT IS FOR VIEWING PURPOSES ONLY - NOT TO BE TREATED AS THE MASTER DRAWING

Phase	Type of Cable.	Jointer.	Date.
R	400 kv. S.C. 2000 ² mm. oil filled, lead sheath.	D. Kerr.	14-2-80
Y	—	—	11-2-80
B	—	—	6-2-80

	Type of Cable.	Jointer	Date.
P146	37pc. 1/0.3mm. P.C. P.C. AWG. P.C. jelly filled.	J. Kerridge.	28-8-80

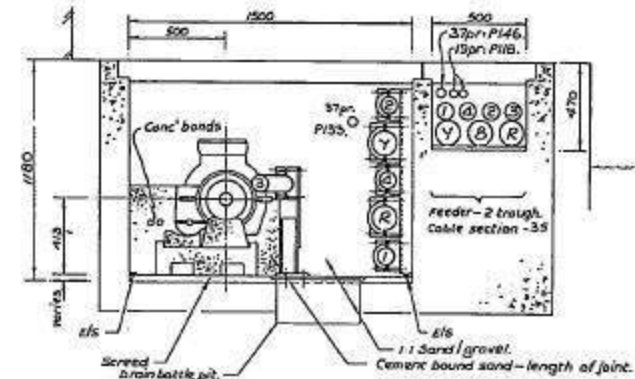
70/3620 SHT 109



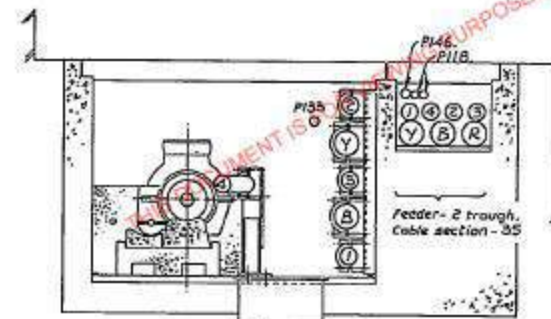
Reference Drawings:

- Straight Joints : B.I.C.C. : E95480 - D1.
- Joint Bay Construction : C.E.G.B : 16/163/10 rev. B.
- Cross Bond Kiosk : E90348 - D3.

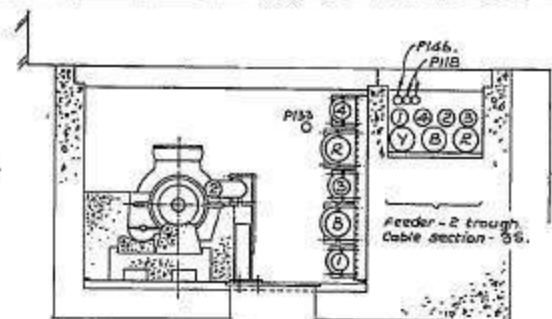
Layout of Straight Joint Bay ~ 34/35, Scale - 1:100



Section on Blue Phase Joint.



Section on Red Phase Joint.



Section on Yellow Phase Joint.

Cross Sections - Facing West Ham, Scale - 1:25.

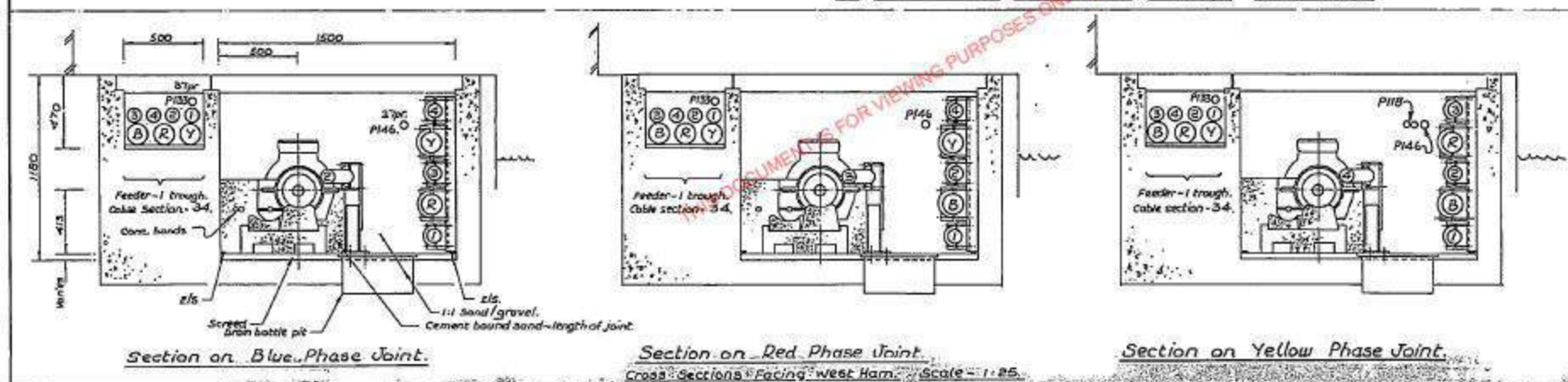
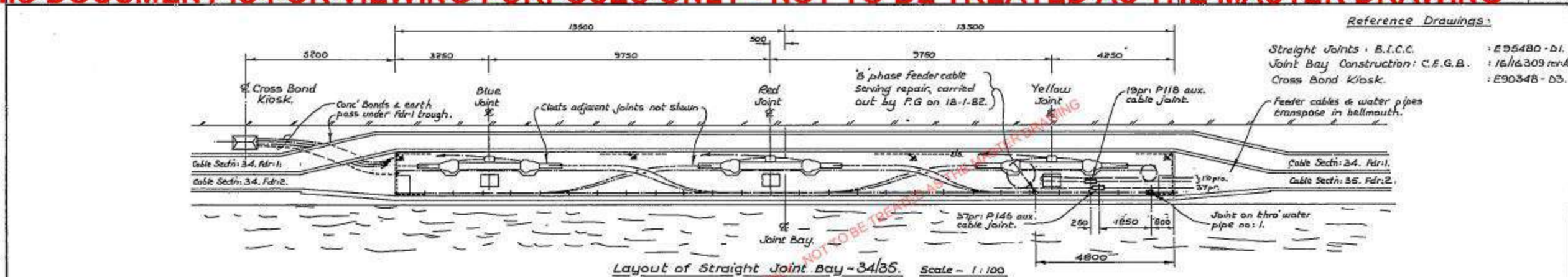
Jointing Details ~ Feeder Cables.

Phase	Type of Cable.	Jointer	Date
R	400 kv. S.C. 2000 ² mm. oil filled, lead sheath.	V. Stuchbury.	20-11-81.
Y	—	—	25-11-81.
B	—	—	17-11-81.

Jointing Details ~ Auxiliary Cables.

	Type of Cable	Jointer	Date.
P133	37pr. 1/0.9mm. Pe. Pe. AWA. Pe. jelly filled.	B. Mansfield.	13-1-82.
P105	19pr. 1/0.9mm. Pe. Pe. AWA. Pe. jelly filled.	—	14-1-82.

70/3620 SHT 113



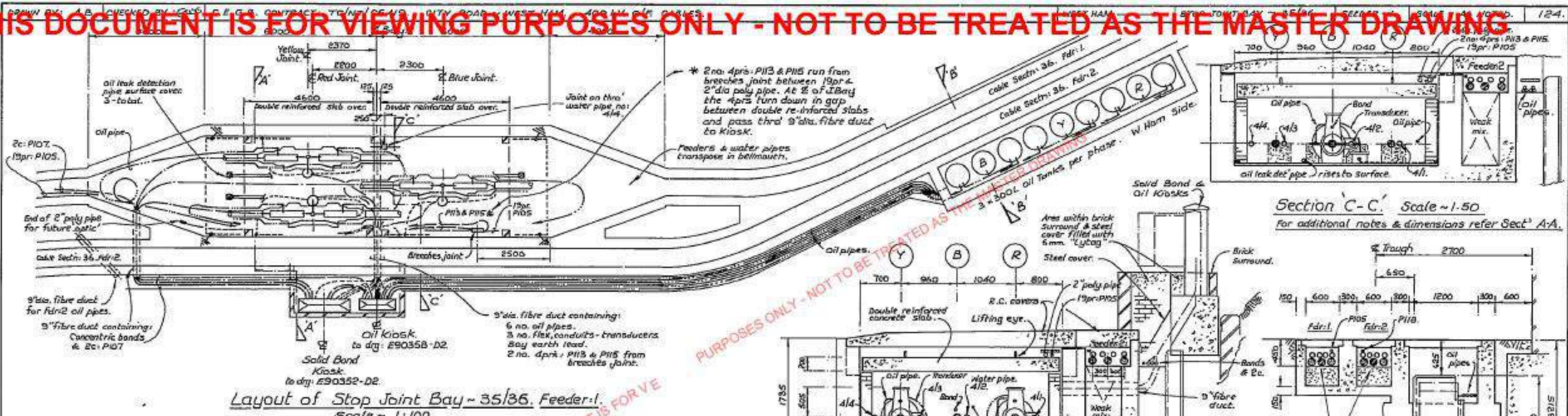
Jointing Details ~ Feeder Cables.

Phase	Type of Cable.	Jointer.	Date.
R	400 kv. S.C. 2000 mm. all filled. Lead sheath.	V. Stuchbury.	4-12-81.
Y	—	—	1-12-81.
B	—	—	9-12-81.

Jointing Details ~ Auxiliary Cables.

	Type of Cable.	Jointer.	Date.
P146	57pr. 110.9mm. Pz. Pe. AWA. Pe. jelly filled.	B. Mansfield.	19-1-82.
P118	19pr. 110.9mm. Pz. Pe. AWA. Pe. jelly filled.	—	23-1-82.

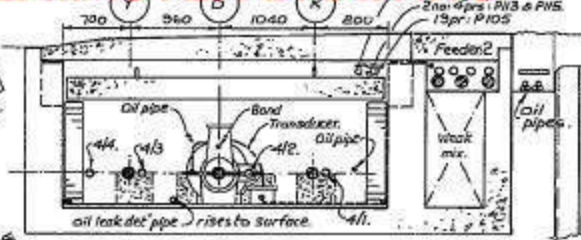
THIS DOCUMENT IS FOR VIEWING PURPOSES ONLY - NOT TO BE TREATED AS THE MASTER DRAWING



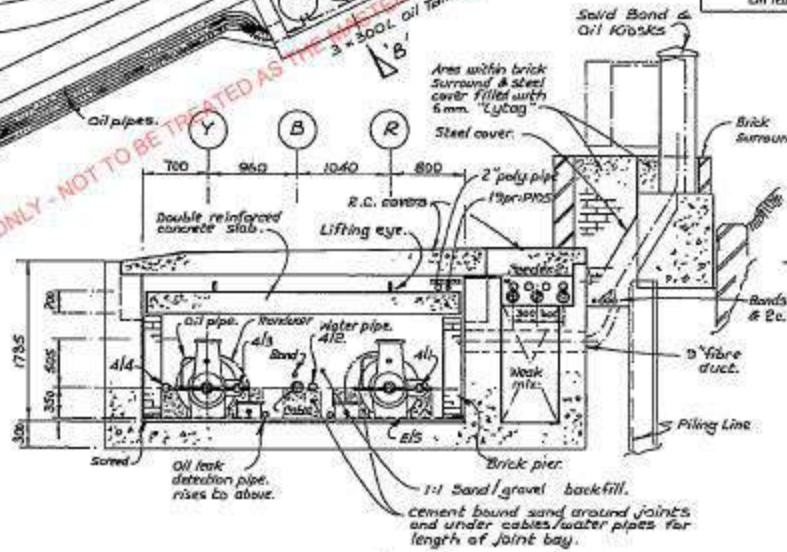
*Layout of Stop Joint Bay ~ 35/36, Feeder 1.
Scale ~ 1:100.*

Symbols Key.	
	Feeder Cable.
	Water Pipe.
	Aux. cable.
	Earth.
	Oil Pipe.
	Transducer Lead.
	Conc. Bond.

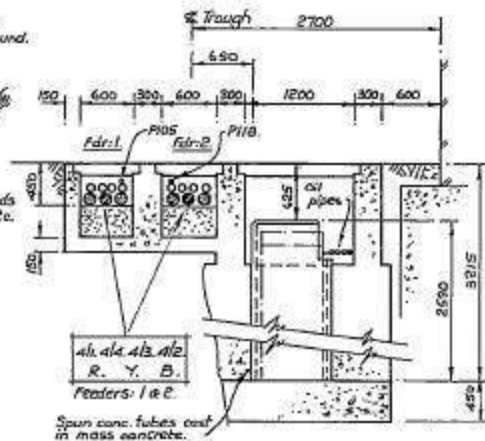
Joining Details				
Joint.	Phase	Type of Cable.	Joiner.	Date.
Firelli General Stop Joints to PG. drg. no: 5610bl.	R.	400 kv S.C. 2000 ⁹ mm.	E. Finch.	17-6-80
	Y.	Oil Filled, Lead Sheath.	E. Finch.	10-6-80
	B.		E. Finch.	3-6-80
19pr. aux.	P105	19pr. 1/4-3mm. Pp. Pp. Anod. Pp. Jetty Filled.	B. Mansfield	2-10-81



*Section 'C-C' Scale ~ 1:50
for additional notes & dimensions refer Sectⁿ A-A.*

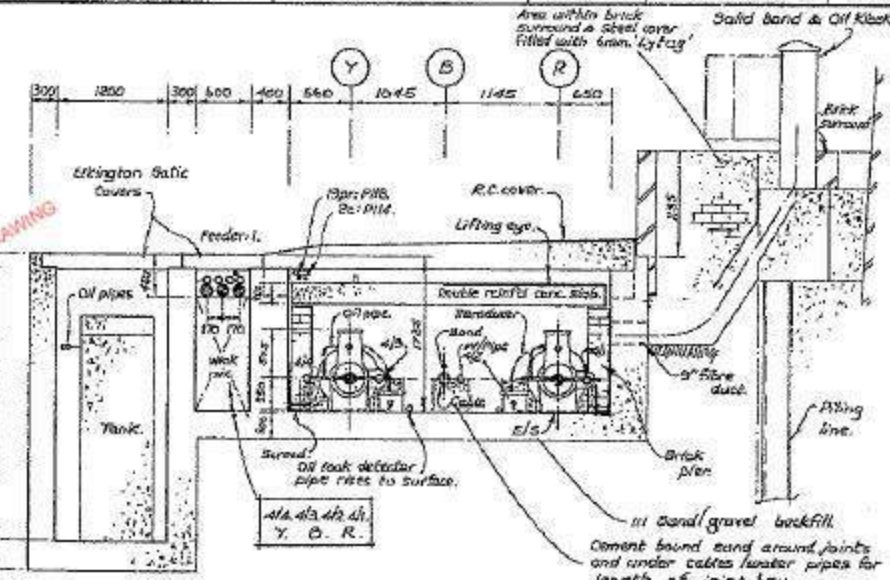
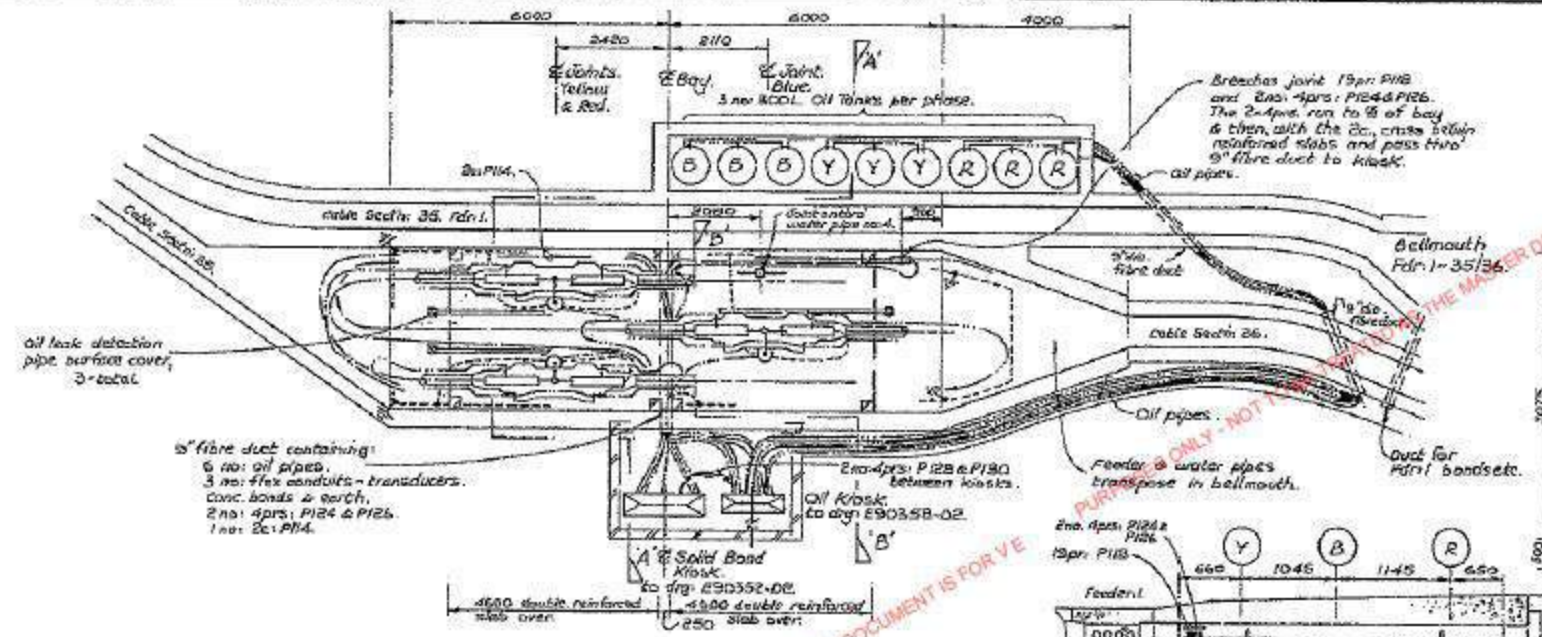


Section 'A-A' Scale ~ 1:50.

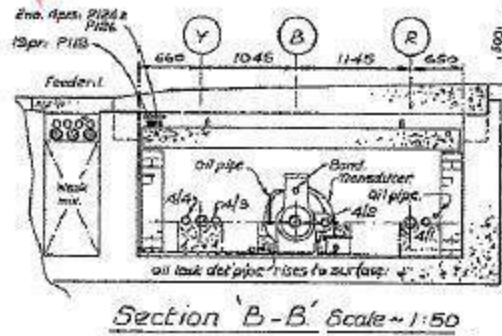


Section 'B-B' Scale ~ 1:50.

70/3620 SHT 125



Layout of Stop Joint Bay - 35/36. Feeder-2. Scale - 1:100.



Section B-B' Scale - 1:50

Section A-A' Scale - 1:50
70/3620 SHT 126
Jointing Details

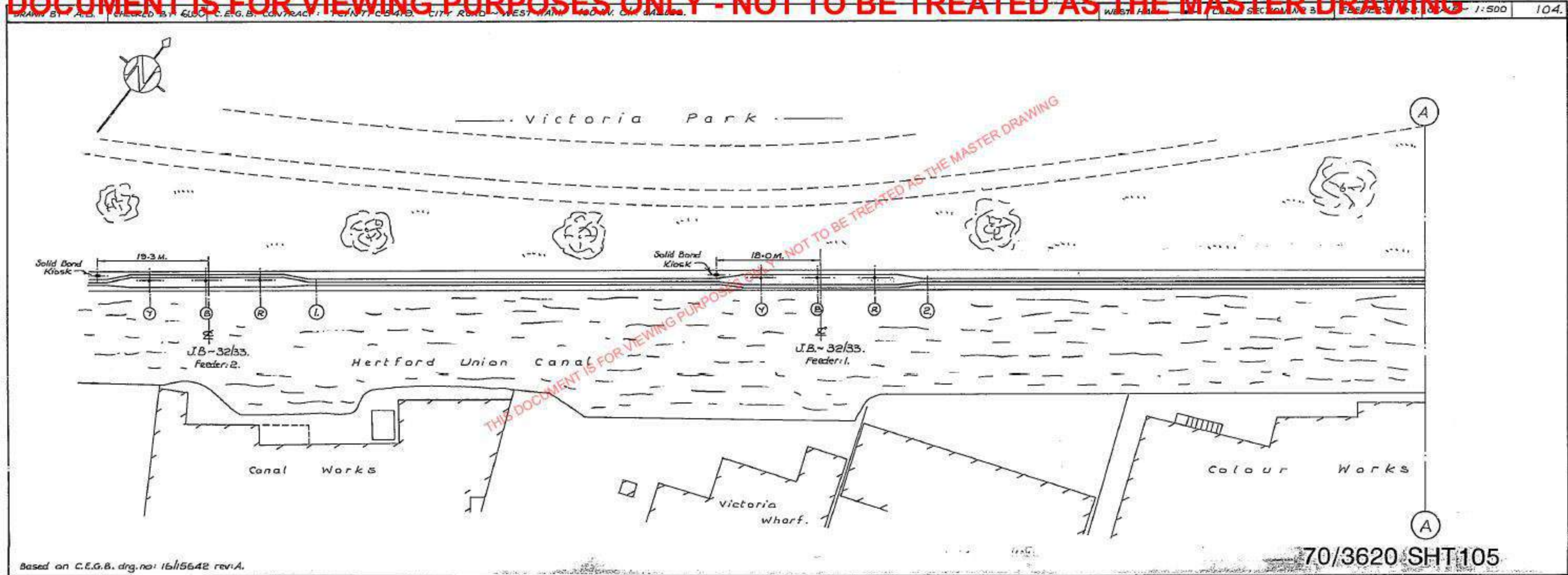
Joint	Phase	Type of cable	Jointer	Date
Firell General Stop Joints to R.C. dry not 261061.	R.	400 kv. S.C. 2000 ^{mm} . Oil filled, Lead Sheath.	R. A. Ferryhough.	20-5-80
	Y.		R. A. Ferryhough.	22-5-80
	B.		R. A. Ferryhough.	4-6-80.
19pr. 11/2 2pr. P118. AWA. P118. P124. P126. P127. P128. P129. P130. P131. P132. P133. P134. P135. P136. P137. P138. P139. P140. P141. P142. P143. P144. P145. P146. P147. P148. P149. P150. P151. P152. P153. P154. P155. P156. P157. P158. P159. P160. P161. P162. P163. P164. P165. P166. P167. P168. P169. P170. P171. P172. P173. P174. P175. P176. P177. P178. P179. P180. P181. P182. P183. P184. P185. P186. P187. P188. P189. P190. P191. P192. P193. P194. P195. P196. P197. P198. P199. P200. P201. P202. P203. P204. P205. P206. P207. P208. P209. P210. P211. P212. P213. P214. P215. P216. P217. P218. P219. P220. P221. P222. P223. P224. P225. P226. P227. P228. P229. P230. P231. P232. P233. P234. P235. P236. P237. P238. P239. P240. P241. P242. P243. P244. P245. P246. P247. P248. P249. P250. P251. P252. P253. P254. P255. P256. P257. P258. P259. P260. P261. P262. P263. P264. P265. P266. P267. P268. P269. P270. P271. P272. P273. P274. P275. P276. P277. P278. P279. P280. P281. P282. P283. P284. P285. P286. P287. P288. P289. P290. P291. P292. P293. P294. P295. P296. P297. P298. P299. P300. P301. P302. P303. P304. P305. P306. P307. P308. P309. P310. P311. P312. P313. P314. P315. P316. P317. P318. P319. P320. P321. P322. P323. P324. P325. P326. P327. P328. P329. P330. P331. P332. P333. P334. P335. P336. P337. P338. P339. P340. P341. P342. P343. P344. P345. P346. P347. P348. P349. P350. P351. P352. P353. P354. P355. P356. P357. P358. P359. P360. P361. P362. P363. P364. P365. P366. P367. P368. P369. P370. P371. P372. P373. P374. P375. P376. P377. P378. P379. P380. P381. P382. P383. P384. P385. P386. P387. P388. P389. P390. P391. P392. P393. P394. P395. P396. P397. P398. P399. P400. P401. P402. P403. P404. P405. P406. P407. P408. P409. P410. P411. P412. P413. P414. P415. P416. P417. P418. P419. P420. P421. P422. P423. P424. P425. P426. P427. P428. P429. P430. P431. P432. P433. P434. P435. P436. P437. P438. P439. P440. P441. P442. P443. P444. P445. P446. P447. P448. P449. P450. P451. 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Symbols Key.

	Feeder cable.
	Water pipe.
	Aux. cable.
	Earth.
	Oil pipe.
	Transducer lead.
	Conc. band.

For additional notes & dimensions refer to Section A-A'

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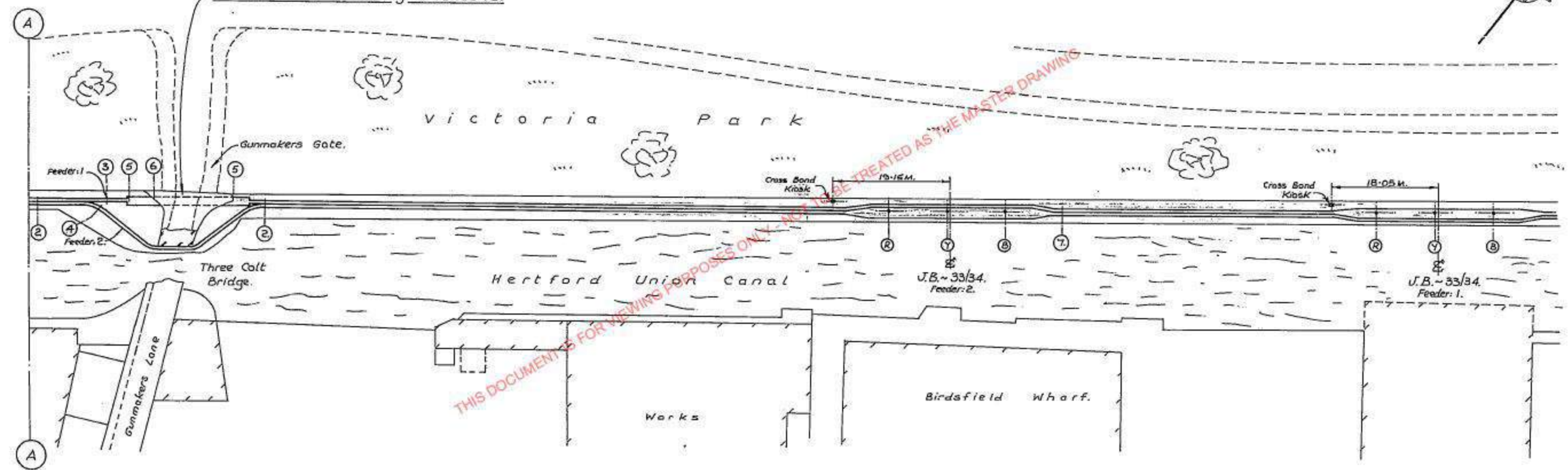


Based on C.E.G.B. drg. no: 16/15642 rev. A.

70/3620 SHT 105



For details refer C.E.G.B. drg.no: 16/15643.

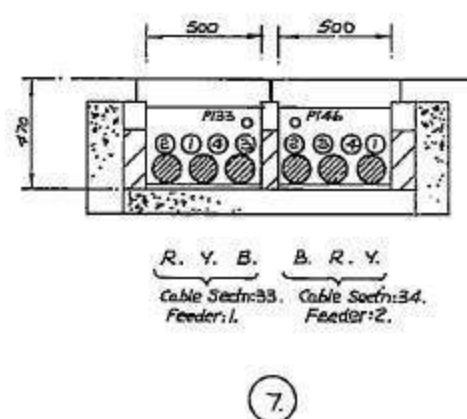
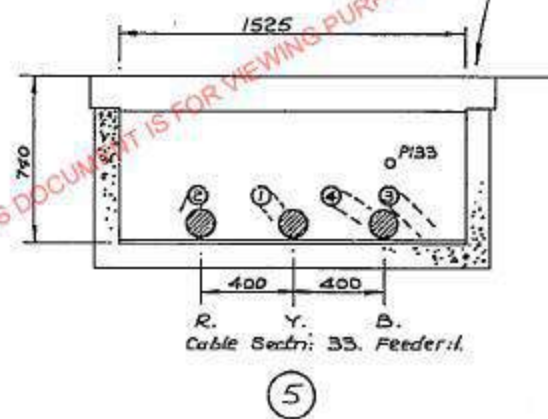
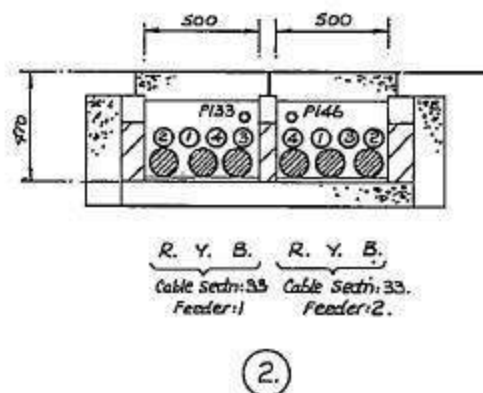
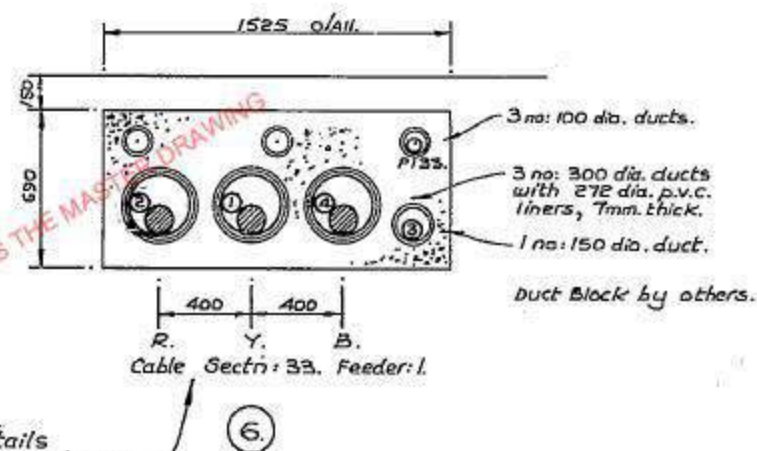
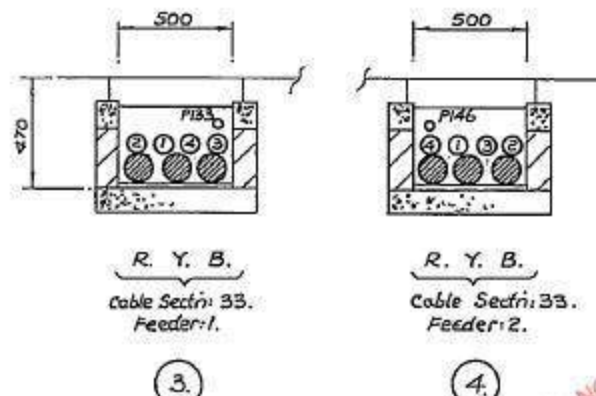
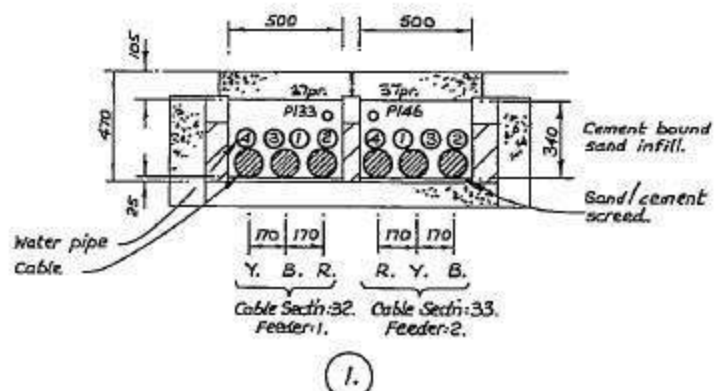


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Based on C.E.G.B. drg.no: 16/15644.

