



**WARRINGTON WATERFRONT  
WARRINGTON**

**PRELIMINARY PLANNING ADVICE  
FLOOD RISK, DRAINAGE, UTILITIES & HAZARDS**





## Limitations

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## SECTION I INTRODUCTION

I.1. Shepherd Gilmour Infrastructure Ltd (SGi) has been engaged by Peel Investments (North) Ltd (hereafter “the Applicant”) to provide Preliminary Planning Advice on Flood Risk, Drainage, Utilities and Hazards in support of the Warrington Waterfront scheme, during the forthcoming representations to the Warrington Borough Council.

### SITE LOCATION

I.2. The proposed development site (PDS) is in South Warrington and located between the Manchester Ship Canal (MSC) and the River Mersey. The site is irregular in shape spans and approximately 275ha in total (**Figure 1.2**). A full-size copy of this plan has been included within **Appendix A**.

I.3. The existing site currently consists of the port developments to the south, the wood land to the north and fields/low lying areas to the east.

- Nearest Postcode: WA4 6XE
- OS Coordinates: 358227E, 385557N
- OS Grid Reference: SJ582855



Figure 1.1 Site Location (Google)

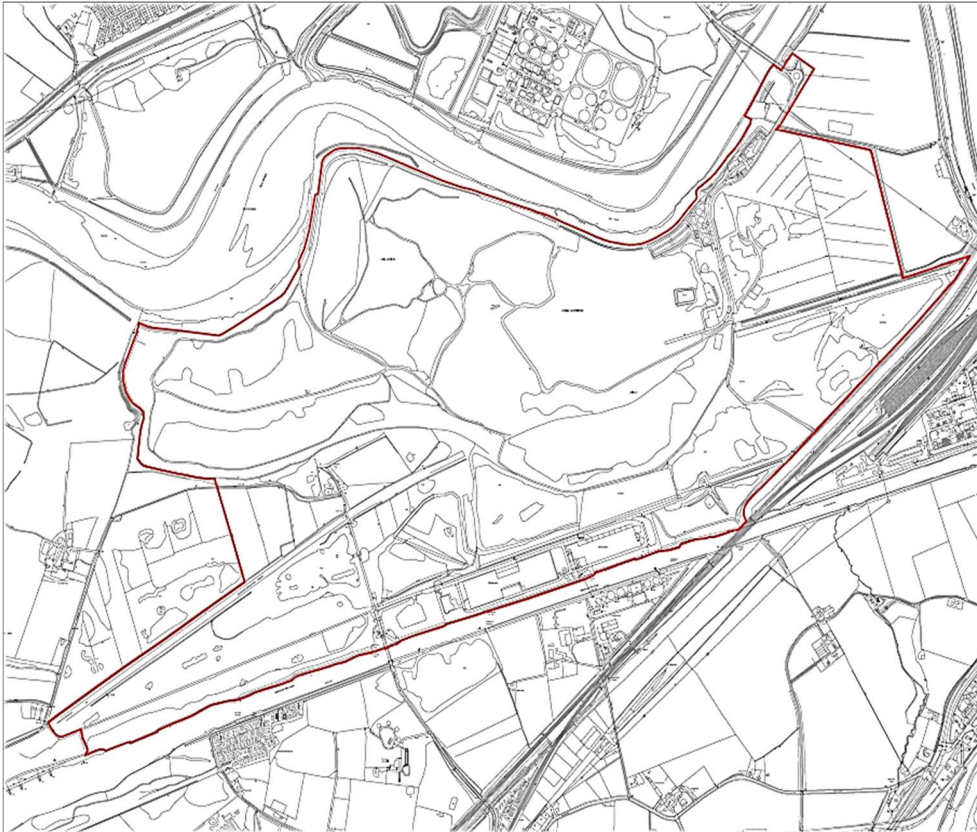


Figure 1.2 Site Boundary (AEW)

## PRELIMINARY PROPOSALS

1.4. The client's proposals for the Port Warrington development is separated into three distinct areas as shown in **Figure 1.3**;

- *Port Warrington Extension*
- *Arpley Meadows Business Park*
- *Arpley Meadows Public Open Space*

### Port Warrington Extension

1.5. The client's proposals for the Port Warrington site is to extend the existing port along the MSC in a westerly direction. The existing/consented development spans approximately 39 ha and will be increased to cover an area of 79ha.

### Arpley Meadows Business Park

1.6. The clients intend to redevelop the land east of the Arpley Landfill to a new business park. The proposed development will span approximately 33 ha and will utilise the existing highway infrastructure.

1.7.

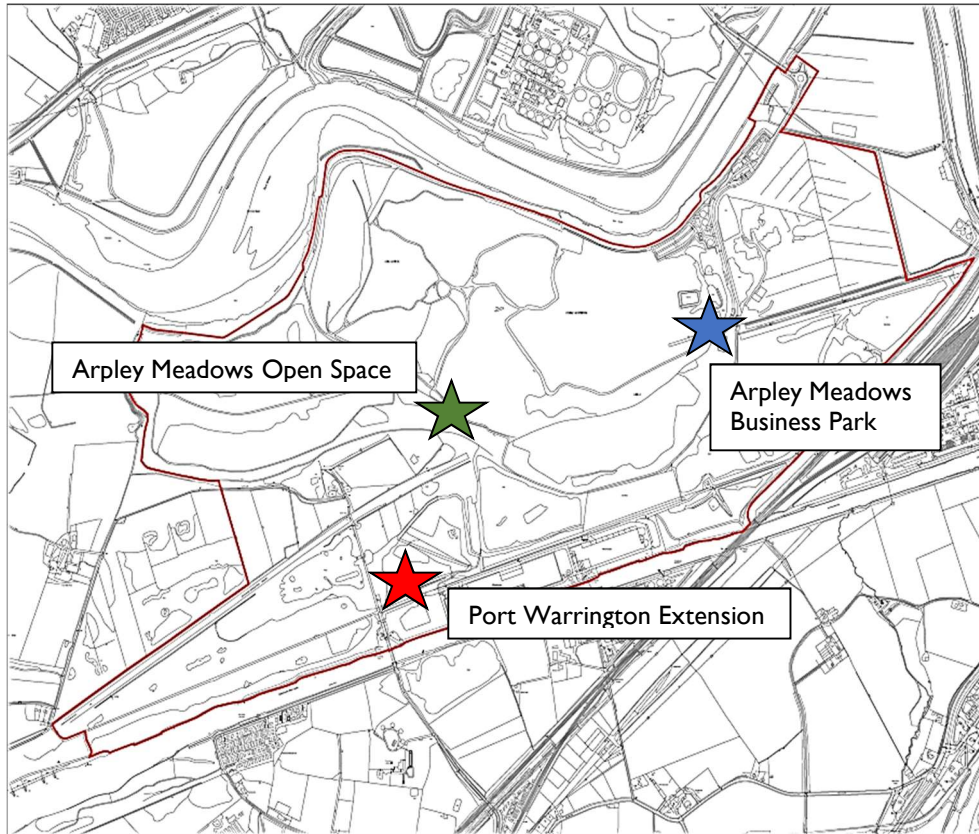


Figure 1.3 Development Areas

### Arpley Meadows Open Space

- 1.8. The client intends to redevelop the existing land fill to create a large area public space (POS). The open space will fill in the area between the port and business park and will vary in use. The OPS will span approximately 163 ha.

### Proposed Development Plans

- 1.9. At this stage the development plans are limited but copies of preliminary sketches have been included within **Appendix B**.

## TOPOGRAPHY

### Port Warrington Extension

- I.10. Based on the Ordnance survey maps the site ranges in level between 10-20m AOD. The topography within the development area generally falls towards the onsite waterbodies and/or the Manchester Ship Canal.

### Arpley Meadows Business Park

- I.11. Due to the previous land use (landfill) the Ordnance survey maps has omitted/removed the topography data. However, based on LIDAR information the site ranges between 10-15m AOD (ditches 5m AOD).

### Arpley Meadows Public Open Space

- I.12. The topography for the area proposed as POS falls from top of the earth/landfill mound (40m AOD) to the surrounding onsite and adjacent waterbodies.

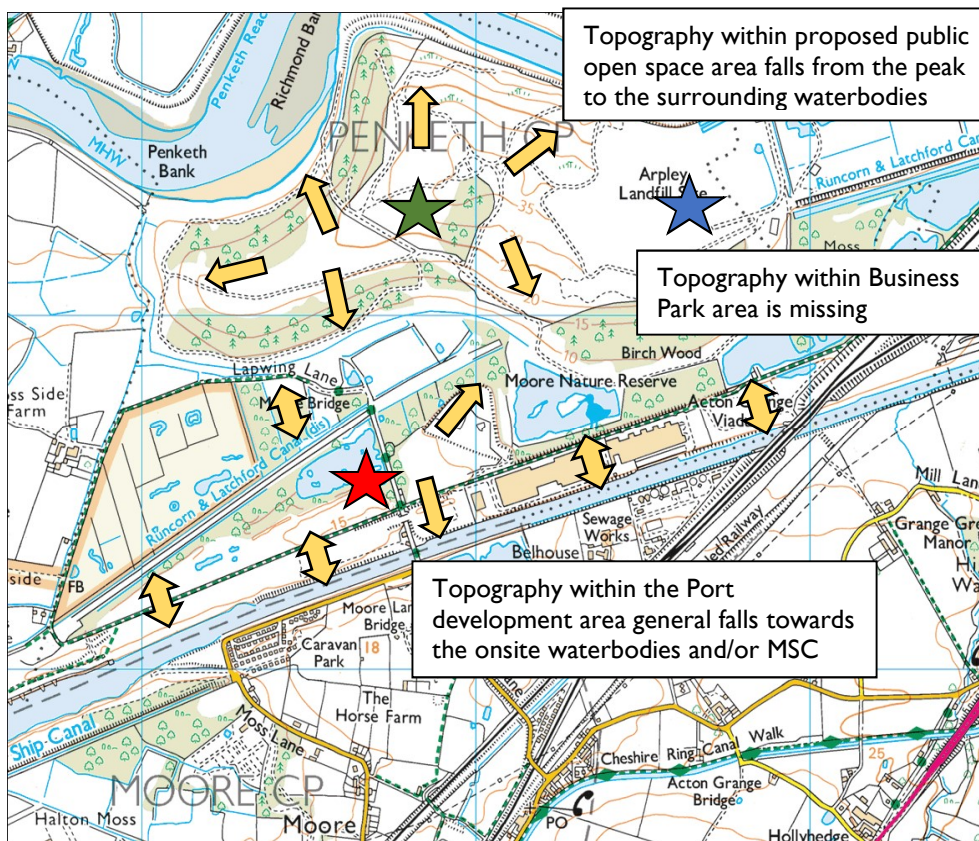


Figure I.4 OS Plan Topography (OS Map)



## SECTION 2 PRELIMINARY FLOOD RISK ADVICE

### GOV.UK PLANNING ADVICE MAPS

2.1. The Gov.UK online Flood Advice Maps provide a brief overview of the Flood Risk onsite and in the surrounding area. The Flood Advice Map in **Figure 2.1** indicates that the;

- Port Warrington Extension is within Flood Zones 1, 2 and 3
- Arpley Meadows Business Park is within Flood Zone 1
- Arpley Meadows Public Open Space is within Flood Zones 1 and 3.

2.2. Note that the Flood Advice Map indicates that the proposed Arpley Meadows POS is within Flood Zone 3. This however, is highly unlikely due to the known topography and is probable due to the maps use of historic data.

2.3. The existing land fill area has since been upfilled and is higher than adjacent land. Therefore, most of the proposed POS will likely be within Flood Zone 1.