70/3620 SHT 106

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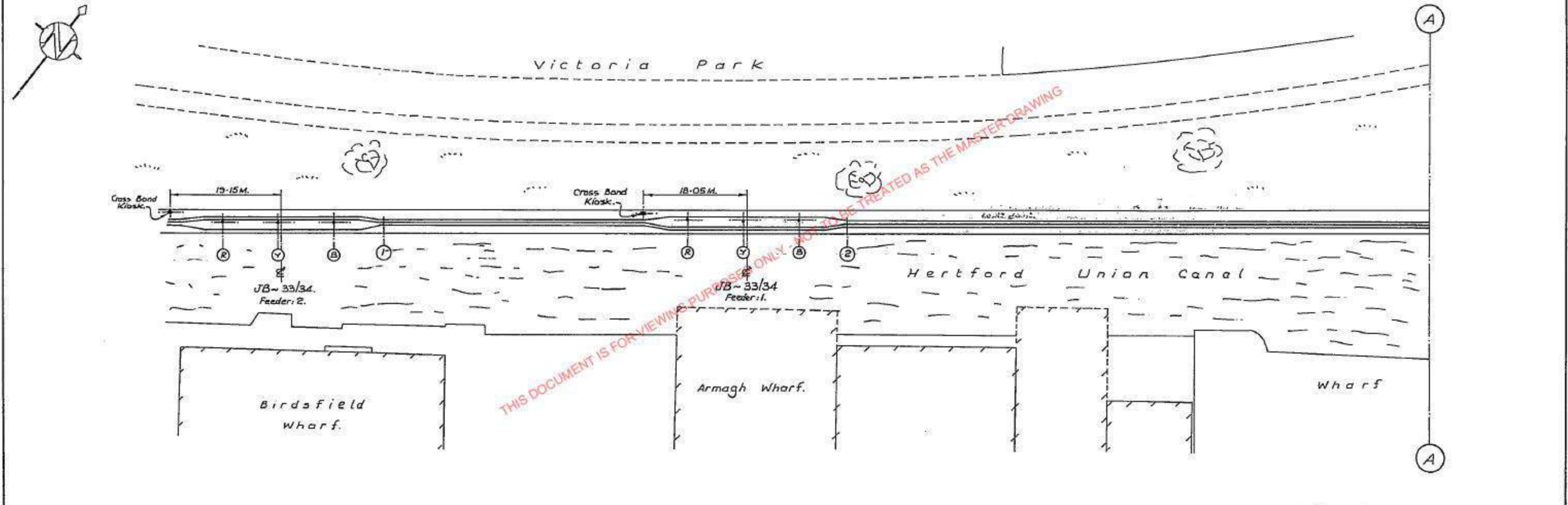


For construction details refer to C.E.G.B. drg. no: 16/15643

Trough construction & base screed by others.

70/3620 SHT 107

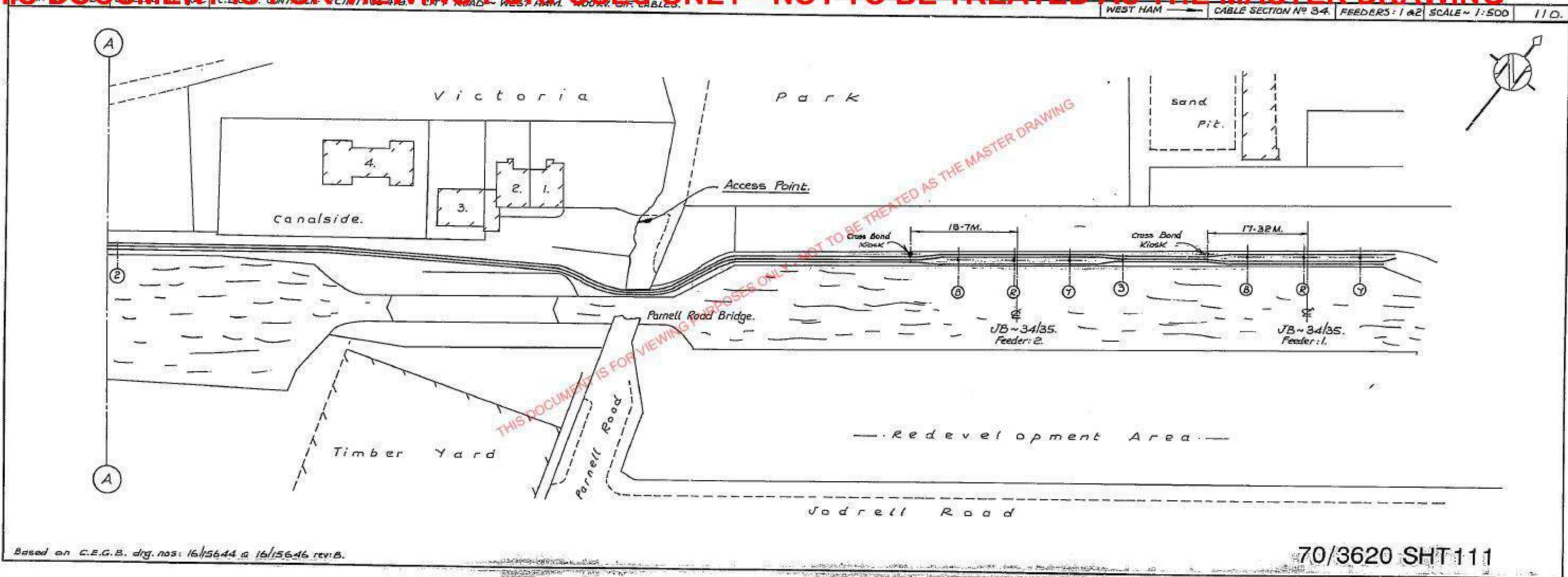
THIS DOCUMENT IS FOR VIEWING PURPOSES ONLY - NOT TO BE TREATED AS THE MASTER DRAWING



Based on C.E.G.B. drg. no: 16/15644.

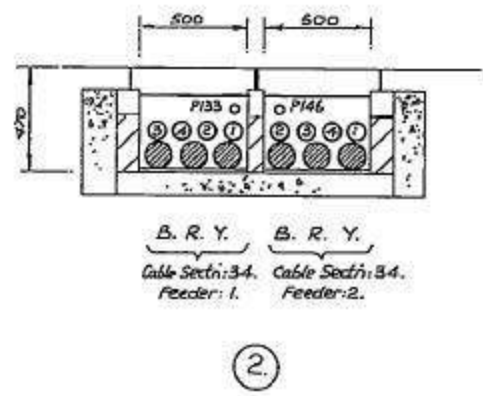
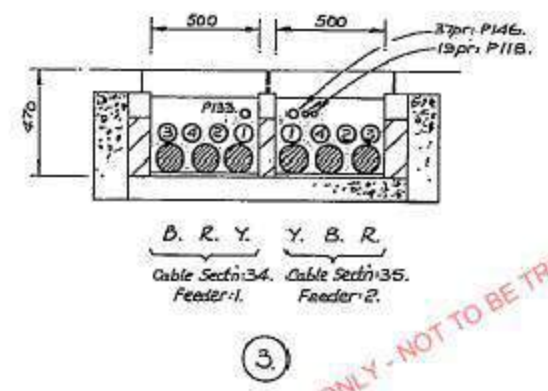
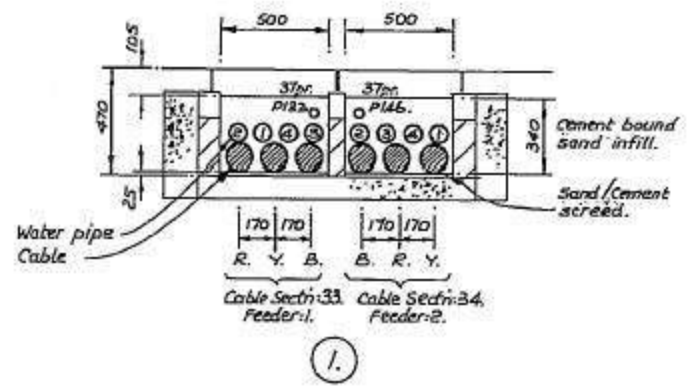
70/3620 SHT 110

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Based on C.E.G.B. drg. nos: 16/15644 & 16/15646 rev: B.

70/3620 SHT 111



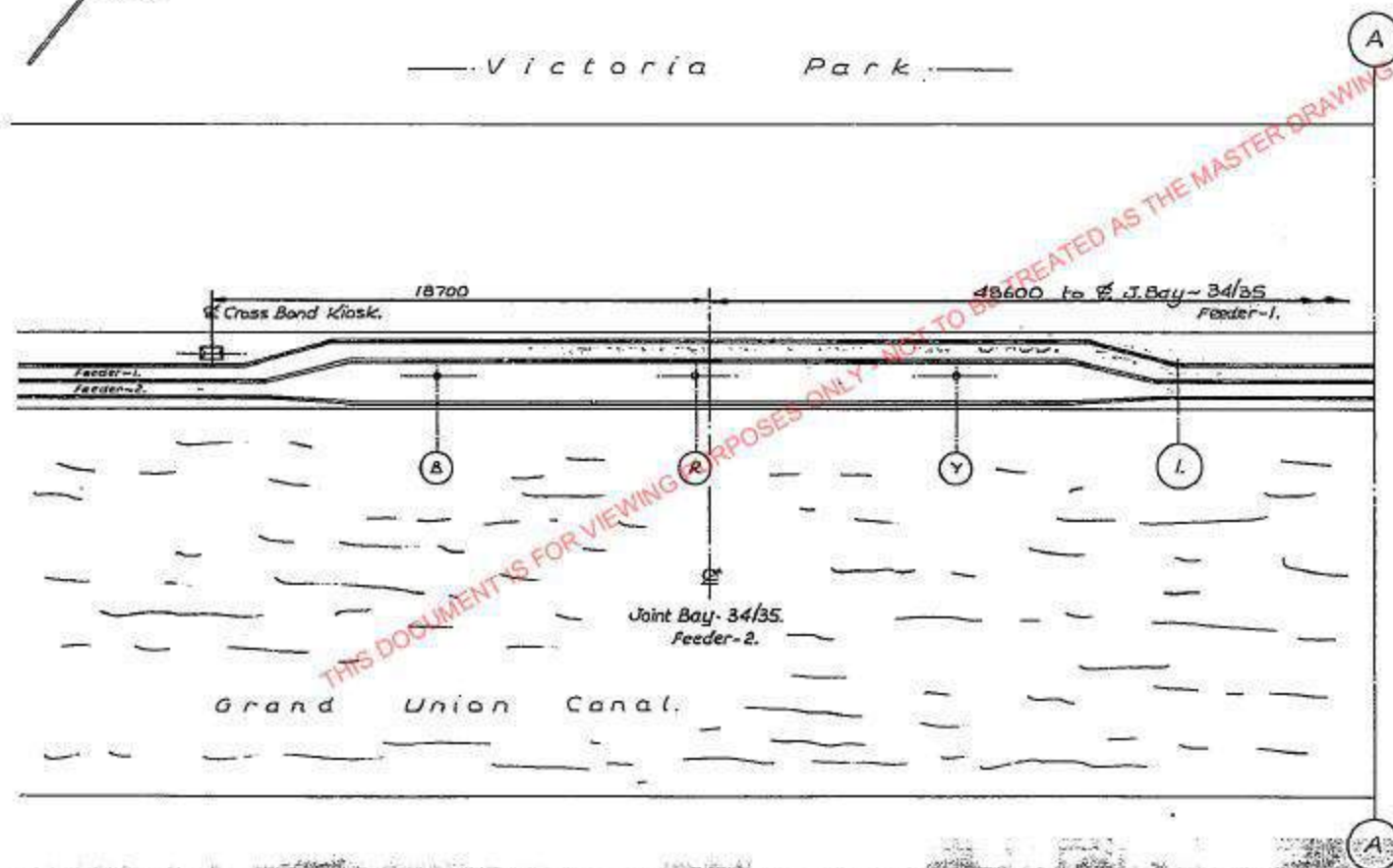
THIS DOCUMENT IS FOR VIEWING PURPOSES ONLY - NOT TO BE TREATED AS THE MASTER DRAWING

Trough construction & base screed by others.

THIS DOCUMENT IS FOR VIEWING PURPOSES ONLY - NOT TO BE TREATED AS THE MASTER DRAWING

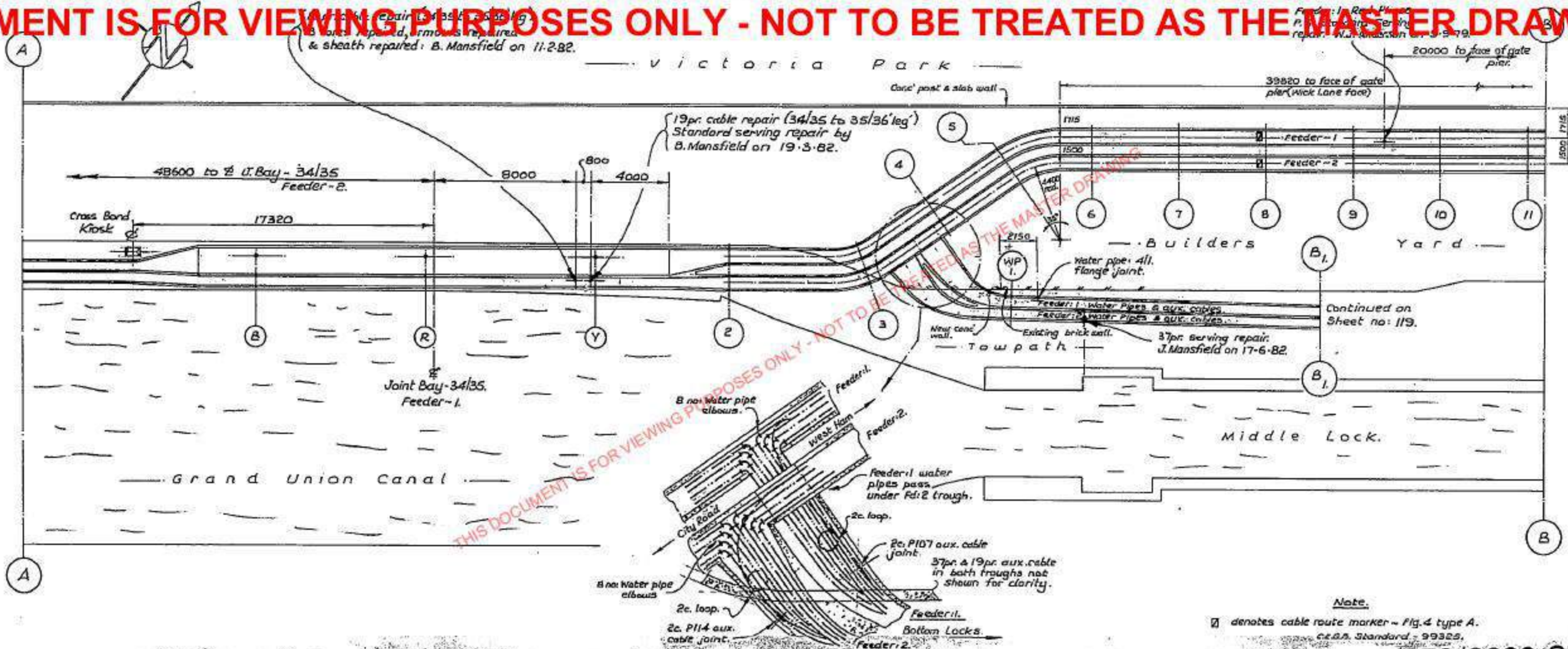


— Victoria Park —



70/3620 SHT:115

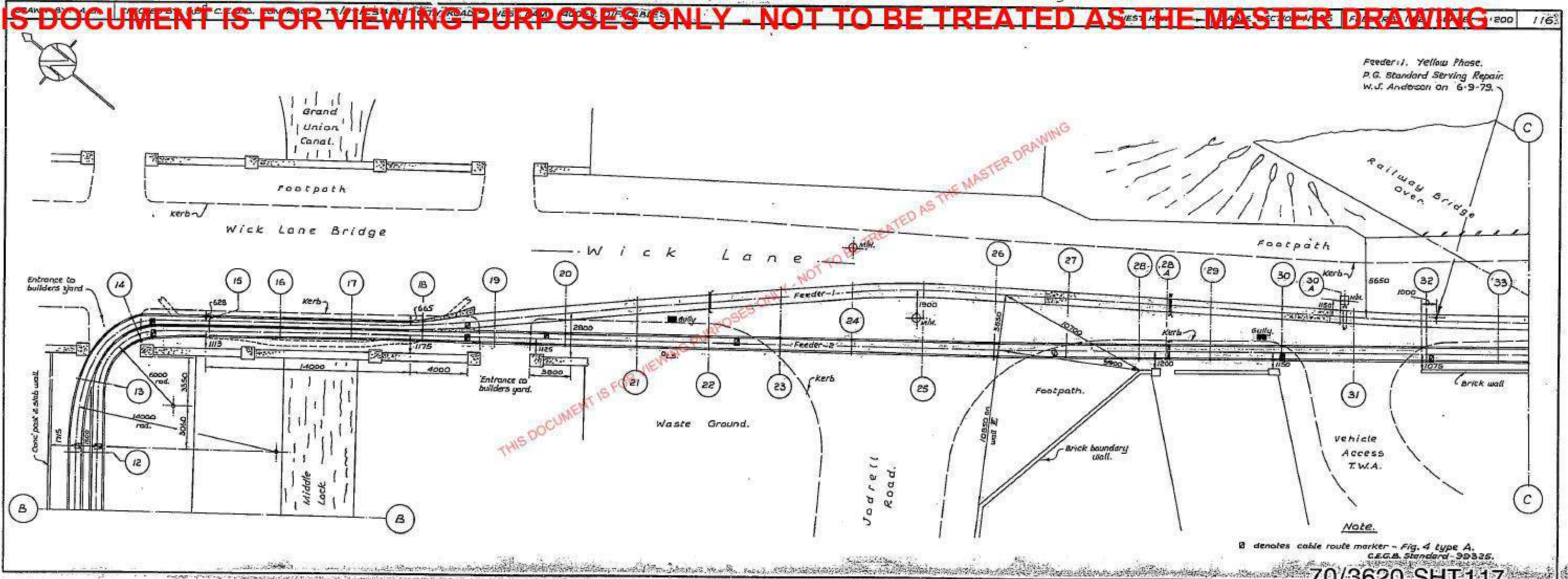
THIS DOCUMENT IS FOR VIEWING PURPOSES ONLY - NOT TO BE TREATED AS THE MASTER DRAWING



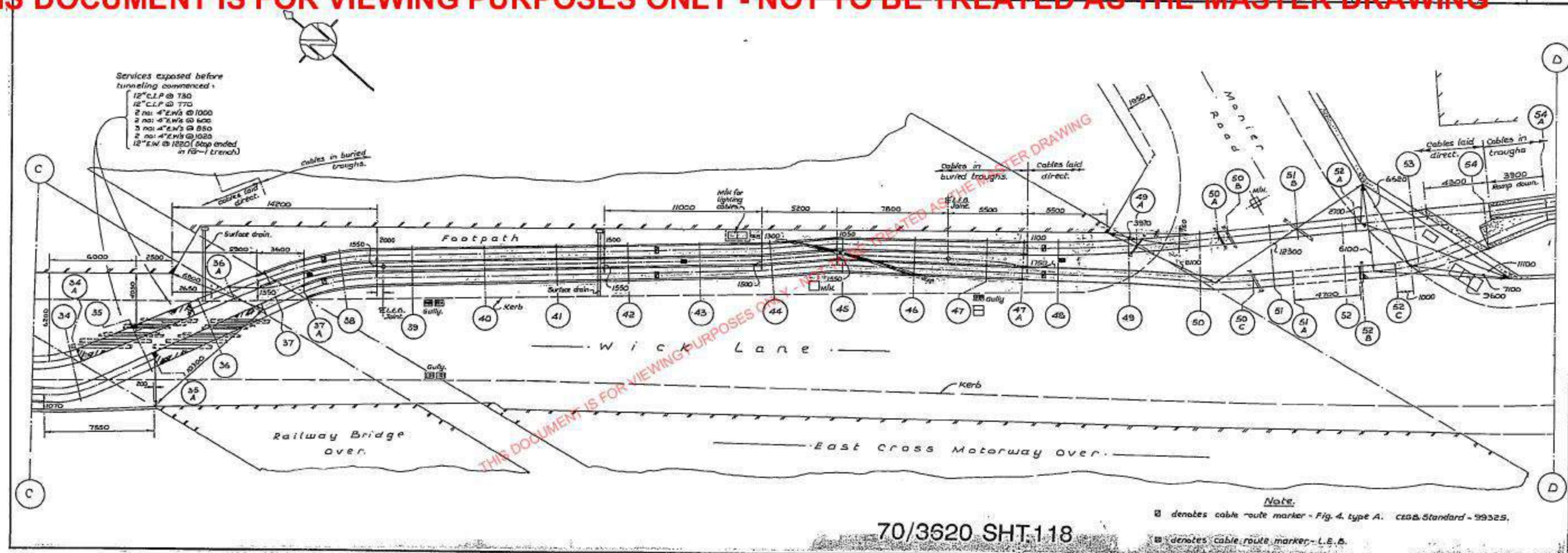
Note: □ denotes cable route marker - Fig. 4 type A. C.E.G.B. Standard - 99329.

70/3620 SHT 116

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70/3620-SHT 117

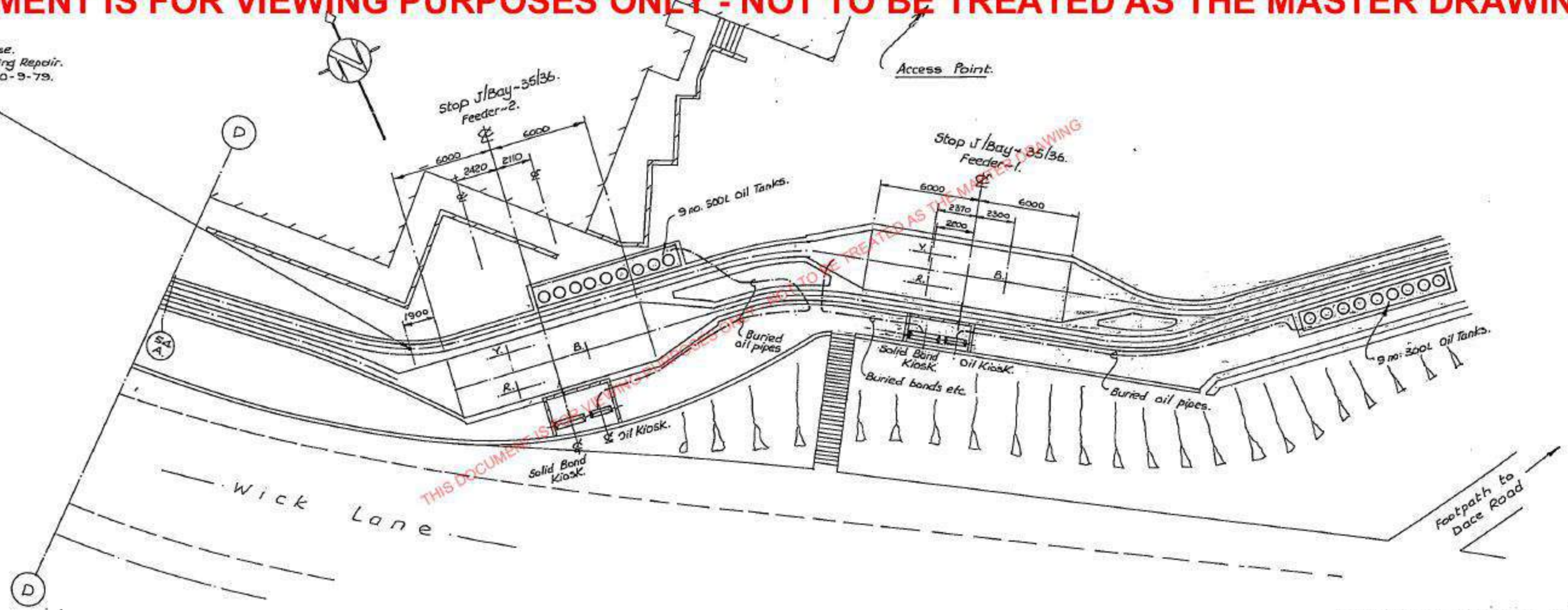


70/3620 SHT.118

Note:
□ denotes cable route marker - Fig. 4, type A. C.S.B. Standard - 99325.
■ denotes cable route marker - L.E.B.

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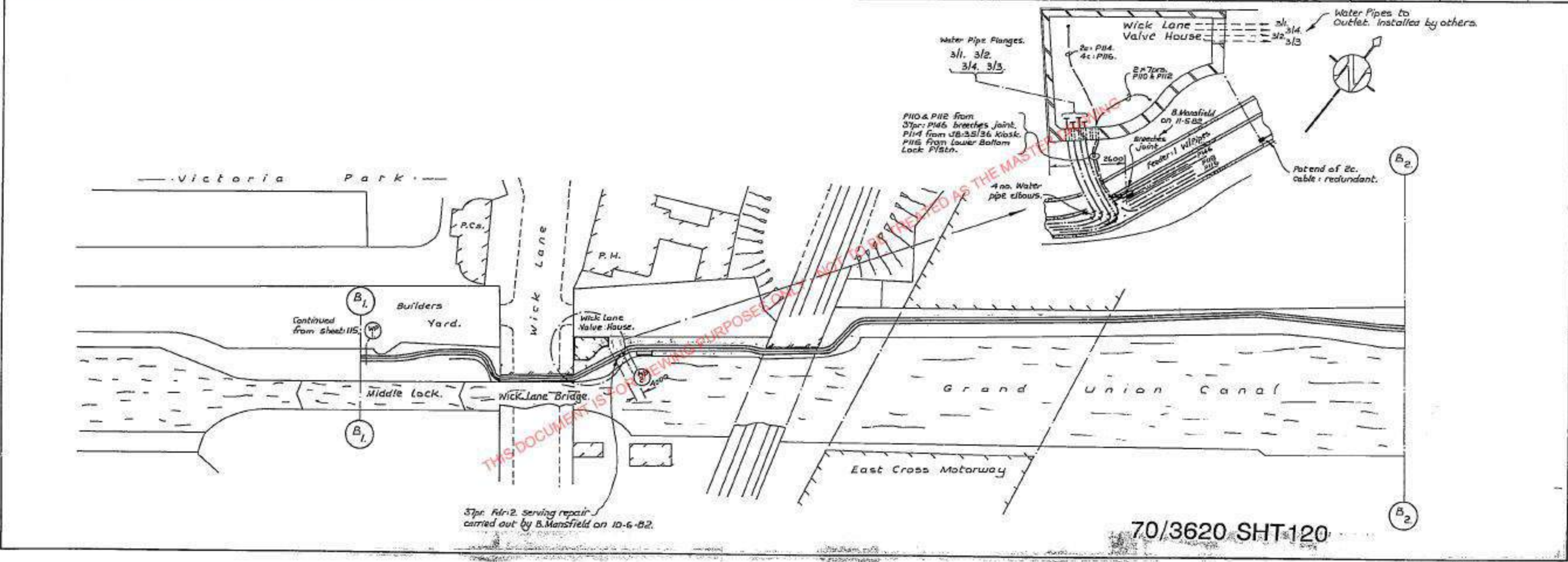
Feeder-1. Blue phase.
P.G. Standard Servicing Repair.
J. Anderson on 10-9-79.