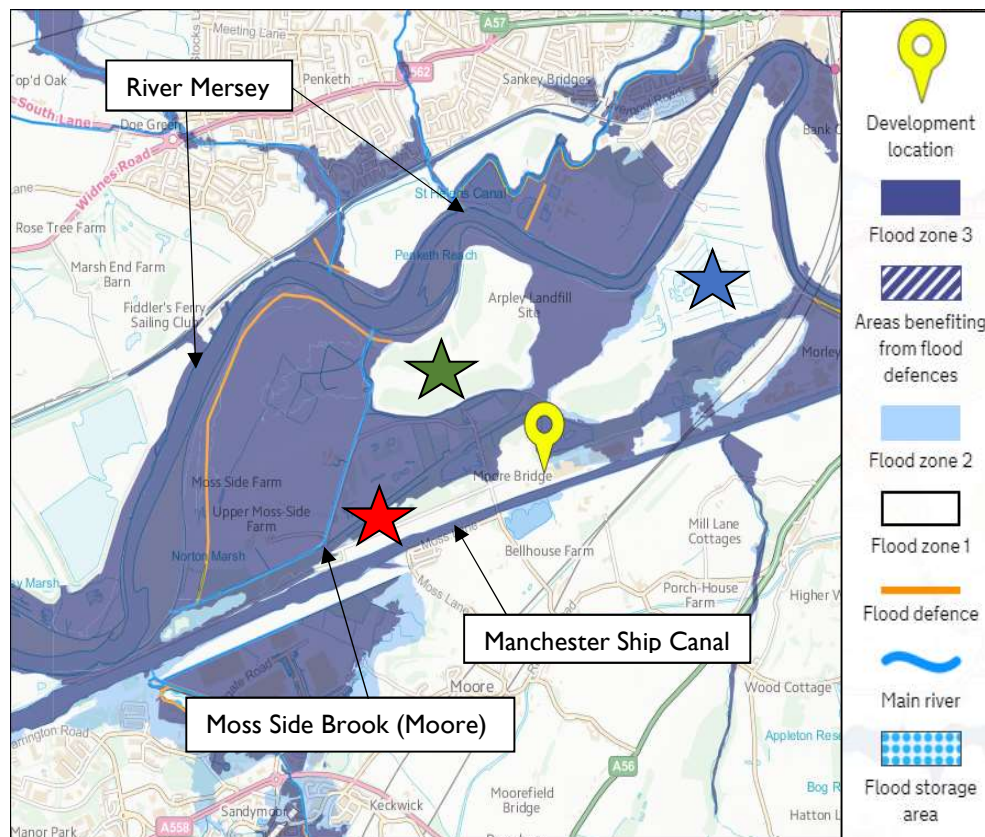


Figure 2.1 Flood Map for Planning (Gov.UK)

## Flood Zone Definition

- Flood Zone 1 (Low Probability) - land assessed as having a less than 1 in 1,000 annual probability of river or sea flooding (<0.1%)
- Flood Zone 2 (Medium Probability) - land assessed as having between a 1 in 100 and 1 in 1,000 annual probability of river flooding (1% – 0.1%), or between a 1 in 200 and 1 in 1,000 annual probability of sea flooding (0.5% – 0.1%) in any year
- Flood Zone 3 (High Probability) - land assessed as having a 1 in 100 or greater annual probability of river flooding (>1%), or a 1 in 200 or greater annual probability of flooding from the sea (>0.5%) in any year

## ENVIRONMENT AGENCY DATA

2.4. The most current flooding data and maps have been requested from the Environment Agency (EA). Their detail flood map is very similar to the Gov.UK map and does not take into account the recent level changes onsite.

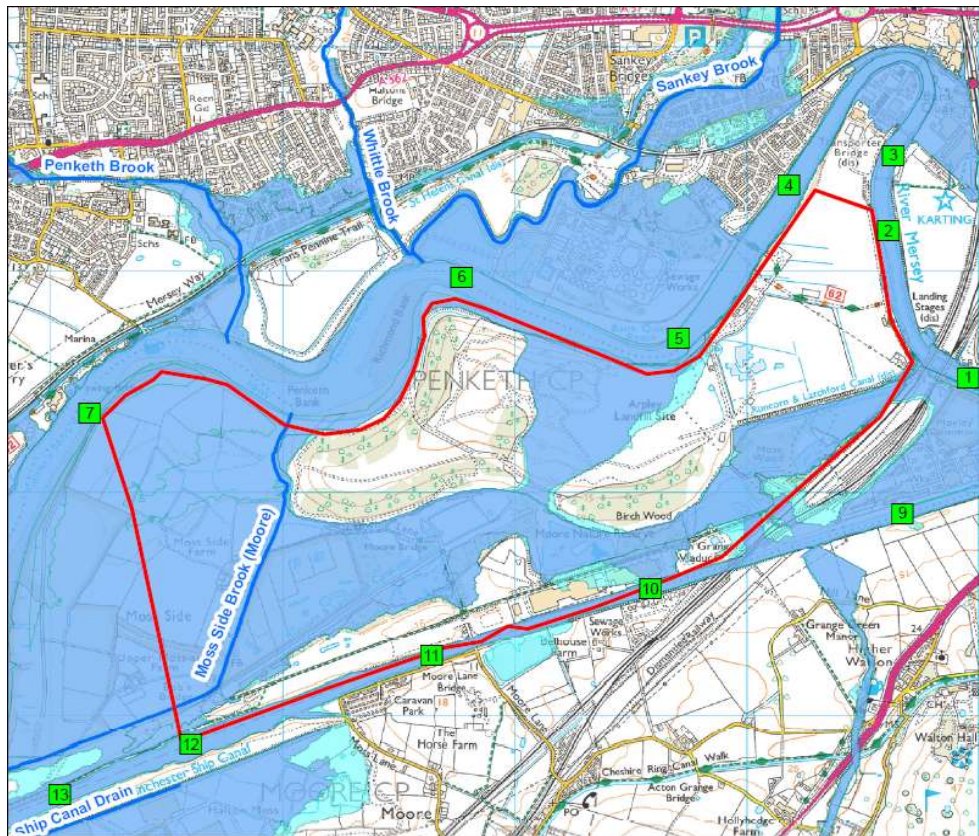


Figure 2.2 Detailed Flood Map (EA)

## FLOOD ZONE GUIDANCE

2.5. The following information within **Table 2.1 & 2.3** has been taken from the Flood Risk and Coastal Change Guidance Document and specifies which, development type is suitable for each Flood Zone.

2.6. The preliminary development plans within **Appendix B** indicates that the proposed land uses for Warrington Waterfront will be;

- *Port Warrington Extension - Water compatible and/or Less Vulnerable*
- *Arpley Meadows Business Park – Less Vulnerable*
- *Arpley Meadows Public Open Space – Water compatible*

2.7. These proposed development types/land uses are suitable within the Flood Zones identified in **Figure 2.1** (Flood Advice Map).

Highly Vulnerable	<ul style="list-style-type: none"> <li>• Police stations, Ambulance stations and Fire stations and Command Centres.</li> <li>• Basement dwellings.</li> <li>• Caravans, mobile homes &amp; park homes intended for permanent residential use.</li> <li>• Installations requiring hazardous substances consent.</li> </ul>
More Vulnerable	<ul style="list-style-type: none"> <li>• Hospitals.</li> <li>• Residential institutions</li> <li>• Residential dwelling, student halls, drinking establishments/nightclubs and hotels.</li> <li>• Non-residential - Health services, nurseries and educational establishments.</li> <li>• Landfill and sites used for waste management facilities for hazardous waste.</li> </ul>
Less Vulnerable	<ul style="list-style-type: none"> <li>• Police, ambulance and fire stations which are not required during a flood.</li> <li>• Shops; financial, professional and other services; restaurants and cafes; hot food takeaways; offices; general industry; storage and distribution; non-residential institutions not included in 'more vulnerable'; and assembly and leisure.</li> <li>• Land and buildings used for agriculture and forestry.</li> <li>• Waste treatment (except landfill and hazardous waste facilities).</li> <li>• Minerals working and processing (except for sand and gravel working).</li> <li>• Water treatment works which are not required during times of flood.</li> <li>• Sewage treatment works.</li> </ul>
Water Compatible	<ul style="list-style-type: none"> <li>• Flood control infrastructure.</li> <li>• Water transmission infrastructure and pumping stations.</li> <li>• Sewage transmission infrastructure and pumping stations.</li> <li>• Docks, marinas and wharves.</li> <li>• Navigation facilities.</li> <li>• MOD defence installations.</li> <li>• Ship building, repairing and dismantling, dockside fish processing and refrigeration and compatible activities requiring a waterside location.</li> <li>• Water-based recreation (excluding sleeping accommodation).</li> <li>• Amenity open space, nature conservation and biodiversity, outdoor sports and recreation and essential facilities such as changing rooms.</li> <li>• Essential ancillary sleeping or residential accommodation for staff required by uses in this category, subject to a specific warning and evacuation plan.</li> </ul>

**Table 2.1 Development Types (Abstract)**

Flood Zone	Flood Risk Vulnerability Classification				
	Essential Infrastructure	Highly Vulnerable	More Vulnerable	Less Vulnerable	Water Compatible
1	✓	✓	✓	✓	✓
2	✓	Exception Test	✓	✓	✓
3a	Exception Test	x	Exception Test	✓	✓
3b	Exception Test	x	x	x	✓

Table 2.2 Flood Risk Classification

## FLOOD ZONE COMPENSATION

- 2.8. Proposed developments which are in Flood Zone 3 should not result in a net loss of flood storage capacity and where possible should seek to increase flood plain storage.
- 2.9. Therefore, to prevent significant losses in existing flood water storage and to assist any future compensation analysis. We would recommend that;
- *Proposed building footprints should be positioned within low risk areas such as Flood Zone 1 & 2 when possible.*
  - *Elements such as parking/service yards etc which are less sensitive to flood risk should be placed within the higher risk areas.*

## FLOOD ZONE REQUIREMENTS

- 2.10. Even though the development is at a preliminary stage the client and design team members should be mindful of the following items to alleviate/mitigate any issues during the later stages;
- *Finished Floor Levels*
  - *Flood Resistance*
  - *Flood Resilience*
  - *Safe Access and Egress Routes*
  - *Flood Flow/Routing*
  - *Sustainable Drainage Systems*
  - *Flood Warning and Evacuation Plans*

## SECTION 3 EXISTING DRAINAGE INFRASTRUCTURE

### PUBLIC SEWERS

- 3.1. The public sewers in the area are owned and maintained by United Utilities (UU). Their sewer records have been requested and have been included in **Appendix C** of this report.

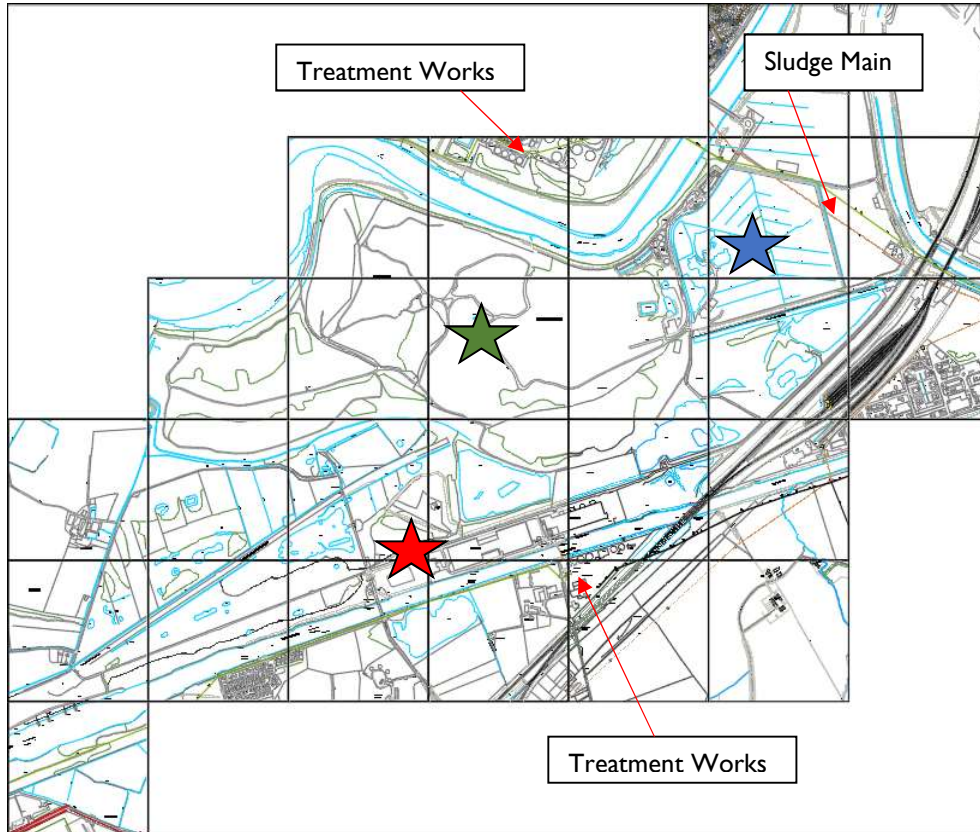


Figure 3.1 Combined UU Sewer Plan

### Surface Water Sewers

- 3.2. United Utilities records do not identify any surface water sewers onsite or in the surround area. Surface water runoff from the existing developments likely discharge into the onsite waterbodies or adjacent MSC/River Mersey via a private network.

### Foul Water Sewers

- 3.3. United Utilities records do not identify any foul water sewers onsite. Foul flows from the existing developments are likely treated onsite or discharges to either of the waste water treatment works (WWTW) via a private rising main.

### Sudge Main/Rising Main

- 3.4. United Utilities records identify a 400mm sludge main (rising main) located along the north-eastern boundary (Arpley Meadows Business Park).



### **Combined Water Sewers**

- 3.5. United Utilities records identifies a combined water sewer to the south of the MSC which discharges to the WWTW.

### **PRIVATE DRAINAGE**

- 3.6. There are no known private drainage plans/records available.

### **PRELIMINARY DEVELOPMENT DRAINAGE**

#### **Surface Water Drainage**

- 3.7. Based on the topography it should be possible to discharge any surface water runoff generated by the PDS to either the onsite waterbodies, MSC or River Mersey . This arrangement is in accordance with the runoff destination hierarchy set out in Paragraph 080 of the Flood Risk and Coastal Change Guidance document.
- 3.8. Note that any surface water runoff rates must be agreed by the Environment Agency and/or Lead Local Flood Authority. Greenfield runoff restrictions are likely to apply to the PDS.

#### **Foul Water Drainage**

- 3.9. Foul effluent generated by the PDS should discharge runoff to either of the nearby WWTW. If possible the PDS should utilise an existing route below the MSC if possible but would require further investigation.
- 3.10. At the stage the need for any off-site reinforcement is unknown and United Utilities should be consulted as soon as practically possible.

#### **Sewer Diversions**

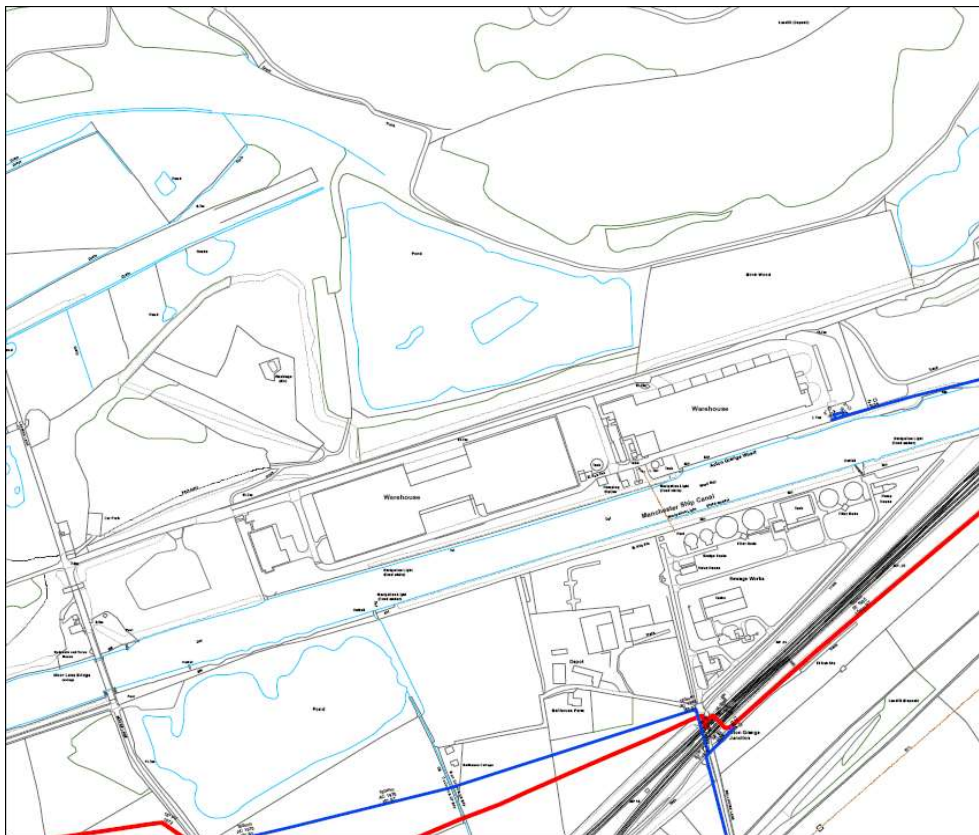
- 3.11. No sewers identified onsite.



- 4.6. New supplies for the PDS could be taken from the existing infrastructure but it is unknown if there is sufficient capacity at this stage. Discussions with Openreach should be undertaken as soon as practically possible.
- 4.7. A copy of Openreach records has been included within **Appendix E**.

**MAINS WATER**

- 4.8. Watermain records have been requested from United Utilities and have been included within **Appendix F**. The records identify a public watermain serving the existing port which is then likely distributed to the units via a private network.



**Figure 4.2 UU Watermain Records (South)**

- 4.9. The records for the northern section of the PDS (Arply Meadows) does not indicate any public supplies onsite. The detail of the records is fuzzy but it does appear that there is a private main feeding the northern section of the site via a bridge crossing.
- 4.10. The need for any offsite reinforcement to meet the supply/demand of the PDS is currently unknown. Discussions with United Utilities should be undertaken as soon as practically possible.





**Figure 4.3 UU Watermain Records (North)**

## **GAS**

- 4.11. Cadent/National Grid records identify Local High-Pressure main (LHP) along the eastern border of the PDS. The quality of the records has unfortunately limited the amount of information available such as size and depth.
- 4.12. Note that there may be legal easements associated with the LHP mains onsite and that specific offsets could be required for any proposed works i.e. piling.
- 4.13. The need for any offsite reinforcement to meet the supply/demand of the PDS is currently unknown. Discussions with Cadent/National Grid should be undertaken as soon as practically possible.

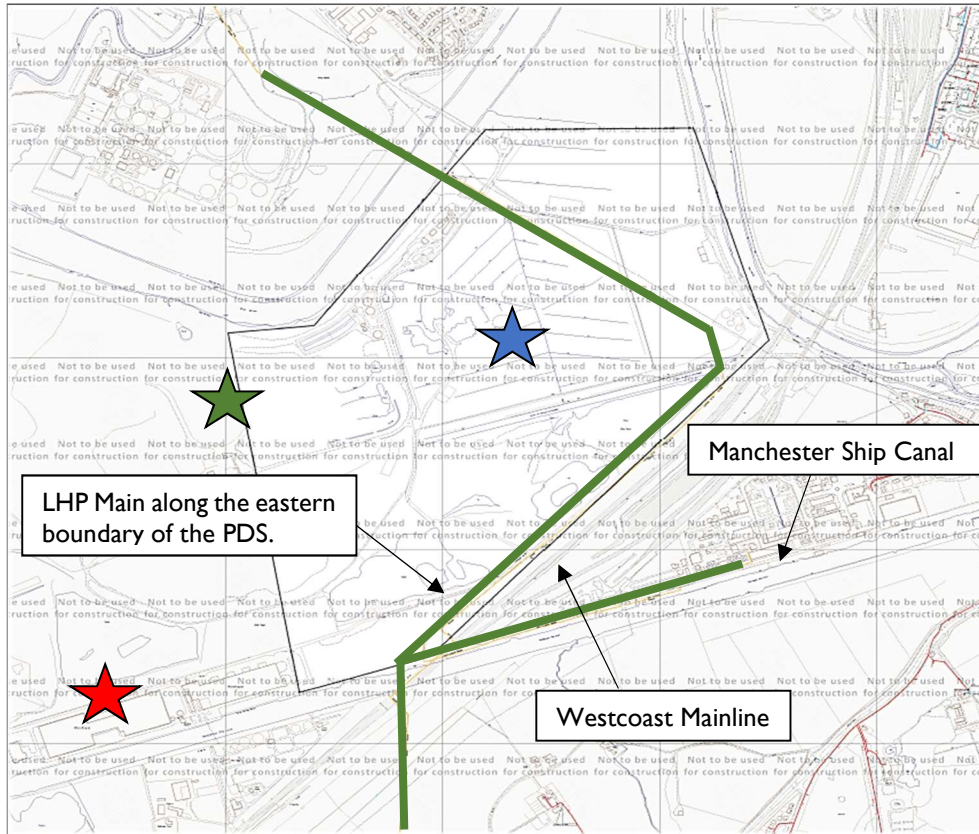


Figure 4.4 Cadent Gas Record Plans

4.14. A copy of Cadent/National Grid records has been included within **Appendix G**.

## SECTION 5 HAZARDOUS INSTALLATIONS & SERVICES

### WARRINGTON PLANNING ADVICE

- 5.1. Warrington Borough Council provide a planning advice service which combines all known planning constraints onto ordnance survey maps. The map in **Figure 5.1** has been copied from their mapping service and identifies the known hazardous pipelines and installation around the PDS.
- 5.2. The service unfortunately, doesn't provide any further information beyond the zoning.

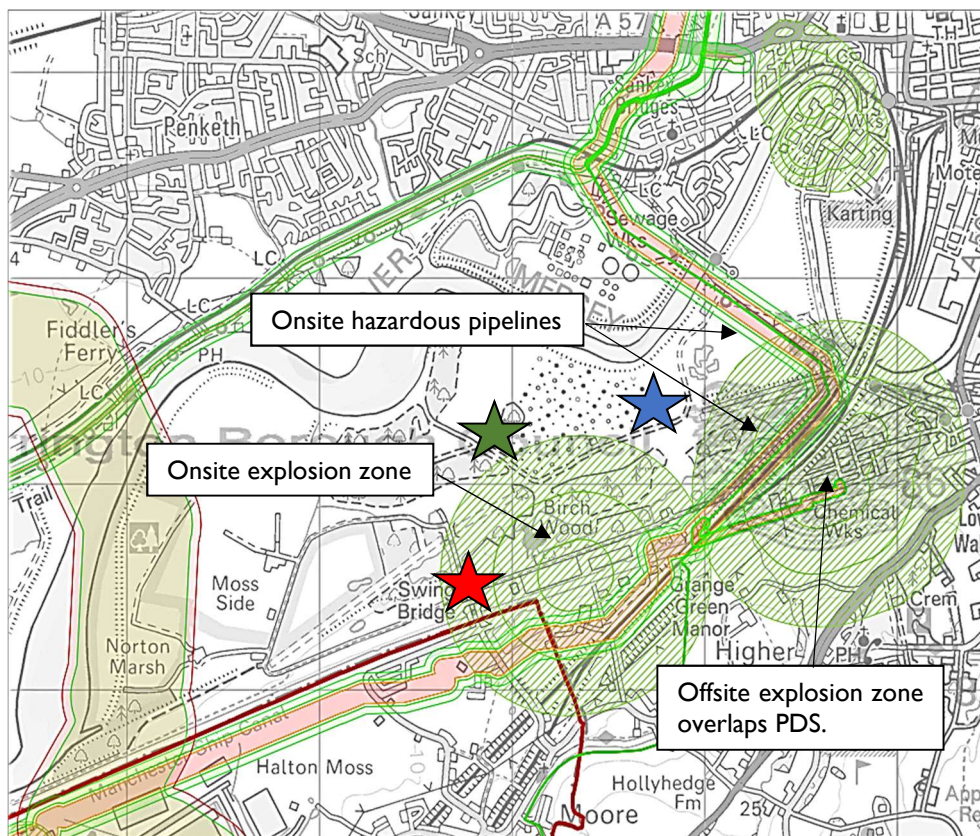


Figure 5.1 Warrington Planning Advice Map

### HEALTH AND SAFETY EXECUTIVE CHECK

- 5.3. A preliminary consultation with the Health and Safety Executive website has identified the same hazardous installations and pipelines as shown in **Figure 5.1**. Copies of the HSE plans have been included within **Appendix H**.
- 5.4. The HSE website does not identify the owners of the explosive installations but has identified the pipeline owners as;
- *Sabic UK Petro Chemicals Ltd*
  - *Cadent Gas Limited – Refer to Section 4*

### HSE Consultation Distances

- 5.5. The HSE plans provide consultation distances which consists of three zones; Inner, Middle and Outer. The zones are an offset distance from the hazard based on the associated risk but are currently unknown at this stage.
- 5.6. The HSE Land Use Planning Methodology document ranks the level of sensitivity of any development. Warrington Waterfronts intended development uses are classified as Level 1 to 3 depending upon the number of occupants;

Development Type	Examples	Development Detail and Size	Justification
DT1.1 Workplaces	Offices, factories, warehouses, haulage depots, farm buildings, non-retail markets, builders yard	Workplaces (predominantly non-retail) providing less than 100 occupants in each building and less than 3 occupied storeys – <b>Level 1</b>	Places where the occupant will be fit and healthy, and could be organised easily for emergency action. Members of the public will not be present or will be present in very small numbers for a brief time.
	Exclusions		
	Sheltered workshops, reemploy	<b>DT1.1 x1</b> Workplaces (predominantly non-retail) providing less than 100 occupants in each building and less than 3 occupied storeys – <b>Level 2</b> (Except where the development is at the major hazard site itself, where it remains Level 1)	Substantial increase in the numbers at risk with no direct benefit from exposure to the risk
		<b>DT1.2 x1</b> Workplaces (predominantly non-retail) specifically for people with disabilities – <b>Level 3</b>	Those at risk may be especially vulnerable to injury from hazardous events and / or they may not be able to be organised easily for emergency action.