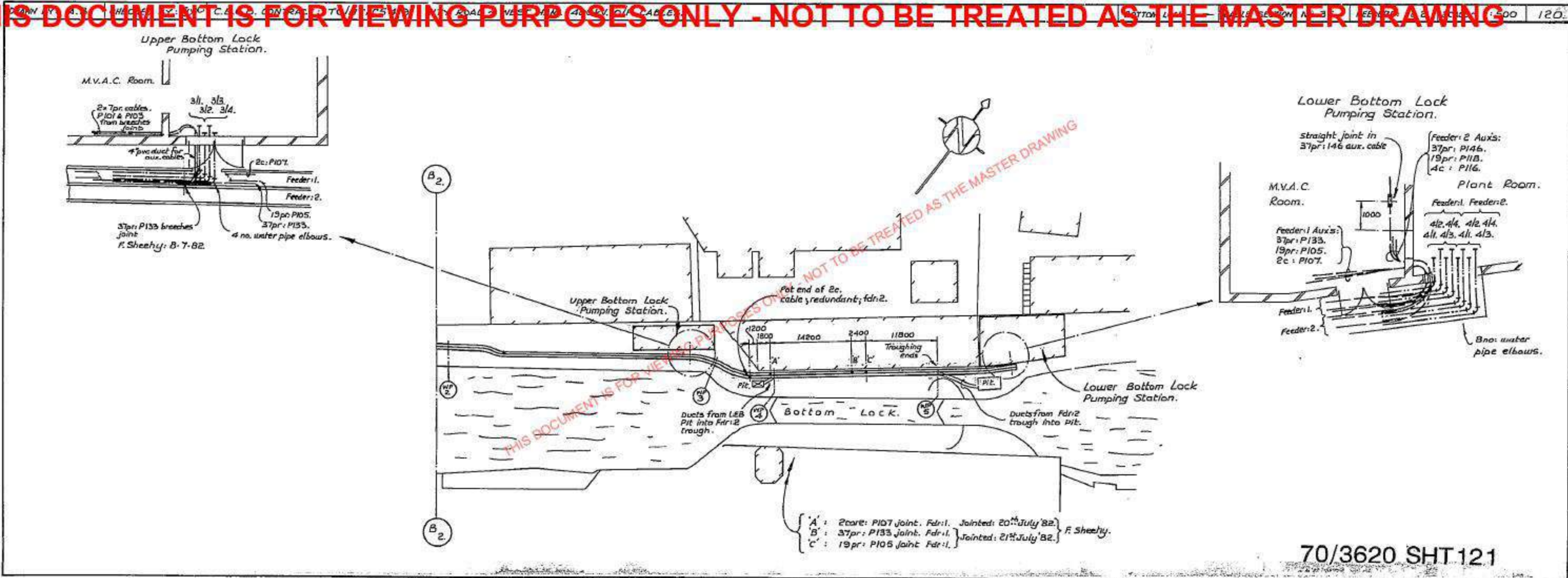
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THIS DOCUMENT IS FOR VIEWING PURPOSES ONLY - NOT TO BE TREATED AS THE MASTER DRAWING

Drawn by: A.S. Checked by: G.S. C.E.G.B. CONTRACT: TCINT/C5/19. CITY ROAD - WEST HAM. 400 KV. D/F. CABLES. BOTTOM LOCK -> CABLE SECTION N° 35. FEEDERS 1 & 2. SCALE - 1:1500 119.

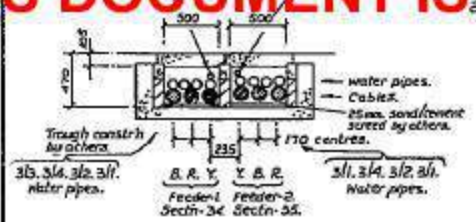


70/3620 SHT 120

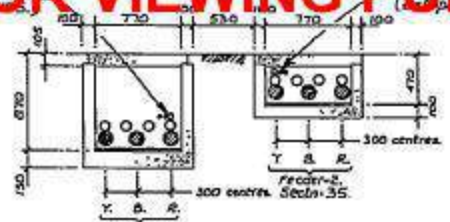


70/3620 SHT 121

THIS DOCUMENT IS FOR VIEWING PURPOSES ONLY - NOT TO BE TREATED AS THE MASTER DRAWING



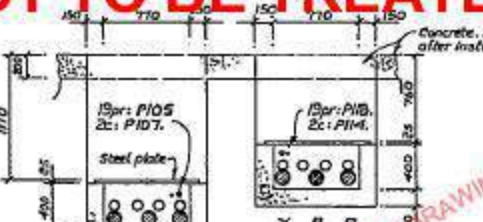
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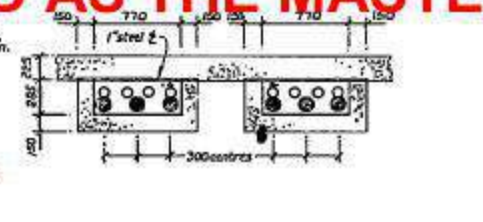
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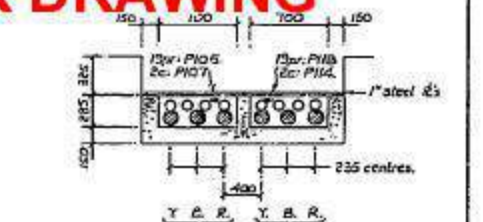
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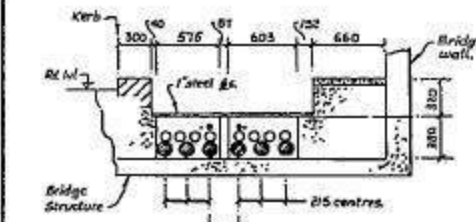
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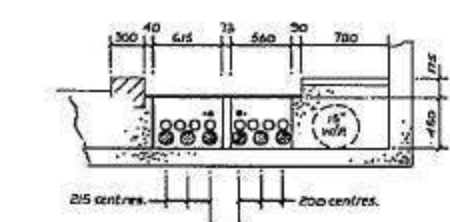
5. to 12.



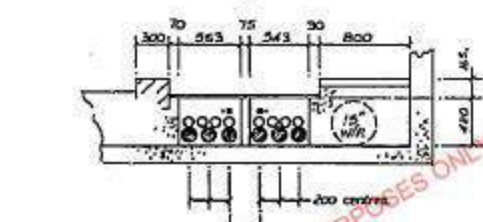
13 & 14.



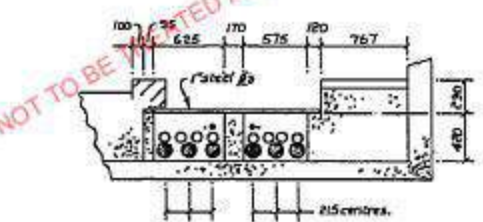
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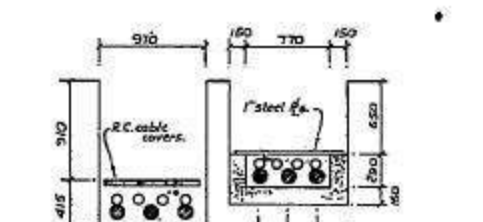
16.



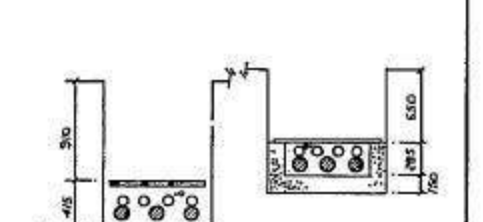
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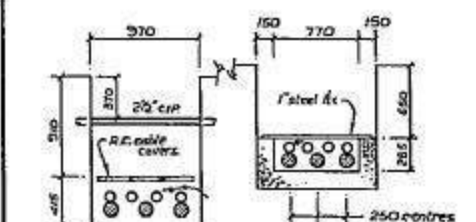
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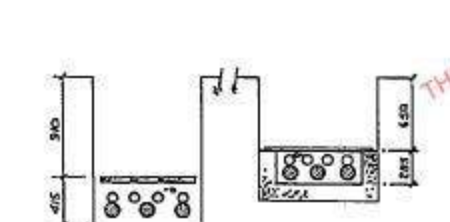
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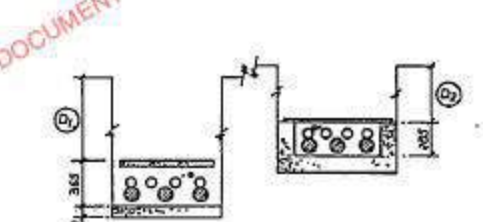
20 & 21.



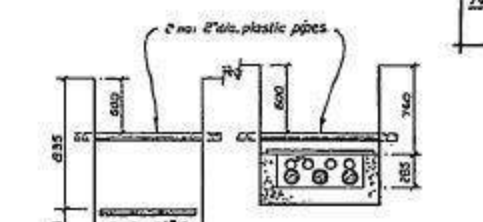
22.



23 to 24.

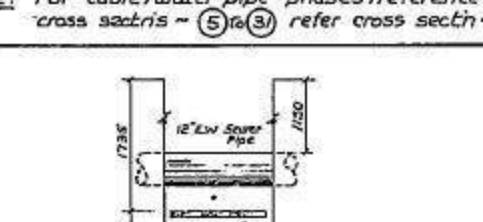


27	D1	D2	D1	D2
28	835	720	835	760
29	835	770	835	750

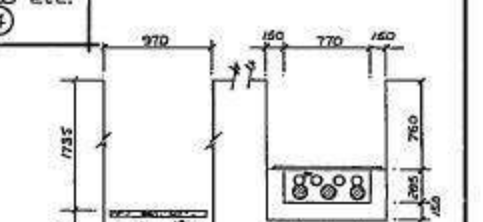


28.

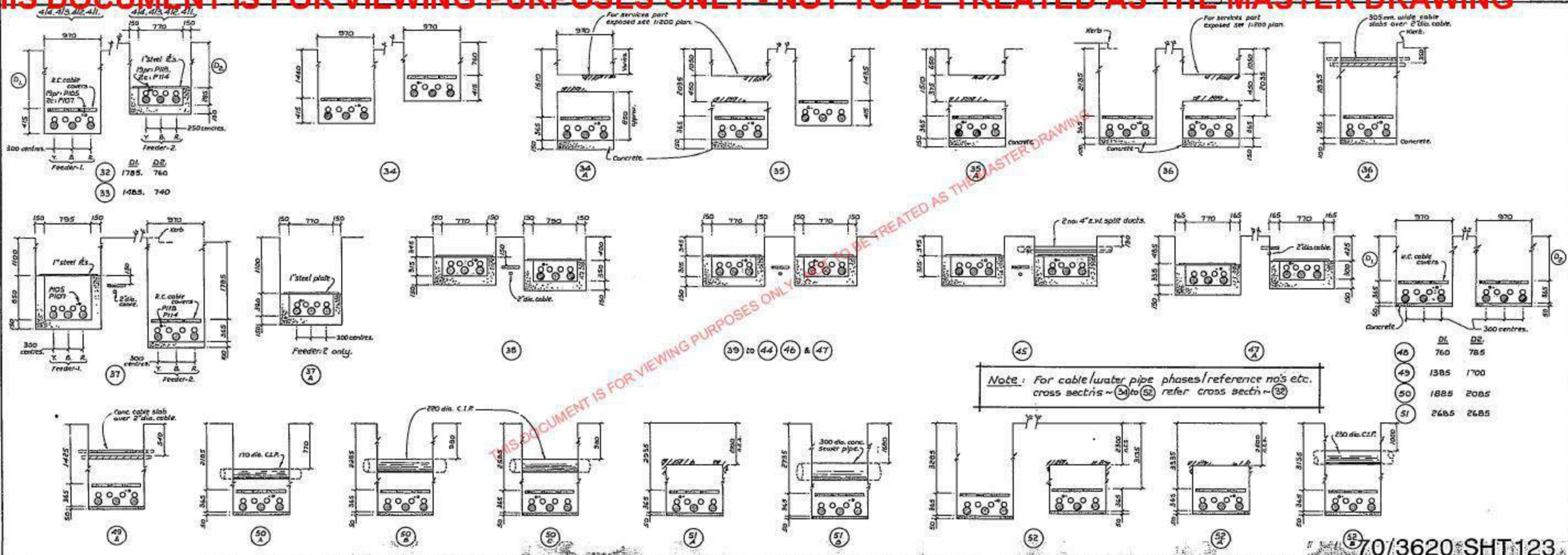
Note: For cable/water pipe phases/reference nos etc. cross sects ~ (5) to (3) refer cross sectn ~ (4)



30.



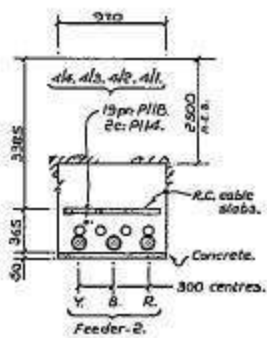
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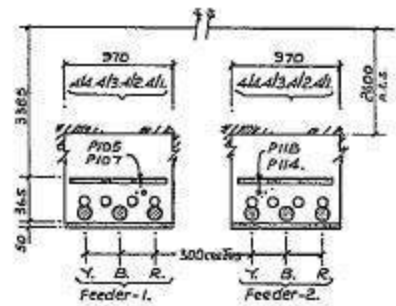
Note: For cable/water pipe phases/reference no's etc. cross sect'ns ~ 34 to 52 refer cross sect'n ~ 32

	DL	DL
48	760	785
49	1385	1700
50	1885	2085
51	2685	2685

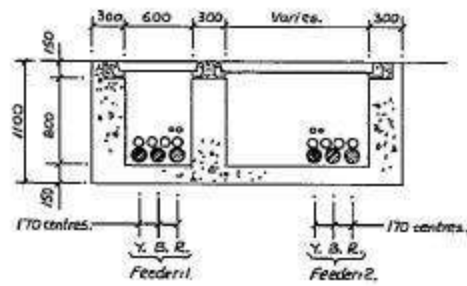
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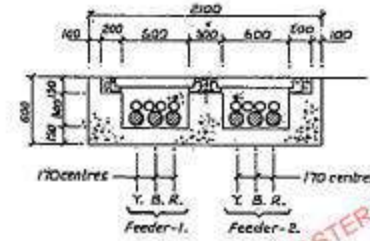
52



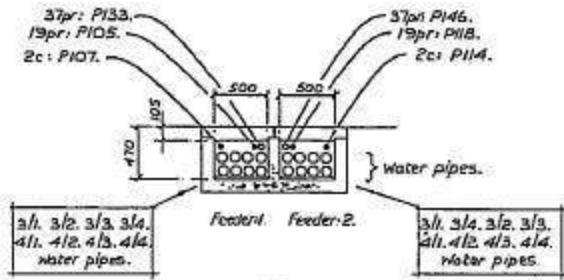
53



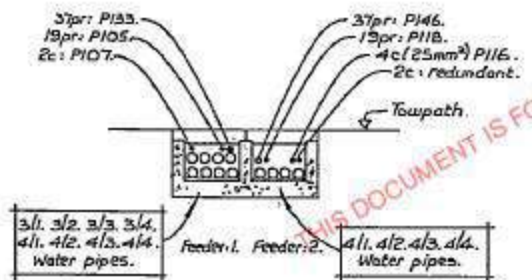
54



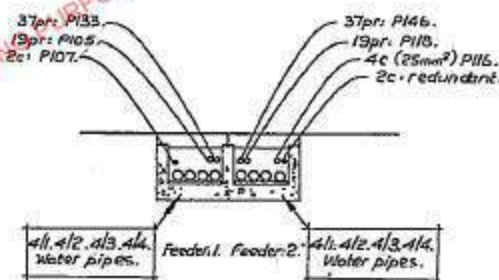
Cable/water pipe details
as cross section: 53



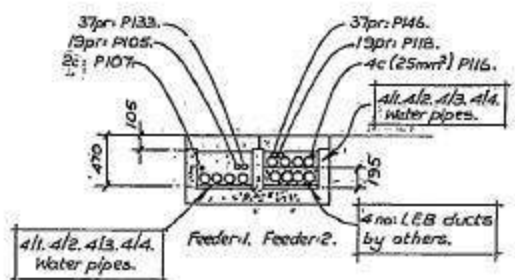
WP 1



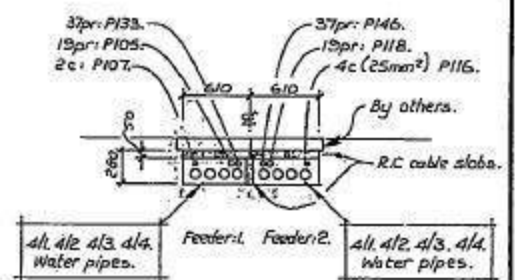
WP 2



WP 3



WP 4



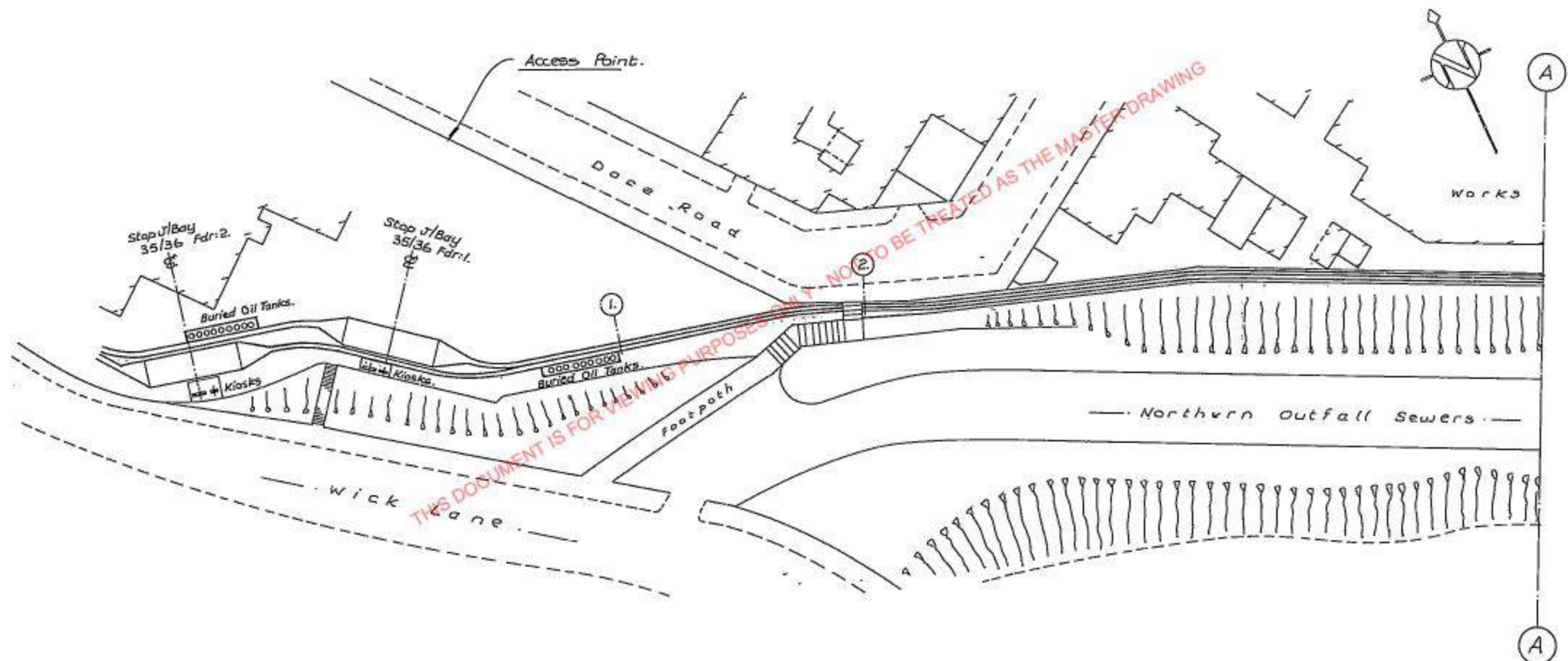
WP 5

Cable Troughing etc. for Water Pipe & Aux. Cables
only from Builders Yard to Lower Bottom Lock.

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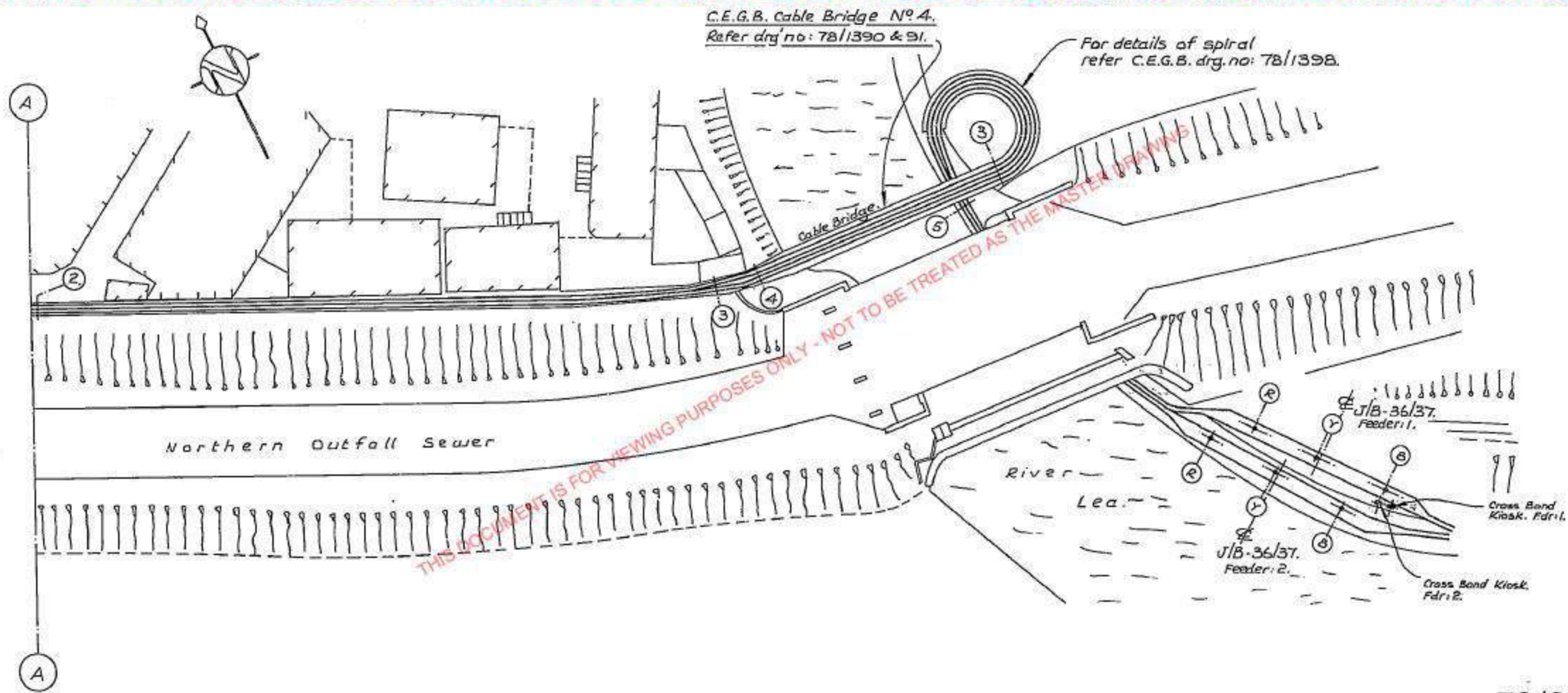
DRAWN BY: A.B. CHECKED BY: G.W.C. C.E.G.B. CONTRACT: TC/NT/CS419. CITY ROAD - WEST HAM. 400 KV. O/F. CABLES.

WEST HAM → CABLE SECTION NO 36 FEEDERS 1 & 2 SCALE ~ 1:500 126.

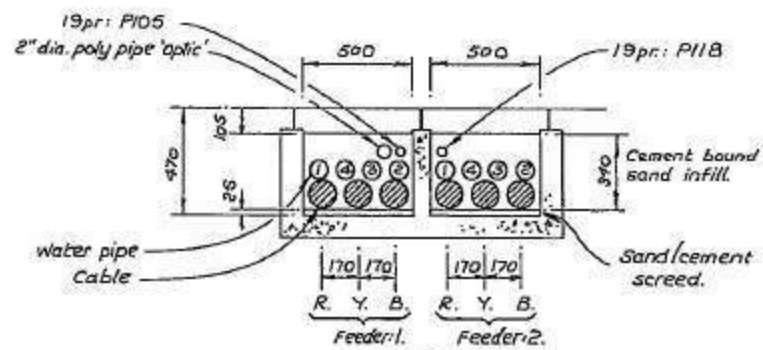


Based on C.E.G.B. dng. no: 16/16321.

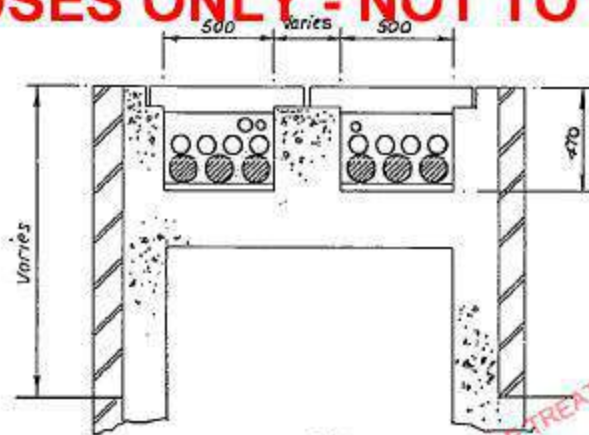
70/3620 SHT 127



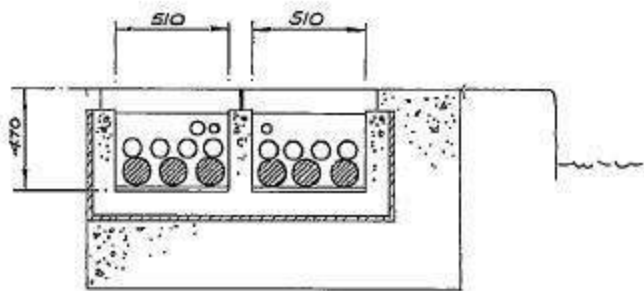
THIS DOCUMENT IS FOR VIEWING PURPOSES ONLY - NOT TO BE TREATED AS THE MASTER DRAWING



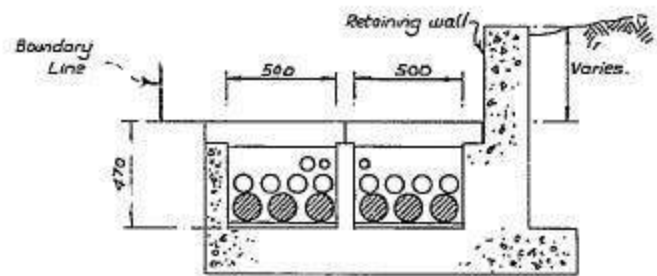
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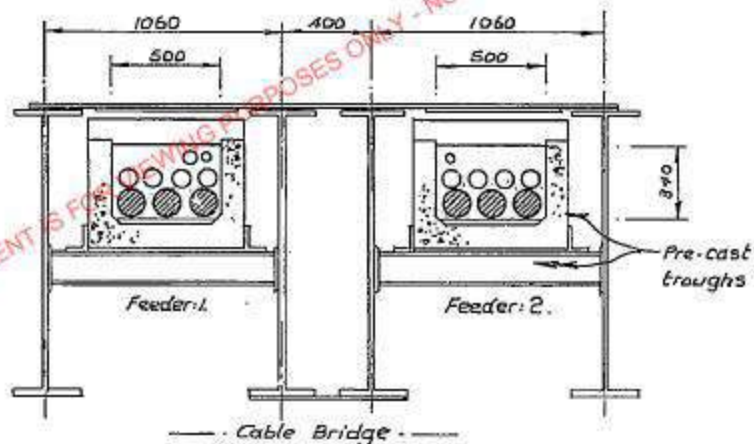
3. Refer C.E.G.B. drg. no: 78/139B.



5.



2.



4. C.E.G.B. cable Bridge N° 4. Refer drg. no: 78/1390 & 91.

Note: For cable/water pipe phases/reference nos etc on cross sectns (2) to (5) refer cross sectn: (1)

Trough construction & base screed by others.

70/3620 SHT 129

Gas



Stephen Sawyer
Technics Group
Technics House
Guildford
Guildford
Surrey
GU4 7WA

Date: 20/03/2015

Our Ref: NL_TE_Z5_3SWX_140163

Your Ref: GRS00347

RE: Proposed Works, Growing Concerns Garden Centre, 2 Wick Lane, Tower Hamlets, Greater London, E3 2NA

Thank you for your enquiry which was received on 20/03/2015.
Please note this response and any attached map(s) are valid for 28 days.

An assessment has been carried out with respect to National Grid Electricity Transmission plc's and National Grid Gas plc's apparatus. Please note it does not cover the items listed in the section "Your Responsibilities and Obligations", including gas service pipes and related apparatus.

As your works are at a "proposed" stage, any maps and guidance provided are for information purposes only. This is not approval to commence work. You must submit a "Scheduled Works" enquiry at the earliest opportunity and failure to do this may lead to disruption to your plans and works. National Grid will endeavour to provide an initial assessment within 14 days of receipt of a Scheduled Works enquiry and dependent on the outcome of this, further consultation may be required.

In any event, for safety and legal reasons, works must not be carried out until a Scheduled Works enquiry has been completed and final response received.

Your Responsibilities and Obligations

The "Assessment" Section below outlines the detailed requirements that must be followed when planning or undertaking your scheduled activities at this location.

It is your responsibility to ensure that the information you have submitted is accurate and that all relevant documents including links are provided to all persons (either direct labour or contractors) working for you near National Grid's apparatus, e.g. as contained within the Construction (Design and Management) Regulations.

This assessment solely relates to National Grid Electricity Transmission plc (NGET) and National Grid Gas plc (NGG) apparatus. This assessment does **NOT** include:

- National Grid's legal interest (easements or wayleaves) in the land which restricts activity in proximity to National Grid's assets in private land. You must obtain details of any such restrictions from the landowner in the first instance and if in doubt contact National Grid.
- Gas service pipes and related apparatus
- Recently installed apparatus
- Apparatus owned by other organisations, e.g. other gas distribution operators, local electricity companies, other utilities, etc.

This communication does not constitute any formal agreement or consent for any proposed development work; either generally or with regard to National Grid's easements or wayleaves nor any planning or building regulations applications.

NGG and NGET or their agents, servants or contractors do not accept any liability for any losses arising under or in connection with this information. This limit on liability applies to all and any claims in contract, tort (including negligence), misrepresentation (excluding fraudulent misrepresentation), breach of statutory duty or otherwise. This limit on liability does not exclude or restrict liability where prohibited by the law nor does it supersede the express terms of any related agreements.

ASSESSMENT

Affected Apparatus

The National Grid apparatus that has been identified as being in the vicinity of your proposed works is:

- Low or Medium pressure (below 2 bar) gas pipes and associated equipment. (As a result it is highly likely that there are gas services and associated apparatus in the vicinity)
- Electricity Transmission underground cables and associated equipment

Requirements

BEFORE carrying out any work you must:

- **Refer to the attached cable profile drawings (if any) which provide details about the location of National Grid's high voltage underground cables.**
- Carefully read these requirements including the attached guidance documents and maps showing the location of National Grid apparatus.
- Contact the landowner and ensure any proposed works in private land do not infringe National Grid's legal rights (i.e. easements or wayleaves). If the works are in the road or footpath the relevant local authority should be contacted.
- Ensure that all persons, including direct labour and contractors, working for you on or near National Grid's apparatus follow the requirements of the HSE Guidance Notes HSG47 - 'Avoiding Danger from Underground Services' and GS6 – 'Avoidance of danger from overhead electric power lines'. This guidance can be downloaded free of charge at <http://www.hse.gov.uk>
- In line with the above guidance, verify and establish the actual position of mains, pipes, cables, services and other apparatus on site before any activities are undertaken.