**Table 5.1 HSE Development Classification - Workplace**

- 5.7. **Table 5.1** classifies non-retail workplaces with less than 100 occupants in each building (less than 3 storeys) is Level 1. This classification will likely apply to most of the developments on the PDS.

	Examples	Development Detail and Size	Justification
DT2.3 Transport Links	Motorway, dual carriageway	Major transport links in their own right i.e. not as integral part of other developments – <b>Level 2</b>	Prime purpose is as a transport link. Potentially large numbers exposed to risk, but exposure of an individual is only for a brief period.
	Exclusions		
	Estate roads, access roads,	<b>DT2.3 x1</b> Single carriageway roads – <b>Level 1</b>	Minimal numbers present and mostly a small period of time exposed to risk. Associated with other development
	Any railway or tram	<b>DT2.3 x 2</b> Railways – <b>Level 1</b>	Transient population small period of time exposed to risk. Periods of time with no population present.

**Table 5.2 HSE Development Classification – Transport**

- 5.8. **Table 5.2** classifies the proposed site infrastructure (access road and railway connection) to the PDS as Level 1.
- 5.9. **Table 5.3** indicates that proposed development types with a Level 1 sensitivity can be placed within any of the HSE Consultation Zones.

Level of Sensitivity	Developments in Inner Zone	Development in Middle Zone	Development in Outer Zone
1	Don't Advise Against	Don't Advise Against	Don't Advise Against
2	Advise Against	Don't Advise Against	Don't Advise Against
3	Advise Against	Advise Against	Don't Advise Against
4	Advise Against	Advise Against	Advise Against

**Table 5.3 HSE Decision Matrix**

### SABIC UK PETRO CHEMICALS LTD

5.10. Saudi Basic Industries Corporation (SABIC) records have been included within **Appendix I** and identifies the onsite pipelines as;

- 8" High Pressure Ethylene pipe
- INEOS Hydrogen pipe.

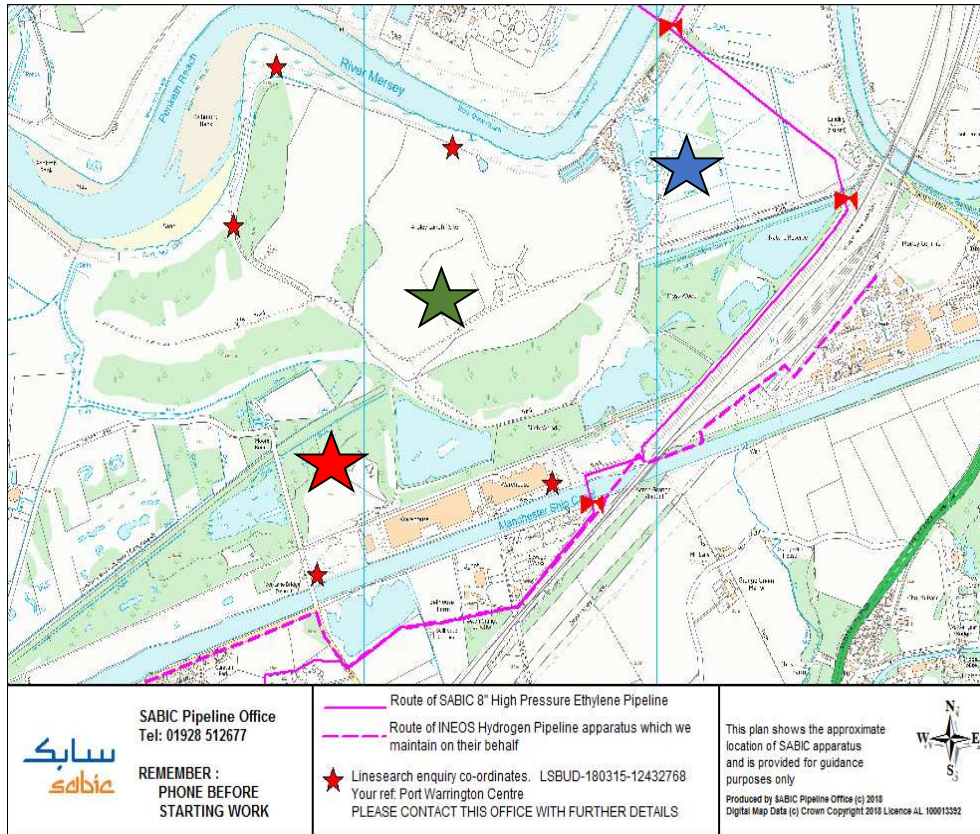


Figure 5.2 SABIC Infrastructure



## SECTION 6 CONCLUSION

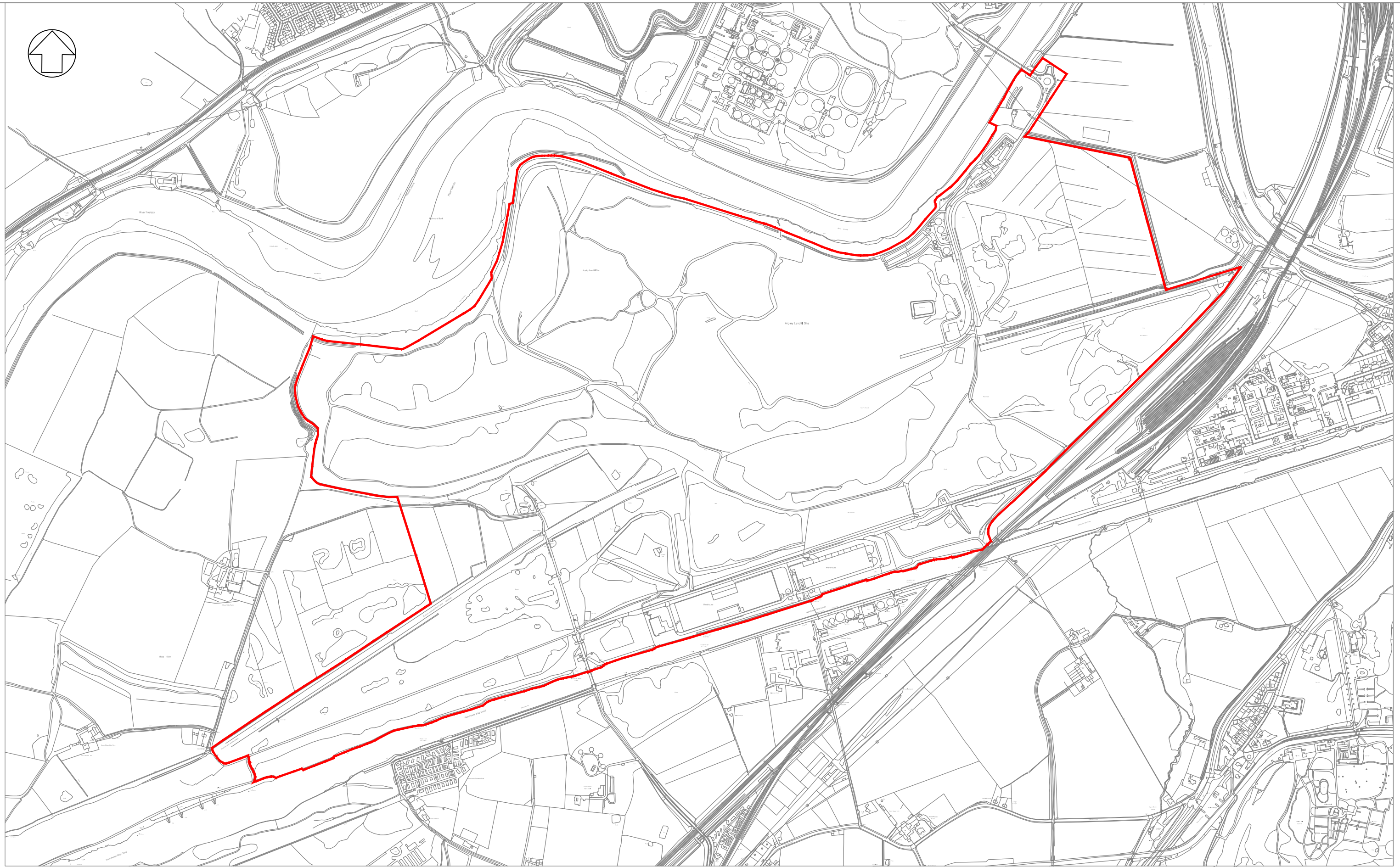
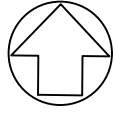
6.1. This preliminary planning advice statement provides an overview of the existing infrastructure on or around the proposed site and evaluates flood risk issues that may potentially influence the conceptual masterplan. In summary, the statement confirms that;


- a) That the proposed development site is within Flood Zone 1, 2 & 3 (low, medium and high probability). In accordance with the Flood Risk and Coastal Change Guidance the proposed land uses are acceptable in these zones.
- b) The proposed surface water runoff generated by the proposals should discharge to the onsite waterbodies and/or the Manchester Ship Canal/River Mersey. Flow rates are to be agreed with the Environment Agency, Manchester Ship Canal or Lead Local Flood Authority (depending on waterbody).
- c) The proposed foul water effluent should discharge to either of the nearby Waste Water Treatment Works. The flow rates and need for any offsite/onsite upgrade works are to be agreed with United Utilities.
- d) Early discussions with Electricity North West are required to establish the proposed electricity supply/route(s) to the site.
- e) The existing Openreach infrastructure onsite should be able to cater for the site proposals. But early discussions with Openreach should be undertaken.
- f) Early discussions with United Utilities are required to establish the proposed mains water route(s) to the site.
- g) Early discussions with Cadent/National Grid are required to confirm the onsite easement associated with the LHP main and establish the future proposed gas main route(s) to the site (if required).
- h) Early discussions with Health and Safety Executive are required to confirm the consulting distances associated with the LHP and SABIC pipelines as well as the two industrial units. Once confirmed the conceptual masterplan can be approved in principal by the HSE to avoid any future objections during the planning process.

# APPENDIX A

SHEPHERD • GILMOUR SHEPHERD • GILMOUR SHEPHERD • GILMOUR SHEPHERD • GILMOUR SHEPHERD • GILMOUR





Site Location Plan  
 Nearest Postcode: WA4 6XE  
 Grid Reference: 358227,385557  
 Site Boundary: 

Client	Peel Investments (North) Ltd
Project	Warrington Waterfront
Title	Site Location Plan

Date :	23.04.2018
Scale :	NTS
Drawn By :	DOR
Checked :	
Approved :	
Paper Size :	A3



**Shepherd Gilmour**  
 Consulting Engineers

t: 0161 837 1500 w: www.shepherd-gilmour.co.uk

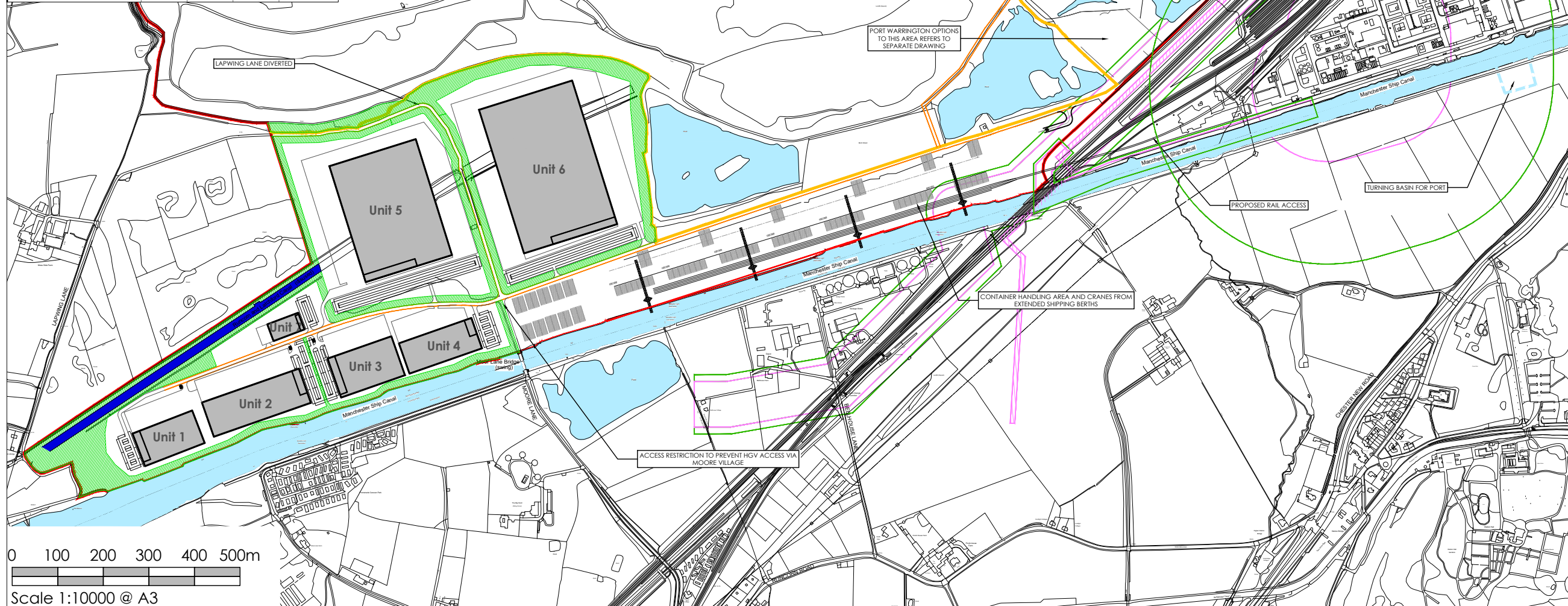
Job No / Drawing No **C1311-101**

Revision **-**

# APPENDIX B

SHEPHERD • GILMOUR SHEPHERD • GILMOUR SHEPHERD • GILMOUR SHEPHERD • GILMOUR SHEPHERD • GILMOUR

SCHEDULE OF ACCOMMODATION							
Warrington Commercial Park	Unit Name	Ground Floor GIA	First Floor (Offices) GIA	Overall GIA	Overall GEA	Car Parking	
Warrington Commercial Park	Unit 1	33,550 m <sup>2</sup> 3,065 m <sup>2</sup>	3,300 m <sup>2</sup> 356 m <sup>2</sup>	36,850 m <sup>2</sup> 3,421 m <sup>2</sup>	38,010 m <sup>2</sup> 3,777 m <sup>2</sup>	52	
	Unit 2	38,577 m <sup>2</sup> 3,384 m <sup>2</sup>	3,857 m <sup>2</sup> 358 m <sup>2</sup>	42,434 m <sup>2</sup> 3,742 m <sup>2</sup>	44,324 m <sup>2</sup> 4,100 m <sup>2</sup>	80	
	Unit 3	40,406 m <sup>2</sup> 5,833 m <sup>2</sup>	4,040 m <sup>2</sup> 563 m <sup>2</sup>	44,446 m <sup>2</sup> 6,396 m <sup>2</sup>	48,728 m <sup>2</sup> 6,386 m <sup>2</sup>	120	
	Unit 4	38,577 m <sup>2</sup> 3,384 m <sup>2</sup>	3,857 m <sup>2</sup> 358 m <sup>2</sup>	42,434 m <sup>2</sup> 3,742 m <sup>2</sup>	44,324 m <sup>2</sup> 4,100 m <sup>2</sup>	80	
	Unit 5	100,577 m <sup>2</sup> 9,344 m <sup>2</sup>	10,057 m <sup>2</sup> 934 m <sup>2</sup>	110,634 m <sup>2</sup> 10,278 m <sup>2</sup>	113,813 m <sup>2</sup> 10,555 m <sup>2</sup>	208	
	Unit 6	42,425 m <sup>2</sup> 3,964 m <sup>2</sup>	4,242 m <sup>2</sup> 394 m <sup>2</sup>	46,667 m <sup>2</sup> 4,358 m <sup>2</sup>	48,771 m <sup>2</sup> 4,552 m <sup>2</sup>	73	
	Unit 7	116,200 m <sup>2</sup> 10,800 m <sup>2</sup>	11,425 m <sup>2</sup> 1,080 m <sup>2</sup>	127,625 m <sup>2</sup> 11,880 m <sup>2</sup>	131,050 m <sup>2</sup> 12,175 m <sup>2</sup>	240	
	Unit 8	29,200 m <sup>2</sup> 2,300 m <sup>2</sup>	2,400 m <sup>2</sup> 250 m <sup>2</sup>	31,600 m <sup>2</sup> 2,550 m <sup>2</sup>	33,110 m <sup>2</sup> 3,001 m <sup>2</sup>	46	
	Unit 9	20,666 m <sup>2</sup> 1,900 m <sup>2</sup>	2,066 m <sup>2</sup> 192 m <sup>2</sup>	22,732 m <sup>2</sup> 2,092 m <sup>2</sup>	24,044 m <sup>2</sup> 2,284 m <sup>2</sup>	43	
	Unit 10	31,000 m <sup>2</sup> 2,800 m <sup>2</sup>	3,100 m <sup>2</sup> 288 m <sup>2</sup>	34,100 m <sup>2</sup> 3,088 m <sup>2</sup>	35,800 m <sup>2</sup> 3,326 m <sup>2</sup>	44	
	Unit 11	17,200 m <sup>2</sup> 1,410 m <sup>2</sup>	1,720 m <sup>2</sup> 161 m <sup>2</sup>	18,920 m <sup>2</sup> 1,571 m <sup>2</sup>	20,252 m <sup>2</sup> 1,882 m <sup>2</sup>	31	
	Unit 12	16,145 m <sup>2</sup> 1,300 m <sup>2</sup>	1,614 m <sup>2</sup> 150 m <sup>2</sup>	17,759 m <sup>2</sup> 1,450 m <sup>2</sup>	18,922 m <sup>2</sup> 1,708 m <sup>2</sup>	27	
	Unit 18	18,452 m <sup>2</sup> 1,714 m <sup>2</sup>	1,845 m <sup>2</sup> 171 m <sup>2</sup>	20,297 m <sup>2</sup> 1,985 m <sup>2</sup>	21,517 m <sup>2</sup> 2,099 m <sup>2</sup>	32	
	Unit 19	18,452 m <sup>2</sup> 1,714 m <sup>2</sup>	1,845 m <sup>2</sup> 171 m <sup>2</sup>	20,297 m <sup>2</sup> 1,985 m <sup>2</sup>	21,517 m <sup>2</sup> 2,099 m <sup>2</sup>	32	
	Unit 20	29,200 m <sup>2</sup> 2,300 m <sup>2</sup>	2,400 m <sup>2</sup> 272 m <sup>2</sup>	31,600 m <sup>2</sup> 2,672 m <sup>2</sup>	33,074 m <sup>2</sup> 3,147 m <sup>2</sup>	25	
	Trade Counter	Unit 13A - D	5,500 m <sup>2</sup> 505 m <sup>2</sup>	550 m <sup>2</sup> 50 m <sup>2</sup>	6,050 m <sup>2</sup> 555 m <sup>2</sup>	6,305 m <sup>2</sup> 585 m <sup>2</sup>	6 (24)
		Unit 14A - F	5,000 m <sup>2</sup> 464 m <sup>2</sup>	500 m <sup>2</sup> 46 m <sup>2</sup>	5,500 m <sup>2</sup> 510 m <sup>2</sup>	5,764 m <sup>2</sup> 526 m <sup>2</sup>	6 (40)
	Complementary Uses	Unit 15 - Gym	9,487 m <sup>2</sup> 900 m <sup>2</sup>	9,487 m <sup>2</sup> 900 m <sup>2</sup>	18,974 m <sup>2</sup> 1,800 m <sup>2</sup>	20,488 m <sup>2</sup> 1,922 m <sup>2</sup>	83
		Unit 16 - Retail	18,000 m <sup>2</sup> 1,600 m <sup>2</sup>	1,800 m <sup>2</sup> 160 m <sup>2</sup>	19,800 m <sup>2</sup> 1,760 m <sup>2</sup>	19,552 m <sup>2</sup> 1,755 m <sup>2</sup>	76
		Unit 17 - Food Retailer	18,191 m <sup>2</sup> 1,690 m <sup>2</sup>	1,819 m <sup>2</sup> 169 m <sup>2</sup>	20,010 m <sup>2</sup> 1,859 m <sup>2</sup>	19,202 m <sup>2</sup> 1,784 m <sup>2</sup>	105
Unit C1 - Drive Thru		5,123 m <sup>2</sup> 474 m <sup>2</sup>	512 m <sup>2</sup> 47 m <sup>2</sup>	5,635 m <sup>2</sup> 521 m <sup>2</sup>	5,488 m <sup>2</sup> 508 m <sup>2</sup>	48	
Unit C2 - Drive Thru		2,484 m <sup>2</sup> 231 m <sup>2</sup>	248 m <sup>2</sup> 23 m <sup>2</sup>	2,732 m <sup>2</sup> 254 m <sup>2</sup>	2,841 m <sup>2</sup> 284 m <sup>2</sup>	33	
Office Units		A1 - 5	3,229 m <sup>2</sup> 300 m <sup>2</sup>	3,229 m <sup>2</sup> 300 m <sup>2</sup>	6,458 m <sup>2</sup> 600 m <sup>2</sup>	6,758 m <sup>2</sup> 630 m <sup>2</sup>	23 (115)
	B1 - 3	4,045 m <sup>2</sup> 375 m <sup>2</sup>	4,045 m <sup>2</sup> 375 m <sup>2</sup>	8,090 m <sup>2</sup> 750 m <sup>2</sup>	8,415 m <sup>2</sup> 785 m <sup>2</sup>	28 (84)	
	D1 - 2	5,751 m <sup>2</sup> 534 m <sup>2</sup>	5,751 m <sup>2</sup> 534 m <sup>2</sup>	11,502 m <sup>2</sup> 1,068 m <sup>2</sup>	12,276 m <sup>2</sup> 1,136 m <sup>2</sup>	41 (82)	
	E1 - E2	4,305 m <sup>2</sup> 400 m <sup>2</sup>	4,305 m <sup>2</sup> 400 m <sup>2</sup>	8,610 m <sup>2</sup> 800 m <sup>2</sup>	9,138 m <sup>2</sup> 850 m <sup>2</sup>	31 (42)	
Showeroom	Unit 21	19,375 m <sup>2</sup> 1,800 m <sup>2</sup>	1,937 m <sup>2</sup> 180 m <sup>2</sup>	21,312 m <sup>2</sup> 2,000 m <sup>2</sup>	22,354 m <sup>2</sup> 2,180 m <sup>2</sup>	-	
<b>Total Warrington Commercial Park Development</b>				<b>892,516 m<sup>2</sup> 82,916 m<sup>2</sup></b>	<b>937,638 m<sup>2</sup> 87,112 m<sup>2</sup></b>	<b>2,030</b>	
<b>Port Warrington</b>				<b>129,790 m<sup>2</sup> 3,000 m<sup>2</sup></b>	<b>132,790 m<sup>2</sup> 3,000 m<sup>2</sup></b>		
Port Warrington	Unit 1	114,528 m <sup>2</sup> 10,440 m <sup>2</sup>	11,452 m <sup>2</sup> 1,044 m <sup>2</sup>	125,980 m <sup>2</sup> 11,484 m <sup>2</sup>	129,210 m <sup>2</sup> 11,528 m <sup>2</sup>	97	
	Unit 2	191,130 m <sup>2</sup> 17,256 m <sup>2</sup>	19,113 m <sup>2</sup> 1,725 m <sup>2</sup>	210,243 m <sup>2</sup> 19,231 m <sup>2</sup>	215,052 m <sup>2</sup> 19,979 m <sup>2</sup>	142	
	Unit 3	143,375 m <sup>2</sup> 13,300 m <sup>2</sup>	14,337 m <sup>2</sup> 1,330 m <sup>2</sup>	157,712 m <sup>2</sup> 14,652 m <sup>2</sup>	161,368 m <sup>2</sup> 14,991 m <sup>2</sup>	122	
	Unit 4	126,583 m <sup>2</sup> 11,140 m <sup>2</sup>	12,658 m <sup>2</sup> 1,114 m <sup>2</sup>	139,241 m <sup>2</sup> 12,964 m <sup>2</sup>	142,955 m <sup>2</sup> 13,281 m <sup>2</sup>	108	
	Unit 5	567,248 m <sup>2</sup> 52,701 m <sup>2</sup>	60,902 m <sup>2</sup> 5,688 m <sup>2</sup>	628,150 m <sup>2</sup> 58,589 m <sup>2</sup>	637,503 m <sup>2</sup> 59,224 m <sup>2</sup>	553	
	Unit 6	738,392 m <sup>2</sup> 70,457 m <sup>2</sup>	73,839 m <sup>2</sup> 7,045 m <sup>2</sup>	812,231 m <sup>2</sup> 77,502 m <sup>2</sup>	845,345 m <sup>2</sup> 78,537 m <sup>2</sup>	646	
	Unit 7	30,000 m <sup>2</sup> 2,900 m <sup>2</sup>	3,000 m <sup>2</sup> 278 m <sup>2</sup>	33,000 m <sup>2</sup> 3,065 m <sup>2</sup>	34,659 m <sup>2</sup> 3,220 m <sup>2</sup>	26	
<b>Total Port Warrington Development</b>				<b>2,128,577 m<sup>2</sup> 197,749 m<sup>2</sup></b>	<b>2,146,165 m<sup>2</sup> 201,238 m<sup>2</sup></b>	<b>1,714</b>	
<b>TOTAL SITE DEVELOPMENT</b>				<b>3,021,173 m<sup>2</sup> 280,665 m<sup>2</sup></b>	<b>3,103,798 m<sup>2</sup> 288,350 m<sup>2</sup></b>	<b>3,744</b>	



- ### NOTES
- All dimensions and levels are to be checked on site.
  - Any discrepancies are to be reported to the architect before any work commences.
  - This drawing shall not be scaled to ascertain any dimensions. Work to figured dimensions only.
  - This drawing shall not be reproduced without express written permission from AEW.
  - Title overlay drawings and ownership boundaries are produced using all reasonable endeavors. AEW cannot be responsible for the accuracy or scale discrepancy of base plans supplied to them.
  - All works are to be undertaken in accordance with Building Regulations and the latest British Standards.
  - All proprietary materials and products are to be used strictly in accordance with the manufacturers recommendations.