GUIDANCE

Electricity Underground Cables Guidance:

<http://www.nationalgrid.com/NR/rdonlyres/1174F509-0F16-4B68-8CF6-63FE27919E0A/51895/ElectricityUndergroundCableguidance.pdf>

Excavating Safely - Avoiding injury when working near gas pipes:

http://www.nationalgrid.com/NR/rdonlyres/2D2EEA97-B213-459C-9A26-18361C6E0B0D/25249/Digsafe_leaflet3e2finalamends061207.pdf

Standard Guidance

Essential Guidance document:

<http://www.nationalgrid.com/NR/rdonlyres/6D6525F9-59EB-4825-BA89-DBD7E68882C7/51319/EssentialGuidance.pdf>

General Guidance document:

<http://www2.nationalgrid.com/WorkArea/DownloadAsset.aspx?id=35103>

Excavating Safely in the vicinity of gas pipes guidance (Credit card):

<http://www.nationalgrid.com/NR/rdonlyres/A3D37677-6641-476C-9DDA-E89949052829/44257/ExcavatingSafelyCreditCard.pdf>

Excavating Safely in the vicinity of electricity cables guidance (Credit card):

<http://www.nationalgrid.com/NR/rdonlyres/35DDEC6D-D754-4BA5-AF3C-D607D05A25C2/44858/ExcavatingSafelyCreditCardelectricitycables.pdf>



ID: NL_TE_Z5_3SWX_140163
 USER: utilityreports
 DATE: 20/03/2015
 DATA DATE: 19/03/2015
 REF: GRS00347
 MAP REF: TQ3684
 CENTRE: 536838, 184052

View extent: 1445m, 785m

LP MAINS	
MP MAINS	
IP MAINS	
LHP MAINS	
NHP MAINS	

0m 100m
 Approximate scale 1:5000
 on A4 Colour Landscape

Map not to be used for construction

This plan shows those pipes owned by National Grid Gas plc in its role as a Licensed Gas Transporter (GT). Gas pipes owned by other GTs, or otherwise privately owned, may be present in this area. Information with regard to such pipes should be obtained from the relevant owners. The information shown on this plan is given without warranty, the accuracy thereof cannot be guaranteed. Service pipes, valves, syphons, stub connections, etc., are not shown but their presence should be anticipated. No liability of any kind whatsoever is accepted by National Grid Gas plc or their agents, servants or contractors for any error or omission. Safe digging practices, in accordance with HS(G)47, must be used to verify and establish the actual position of mains, pipes, services and other apparatus on site before any mechanical plant is used. It is your responsibility to ensure that this information is provided to all persons (either direct labour or contractors) working for you on or near gas apparatus. The information included on this plan should not be referred to beyond a period of 28 days from the date of issue.

Map 1 of 2 (GAS)

MAPS Plot Server Version 1.8.0




Requested by: Technics Group

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Valve	Depth of Cover	Syphon	Diameter Change	Material Change
-------	----------------	--------	-----------------	-----------------



ID: NL_TE_Z5_3SWX_140163
 USER: utilityreports
 DATE: 20/03/2015
 DATA DATE: 04/07/2014
 REF: GRS00347
 MAP REF: TQ3684
 CENTRE: 536838, 184052

View extent: 2890m, 1570m
 Underground cables 
 Overhead lines 
 0m  200m
 Approximate scale 1:10000
 on A4 Colour Landscape

Map not to be used for construction

This plan shows those cables owned by National Grid Electricity Transmission plc in its role as a Licensed Electricity Transporter (ET). Electricity cables owned by other ETs, or otherwise privately owned, may be present in this area. Information with regard to such cables should be obtained from the relevant owners. The information shown on this plan is given without warranty, the accuracy thereof cannot be guaranteed. Ancillary equipment such as cooling systems and communication cables are not shown but their presence should be anticipated. No liability of any kind whatsoever is accepted by National Grid Electricity Transmission plc or their agents, servants or contractors for any error or omission. Safe digging practices, in accordance with HS(G)47, must be used to verify and establish the actual position of cables and other apparatus on site before any mechanical plant is used. It is your responsibility to ensure that this information is provided to all persons (either direct labour or contractors) working for you on or near electricity apparatus. The information included on this plan should not be referred to beyond a period of 28 days from the date of issue.

Map 2 of 2 (ELECTRIC)
 MAPS Plot Server Version 1.8.0

 Requested by: Technics Group
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ENQUIRY SUMMARY

Received Date

20/03/2015

Your Reference

GRS00347

Location

Centre Point: 536838, 184052

X Extent: 303

Y Extent: 276

Postcode: E3 2NA

Location Description: Growing Concerns Garden Centre, 2 Wick Lane, Tower Hamlets, Greater London, E3 2NA

Map Options

Paper Size: A4

Orientation: LANDSCAPE

Requested Scale: 2500

Actual Scale: 1:5000 (GAS), 1:10000 (ELECTRIC)

Real World Extents: 1445m x 785m (GAS), 2890m x 1570m (ELECTRIC)

Recipients

utility.reports@technicsgroup.com

Enquirer Details

Organisation Name: Technics Group

Contact Name: Stephen Sawyer

Email Address: utility.reports@technicsgroup.com

Telephone: 01483 230080

Address: Technics House, Guildford, Guildford, Surrey, GU4 7WA

Description of Works

Growing Concerns Garden Centre, 2 Wick Lane, Tower Hamlets, Greater London, E3 2NA

Enquiry Type

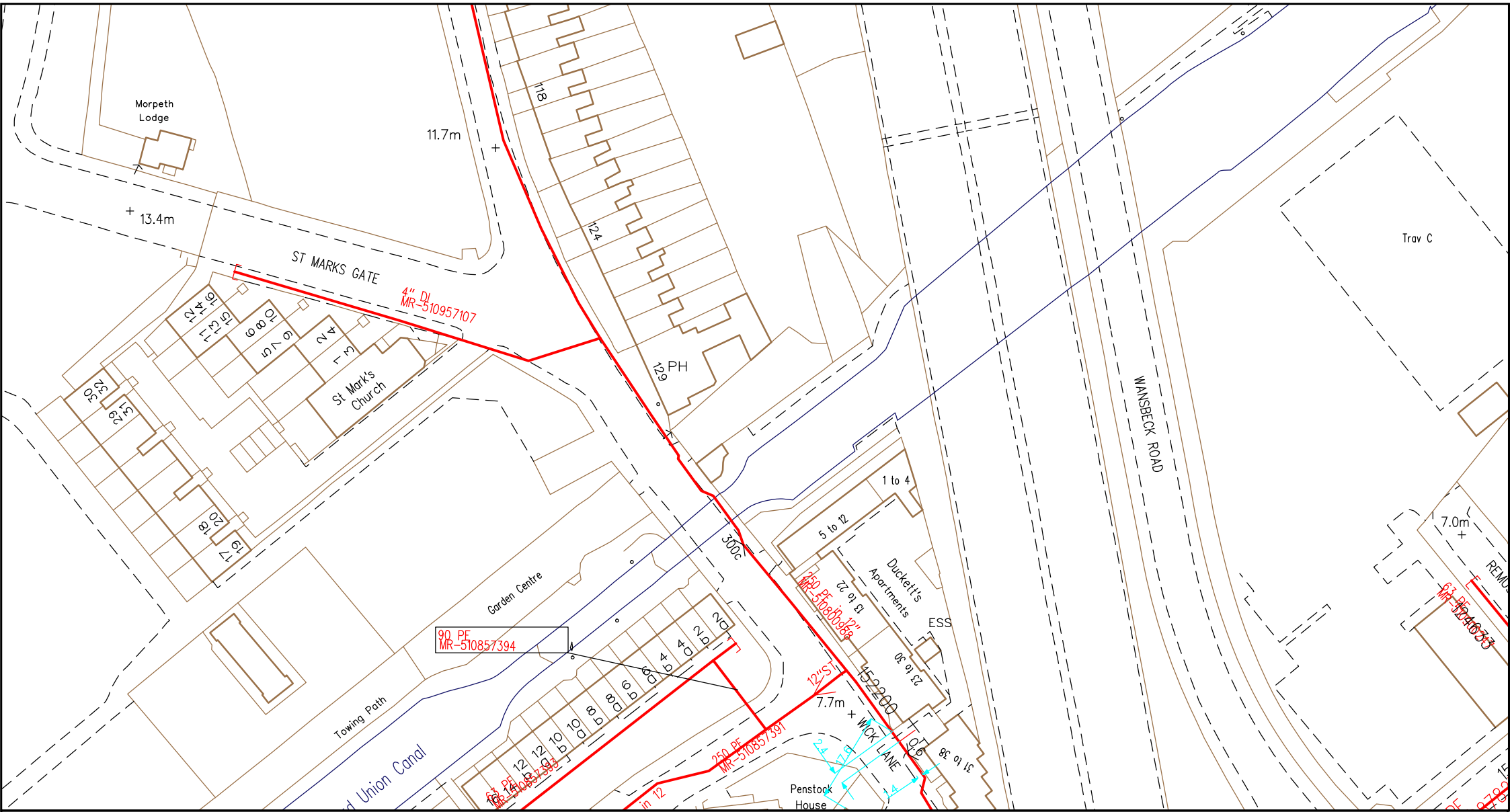
Proposed Works

Activity Type

Utility Works

Work Types

Work Type: Plans Only



SCALE: Not to scale
USER ID: stephen
DATE: 24/03/2015
EXTRACT DATE: 12/12/2014
MAP REF: TQ3684
CENTRE: 536929, 184135

LP MAINS	
MP MAINS	
IP MAINS	
LHP MAINS	
NHP MAINS	

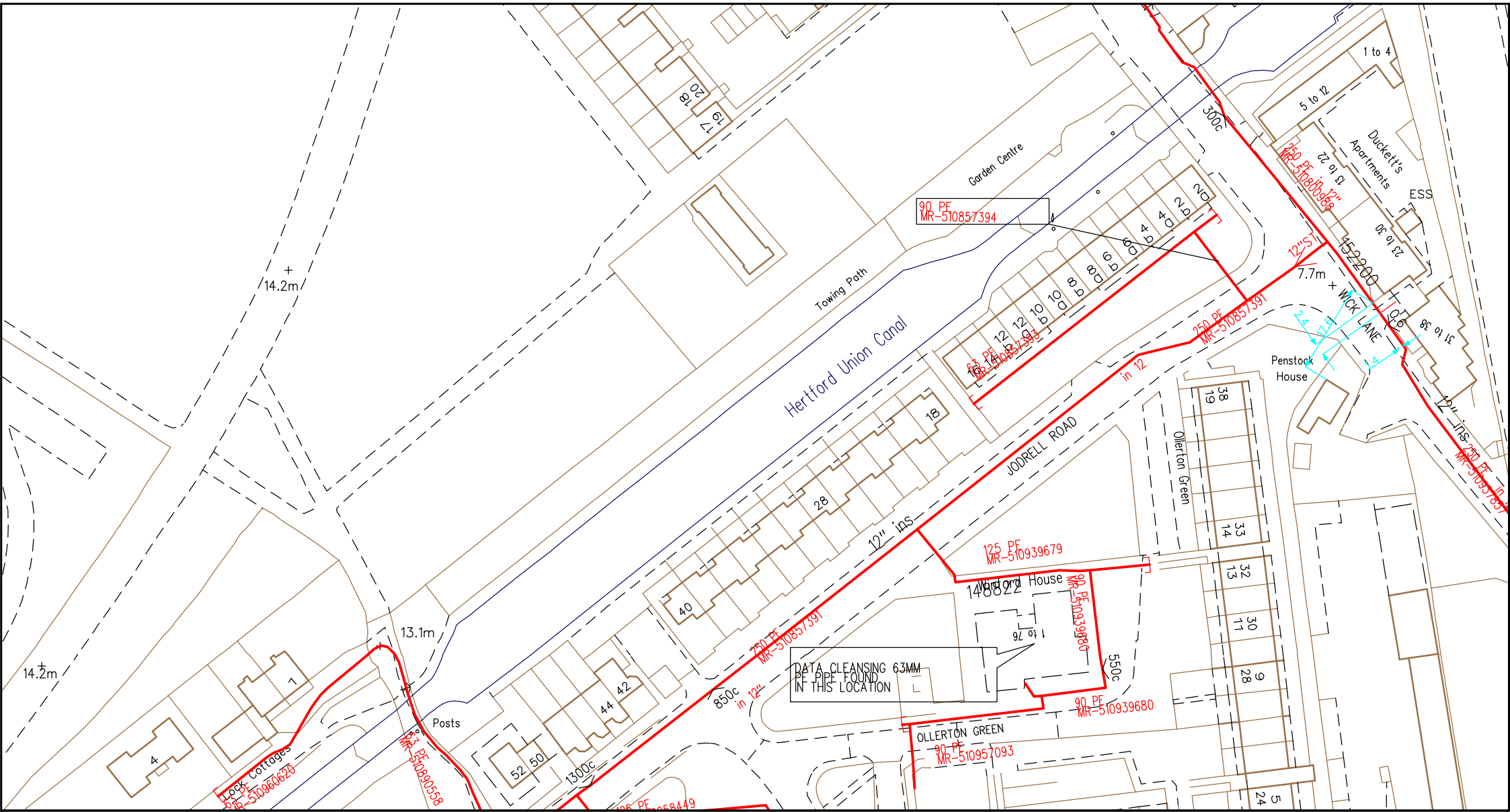
This plan shows those pipes owned by National Grid Gas plc in their role as a Licensed Gas Transporter (GT). Gas pipes owned by other GTs, or otherwise privately owned, may be present in this area. Information with regard to such pipes should be obtained from the relevant owners. The information shown on this plan is given without warranty, the accuracy thereof cannot be guaranteed. Service pipes, valves, syphons, stub connections, etc. are not shown but their presence should be anticipated. No liability of any kind whatsoever is accepted by National Grid Gas plc or their agents, servants or contractors for any error or omission. Safe digging practices, in accordance with HS(G)47, must be used to verify and establish the actual position of mains, pipes, services and other apparatus on site before any mechanical plant is used. It is your responsibility to ensure that this information is provided to all persons (either direct labour or contractors) working for you on or near gas apparatus. The information included on this plan should not be referred to beyond a period of 28 days from the date of issue. Further information on all DR4s can be determined by calling the DR4 hotline on 01455 892426 (9am-5pm) A DR4 is where a potential error has been identified within the asset record and a process is currently underway to investigate and resolve the error as appropriate.

MAPS Viewer Version 5.6.7.0

Local Machine

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SCALE: Not to scale
USER ID: stephen
DATE: 24/03/2015
EXTRACT DATE: 12/12/2014
MAP REF: TQ3684
CENTRE: 536833, 184049

LP MAINS	
MP MAINS	
IP MAINS	
LHP MAINS	
NHP MAINS	

This plan shows those pipes owned by National Grid Gas plc in their role as a Licensed Gas Transporter (GT). Gas pipes owned by other GTs, or otherwise privately owned, may be present in this area. Information with regard to such pipes should be obtained from the relevant owners. The information shown on this plan is given without warranty, the accuracy thereof cannot be guaranteed. Service pipes, valves, syphons, stub connections, etc. are not shown but their presence should be anticipated. No liability of any kind whatsoever is accepted by National Grid Gas plc or their agents, servants or contractors for any error or omission. Safe digging practices, in accordance with HS(G)47, must be used to verify and establish the actual position of mains, pipes, services and other apparatus on site before any mechanical plant is used. It is your responsibility to ensure that this information is provided to all persons (either direct labour or contractors) working for you on or near gas apparatus. The information included on this plan should not be referred to beyond a period of 28 days from the date of issue. Further information on all DR4s can be determined by calling the DR4 hotline on 01455 892426 (9am-5pm) A DR4 is where a potential error has been identified within the asset record and a process is currently underway to investigate and resolve the error as appropriate.

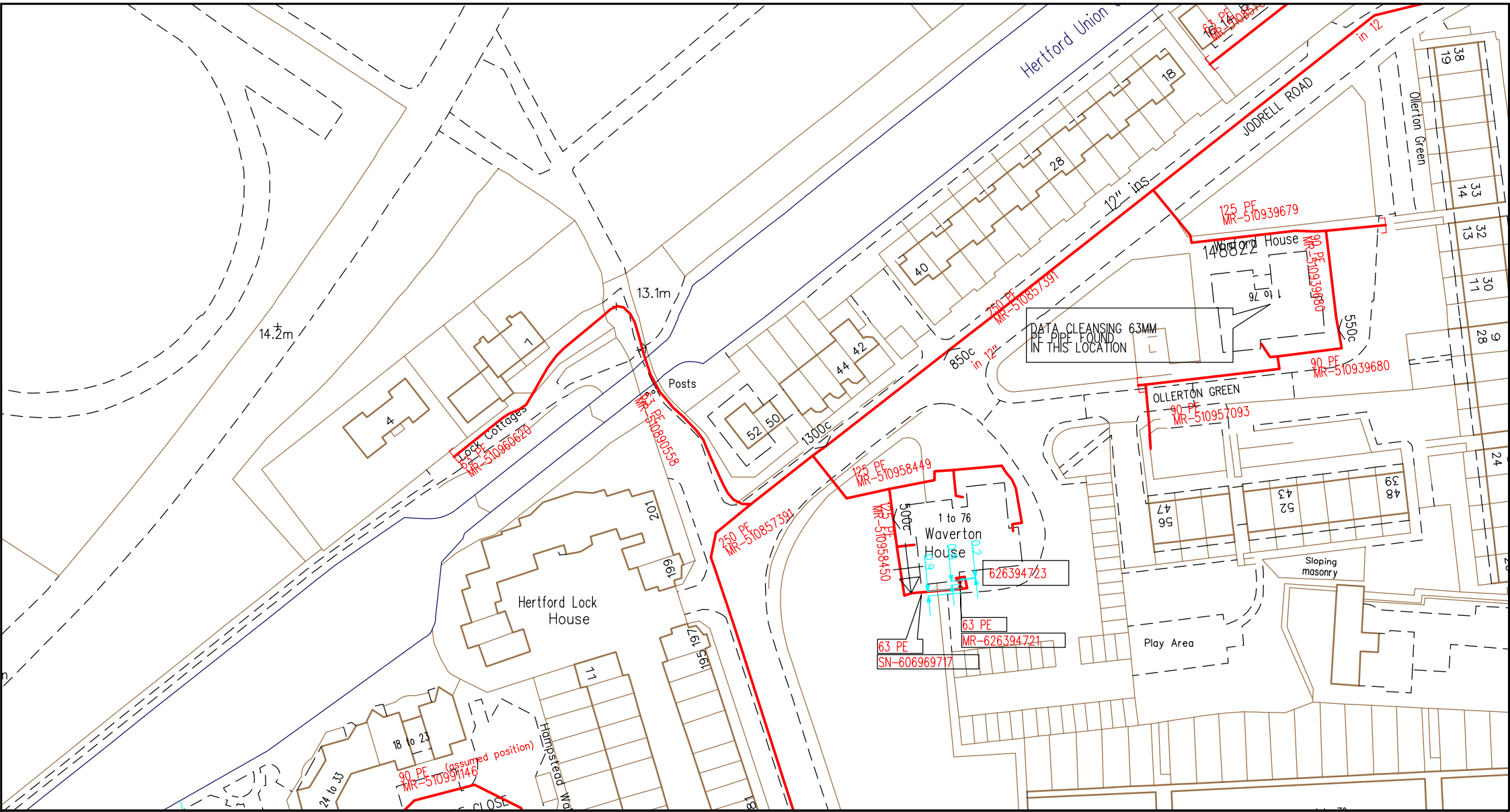
MAPS Viewer Version 5.6.7.0

Local Machine

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Some examples of Plant Items:

Valve	Depth of Cover	Syphon	Diameter Change	Material Change
-------	----------------	--------	-----------------	-----------------



SCALE: Not to scale
USER ID: stephen
DATE: 24/03/2015
EXTRACT DATE: 12/12/2014
MAP REF: TQ3683
CENTRE: 536787, 183982

LP MAINS	
MP MAINS	
IP MAINS	
LHP MAINS	
NHP MAINS	

This plan shows those pipes owned by National Grid Gas plc in their role as a Licensed Gas Transporter (GT). Gas pipes owned by other GTs, or otherwise privately owned, may be present in this area. Information with regard to such pipes should be obtained from the relevant owners. The information shown on this plan is given without warranty, the accuracy thereof cannot be guaranteed. Service pipes, valves, syphons, stub connections, etc. are not shown but their presence should be anticipated. No liability of any kind whatsoever is accepted by National Grid Gas plc or their agents, servants or contractors for any error or omission. Safe digging practices, in accordance with HS(G)47, must be used to verify and establish the actual position of mains, pipes, services and other apparatus on site before any mechanical plant is used. It is your responsibility to ensure that this information is provided to all persons (either direct labour or contractors) working for you on or near gas apparatus. The information included on this plan should not be referred to beyond a period of 28 days from the date of issue. Further information on all DR4s can be determined by calling the DR4 hotline on 01455 892426 (9am-5pm) A DR4 is where a potential error has been identified within the asset record and a process is currently underway to investigate and resolve the error as appropriate.

MAPS Viewer Version 5.6.7.0

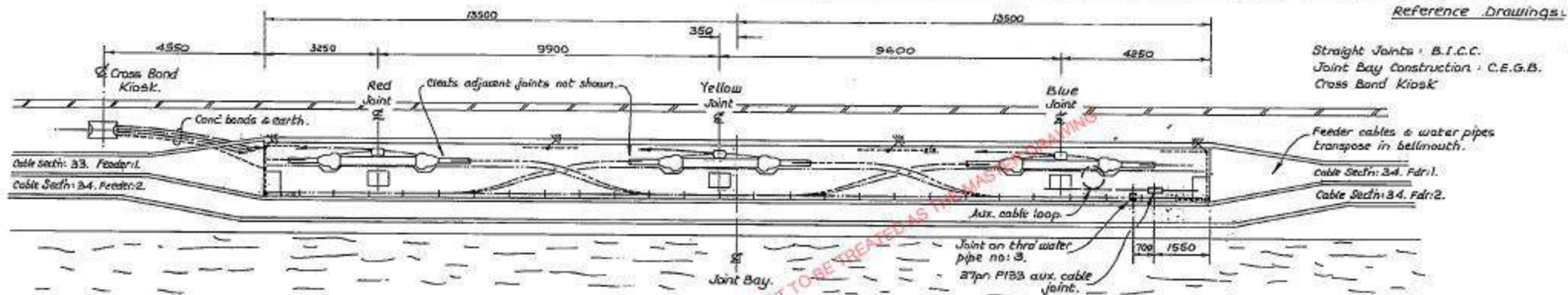
Local Machine

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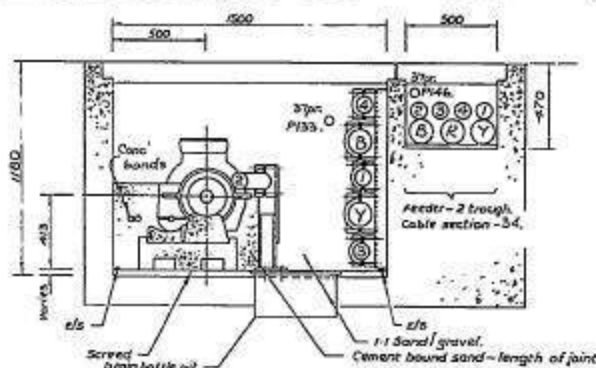
Some examples of Plant Items:

Valve		Depth of Cover		Syphon		Diameter Change		Material Change	
-------	--	----------------	--	--------	--	-----------------	--	-----------------	--

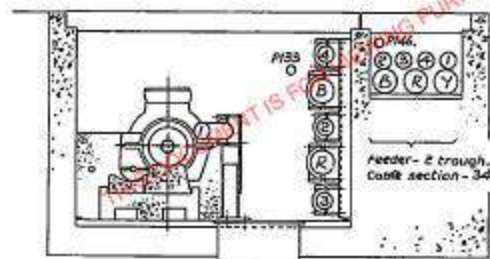
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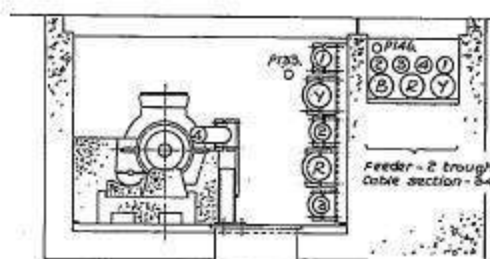
Layout of Straight Joint Bay ~ 33/34. Scale - 1:100



Section on Red Phase Joint.



Section on Yellow Phase Joint.



Section on Blue Phase Joint.

Cross Sections Facing West Nam. Scale - 1:25.

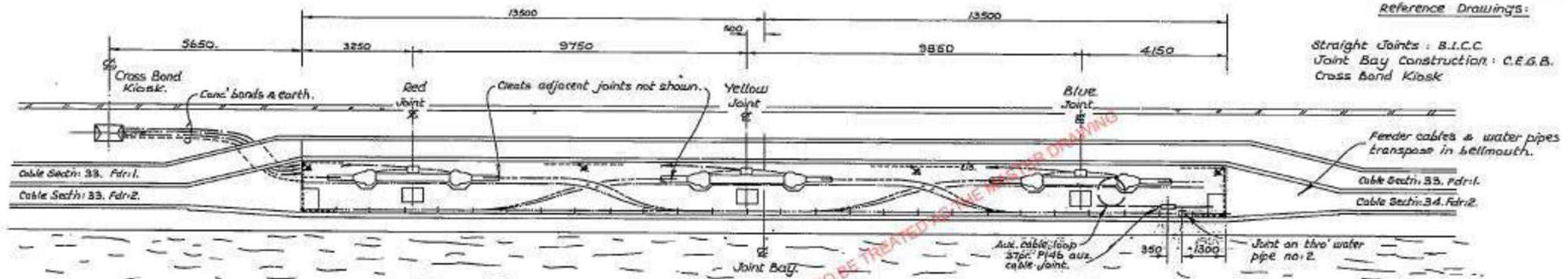
Jointing Details ~ Feeder Cables.

Phase	Type of Cable.	Jointer.	Date.
R	400 kv. S.C. 2000 ^{mm} all filled lead sheath.	D. Kerr.	10-7-80
Y	—	—	15-7-80
B	—	—	18-7-80

Jointing Details ~ Auxiliary Cables.

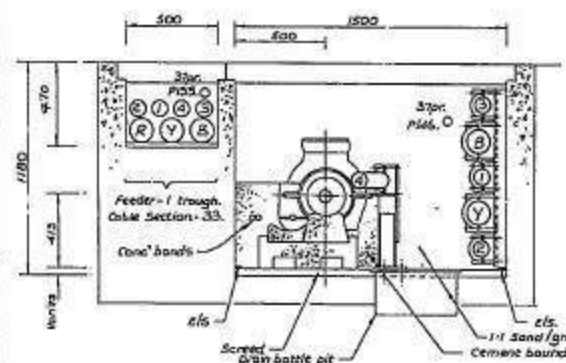
	Type of Cable.	Jointer.	Date.
P153	37pn 1/0-3mm Pe. Pa. Awl. Pe. jelly filled.	B. Mansfield.	25-7-80

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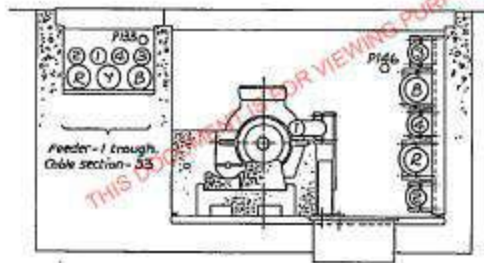


Reference Drawings:
 Straight Joints : B.I.C.C. : E95480-D1.
 Joint Bay Construction : C.E.G.B. : 16/16.307 rev. A.
 Cross Bond Kiosk : E90348-D3.

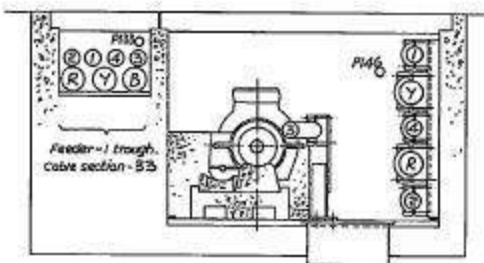
Layout of Straight Joint Bay - 33/34. Scale - 1:100



Section on Red Phase Joint.



Section on Yellow Phase Joint.
 Cross Sections Facing West Ham. Scale - 1:25.

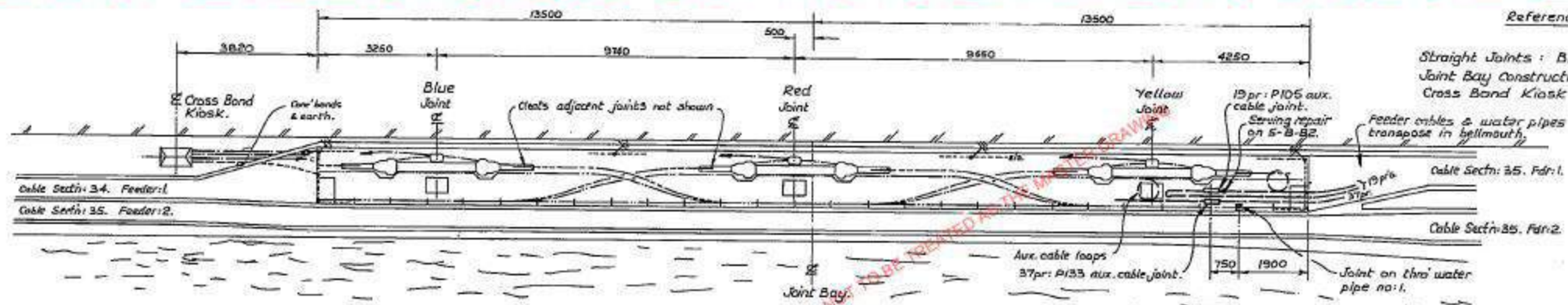


Section on Blue Phase Joint.

Phase	Type of Cable.	Jointer.	Date.
R	400 kv. S.C. 2000 ² mm. oil filled, lead sheath.	D. Kerr.	14-2-80
Y	---	---	11-2-80
B	---	---	6-2-80

	Type of Cable.	Jointer	Date.
P146	37pc. 1/0.3mm. P.C. P.C. AWG. Pe. jelly filled.	J. Kerridge.	28-8-80

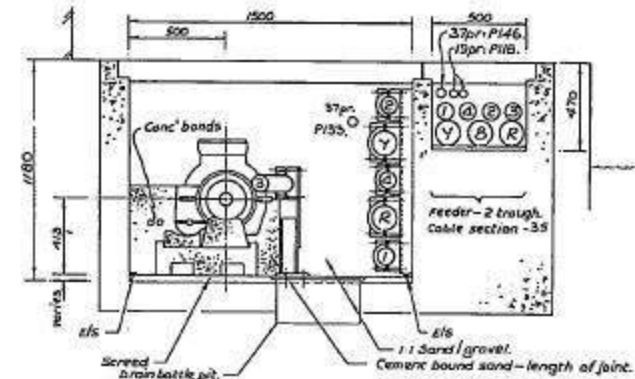
70/3620 SHT 109



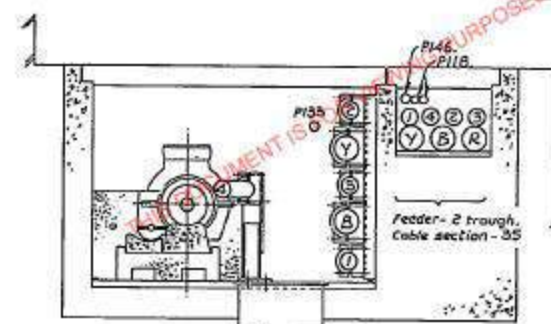
Reference Drawings:

- Straight Joints : B.I.C.C. : E95480 - D1.
- Joint Bay Construction : C.E.G.B : 16/163/10 rev. B.
- Cross Bond Kiosk : E90348 - D3.

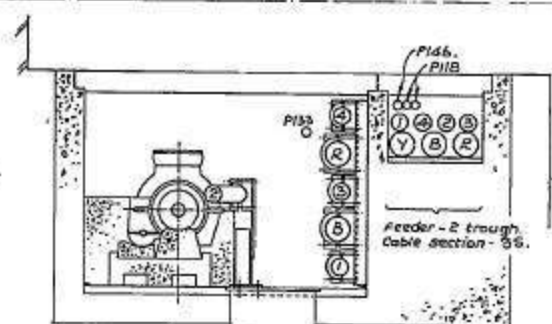
Layout of Straight Joint Bay ~ 34/35, Scale - 1:100



Section on Blue Phase Joint.



Section on Red Phase Joint.



Section on Yellow Phase Joint.

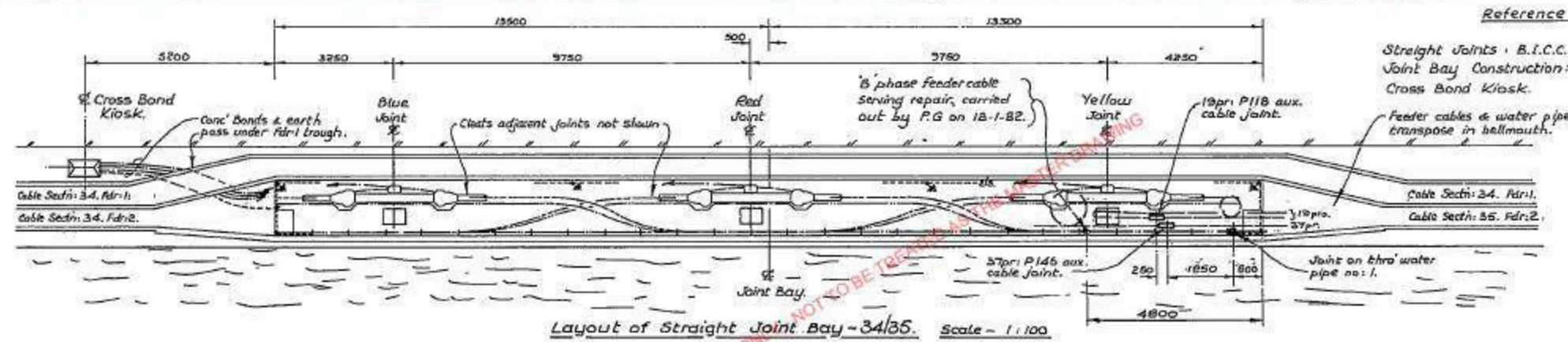
Cross Sections - Facing West Ham, Scale - 1:25.

Jointing Details ~ Feeder Cables.

Phase	Type of Cable.	Jointer	Date
R	400 kv. S.C. 2000 ² mm. oil filled, lead sheath.	V. Stuchbury.	20-11-81.
Y	—	—	25-11-81.
B	—	—	17-11-81.

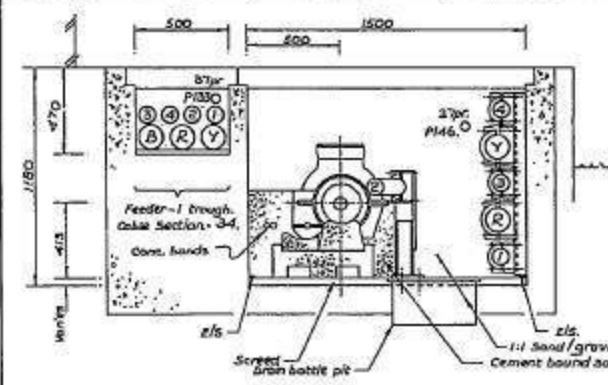
Jointing Details ~ Auxiliary Cables.

	Type of Cable	Jointer	Date.
P133	37pr. 1/0.9mm. Pe. Pe. AWA. Pe. jelly filled.	B. Mansfield.	13-1-82.
P105	19pr. 1/0.9mm. Pe. Pe. AWA. Pe. jelly filled.	—	14-1-82.

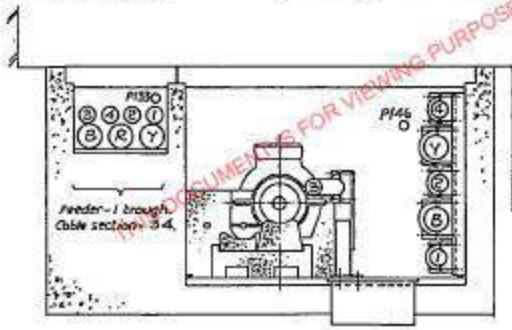


Reference Drawings:
 Straight Joints: B.I.C.C. : E95480-D1.
 Joint Bay Construction: C.F.G.B. : 16/16309 rev.4
 Cross Bond Kiosk. : E90348-D3.

Layout of Straight Joint Bay - 34/35. Scale = 1:100

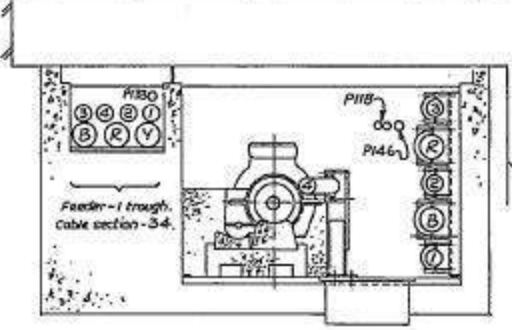


Section on Blue Phase Joint.



Section on Red Phase Joint.

Cross Sections Facing West Ham. Scale = 1:25.



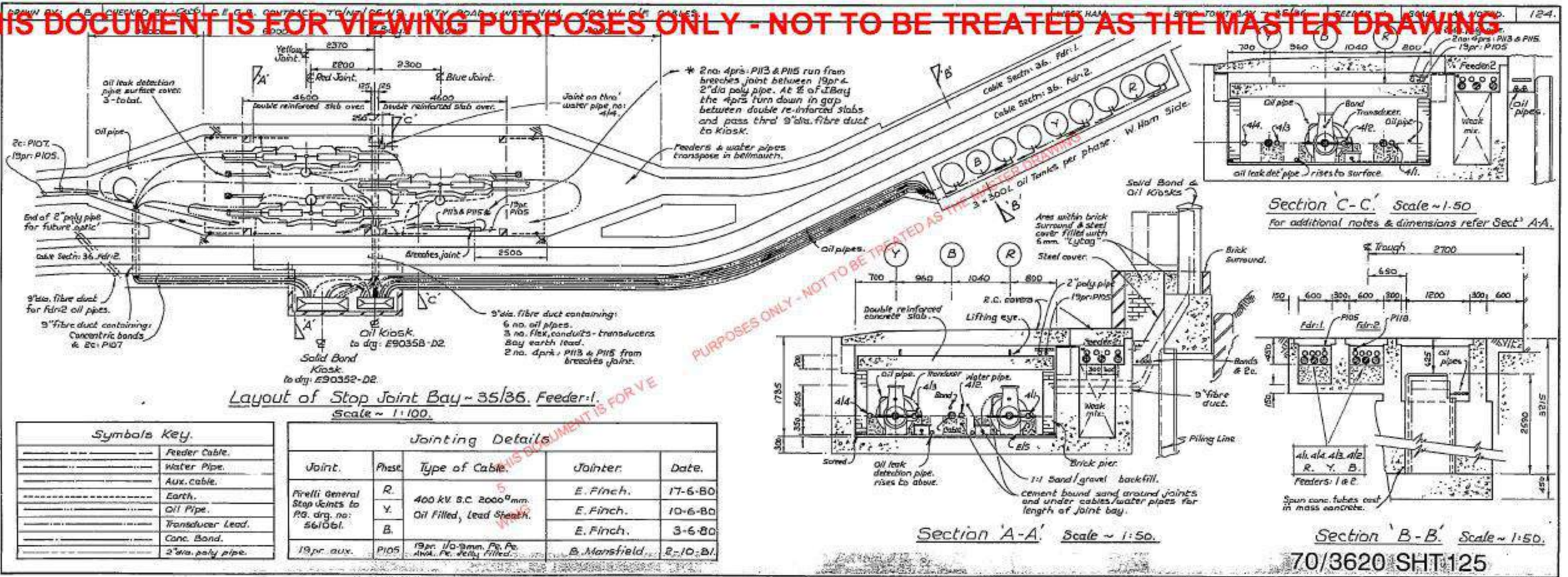
Section on Yellow Phase Joint.

Phase	Type of Cable.	Jointer.	Date.
R	400 kv. S.C. 2000 mm. oil filled. Lead sheath.	V. Stuchbury.	4-12-81.
Y	---	---	1-12-81.
B	---	---	9-12-81.

	Type of Cable.	Jointer.	Date.
P146	57pr. 110.9mm. Pz. Pe. AWA. Pe. jelly filled.	B. Mansfield.	19-1-82.
P118	19pr. 110.9mm. Pz. Pe. AWA. Pe. jelly filled.	---	23-1-82.

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Layout of Stop Joint Bay ~ 35/36. Feeder:1.
Scale ~ 1:100.

Symbols Key.	
-----	Feeder Cable.
-----	Water Pipe.
-----	Aux. cable.
-----	Earth.
-----	Oil Pipe.
-----	Transducer Lead.
-----	Conc. Bond.
-----	2" dia. poly pipe.

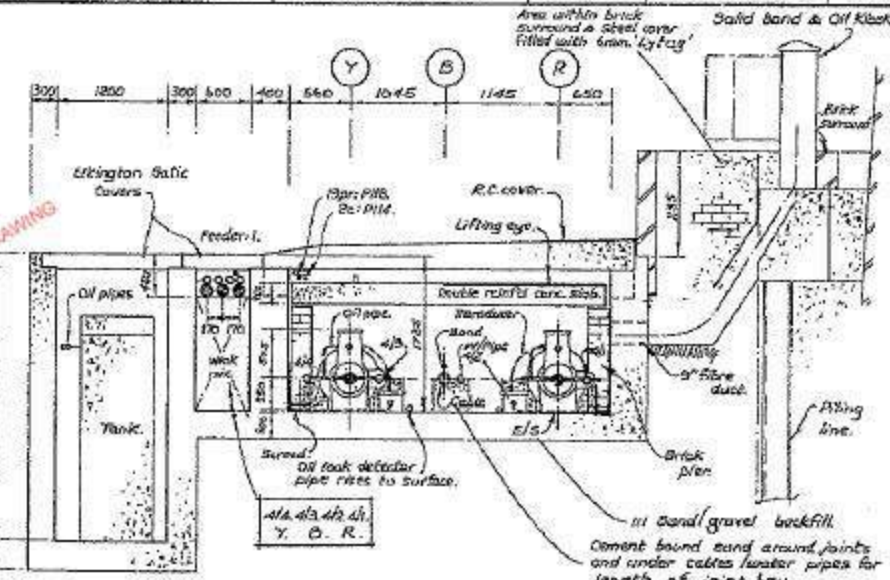
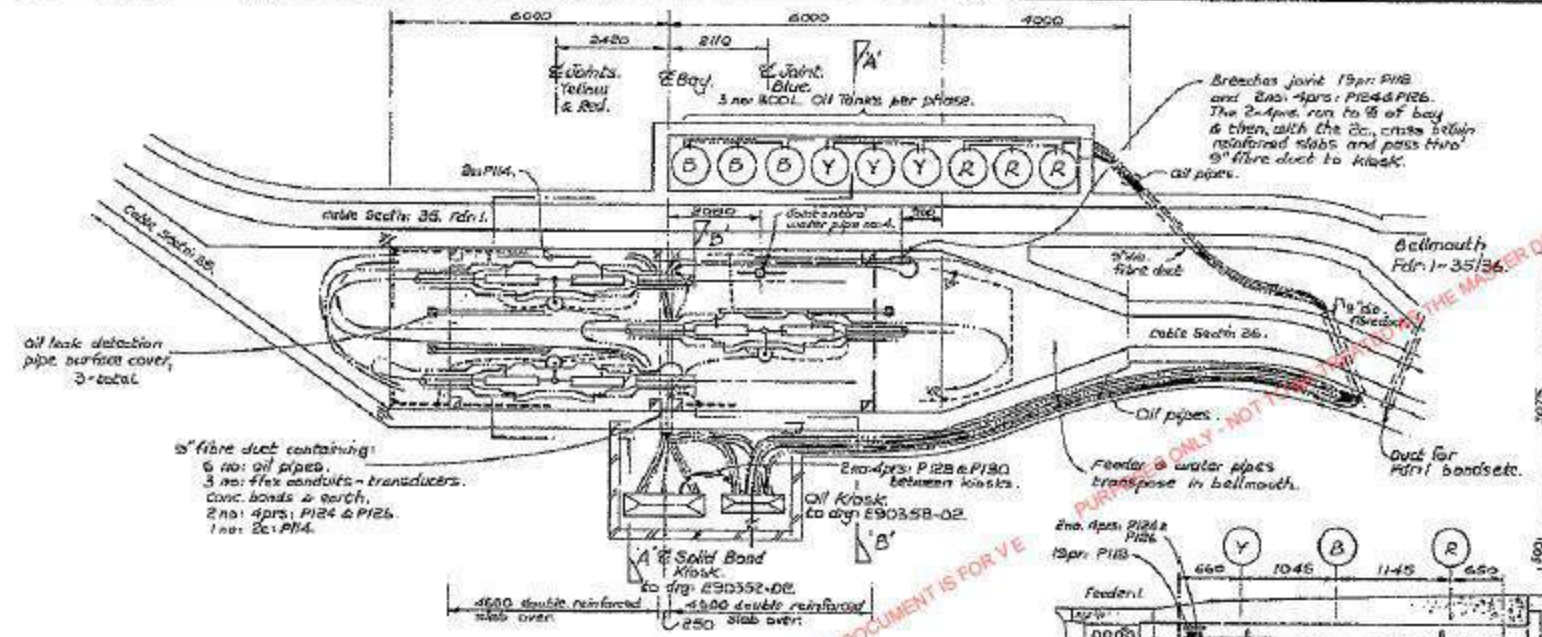
Joining Details				
Joint.	Phase	Type of Cable.	Joiner.	Date.
Firelli General Stop Joints to PG. drg. no: 5610bl.	R.	400 kv S.C. 2000 ⁹ mm.	E. Finch.	17-6-80
	Y.	Oil Filled, Lead Sheath.	E. Finch.	10-6-80
	B.		E. Finch.	3-6-80
19pr. aux.	P105	19pr. 1/4-3mm. Pp. Pp. Anod. Pp. Jetty Filled.	B. Mansfield	2-10-81

Section 'C-C'. Scale ~ 1:50
for additional notes & dimensions refer Sect' A-A.

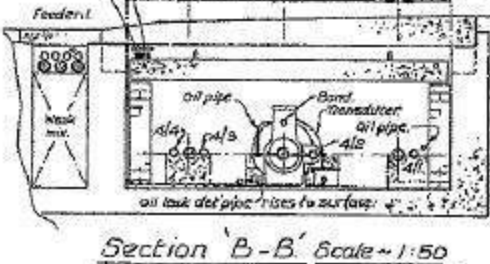
Section 'A-A'. Scale ~ 1:50.

Section 'B-B'. Scale ~ 1:50.

70/3620 SHT:125



Layout of Stop Joint Bay - 35/36. Feeder-2. Scale - 1:100.



Section B-B' Scale - 1:50

Section A-A' Scale - 1:50
70/3620 SHT 126
Jointing Details

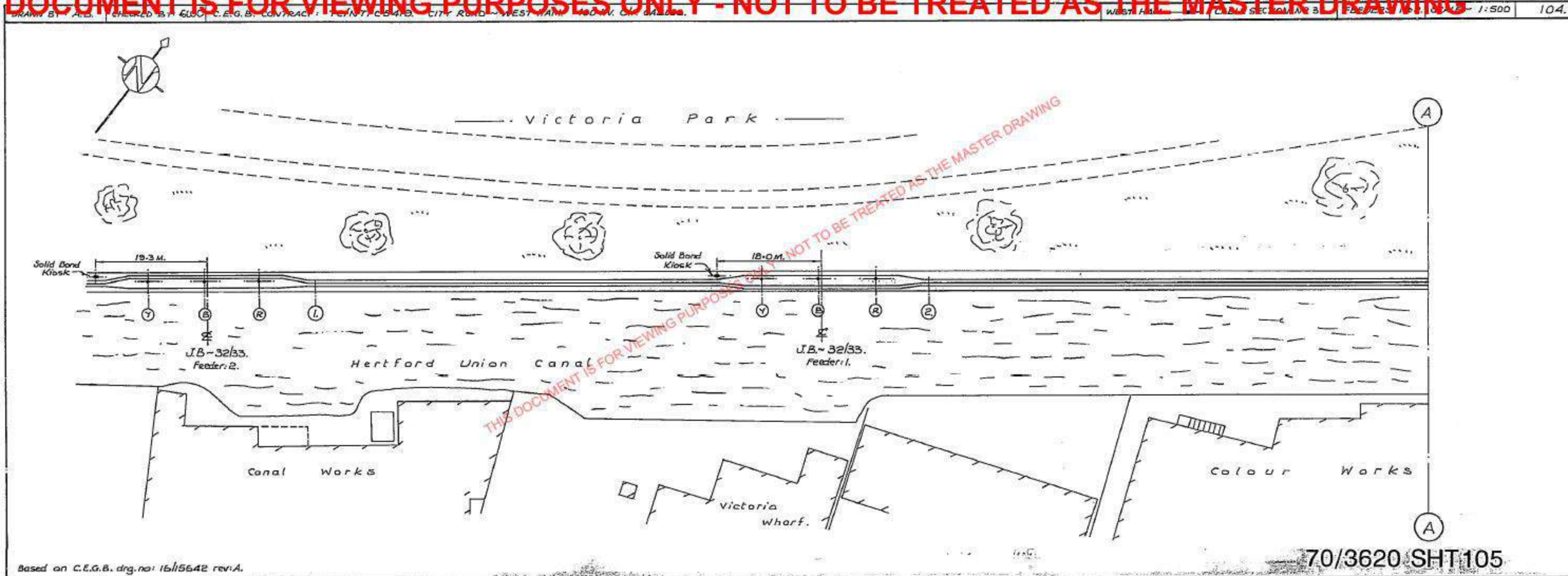
Joint	Phase	Type of cable	Jointer	Date
Firell General Stop Joints to R.C. dry not 561051.	R.	400 kv. S.C. 2000 ^{mm} . Oil filled, Lead Sheath.	R. A. Ferryhough.	20-5-80
	Y.		R. A. Ferryhough.	22-5-80
	B.		R. A. Ferryhough.	4-6-80.
19pr. 1/2 2pr. P118. AWA. P124. P126. P127. P128. P129. P130. P131. P132. P133. P134. P135. P136. P137. P138. P139. P140. P141. P142. P143. P144. P145. P146. P147. P148. P149. P150. P151. P152. P153. P154. P155. P156. P157. P158. P159. P160. P161. P162. P163. P164. P165. P166. P167. P168. P169. P170. P171. P172. P173. P174. P175. P176. P177. P178. P179. P180. P181. P182. P183. P184. P185. P186. P187. P188. P189. P190. P191. P192. P193. P194. P195. P196. P197. P198. P199. P200. P201. P202. P203. P204. P205. P206. P207. P208. P209. P210. P211. P212. P213. P214. P215. P216. P217. P218. P219. P220. P221. P222. P223. P224. P225. P226. P227. P228. P229. P230. P231. P232. P233. P234. P235. P236. P237. P238. P239. P240. P241. P242. P243. P244. P245. P246. P247. P248. P249. P250. P251. P252. P253. P254. P255. P256. P257. P258. P259. P260. P261. P262. P263. P264. P265. P266. P267. P268. P269. P270. P271. P272. P273. P274. P275. P276. P277. P278. P279. P280. P281. P282. P283. P284. P285. P286. 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Symbols Key.

	Feeder cable.
	Water pipe.
	Aux. cable.
	Earth.
	Oil pipe.
	Transducer lead.
	Conc. band.

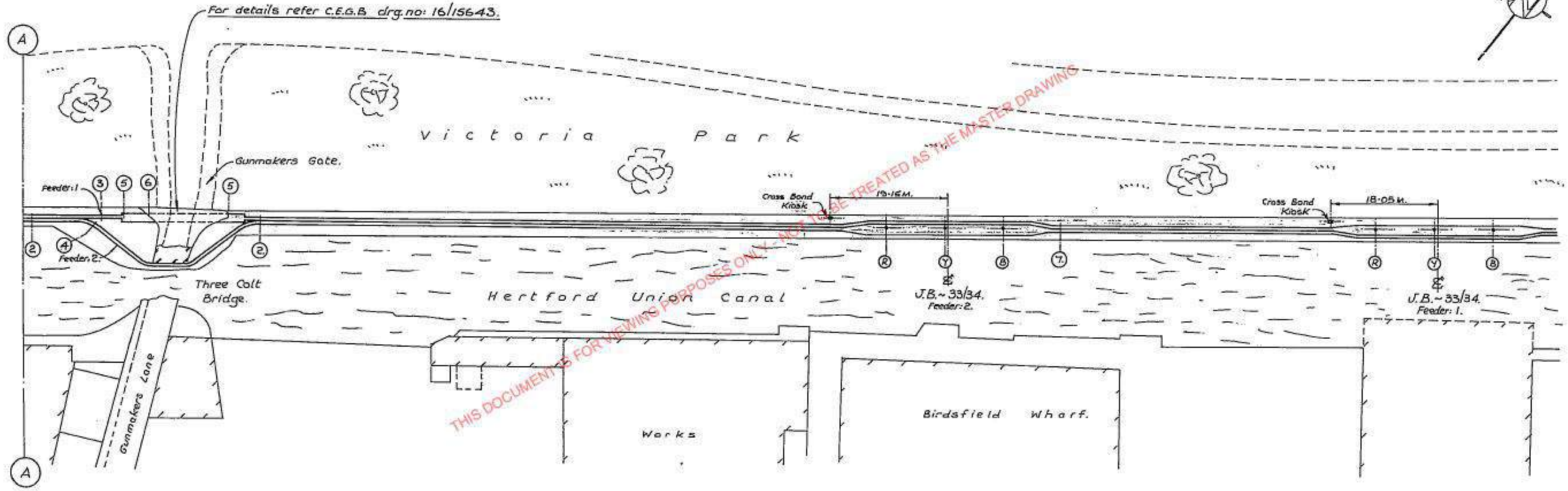
For additional notes & dimensions refer to Section A-A'

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DRAWN BY: A.B. CHECKED BY: GUC C.E.G.B. CONTRACT: TC/INT/CSA19 CITY ROAD - WEST HAM 400KV O/E CABLES WEST HAM CABLE SECTION NO. 23 FEEDERS 1 & 2 SCALE 1:500 105.

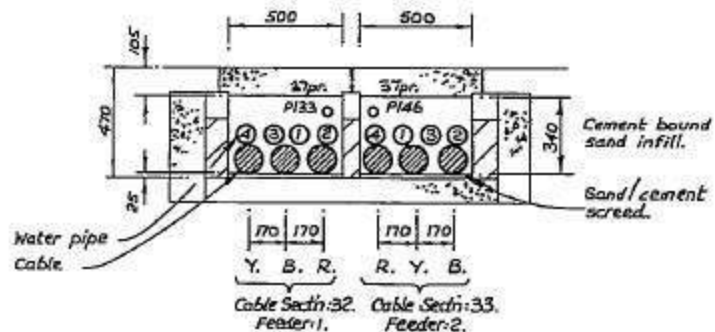


THIS DOCUMENT IS FOR VIEWING PURPOSES ONLY - NOT TO BE TREATED AS THE MASTER DRAWING

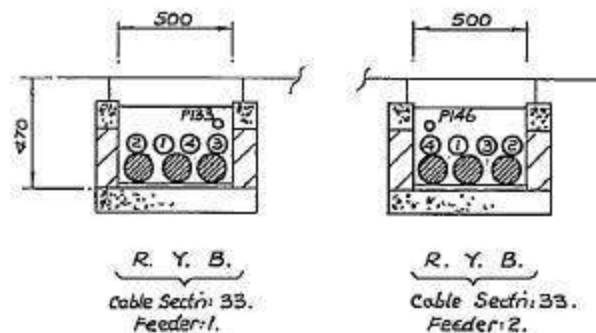
Based on C.E.G.B. drg.no: 16/15644.

70/3620 SHT 106

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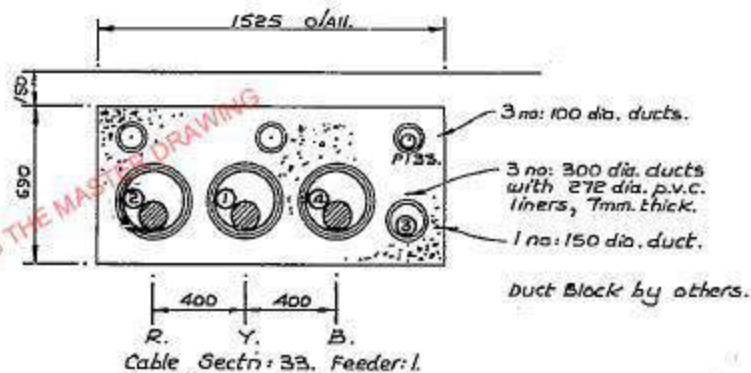


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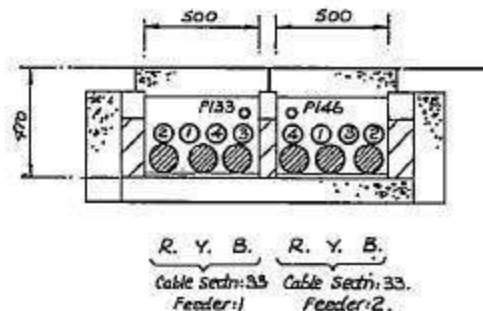
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4.

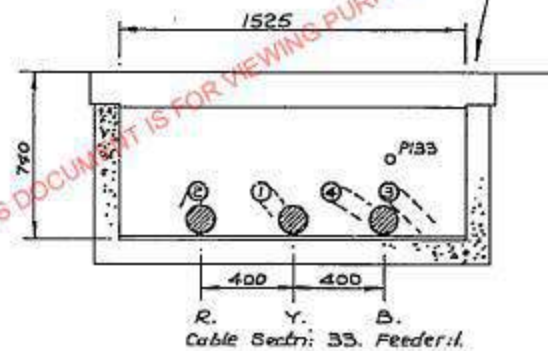


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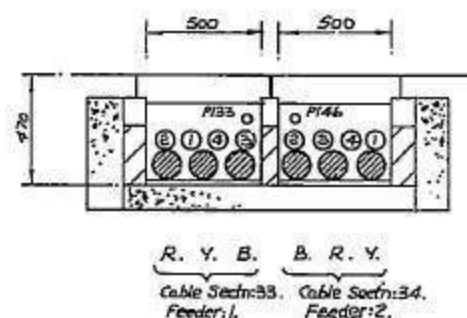
For construction details refer to C.E.G.B. drg. no: 16/15643



2.



5.

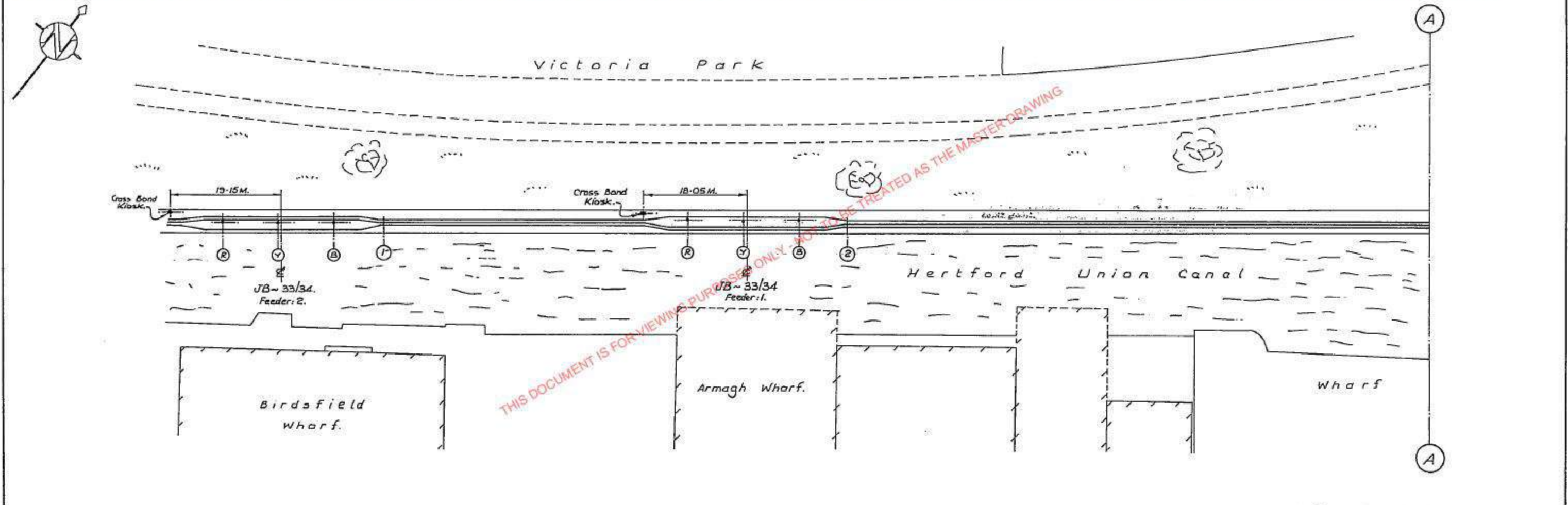


7.