CDM 2015  
Client notified of duties:  
Principal Designer:  
Unless noted below, all known hazards have been highlighted on the drawing:

**Key**

- Proposed Development Area
- Proposed Commercial Park
- Proposed Extended Port Warrington
- Proposed Landscape Buffer Zone
- Explosion Zone Inner (info provided by SGI)
- Explosion Zone Middle (info provided by SGI)
- Existing Overhead Electricity Cables

**Note:**

- The site area is based on OS map and a topographical survey is required for an accurate figure.
- The site boundaries shown are an estimate due to lack of up to date base shown on OS map.

CAR PARKING AREAS REFLECT WARRINGTON B8 STANDARDS for Port area and B2 standards for COMMERCIAL PARK

Status	Date	Drawn by:	Checked by:	Purpose of Issue
P5	09/04/20	TF	AL	Notation amended
P4	31/02/20	TF	AL	Unit 5 and 4 reinstated. Schedule amended accordingly and unit GEAs noted
P3	30/10/19	TF	AL	Plots 5-7 amended to reflect TEP Shadow Habitat Regulations Assessment Report (Oct. 2019).
P2	04/02/19	TF	AL	Warrington Commercial Park arrangement amended to client comments 30/01/19.
P1	06/11/18	TF	AL	Initial Issue.

**S1 For Comment**

drawing stage: **Feasibility**

client: **Peel Ports Ltd**

project: **Port Warrington Masterplan**

drawing title: **Port-Centric Industrial Park Illustrative Masterplan**

date: 06/11/18 drawn: TF  
scale: 1:10000 checked: AL

# APPENDIX C

SHEPHERD • GILMOUR SHEPHERD • GILMOUR SHEPHERD • GILMOUR SHEPHERD • GILMOUR SHEPHERD • GILMOUR

**SGi Consulting**

[Redacted]

**FAO:**

**How to contact us:**

[Redacted]

**Telephone:** [Redacted]

**E-mail:** [Redacted]

**Your Ref: Warrington40  
Our Ref: UUPS-ORD-18075  
Date: 22/03/2018**

**Dear Sirs**

**Location: Port Warrington**

I acknowledge with thanks your request dated 15/03/2018 for information on the location of our services.

Please find enclosed plans showing the approximate position of United Utilities' apparatus known to be in the vicinity of this site.

The enclosed plans are being provided to you subject to the United Utilities terms and conditions for both the wastewater and water distribution plans which are shown attached.

If you are planning works anywhere in the North West, please read United Utilities' access statement before you start work to check how it will affect our network. <http://www.unitedutilities.com/work-near-asset.aspx>.

I trust the above meets with your requirements and look forward to hearing from you should you need anything further.

If you have any queries regarding this matter please [contact us](#).

Yours Faithfully,

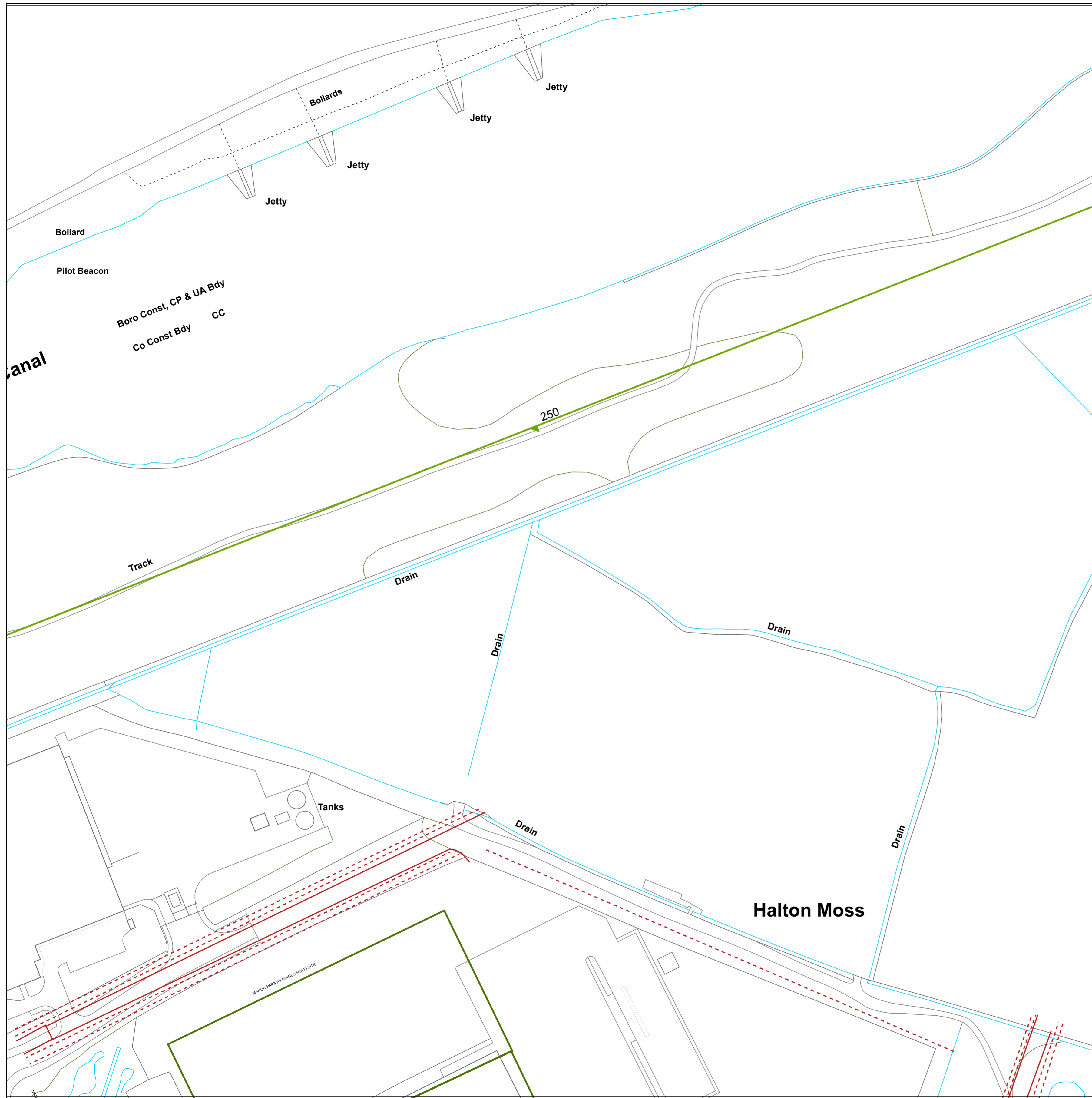
[Redacted Signature]

## TERMS AND CONDITIONS - WASTERWATER AND WATER DISTRIBUTION PLANS

These provisions apply to the public sewerage, water distribution and telemetry systems (including sewers which are the subject of an agreement under Section 104 of the Water Industry Act 1991 and mains installed in accordance with the agreement for the self construction of water mains) (UUWL apparatus) of United Utilities Water Limited "(UUWL)".

### TERMS AND CONDITIONS:

- This Map and any information supplied with it is issued subject to the provisions contained below, to the exclusion of all others and no party relies upon any representation, warranty, collateral contract or other assurance of any person (whether party to this agreement or not) that is not set out in this agreement or the documents referred to in it.
- This Map and any information supplied with it is provided for general guidance only and no representation, undertaking or warranty as to its accuracy, completeness or being up to date is given or implied.
- In particular, the position and depth of any UUWL apparatus shown on the Map are approximate only. UUWL strongly recommends that a comprehensive survey is undertaken in addition to reviewing this Map to determine and ensure the precise location of any UUWL apparatus. The exact location, positions and depths should be obtained by excavation trial holes.
- The location and position of private drains, private sewers and service pipes to properties are not normally shown on this Map but their presence must be anticipated and accounted for and you are strongly advised to carry out your own further enquiries and investigations in order to locate the same.
- The position and depth of UUWL apparatus is subject to change and therefore this Map is issued subject to any removal or change in location of the same. The onus is entirely upon you to confirm whether any changes to the Map have been made subsequent to issue and prior to any works being carried out.
- This Map and any information shown on it or provided with it must not be relied upon in the event of any development, construction or other works (including but not limited to any excavations) in the vicinity of UUWL apparatus or for the purpose of determining the suitability of a point of connection to the sewerage or other distribution systems.
- No person or legal entity, including any company shall be relieved from any liability howsoever and whensoever arising for any damage caused to UUWL apparatus by reason of the actual position and/or depths of UUWL apparatus being different from those shown on the Map and any information supplied with it.
- If any provision contained herein is or becomes legally invalid or unenforceable, it will be taken to be severed from the remaining provisions which shall be unaffected and continue in full force and affect.
- This agreement shall be governed by English law and all parties submit to the exclusive jurisdiction of the English courts, save that nothing will prevent UUWL from bringing proceedings in any other competent jurisdiction, whether concurrently or otherwise.



Refo Cover Func Invert Size x Size y Shape Mat Length Grad

**WASTE WATER SYMBOLOGY**

Foul	Surface	Combined	Overflow	Manhole
[Symbol]	[Symbol]	[Symbol]	[Symbol]	Manhole, Side Entry
[Symbol]	[Symbol]	[Symbol]	[Symbol]	MainSewer, Public
[Symbol]	[Symbol]	[Symbol]	[Symbol]	MainSewer, Private
[Symbol]	[Symbol]	[Symbol]	[Symbol]	MainSewer, S104
[Symbol]	[Symbol]	[Symbol]	[Symbol]	Rising Main, Public
[Symbol]	[Symbol]	[Symbol]	[Symbol]	Rising Main, Private
[Symbol]	[Symbol]	[Symbol]	[Symbol]	Rising Main, S104
[Symbol]	[Symbol]	[Symbol]	[Symbol]	Highway Drain, Private

Foul	Surface	Combined	Function	Material
[Symbol]	[Symbol]	[Symbol]	WW Site Termination	Sludge Main, Public
[Symbol]	[Symbol]	[Symbol]	Air Valve	Sludge Main, Private
[Symbol]	[Symbol]	[Symbol]	Cascade	Sludge Main, S104
[Symbol]	[Symbol]	[Symbol]	Non Return Valve	
[Symbol]	[Symbol]	[Symbol]	Extent of Survey	
[Symbol]	[Symbol]	[Symbol]	Flow Meter	
[Symbol]	[Symbol]	[Symbol]	Gully	
[Symbol]	[Symbol]	[Symbol]	Hatch Box	
[Symbol]	[Symbol]	[Symbol]	Head of System	
[Symbol]	[Symbol]	[Symbol]	Hydrobrake / Vortex	
[Symbol]	[Symbol]	[Symbol]	Inlet	
[Symbol]	[Symbol]	[Symbol]	Inspection Chamber	
[Symbol]	[Symbol]	[Symbol]	Bifurcation	
[Symbol]	[Symbol]	[Symbol]	Catchpit	
[Symbol]	[Symbol]	[Symbol]	Contaminated Surface Water	
[Symbol]	[Symbol]	[Symbol]	WW Pumping Station	
[Symbol]	[Symbol]	[Symbol]	Sludge Pumping Station	
[Symbol]	[Symbol]	[Symbol]	Sewer Overflow	
[Symbol]	[Symbol]	[Symbol]	T Junction/Saddle	
[Symbol]	[Symbol]	[Symbol]	LampHole	
[Symbol]	[Symbol]	[Symbol]	Oil Interceptor	
[Symbol]	[Symbol]	[Symbol]	PenStock	
[Symbol]	[Symbol]	[Symbol]	Pump	
[Symbol]	[Symbol]	[Symbol]	RoddingEye	
[Symbol]	[Symbol]	[Symbol]	Soakaway	
[Symbol]	[Symbol]	[Symbol]	Summit	
[Symbol]	[Symbol]	[Symbol]	Valve	
[Symbol]	[Symbol]	[Symbol]	Valve Chamber	
[Symbol]	[Symbol]	[Symbol]	Washout Chamber	
[Symbol]	[Symbol]	[Symbol]	DropShaft	
[Symbol]	[Symbol]	[Symbol]	WW Treatment Works	
[Symbol]	[Symbol]	[Symbol]	Septic Tank	
[Symbol]	[Symbol]	[Symbol]	Vent Column	
[Symbol]	[Symbol]	[Symbol]	Network Storage Tank	
[Symbol]	[Symbol]	[Symbol]	Orifice Plate	
[Symbol]	[Symbol]	[Symbol]	Vortex Chamber	
[Symbol]	[Symbol]	[Symbol]	Penstock Chamber	
[Symbol]	[Symbol]	[Symbol]	Blind Manhole	
[Symbol]	[Symbol]	[Symbol]	Screen Chamber	Control Kiosk
[Symbol]	[Symbol]	[Symbol]	Discharge Point	Unspecified
[Symbol]	[Symbol]	[Symbol]	Outfall	