Trough construction & base screed by others.

70/3620 SHT 107

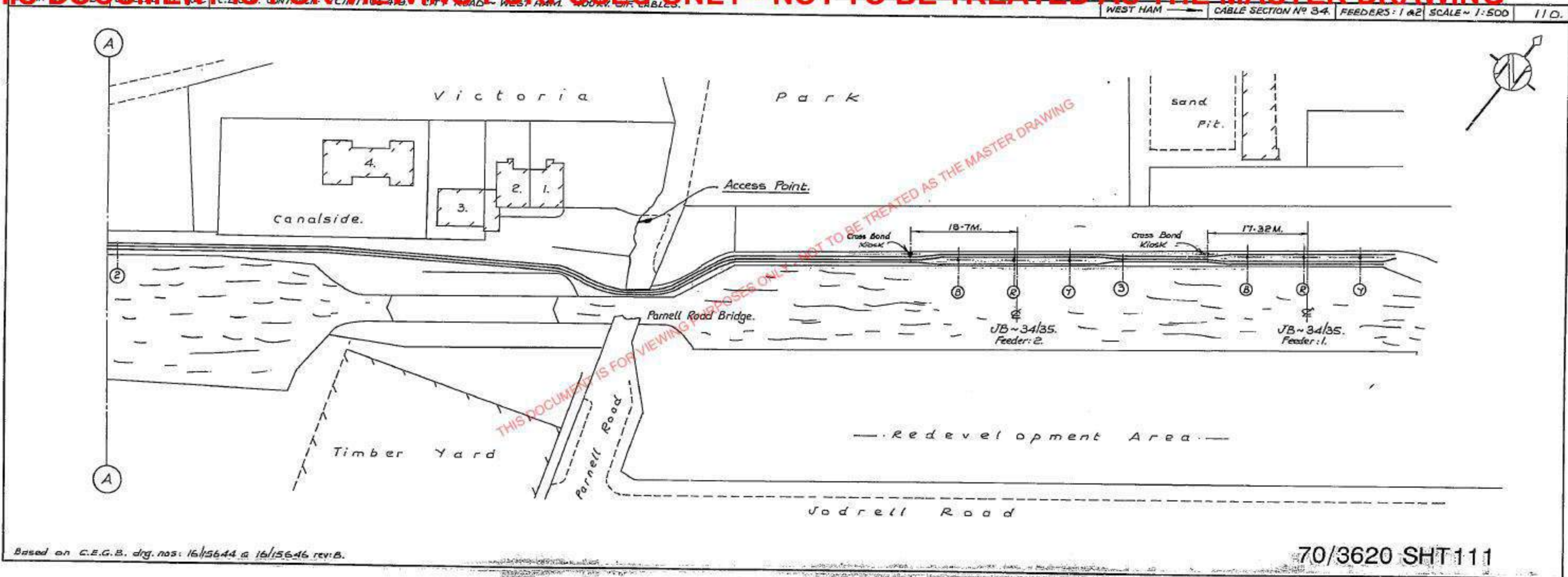
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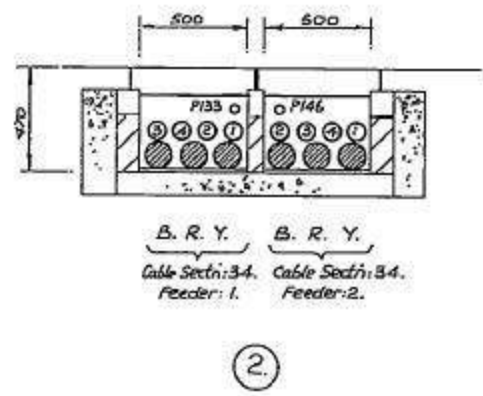
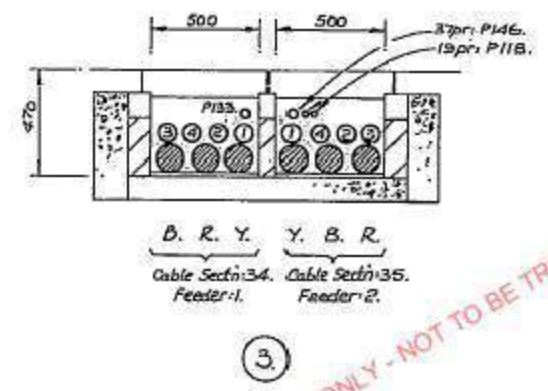
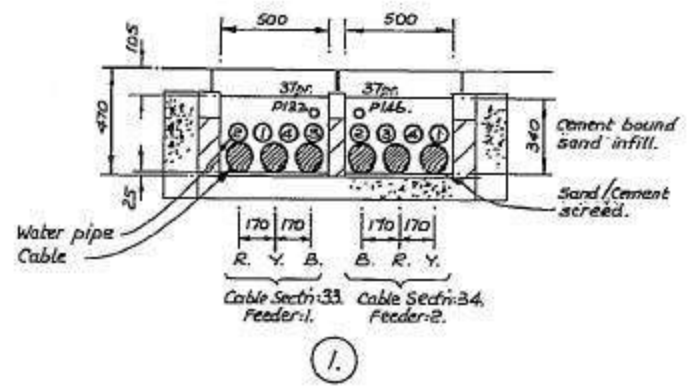


Based on C.E.G.B. drg. no: 16/15644.

70/3620 SHT 1.10

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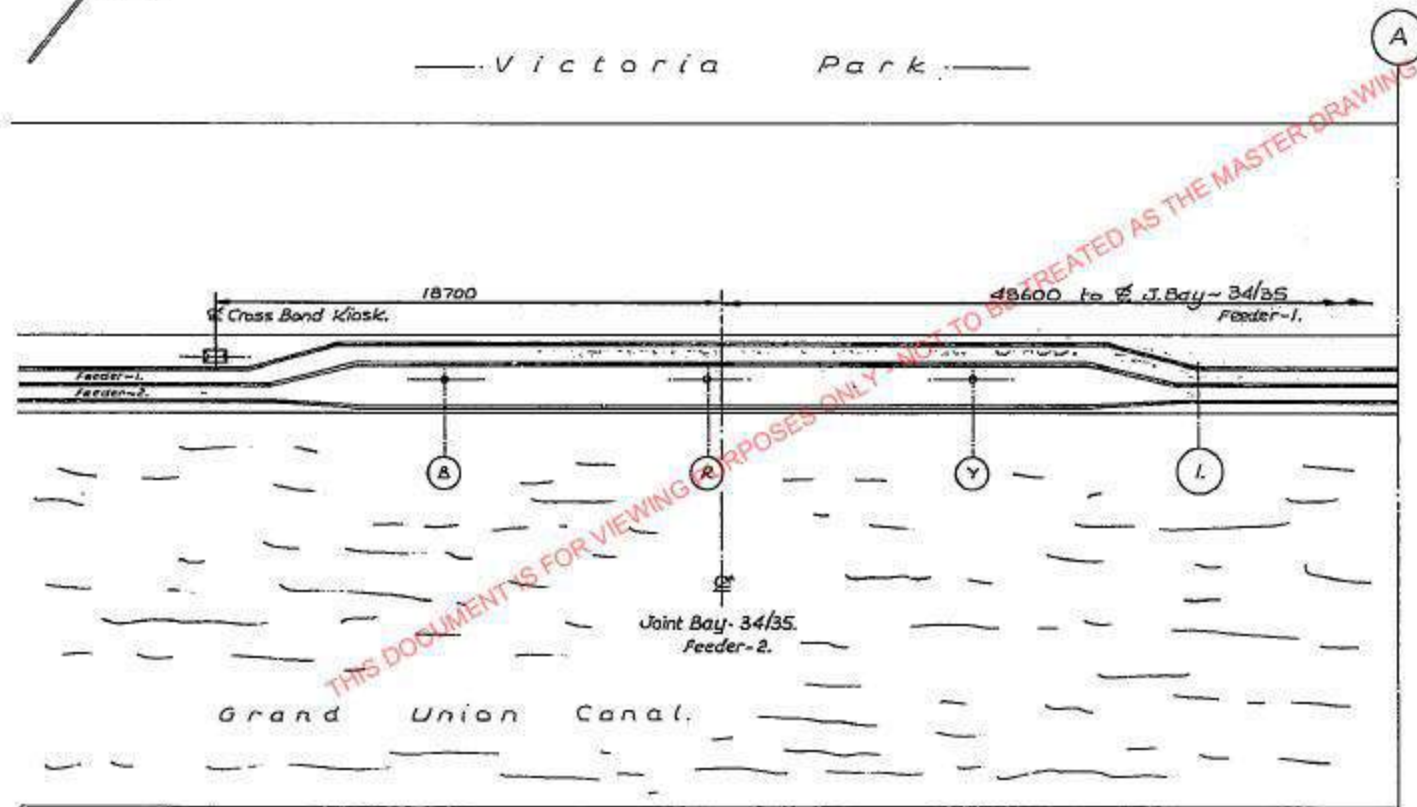
THIS DOCUMENT IS FOR VIEWING PURPOSES ONLY - NOT TO BE TREATED AS THE MASTER DRAWING

Trough construction & base screed by others.

THIS DOCUMENT IS FOR VIEWING PURPOSES ONLY - NOT TO BE TREATED AS THE MASTER DRAWING



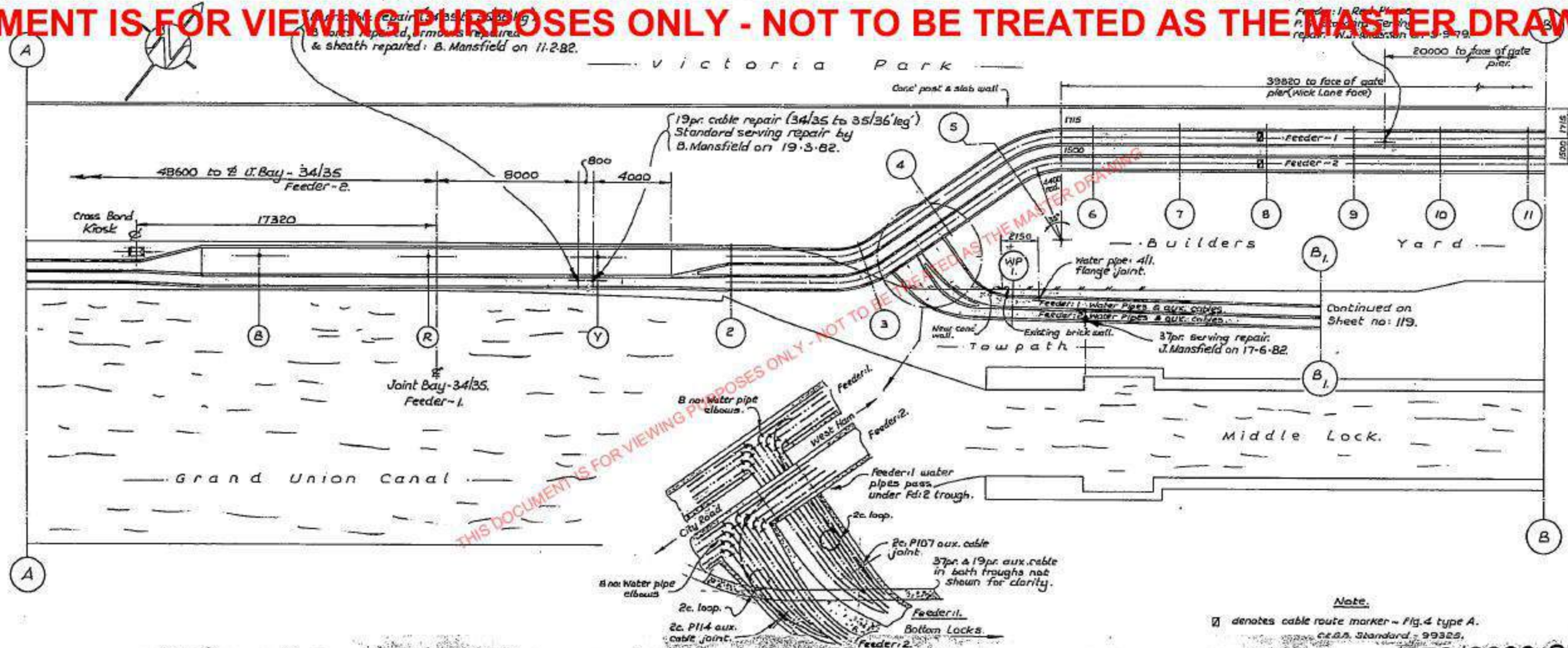
— Victoria Park —



Grand Union Canal.

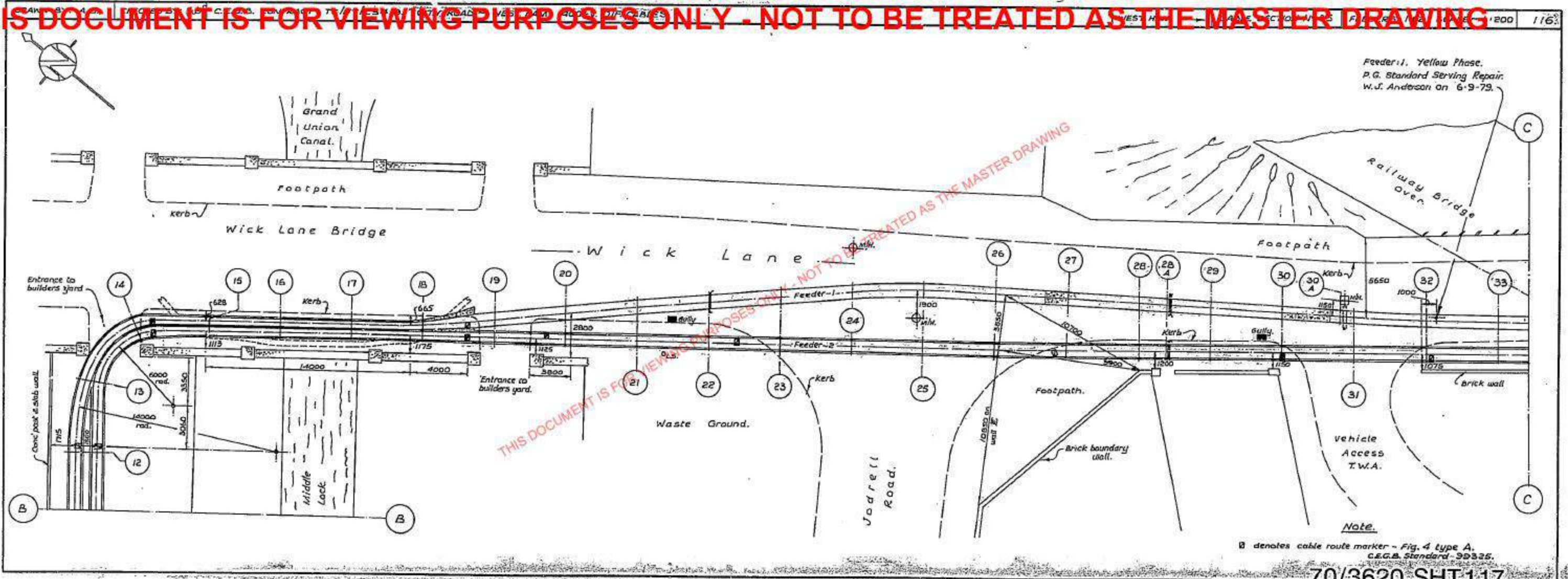
70/3620 SHT:115

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70/3620 SHT 116

THIS DOCUMENT IS FOR VIEWING PURPOSES ONLY - NOT TO BE TREATED AS THE MASTER DRAWING



Feeder-1, Yellow Phase.
P.G. Standard Servicing Repair.
W.J. Anderson on 6-9-79.

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Note.
Ø denotes cable route marker - Fig. 4 type A.
C.E.G.B. Standard 99325.

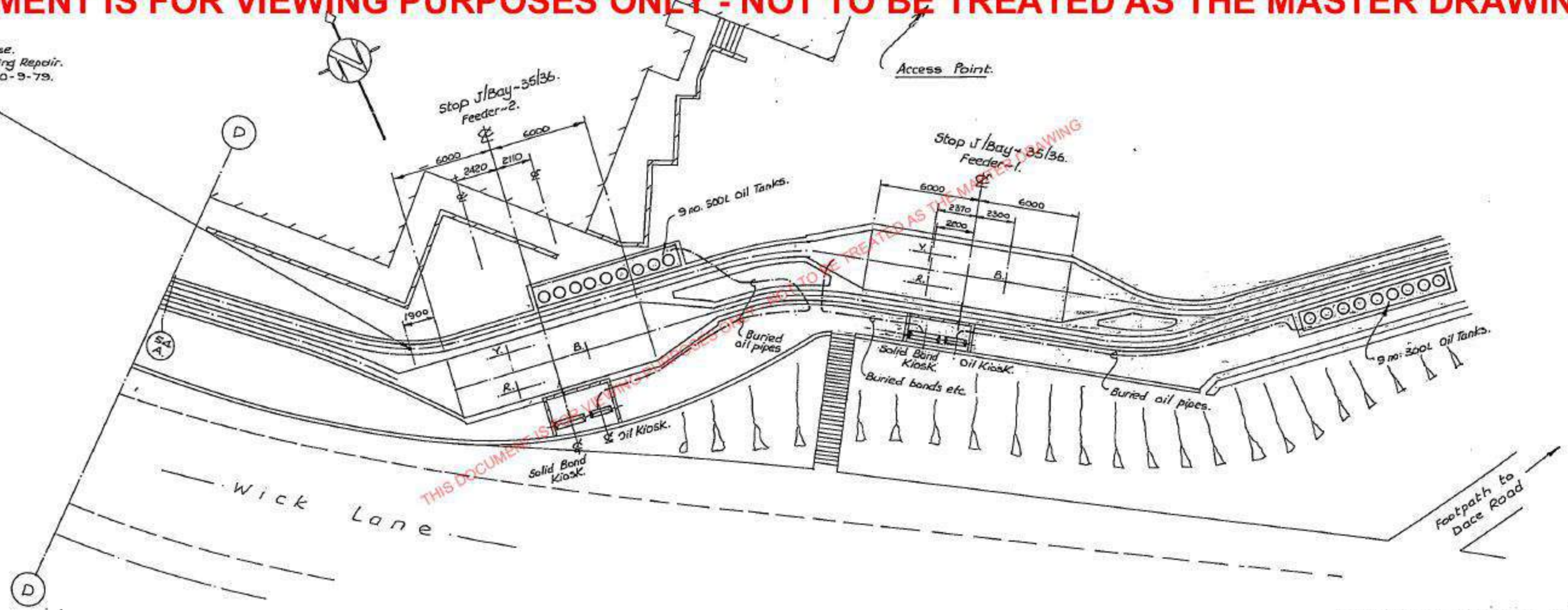
70/3620-SHT 117

THIS DOCUMENT IS FOR VIEWING PURPOSES ONLY - NOT TO BE TREATED AS THE MASTER DRAWING



THIS DOCUMENT IS FOR VIEWING PURPOSES ONLY - NOT TO BE TREATED AS THE MASTER DRAWING

Feeder-1. Blue phase.
P.G. Standard Servicing Repair.
J. Anderson on 10-9-79.



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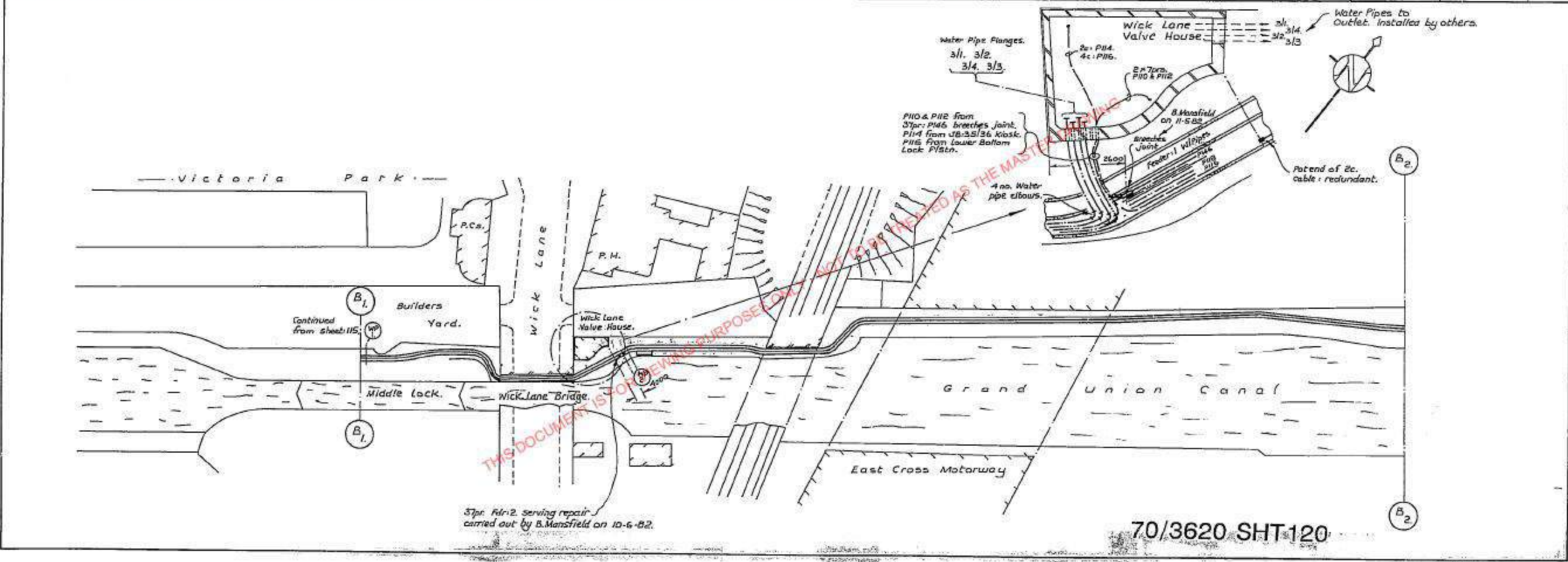
Wick Lane

Footpath to Dace Road

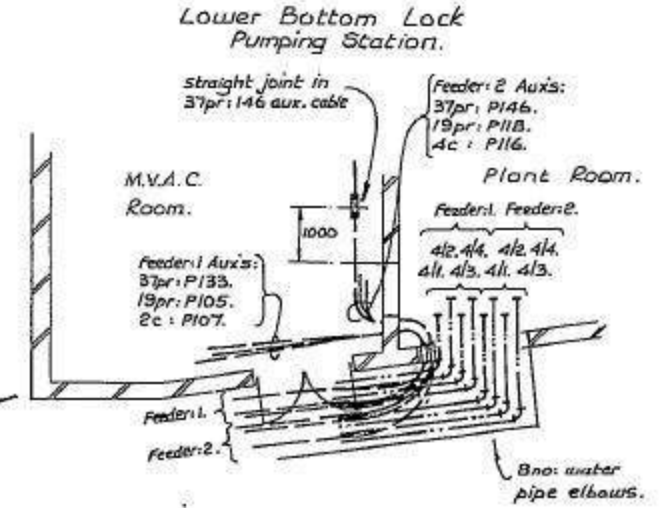
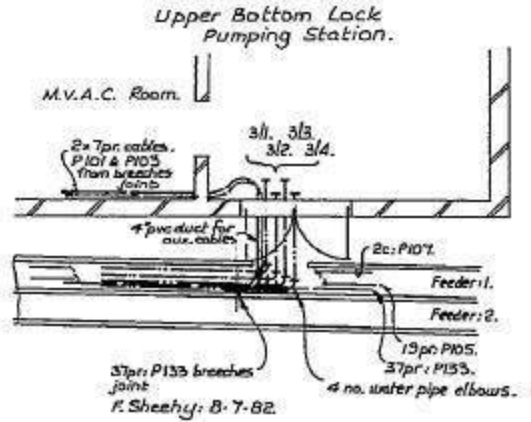
70/3620 SHT 119

THIS DOCUMENT IS FOR VIEWING PURPOSES ONLY - NOT TO BE TREATED AS THE MASTER DRAWING

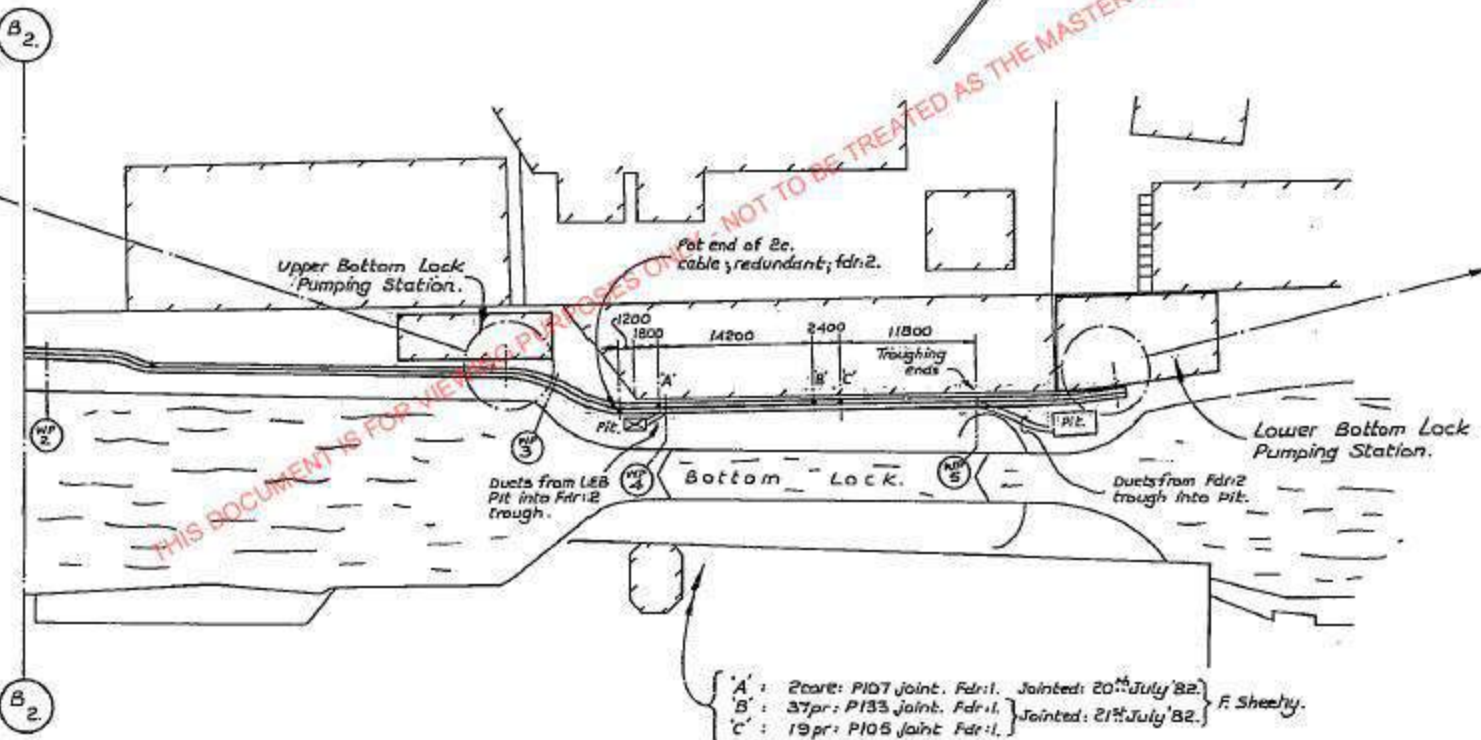
Drawn by: A.S. Checked by: G.S. C.E.G.B. CONTRACT: TCINT/C5/19. CITY ROAD - WEST HAM. 400 KV. O/F. CABLES. BOTTOM LOCK -> CABLE SECTION N° 35. FEEDERS 1 & 2. SCALE - 1:1500 119.