**LEGEND**

**MANHOLE FUNCTION**

FO Foul  
 SW Surface Water  
 CO Combined  
 OV Overflow

**SEWER SHAPE**

CI Circular TR Trapezoidal  
 EG Egg AR Arch  
 OV Oval BA Barrel  
 FT Flat Top HO HorseShoe  
 RE Rectangular UN Unspecified  
 SQ Square

**SEWER MATERIAL**

AC Asbestos Cement DI Ductile Iron  
 BR Brick PVC Polyvinyl Chloride  
 PE Polyethylene CI Cast Iron  
 RP Reinforced Plastic Matrix SI Spun Iron  
 CO Concrete ST Steel  
 CSB Concrete Segment Bolted VC Vitrified Clay  
 CSU Concrete Segment Unbolted PP Polypropylene  
 CC Concrete Box Culverted PF Pitch Fibre  
 PSC Plastic/Steel Composite MAC Masonry, Coursed  
 GRC Glass Reinforced Concrete MAR Masonry, Random  
 GRP Glass Reinforced Plastic U Unspecified

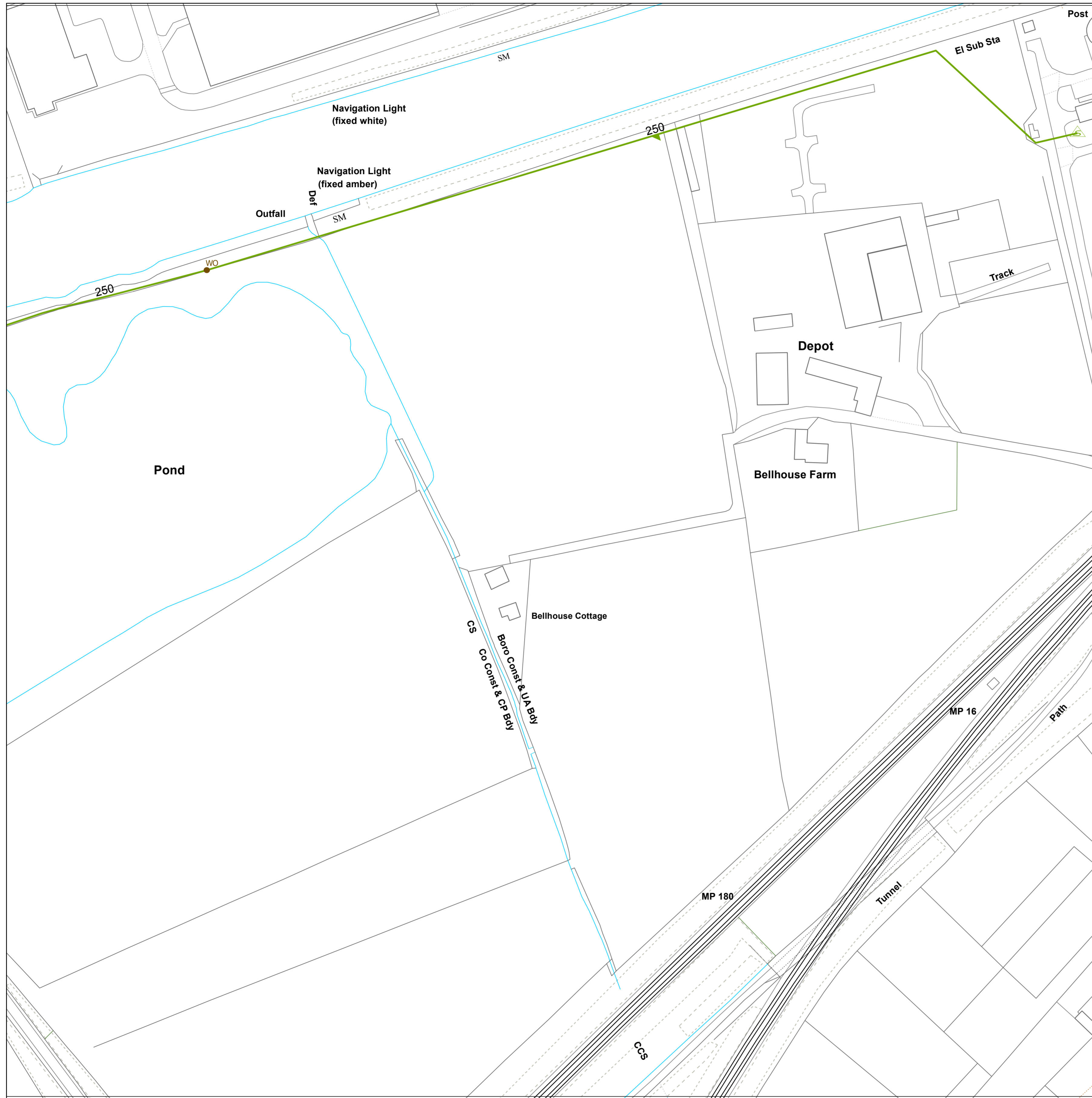
The position of the underground apparatus shown on this plan is approximate only and is given in accordance with the best information currently available. United Utilities Water will not accept liability for any loss or damage caused by the actual position being different from those shown. Crown copyright and database rights [2016] Ordnance Survey 100022432.

OS Sheet No: SJ5684NE  
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 Sheet 1 of 1



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 Scale: 1:1250 Date: 22/03/2018



Ratio	Cover	Func	Invert	Size	Size	yShape	Mat	Length	Grad	Ratio	Cover	Func	Invert	Size	Size	yShape	Mat	Length	Grad
4401		FD	0	250	CI	SI	430,91												

### WASTE WATER SYMBOLOGY

Foul	Surface	Combined	Overflow	Manhole
				Manhole
				Manhole, Side Entry
				MainSewer, Public
				MainSewer, Private
				MainSewer, S104
				Rising Main, Public
				Rising Main, Private
				Rising Main, S104
				Highway Drain, Private

Foul	Surface	Combined	Overflow

### ABANDONED PIPE

	MainSewer
	Rising Main
	Highway Drain
	Sludge Main

### LEGEND

MANHOLE FUNCTION	
FO	Foul
SW	Surface Water
CO	Combined
OV	Overflow

SEWER SHAPE	
CI	Circular
EG	Egg
OV	Oval
FT	Flat Top
RE	Rectangular
SQ	Square
TR	Trapezoidal
AR	Arch
BA	Barrel
HO	HorseShoe
UN	Unspecified

SEWER MATERIAL	
AC	Asbestos Cement
BR	Brick
PE	Polyethylene
RP	Reinforced Plastic Matrix
CO	Concrete
CSB	Concrete Segment Bolted
CSU	Concrete Segment Unbolted
CC	Concrete Box Culverted
PSC	Plastic/Steel Composite
GRC	Glass Reinforced Concrete
GRP	Glass Reinforced Plastic
DI	Ductile Iron
PVC	Polyvinyl Chloride
CI	Cast Iron
SI	Spun Iron
ST	Steel
VC	Vitrified Clay
PP	Polypropylene
PF	Pitch Fibre
MAC	Masonry, Coursed
MAR	Masonry, Random
U	Unspecified

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 Sheet 1 of 1



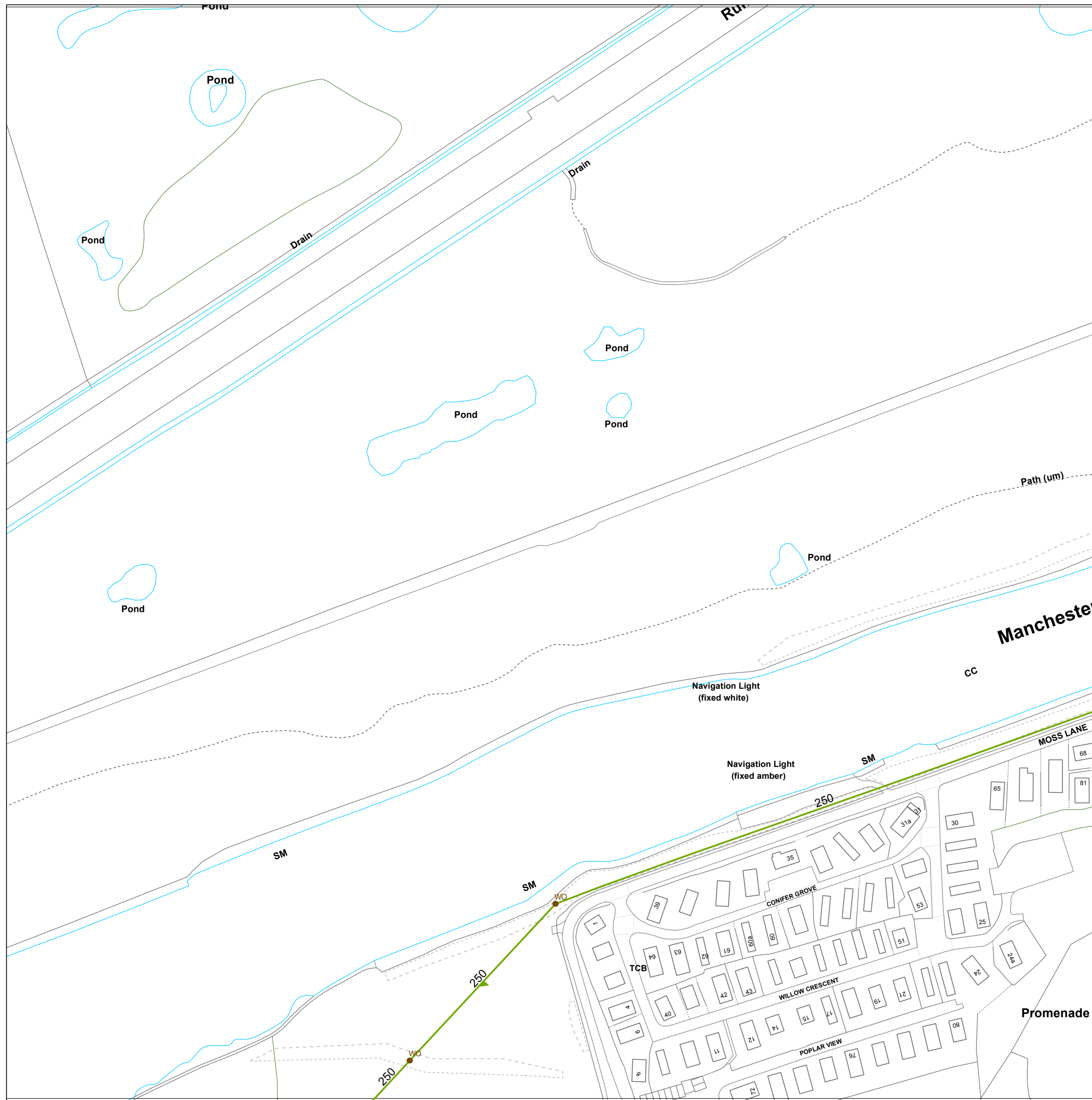
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Scale: 1:1250 Date: 22/03/2018

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Refo	Cover	Func	Invert	Size	Shape	Mat	Length	Grad	Refo	Cover	Func	Invert	Size	Shape	Mat	Length	Grad
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### WASTE WATER SYMBOLOGY

Foul	Surface	Combined	Overflow	Manhole
				Manhole
				Manhole, Side Entry
				MainSewer, Public
				MainSewer, Private
				MainSewer, S104
				Rising Main, Public
				Rising Main, Private
				Rising Main, S104
				Highway Drain, Private

Foul	Surface	Combined	Overflow

### ABANDONED PIPE

	MainSewer
	Rising Main
	Highway Drain
	Sludge Main

### LEGEND

MANHOLE FUNCTION	
FO	Foul
SW	Surface Water
CO	Combined
OV	Overflow

SEWER SHAPE	
CI	Circular
EG	Egg
OV	Oval
FT	Flat Top
RE	Rectangular
SQ	Square
TR	Trapezoidal
AR	Arch
BA	Barrel
HO	HorseShoe
UN	Unspecified