70/3620 SHT 120

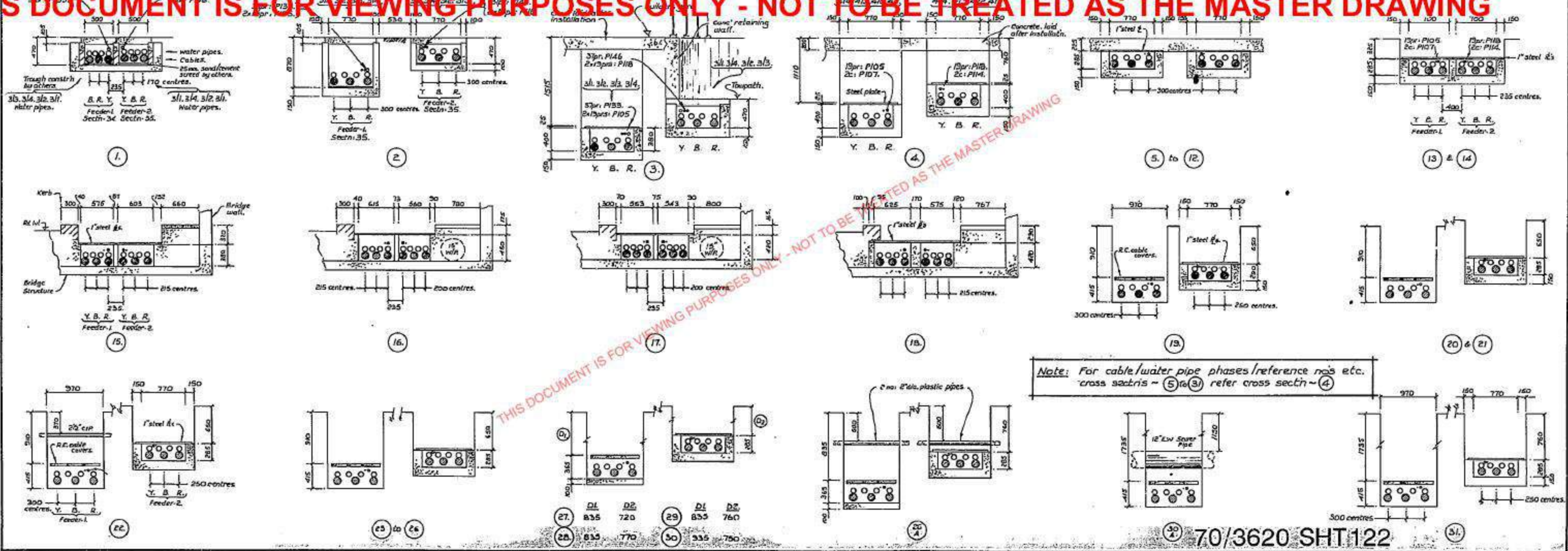


B₂



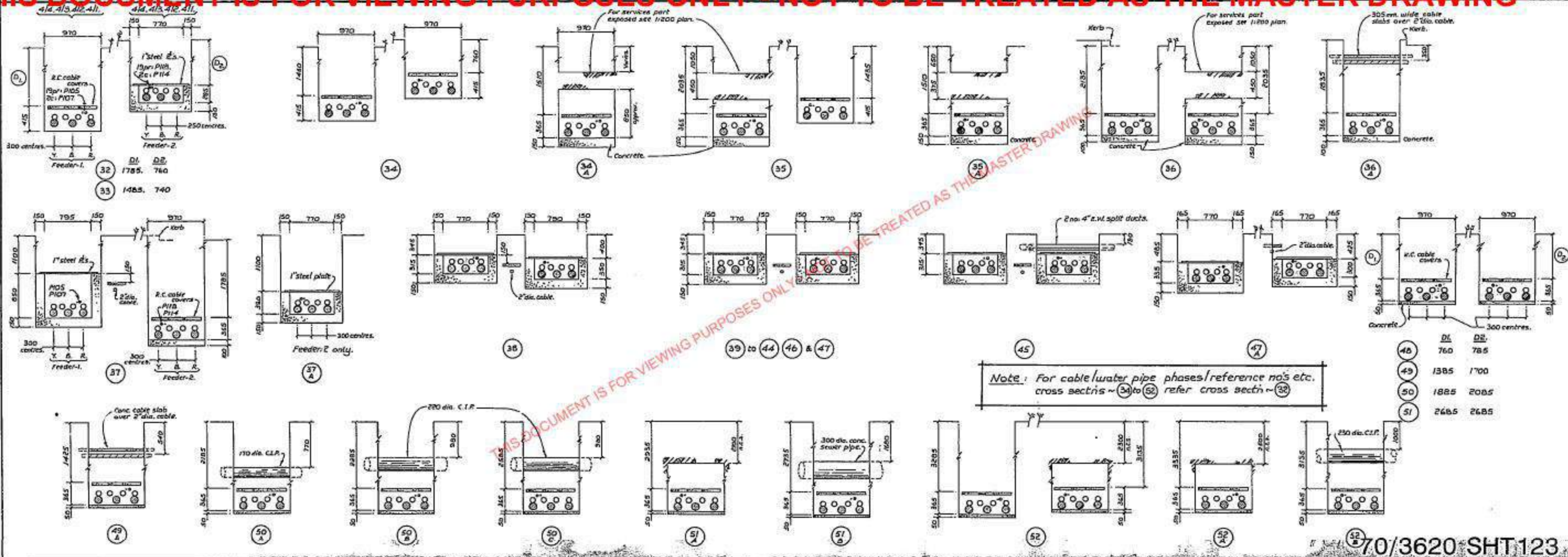
A : 2c. P107 joint. Fdr:1. Jointed: 20th July '82.
 B : 37pr. P133 joint. Fdr:1. Jointed: 21st July '82.
 C : 19pr. P105 joint. Fdr:1.

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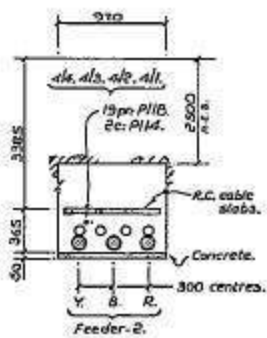


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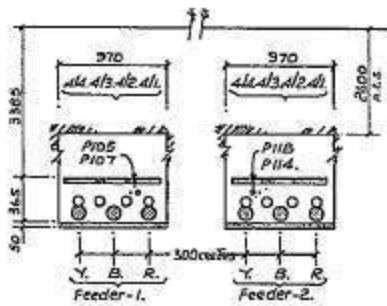
Note: For cable/water pipe phases/reference nos etc. cross sects ~ (5) to (3) refer cross sectn ~ (4)



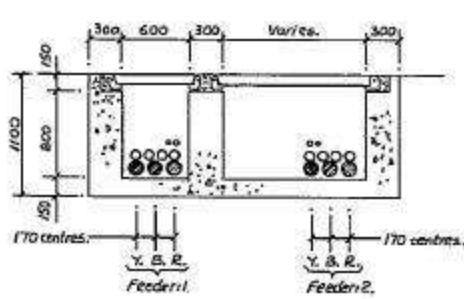
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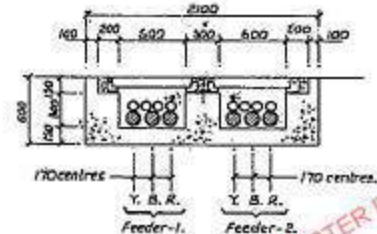
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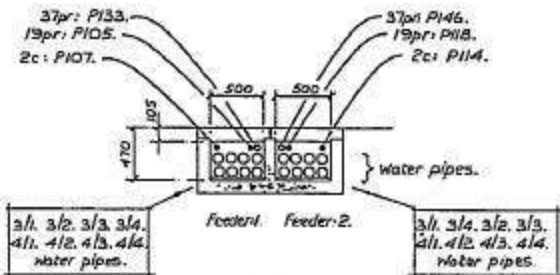
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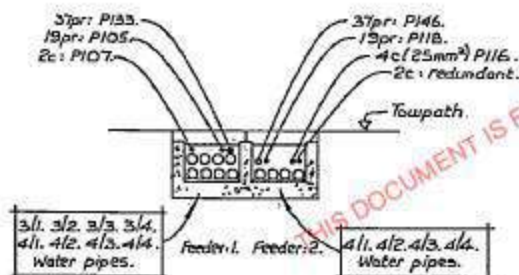
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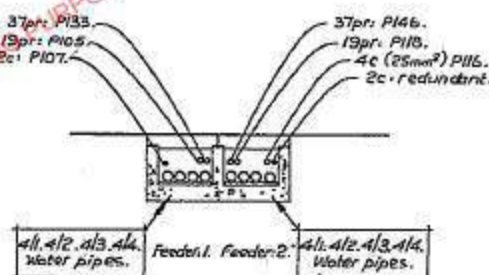
Cable/water pipe details
as cross section: 53



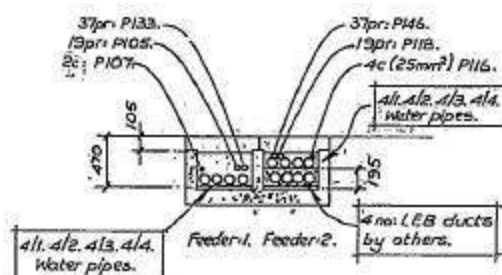
WP 1



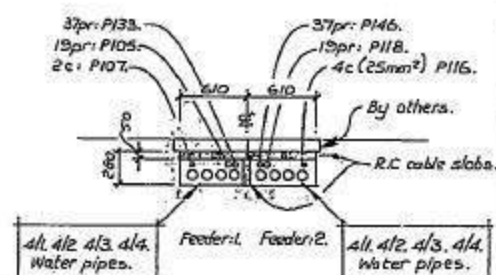
WP 2



WP 3



WP 4



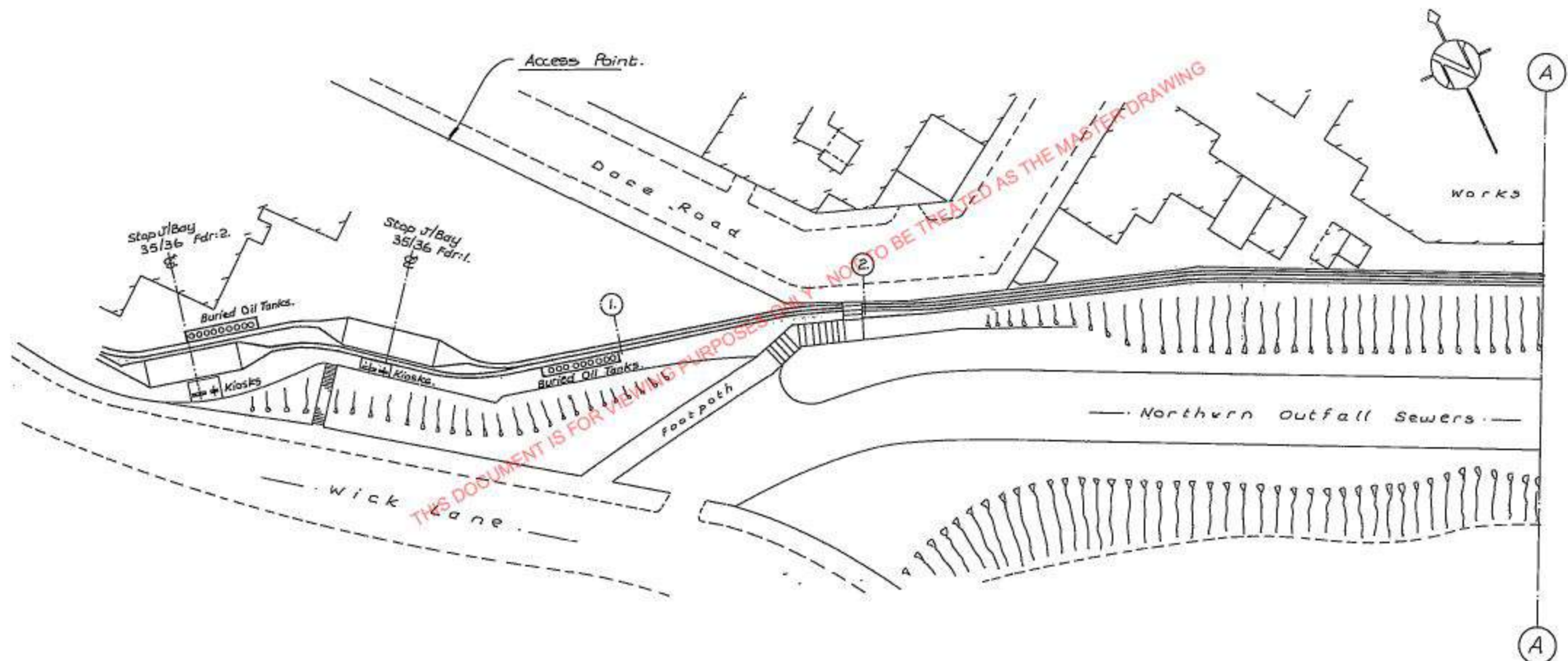
WP 5

Cable Troughing etc. for Water Pipe & Aux. Cables
only from Builders Yard to Lower Bottom Lock.

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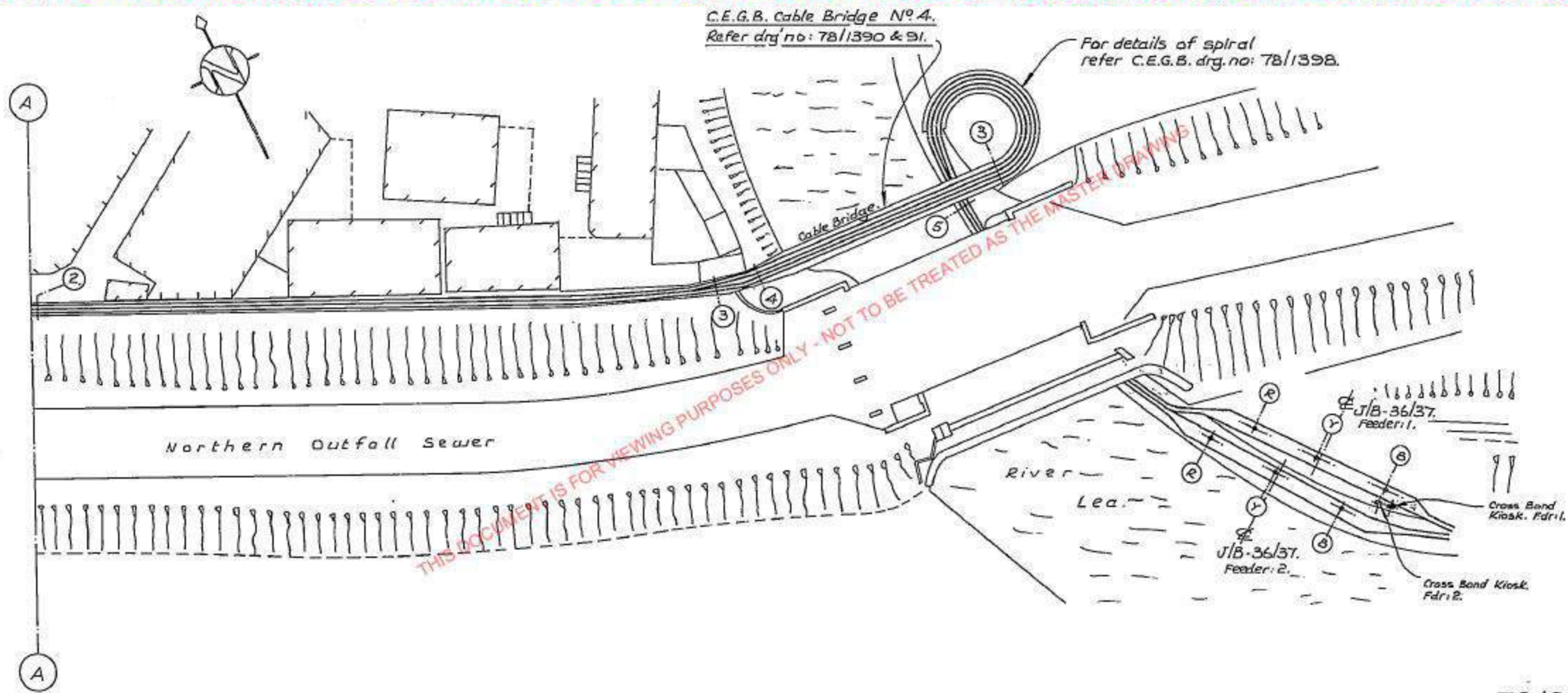
DRAWN BY: A.B. CHECKED BY: G.W.C. C.E.G.B. CONTRACT: TC/NT/CS419. CITY ROAD - WEST HAM. 400 KV. O/F. CABLES.

WEST HAM → CABLE SECTION NO 36 FEEDERS 1 & 2 SCALE ~ 1:500 126.



Based on C.E.G.B. dng. no: 16/16321.

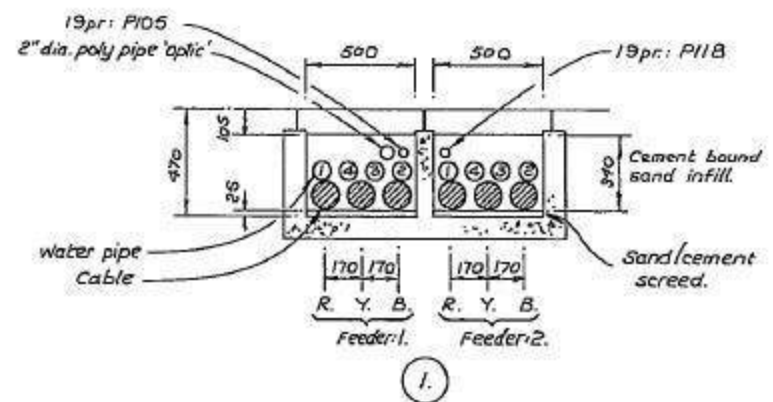
70/3620 SHT 127



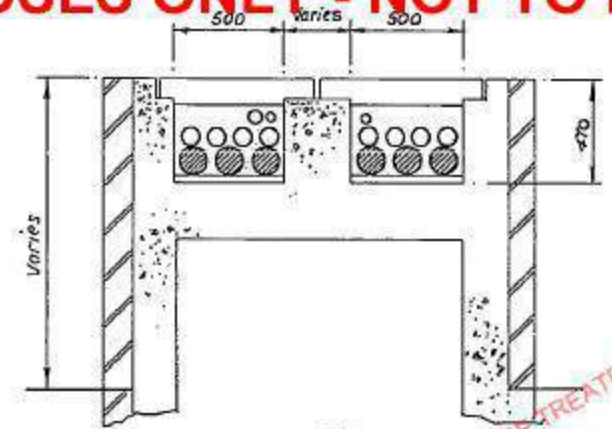
Based on C.E.G.B. drgs: 16/16322 & 16/16321.

70/3620 SHT 128

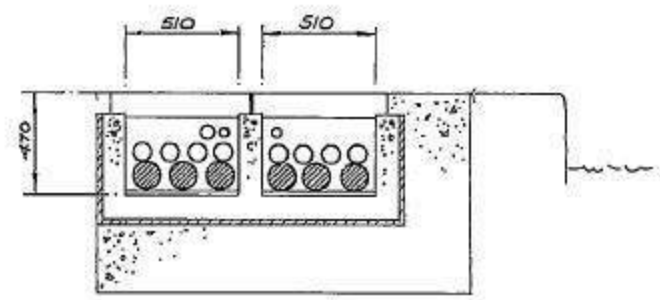
THIS DOCUMENT IS FOR VIEWING PURPOSES ONLY - NOT TO BE TREATED AS THE MASTER DRAWING



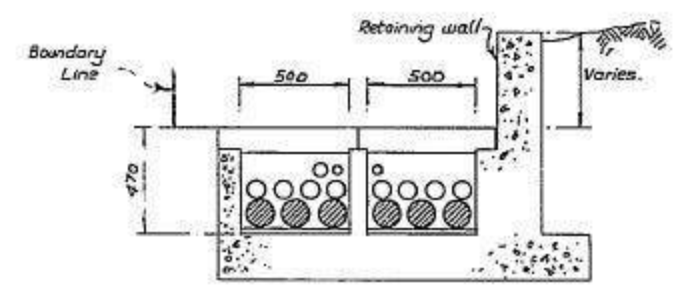
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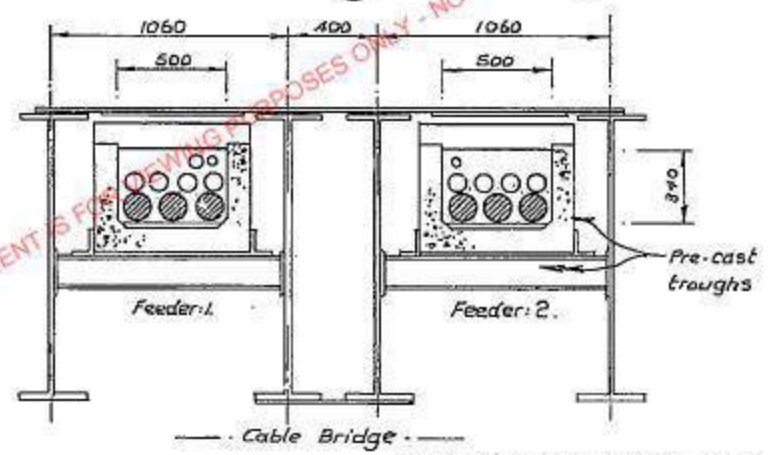
3. Refer C.E.G.B. drg. no: 78/139B.



5.



2.



4. C.E.G.B. cable Bridge N° 4. Refer drg. no: 78/1390 & 91.

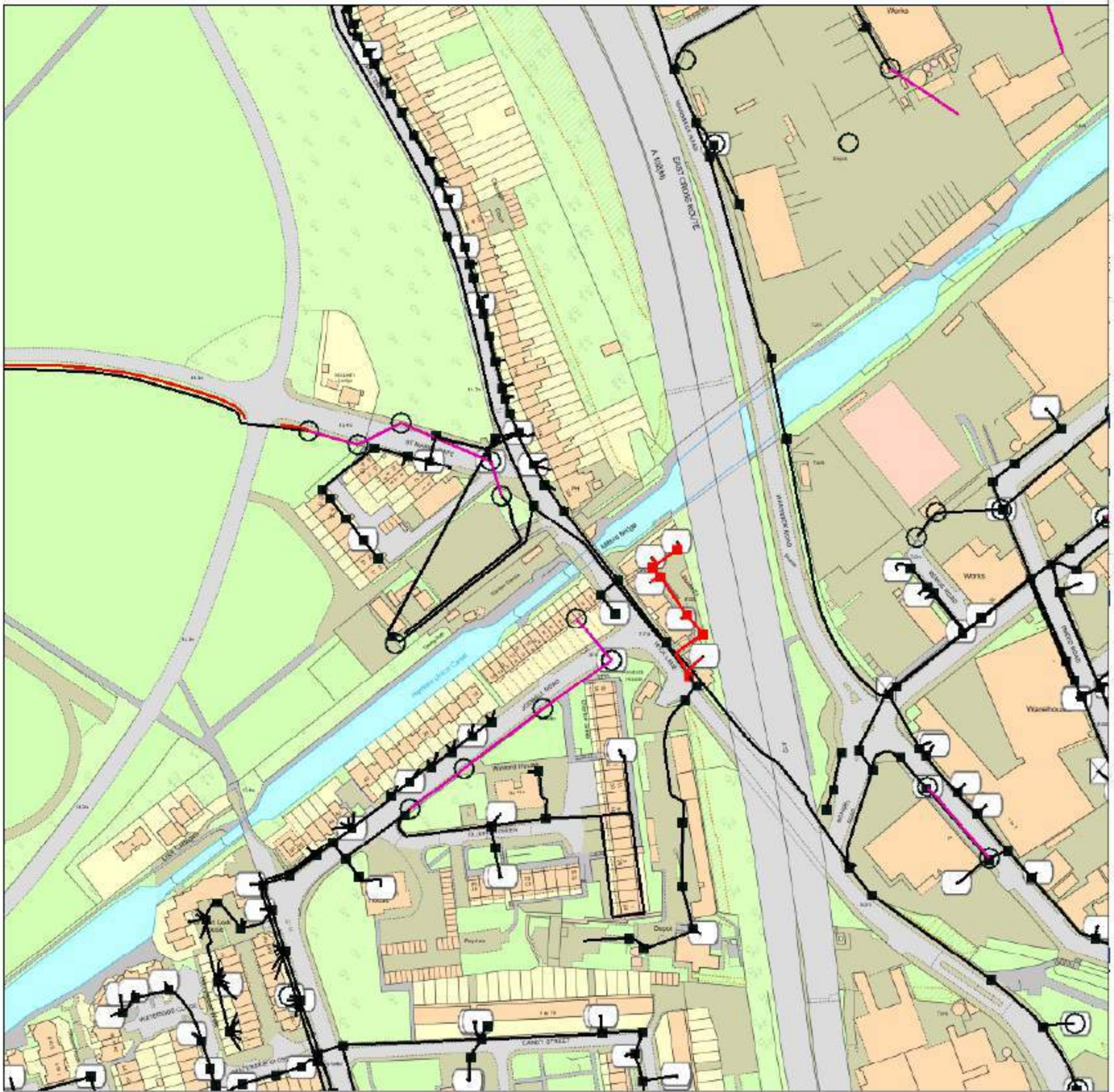
Note: For cable/water pipe phases/reference nos etc on cross sectns (2) to (5) refer cross sectn: (1)

Trough construction & base screed by others.

70/3620 SHT 129

Telecoms/Cable

Maps by email Plant Information Reply



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.

KEY TO BT SYMBOLS

	UNDERGROUND PLANT		POLE
	OVERHEAD PLANT		CABINET
	JOINT BOX		BURIED JOINT
	DISTRIBUTION POINT		JOINTING POST
	MANHOLE		PROPOSED U/G
	DP BOUNDARY		PROPOSED O/H
	OTHER BT BOUNDARY		PROPOSED BOX

Other proposed plant is shown using dashed lines. BT symbols not listed above may be disregarded. Existing BT plant may not be recorded. Information valid at the time of preparation.

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openreach
a BT Group business



BT Ref : ISE09314F

Map Reference : (centre) TQ3690584116

Easting/Northing : (centre) 536905,184116

Issued : 24/03/2015 09:32:06

FOOTNOTE: WARNING IT IS ESSENTIAL THAT YOU CONTACT NATIONAL NETWORK HANDLING CENTRE BY EMAIL BEFORE PROCEEDING WITH ANY WORK IN THE HATCHED AREA

Water and Sewers

Asset Location Search



Subtechnics Ltd
Technics House Merrow Business Pa,

GUILDFORD
GU4 7WA

Search address supplied Growing Concerns Garden Centre
2
Wick Lane
London
E3 2NA

Your reference GRS00347

Our reference ALS/ALS Standard/2015_2999202

Search date 20 March 2015



Asset Location Search



Search address supplied: Growing Concerns Garden Centre, 2, Wick Lane, London, E3 2NA

Dear Sir / Madam

An Asset Location Search is recommended when undertaking a site development. It is essential to obtain information on the size and location of clean water and sewerage assets to safeguard against expensive damage and allow cost-effective service design.

The following records were searched in compiling this report: - the map of public sewers & the map of waterworks. Thames Water Utilities Ltd (TWUL) holds all of these.

This search provides maps showing the position, size of Thames Water assets close to the proposed development and also manhole cover and invert levels, where available.

Please note that none of the charges made for this report relate to the provision of Ordnance Survey mapping information. The replies contained in this letter are given following inspection of the public service records available to this company. No responsibility can be accepted for any error or omission in the replies.

You should be aware that the information contained on these plans is current only on the day that the plans are issued. The plans should only be used for the duration of the work that is being carried out at the present time. Under no circumstances should this data be copied or transmitted to parties other than those for whom the current work is being carried out.

Thames Water do update these service plans on a regular basis and failure to observe the above conditions could lead to damage arising to new or diverted services at a later date.

Asset Location Search



Waste Water Services

Please provide a copy extract from the public sewer map.

Enclosed is a map showing the approximate lines of our sewers. Our plans do not show sewer connections from individual properties or any sewers not owned by Thames Water unless specifically annotated otherwise. Records such as "private" pipework are in some cases available from the Building Control Department of the relevant Local Authority.

Where the Local Authority does not hold such plans it might be advisable to consult the property deeds for the site or contact neighbouring landowners.

This report relates only to sewerage apparatus of Thames Water Utilities Ltd, it does not disclose details of cables and or communications equipment that may be running through or around such apparatus.

The sewer level information contained in this response represents all of the level data available in our existing records. Should you require any further Information, please refer to the relevant section within the 'Further Contacts' page found later in this document.

For your guidance:

- The Company is not generally responsible for rivers, watercourses, ponds, culverts or highway drains. If any of these are shown on the copy extract they are shown for information only.
- Any private sewers or lateral drains which are indicated on the extract of the public sewer map as being subject to an agreement under Section 104 of the Water Industry Act 1991 are not an 'as constructed' record. It is recommended these details be checked with the developer.

Clean Water Services

Please provide a copy extract from the public water main map.

Enclosed is a map showing the approximate positions of our water mains and associated apparatus. Please note that records are not kept of the positions of individual domestic supplies.

For your information, there will be a pressure of at least 10m head at the outside stop valve. If you would like to know the static pressure, please contact our Customer

Asset Location Search



Centre on The Customer Centre can also arrange for a full flow and pressure test to be carried out for a fee.

For your guidance:

- Assets other than vested water mains may be shown on the plan, for information only.
- If an extract of the public water main record is enclosed, this will show known public water mains in the vicinity of the property. It should be possible to estimate the likely length and route of any private water supply pipe connecting the property to the public water network.

Payment for this Search

A charge will be added to your suppliers account.

Asset Location Search



Further contacts:

Waste Water queries

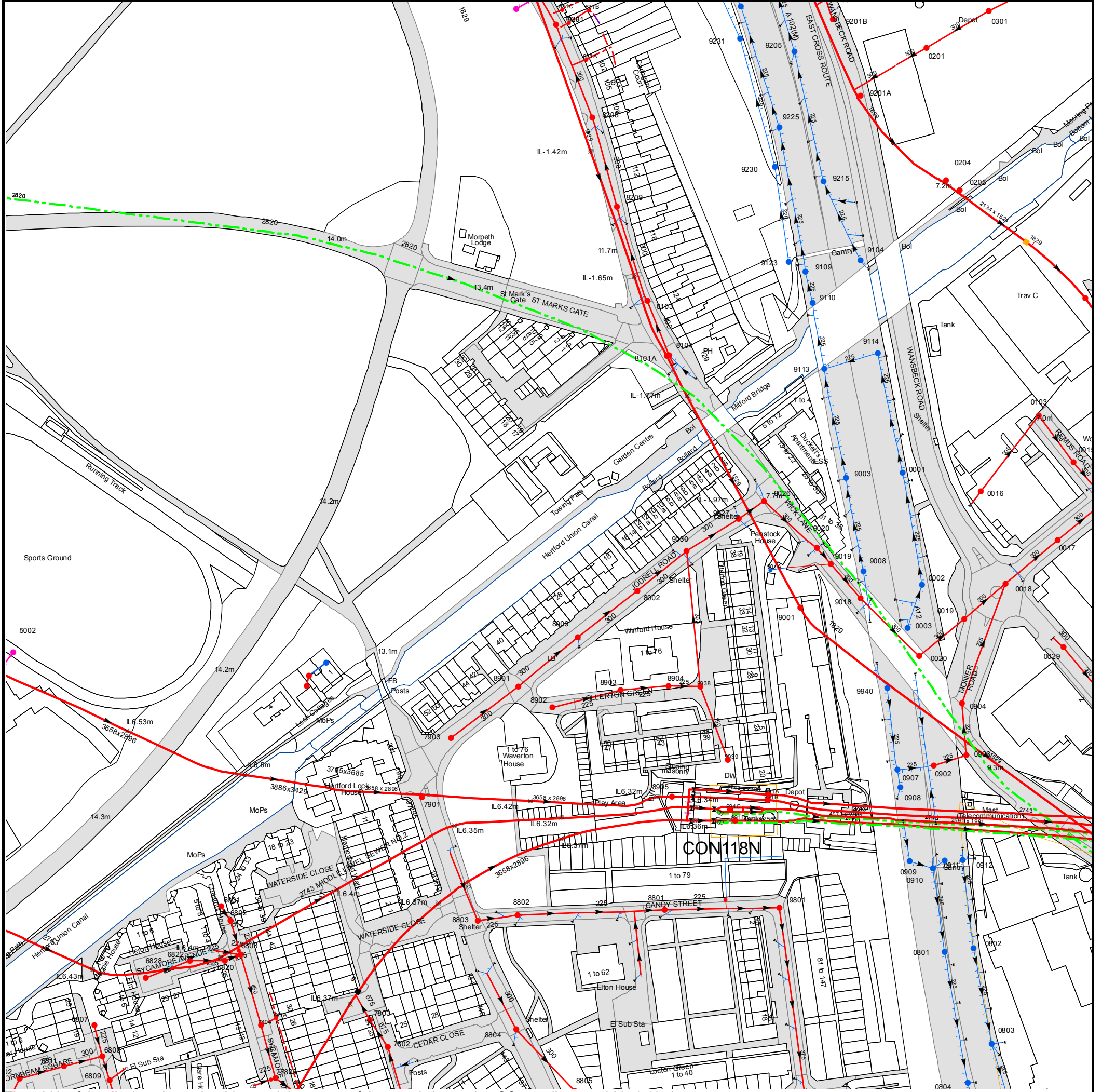
Should you require verification of the invert levels of public sewers, by site measurement, you will need to approach the relevant Thames Water Area Network Office for permission to lift the appropriate covers. This permission will usually involve you completing a TWOSA form. For further information please contact our Customer Centre on Tel: [03443770000](tel:03443770000). Alternatively, a survey can be arranged, for a fee, through our Customer Centre on the above number.

If you have any questions regarding sewer connections, budget estimates, diversions, building over issues or any other questions regarding operational issues please direct them to our service desk. Which can be contacted by writing to: assetlocation@thameswater.co.uk

Clean Water queries

Should you require any advice concerning clean water operational issues or clean water connections, please contact: assetlocation@thameswater.co.uk

Asset Location Search Sewer Map - ALS/ALS Standard/2015_2999202



The width of the displayed area is 500 m and the centre of the map is located at OS coordinates 536841,184055
The position of the apparatus shown on this plan is given without obligation and warranty, and the accuracy cannot be guaranteed. Service pipes are not shown but their presence should be anticipated. No liability of any kind whatsoever is accepted by Thames Water for any error or omission. The actual position of mains and services must be verified and established on site before any works are undertaken.

Based on the Ordnance Survey Map with the Sanction of the controller of H.M. Stationery Office, License no. 100019345 Crown Copyright Reserved.

NB. Levels quoted in metres Ordnance Newlyn Datum. The value -9999.00 indicates that no survey information is available

Manhole Reference	Manhole Cover Level	Manhole Invert Level
0029	n/a	n/a
0205	7.62	2.01
0204	n/a	n/a
0301	n/a	n/a
8103	n/a	n/a
8101A	11.02	-1.75
8104	n/a	n/a
9123	n/a	n/a
9109	n/a	n/a
9110	n/a	n/a
9113	n/a	n/a
9003	n/a	n/a
9104	n/a	n/a
9114	n/a	n/a
0001	n/a	n/a
0016	n/a	n/a
0103	n/a	n/a
0015	n/a	n/a
0101B	7.62	1.72
8209	n/a	n/a
9215	n/a	n/a
9230	n/a	n/a
9225	n/a	n/a
8208	n/a	n/a
9201A	6.49	n/a
821A	n/a	n/a
9205	n/a	n/a
0201	n/a	n/a
9231	n/a	n/a
8201	n/a	n/a
821B	n/a	n/a
9201B	n/a	n/a
831B	n/a	n/a
831C	n/a	n/a
8301	11.74	n/a
9340	n/a	n/a
0902	n/a	n/a
9939	n/a	n/a
0903	n/a	n/a
8902	n/a	n/a
0904	n/a	n/a
8903	n/a	n/a
9940	n/a	n/a
9938	n/a	n/a
8901	n/a	n/a
8904	n/a	n/a
0020	n/a	n/a
8003	n/a	n/a
0003	n/a	n/a
0019	n/a	n/a
9001	7.82	-2.1
9018	n/a	n/a
8002	n/a	n/a
0002	n/a	n/a
0018	n/a	n/a
9008	n/a	n/a
901A	n/a	n/a
9019	n/a	n/a
9030	n/a	n/a
9020	n/a	n/a
0017	n/a	n/a
9027	n/a	n/a
9026	n/a	n/a
6809	n/a	n/a
5802	n/a	n/a
7805	n/a	n/a
6811	n/a	n/a
6808	n/a	n/a
7802	n/a	n/a
7804	n/a	n/a
6807	n/a	n/a
7803	n/a	n/a
781A	n/a	n/a
6823	n/a	n/a
6828	n/a	n/a
6822	n/a	n/a
6820	n/a	n/a
6803	n/a	n/a
6802	n/a	n/a
8803	n/a	n/a
6801	n/a	n/a
7901	11.79	n/a
7903	n/a	n/a
79AG	n/a	n/a
79AF	n/a	n/a
70AB	n/a	n/a
5002	14.26	n/a
8804	n/a	n/a
8802	n/a	n/a
8801	n/a	n/a
8905	n/a	n/a



















Manhole Reference	Manhole Cover Level	Manhole Invert Level
981A	n/a	n/a
991C	n/a	n/a
991D	n/a	n/a
991B	n/a	n/a
991A	n/a	n/a
9801	n/a	n/a
0907	n/a	n/a
0908	n/a	n/a
0909	n/a	n/a
0910	n/a	n/a
0911	n/a	n/a
0801	n/a	n/a
0912	n/a	n/a
0804	n/a	n/a
0802	n/a	n/a
0803	n/a	n/a

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ALS Sewer Map Key

Public Sewer Types (Operated & Maintained by Thames Water)

-  **Foul:** A sewer designed to convey waste water from domestic and industrial sources to a treatment works.
-  **Surface Water:** A sewer designed to convey surface water (e.g. rain water from roofs, yards and car parks) to rivers or watercourses.
-  **Combined:** A sewer designed to convey both waste water and surface water from domestic and industrial sources to a treatment works.
-  Trunk Surface Water
-  Trunk Foul
-  Storm Relief
-  Trunk Combined
-  Vent Pipe
-  Bio-solids (Sludge)
-  Proposed Thames Surface Water Sewer
-  Proposed Thames Water Foul Sewer
-  Gallery
-  Foul Rising Main
-  Surface Water Rising Main
-  Combined Rising Main
-  Sludge Rising Main
-  Proposed Thames Water Rising Main
-  Vacuum





Sewer Fittings

A feature in a sewer that does not affect the flow in the pipe. Example: a vent is a fitting as the function of a vent is to release excess gas.

-  Air Valve
-  Dam Chase
-  Fitting
-  Meter
-  Vent Column




Operational Controls

A feature in a sewer that changes or diverts the flow in the sewer. Example: A hydrobrake limits the flow passing downstream.

-  Control Valve
-  Drop Pipe
-  Ancillary
-  Weir






End Items

End symbols appear at the start or end of a sewer pipe. Examples: an Undefined End at the start of a sewer indicates that Thames Water has no knowledge of the position of the sewer upstream of that symbol, Outfall on a surface water sewer indicates that the pipe discharges into a stream or river.

-  Outfall
-  Undefined End
-  Inlet






Other Symbols

Symbols used on maps which do not fall under other general categories








-  /  Public/Private Pumping Station
-  Change of characteristic indicator (C.O.C.I.)
-  Invert Level
-  Summit

Areas

Lines denoting areas of underground surveys, etc.

-  Agreement
-  Operational Site
-  Chamber
-  Tunnel
-  Conduit Bridge

Other Sewer Types (Not Operated or Maintained by Thames Water)

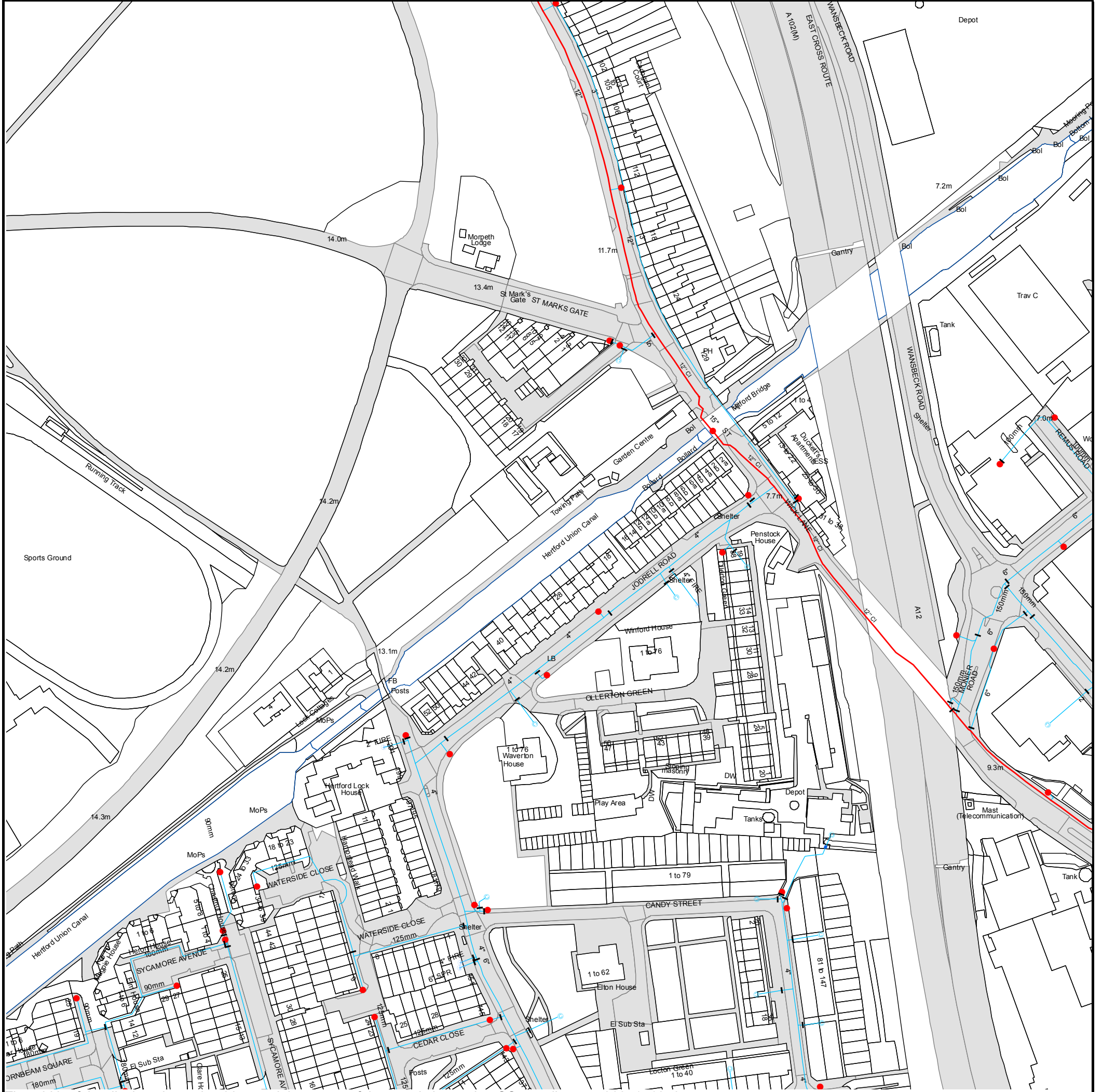
-  Foul Sewer
-  Surface Water Sewer
-  Combined Sewer
-  Gully
-  Culverted Watercourse
-  Proposed
-  Abandoned Sewer

Notes:

- 1) All levels associated with the plans are to Ordnance Datum Newlyn.
- 2) All measurements on the plans are metric.
- 3) Arrows (on gravity fed sewers) or flecks (on rising mains) indicate direction of flow.
- 4) Most private pipes are not shown on our plans, as in the past, this information has not been recorded.
- 5) 'na' or '0' on a manhole level indicates that data is unavailable.

- 6) The text appearing alongside a sewer line indicates the internal diameter of the pipe in millimetres. Text next to a manhole indicates the manhole reference number and should not be taken as a measurement. If you are unsure about any text or symbology present on the plan, please contact a member of Property Insight on 0845 070 9148.

Asset Location Search Water Map - ALS/ALS Standard/2015_2999202



The position of the apparatus shown on this plan is given without obligation and warranty, and the accuracy cannot be guaranteed. Service pipes are not shown but their presence should be anticipated. No liability of any kind whatsoever is accepted by Thames Water for any error or omission. The actual position of mains and services must be verified and established on site before any works are undertaken.

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ALS Water Map Key

Water Pipes (Operated & Maintained by Thames Water)

- 4"** **Distribution Main:** The most common pipe shown on water maps. With few exceptions, domestic connections are only made to distribution mains.
- 16"** **Trunk Main:** A main carrying water from a source of supply to a treatment plant or reservoir, or from one treatment plant or reservoir to another. Also a main transferring water in bulk to smaller water mains used for supplying individual customers.
- 3" SUPPLY** **Supply Main:** A supply main indicates that the water main is used as a supply for a single property or group of properties.
- 3" FIRE** **Fire Main:** Where a pipe is used as a fire supply, the word FIRE will be displayed along the pipe.
- 3" METERED** **Metered Pipe:** A metered main indicates that the pipe in question supplies water for a single property or group of properties and that quantity of water passing through the pipe is metered even though there may be no meter symbol shown.
- Transmission Tunnel:** A very large diameter water pipe. Most tunnels are buried very deep underground. These pipes are not expected to affect the structural integrity of buildings shown on the map provided.
- Proposed Main:** A main that is still in the planning stages or in the process of being laid. More details of the proposed main and its reference number are generally included near the main.

PIPE DIAMETER	DEPTH BELOW GROUND
Up to 300mm (12")	900mm (3')
300mm - 600mm (12" - 24")	1100mm (3' 8")
600mm and bigger (24" plus)	1200mm (4')

Valves

- | **General Purpose Valve**
- ◆ **Air Valve**
- ▲ **Pressure Control Valve**
- X **Customer Valve**

Hydrants

- **Single Hydrant**

Meters

- **Meter**

End Items

Symbol indicating what happens at the end of a water main.

- | **Blank Flange**
-] **Capped End**
- **Emptying Pit**
- ⊙ **Undefined End**
- ⊞ **Manifold**
- ⊕ **Customer Supply**
- ⊗ **Fire Supply**

Operational Sites

- ⊕ **Booster Station**
- ◐ **Other**
- ◑ **Other (Proposed)**
- ▲ **Pumping Station**
- ▲ **Service Reservoir**
- ⊕ **Shaft Inspection**
- ◐ **Treatment Works**
- ⊙ **Unknown**
- ⊞ **Water Tower**

Other Symbols

- **Data Logger**

Other Water Pipes (Not Operated or Maintained by Thames Water)

- Other Water Company Main:** Occasionally other water company water pipes may overlap the border of our clean water coverage area. These mains are denoted in purple and in most cases have the owner of the pipe displayed along them.
- Private Main:** Indicates that the water main in question is not owned by Thames Water. These mains normally have text associated with them indicating the diameter and owner of the pipe.

Terms and Conditions

All sales are made in accordance with Thames Water Utilities Limited (TWUL) standard terms and conditions unless previously agreed in writing.

1. All goods remain in the property of Thames Water Utilities Ltd until full payment is received.
2. Provision of service will be in accordance with all legal requirements and published TWUL policies.
3. All invoices are strictly due for payment 14 days from due date of the invoice. Any other terms must be accepted/agreed in writing prior to provision of goods or service, or will be held to be invalid.
4. Thames Water does not accept post-dated cheques-any cheques received will be processed for payment on date of receipt.
5. In case of dispute TWUL's terms and conditions shall apply.
6. Penalty interest may be invoked by TWUL in the event of unjustifiable payment delay. Interest charges will be in line with UK Statute Law 'The Late Payment of Commercial Debts (Interest) Act 1998'.
7. Interest will be charged in line with current Court Interest Charges, if legal action is taken.
8. A charge may be made at the discretion of the company for increased administration costs.

A copy of Thames Water's standard terms and conditions are available from the Commercial Billing Team (cashoperations@thameswater.co.uk).

We publish several Codes of Practice including a guaranteed standards scheme. You can obtain copies of these leaflets by calling us on

If you are unhappy with our service you can speak to your original goods or customer service provider. If you are not satisfied with the response, your complaint will be reviewed by the Customer Services Director. You can write to him at:

If the Goods or Services covered by this invoice falls under the regulation of the 1991 Water Industry Act, and you remain dissatisfied you can refer your complaint to Consumer Council for Water on 0121 345 1000 or write to them at Consumer Council for Water, 1st Floor, Victoria Square House, Victoria Square, Birmingham, B2 4AJ.



Search Code

IMPORTANT CONSUMER PROTECTION INFORMATION

This search has been produced by Thames Water Property Searches, Clearwater Court, Vastern Road, Reading RG1 8DB, which is registered with the Property Codes Compliance Board (PCCB) as a subscriber to the Search Code. The PCCB independently monitors how registered search firms maintain compliance with the Code.

The Search Code:

- provides protection for homebuyers, sellers, estate agents, conveyancers and mortgage lenders who rely on the information included in property search reports undertaken by subscribers on residential and commercial property within the United Kingdom
- sets out minimum standards which firms compiling and selling search reports have to meet
- promotes the best practise and quality standards within the industry for the benefit of consumers and property professionals
- enables consumers and property professionals to have confidence in firms which subscribe to the code, their products and services.

By giving you this information, the search firm is confirming that they keep to the principles of the Code. This provides important protection for you.

The Code's core principles

Firms which subscribe to the Search Code will:

- display the Search Code logo prominently on their search reports
- act with integrity and carry out work with due skill, care and diligence
- at all times maintain adequate and appropriate insurance to protect consumers
- conduct business in an honest, fair and professional manner
- handle complaints speedily and fairly
- ensure that products and services comply with industry registration rules and standards and relevant laws
- monitor their compliance with the Code

Complaints

If you have a query or complaint about your search, you should raise it directly with the search firm, and if appropriate ask for any complaint to be considered under their formal internal complaints procedure. If you remain dissatisfied with the firm's final response, after your complaint has been formally considered, or if the firm has exceeded the response timescales, you may refer your complaint for consideration under The Property Ombudsman scheme (TPOs). The Ombudsman can award compensation of up to £5,000 to you if he finds that you have suffered actual loss as a result of your search provider failing to keep to the Code.

Please note that all queries or complaints regarding your search should be directed to your search provider in the first instance, not to TPOs or to the PCCB.

TPOs Contact Details

The Property Ombudsman scheme
Milford House
43-55 Milford Street
Salisbury
Wiltshire SP1 2BP
Tel: 01722 333306
Fax: 01722 332296
Email: admin@tpos.co.uk

You can get more information about the PCCB from www.propertycodes.org.uk

PLEASE ASK YOUR SEARCH PROVIDER IF YOU WOULD LIKE A COPY OF THE SEARCH CODE

END USER LICENCE AGREEMENT

1 Introduction

By accessing this DATA the End User agrees to abide by the Terms and Conditions of Licence contained herein.

2 Definitions

- **LICENSOR** – emapsite.com Limited (Registered Number 3931726: MASDAR House, 1 Reading Road, Eversley, Hants RG27 0RP) who have been licensed to market the Intellectual Property Rights of others under these terms.
- **RESELLER** – Groundsure Limited and/or their own channel partners
- **END USER** – the person, organisation or company who is accessing the DATA, on the basis of these Licence terms, having been accepted as a Licensee by Licensor and paid the Price due to the Reseller in consideration for such Licence, and is identified as the person, organisation or company given on the corresponding invoice for this product from the Reseller.
- **DATA** - means the Products licensed and made available to the End User by the Licensor as a series of data sets which together provide indicative maps showing the underground assets of Utility Providers for England, Wales and Scotland and compiled by Subtechnics Limited.

3 Grant of licence

The licence granted to the End User is personal, revocable, non-exclusive and non-transferable, limited to Internal Use (as defined in clause 5 below) as the only Permitted Use by the End User and is for a period as specified in the corresponding order invoice from the Reseller. Save as expressly authorised to vary in accordance with clause 5 below, the End User shall be prohibited from:

modifying, translating, format-changing, enhancing, reproducing, copying (except where strictly necessary for system back up), redistributing, disseminating, selling, dealing with, licensing, encumbering, reverse engineering, disassembling or decompiling the DATA, or any part of thereof, except to the extent permitted by law;

using the DATA in any manner for the creation of products or services for Distribution;

using DATA otherwise than for Internal Use;

assigning or dealing with in any way its rights under the End User Contract;

putting, or allowing the DATA (or any Derived Data) to be put on any free, open or public access website; and

distributing or granting licences of the DATA (in whatever form) or material derived from DATA (including interrogating DATA), save as expressly varied by relevant part of clause 5 below.

4 Intellectual Property and Copyright

4.1 The End User must acknowledge and agree that all Intellectual Property Rights in the DATA are the absolute property of the Utility Providers (or where relevant

Subtechnics Limited or the licensor). Material which is derived, developed or copied from DATA shall be deemed assigned to the relevant Utility Provider as legal and beneficial owner at creation, except as provided in this paragraph. However, where that material is created by End User under relevant Permitted Use by End User authorised by Licensor in accordance with the Agreement, the Intellectual Property in that material shall belong to the End User.

4.2 Copyright statements must be used with DATA as follows:

© Utility Provider (named as applicable) and Subtechnics Limited

5 Permitted use

5.1 PERMITTED USE BY END USER SHALL BE LIMITED TO INTERNAL USE. COMMERCIAL USE SHALL BE PROHIBITED. The meanings of such phrases are set out below.

5.2 Internal Use means the following internal uses by the End User: Without compromising the prohibitions contained in clause 3 above, analysing the DATA against a location or a series of locations to obtain information derived from the DATA such as proximity to underground assets and use of and sharing such information/results of such analysis internally within the End User's legal entity only.

5.3 Commercial Use means use that does not fall under Internal Uses (as above) and involves the provision or any form of Distribution to any third party of the DATA or any material derived from DATA (including Derived Data or Static Data) in connection with, expectation of or anticipation of any direct or indirect commercial benefit or commercial relationship (including a service, broker or agency agreement) and whether or not in return for any consideration (including direct or indirect fee, payment or other benefit), free of charge or for no consideration.

5.4 Derived Data means any material derived from or created using DATA, including where DATA is manipulated, aggregated, integrated, combined, merged, modelled, transformed or processed in or with other data or facilities;

5.5 Static Data means DATA and any data (including Derived Data resulting from Internal Uses presented or included in static format in presentations or reports in hard copy, .pdf or similar format. Static Data does not allow for alteration of the data presented, nor enable any further analysis to be carried out against the data (including against the DATA).

6 Confidentiality

6.1 In this clause 6, 'Confidential Information' means all confidential information disclosed (whether in writing, orally or by another means and whether directly or indirectly) by a Party to the other Party whether before or after the date of this Agreement which might reasonably be considered confidential, including the DATA, information relating to the DATA, and information relating to any of the operations, plans or intentions, clients, contacts, product information, software, data, processes, methods, know-how, trade

secrets, market opportunities and business affairs of a Party.

6.2 Each Party shall treat the other Party's Confidential Information as confidential and shall protect it as such. It shall manage it with not less than the same degree of care as it does its own Confidential Information. In any event where Confidential Information is disclosed in any way by one Party ('Disclosing Party') to the other Party ('Receiving Party'), either before or during the Term of this Agreement or after its expiry or termination for any reason, the Receiving Party shall:

not use Confidential Information for a purpose other than the performance of its obligations under this Agreement;
not disclose Confidential Information to any person except with the prior written consent of the Disclosing Party; and
make every effort to prevent the use or disclosure of Confidential Information.

6.3 During the term of this Agreement the Receiving Party may disclose Confidential Information solely to the extent that such disclosure is necessary for the purposes of this Agreement, to any of its directors, other officers, employees, End Users, Affiliates, contractors or sub-contractors. Receiving Party shall ensure that persons to whom Confidential Information is disclosed are made aware of and comply with the Receiving Party's obligations of confidentiality as if they were the Receiving Party.

7 Information Access

7.1 In so far as the End User is, or is deemed to be, or acts for and on behalf of or on the authority of a Public Authority for the purposes of the Information Access Regimes:

End User acknowledges that the Utility Providers, Subtechnics Limited, Reseller and Licensor consider that DATA is exempted from disclosure because DATA is:

proprietary to the Utility Provider and disclosure would harm the interests of the Utility Provider (including its commercial interests);

protected by database rights and other Intellectual Property; confidential and the disclosure of it by the End User would constitute a breach of confidence actionable by the Utility Provider, Subtechnics Limited and/or the Licensor; and
confidential commercial or industrial information protected by laws to protect a legitimate economic interest.

7.2 End User shall, in the event it receives a request for information ('Access Request') under the Information Access Regimes pursuant to which the DATA might be disclosed: immediately notify the Reseller of the Access Request and provide the Reseller with full and complete details of the Access Request and the DATA that may be disclosed, together with any other information the Reseller may request;

consult, as soon as possible within receipt of Access Request, with the Reseller as to whether the DATA constitutes information which is exempt from disclosure or publication pursuant to the Information Access Regimes and/or pursuant to the matters set out above;

notify the Reseller immediately of any final decision as to disclosure of the DATA and no less than 72 hours before

any proposed disclosure, as to what if any of the DATA (or any Derived Data) is proposed to be disclosed and co-operate fully and at End User's sole cost with the requirements set out in this paragraph.

7.3 End User shall not disclose the DATA in any publication scheme maintained pursuant to any Information Access Regime without first notifying the Reseller in advance of disclosure in accordance with this paragraph.

7.4 Where the End User is, or is deemed to be, or acts for and on behalf of or on the authority of a Public Authority under the Information Access Regimes and the End User seeks to make disclosure or discloses DATA under the Information Access Regimes without the consent of the Reseller, such disclosure shall entitle the Reseller and/or the Licensor and/or Subtechnics Limited to terminate the End User Contract with immediate effect and without liability on their part.

7.5 The Contracts (Rights of Third Parties) Act 1999 shall apply for the benefit of Subtechnics Limited and the Licensor and the Reseller that Subtechnics Limited and/or the Licensor and/or the Reseller may (but shall have no obligation to) enforce any of the terms in the End User Contract which relate to disclosure under the Information Access Regimes, limitation on liability, use of DATA or infringement of Intellectual Property Rights in the DATA.

8 Termination

8.1 The licence must terminate automatically in the event that the End User materially breaches any of the requirement / obligations set out in this End User Licence Agreement. All use of DATA and material derived from DATA shall cease promptly in such event, except as follows:

- Following expiry of the End User Contract, the End User may continue to use limited material created using DATA during the term of its End User Contract. Such material is limited to that which is both properly authorised as relevant Permitted Use by the End User and is in static form, i.e. such that after termination it is not changed, added to, updated, modified in any other way or used in or to create any new, updated, supplemented or modified product, tool, analysis or material.

- Material which is not in static form (including probabilistic modelling and models and output therefrom, which is automatically deemed to be not static) shall not be used after termination of the End User Contract.

- the End User must be prohibited from using DATA (including in Reseller's Product/Service), and from deriving any new, updated, supplemented or modified product, tool or material from DATA, after the date of termination of its End User Contract.

8.2 The invalidity or unenforceability of any part of this Agreement shall not prejudice or affect the validity or enforceability of the remainder of the Agreement, which shall remain in full force and effect. If any provision of this Agreement is found to be invalid, illegal or unenforceable but would cease to be so if some part of the provision were deleted or modified, the provision in question shall apply with such minimum modification as may be necessary to make it

valid, legal and enforceable and still give effect to the commercial intention of the Parties in this Agreement.

9 Fees

9.1 The End User must acknowledge its obligation to pay licence fees to the Reseller. The total price of the Products shall be the Reseller's written quoted price as varied from time to time. The price is exclusive of any applicable Value Added Tax, which the End User shall be additionally liable to pay to Licensors.

9.2 End User shall pay in full on order or shall pay within 30 days of the date of invoice, if accepted for an account with the Reseller. The time of payment shall be of the essence of the Contract. All payments shall be made in full without deduction in respect of any set-off or counterclaim. If the End User fails to make any payment on the due date then without prejudice to any other right or remedy available to Licensors, Licensors shall be entitled to:

cancel the Contract or suspend any deliveries to the End User;

appropriate any payment made by the End User to the DATA; and

charge the End User interest (both before and after any judgment) on the amount unpaid, at the rate of 4 per cent per annum over the base rate for the time being of Barclays Bank PLC.

Licence to DATA is not deemed to commence until payment has been made of the Price in full to Licensors.

10 Liability

10.1 Licensors warrant that the DATA will correspond with its specification at the time of delivery. The above warranty does not extend to any defect resulting from use of the DATA with materials or equipment not supplied by Licensor. The above warranty is given by Licensors subject to the following conditions:

Neither Licensor nor Reseller shall be under any liability in respect of any defect in the DATA arising from any drawing, design or specification supplied by the End User or in respect of any defect arising from failure to follow Licensors' guidance, misuse or alteration of the DATA without Licensors' approval;

Neither Licensor nor Reseller shall be under any liability under the above warranty (or any other warranty, condition or guarantee) if the total price for the DATA has not been paid by the due date for payment; and Except in respect of death or personal injury caused by Licensor or Reseller's negligence, neither Licensor nor Reseller shall be liable to the End User for any consequential loss or damage (whether for loss of profit or otherwise), costs, expenses, or other claim for consequential compensation whatsoever which arises out of or in connection with the supply of the DATA, except as expressly provided in these Conditions.

Except in respect of injury to or death of any person Licensor's and Reseller's aggregate liability for breach of contract, negligence or other default shall not exceed the value of the Contract.

Except as expressed here all warranties, conditions or other terms implied by statute or common law are excluded to the fullest extent permitted by law.

11 Governing Law and Jurisdiction

The End User Contract and any matter, dispute or claim arising from or in connection with the End User Contract in so far as it applies to DATA and its use (including non-contractual disputes or claims) shall be governed by and construed in accordance with English law. The End User must submit to the mediation process prescribed in the Agreement and, subject to that, to the exclusive jurisdiction of the English court.

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