SEWER MATERIAL			
AC	Asbestos Cement	DI	Ductile Iron
BR	Brick	PVC	Polyvinyl Chloride
PE	Polyethylene	CI	Cast Iron
RP	Reinforced Plastic Matrix	SI	Spun Iron
CO	Concrete	ST	Steel
CSB	Concrete Segment Bolted	VC	Vitrified Clay
CSU	Concrete Segment Unbolted	PP	Polypropylene
CC	Concrete Box Culverted	PF	Pitch Fibre
PSC	Plastic/Steel Composite	MAC	Masonry, Coursed
GRC	Glass Reinforced Concrete	MAR	Masonry, Random
GRP	Glass Reinforced Plastic	U	Unspecified

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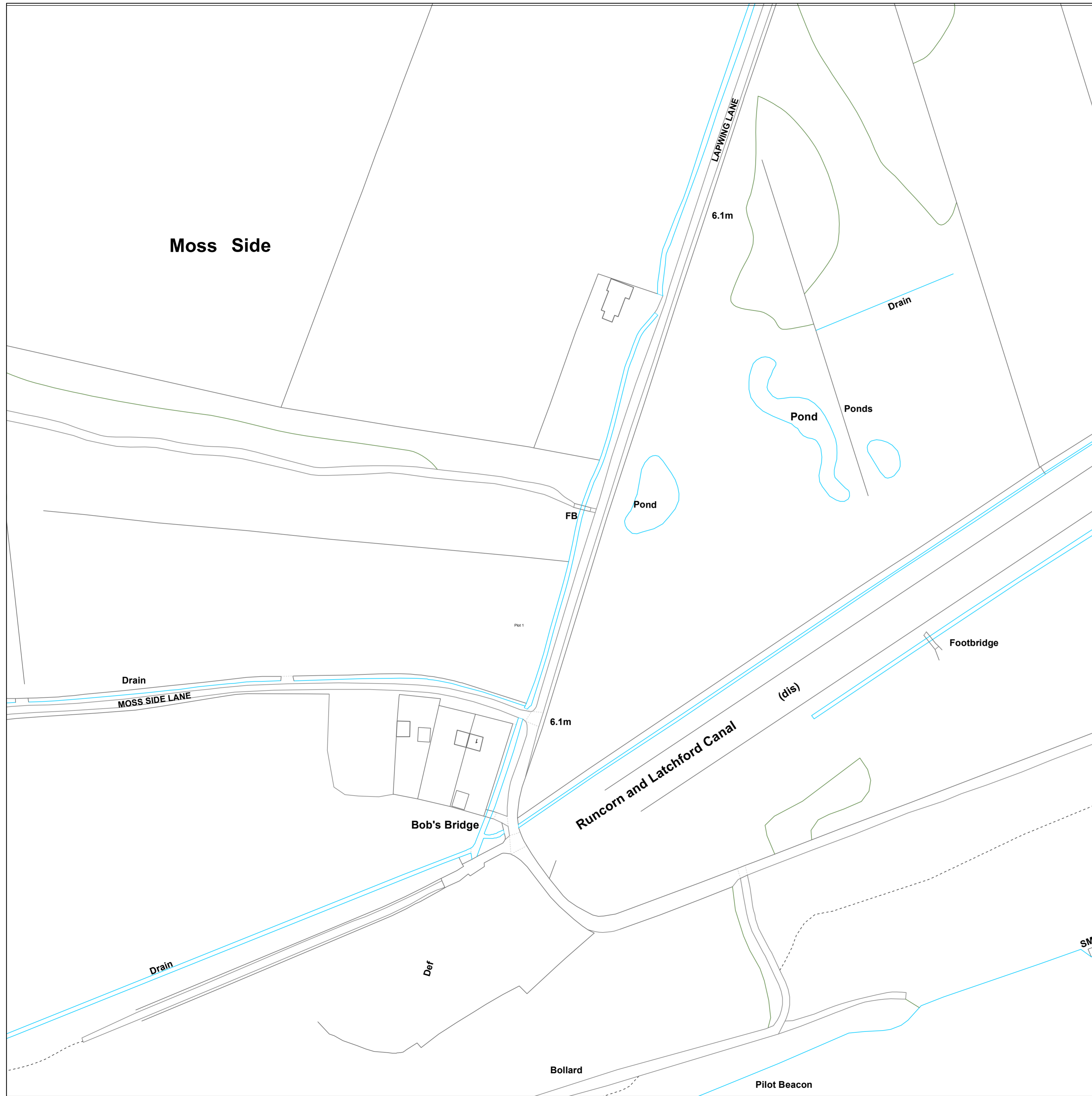
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Sheet 1 of 1



SEWER RECORDS



Refo Cover Func Invert Size x Size y Shape Mat Length Grad

**WASTE WATER SYMOLOGY**

Foul	Surface	Combined	Overflow	Manhole
				Manhole
				Manhole, Side Entry
				MainSewer, Public
				MainSewer, Private
				MainSewer, S104
				Rising Main, Public
				Rising Main, Private
				Rising Main, S104
				Highway Drain, Private

Foul	Surface	Combined	WW Site Termination	Sludge Main, Public
			Air Valve	Sludge Main, Private
			Cascade	Sludge Main, S104
			Non Return Valve	
			Extent of Survey	
			Flow Meter	
			Gully	
			Hatch Box	
			Head of System	
			Hydrobrake / Vortex	
			Inlet	
			Inspection Chamber	
			Bifurcation	
			Catchpit	
			Contaminated Surface Water	
			WW Pumping Station	
			Sludge Pumping Station	
			Sewer Overflow	
			T Junction/Saddle	
			Lamp Hole	
			Oil Interceptor	
			Penstock	
			Pump	
			Rodding Eye	
			Soakaway	
			Summit	
			Valve	
			Valve Chamber	
			Washout Chamber	
			Drop Shaft	
			WW Treatment Works	
			Septic Tank	
			Vent Column	
			Network Storage Tank	
			Orifice Plate	
			Vortex Chamber	
			Penstock Chamber	
			Blind Manhole	
			Screen Chamber	Control Kiosk
			Discharge Point	Unspecified
			Outfall	

**LEGEND**

**MANHOLE FUNCTION**

- FO Foul
- SW Surface Water
- CO Combined
- OV Overflow

**SEWER SHAPE**

- CI Circular
- EG Egg
- OV Oval
- FT Flat Top
- RE Rectangular
- SQ Square
- TR Trapezoidal
- AR Arch
- BA Barrel
- HO HorseShoe
- UN Unspecified

**SEWER MATERIAL**

- AC Asbestos Cement
- BR Brick
- PE Polyethylene
- RP Reinforced Plastic Matrix
- CO Concrete
- CSB Concrete Segment Bolted
- CSU Concrete Segment Unbolted
- CC Concrete Box Culverted
- PSC Plastic/Steel Composite
- GRC Glass Reinforced Concrete
- GRP Glass Reinforced Plastic
- DI Ductile Iron
- PVC Polyvinyl Chloride
- CI Cast Iron
- SI Spun Iron
- ST Steel
- VC Vitrified Clay
- PP Polypropylene
- PF Pitch Fibre
- MAC Masonry, Coursed
- MAR Masonry, Random
- U Unspecified

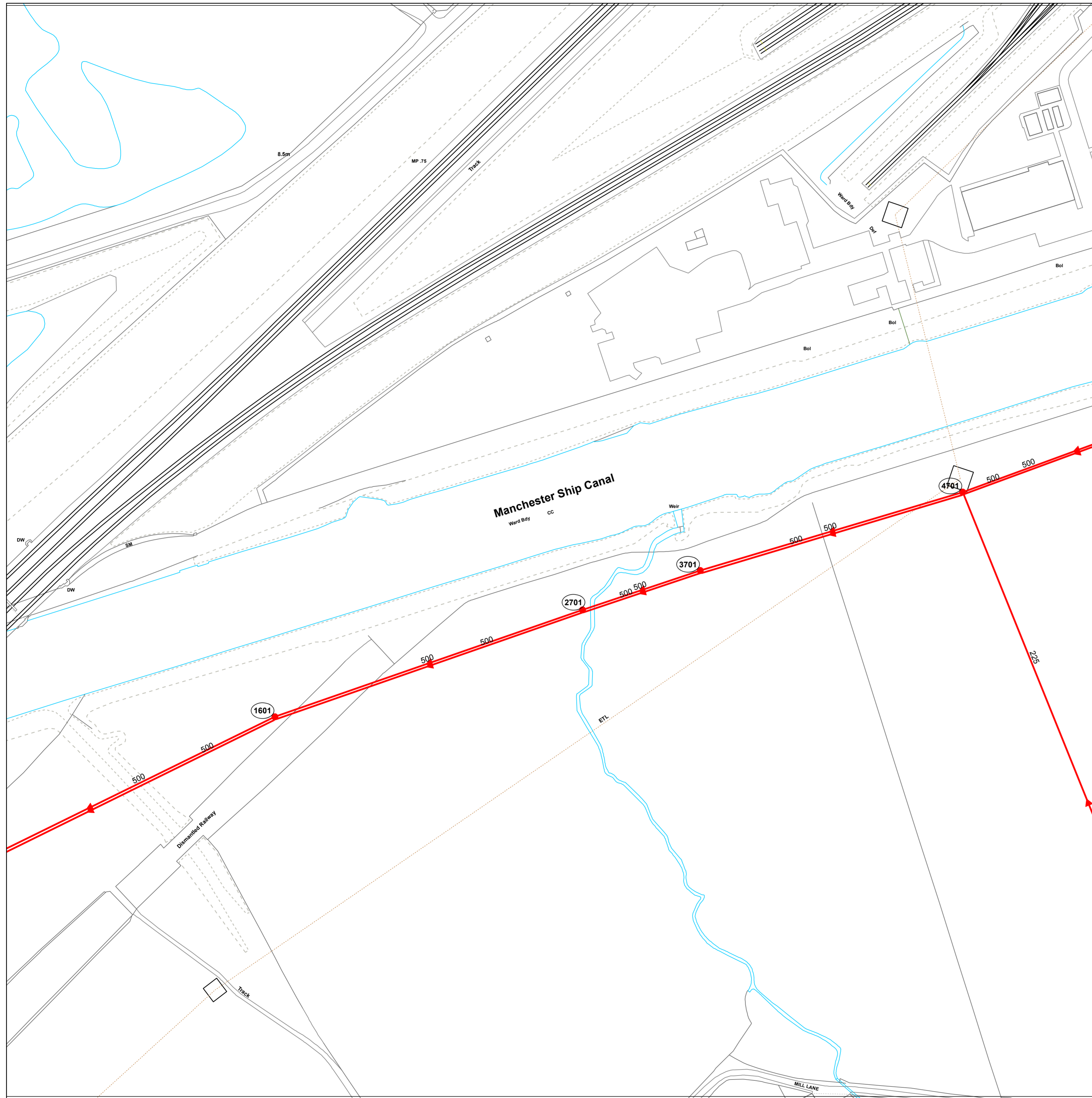
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Refno	Cover	Func	Invert	Size	Size	yShape	Mat	Length	Grad	Refno	Cover	Func	Invert	Size	Size	yShape	Mat	Length	Grad	
1601	CO	CO	0	500	CI	CO	181.54													
2701	CO	CO	0	500	CI	CO	150.74													
3701	CO	CO	0	500	CI	CO	56.92													
4701	CO	CO	0	500	CI	CO	125.48													

### WASTE WATER SYMBOLOGY

### LEGEND

**MANHOLE FUNCTION**

FO	Foul
SW	Surface Water
CO	Combined
OV	Overflow

**SEWER SHAPE**

CI	Circular	TR	Trapezoidal
EG	Egg	AR	Arch
OV	Oval	BA	Barrel
FT	Flat Top	HO	HorseShoe
RE	Rectangular	UN	Unspecified
SQ	Square		

**SEWER MATERIAL**

AC	Asbestos Cement	DI	Ductile Iron
BR	Brick	PVC	Polyvinyl Chloride
PE	Polyethylene	CI	Cast Iron
RP	Reinforced Plastic Matrix	SI	Spun Iron
CO	Concrete	ST	Steel
CSB	Concrete Segment Bolted	VC	Vitrified Clay
CSU	Concrete Segment Unbolted	PP	Polypropylene
CC	Concrete Box Culverted	PF	Pitch Fibre
PSC	Plastic/Steel Composite	MAC	Masonry, Coursed
GRC	Glass Reinforced Concrete	MAR	Masonry, Random
GRP	Glass Reinforced Plastic	U	Unspecified

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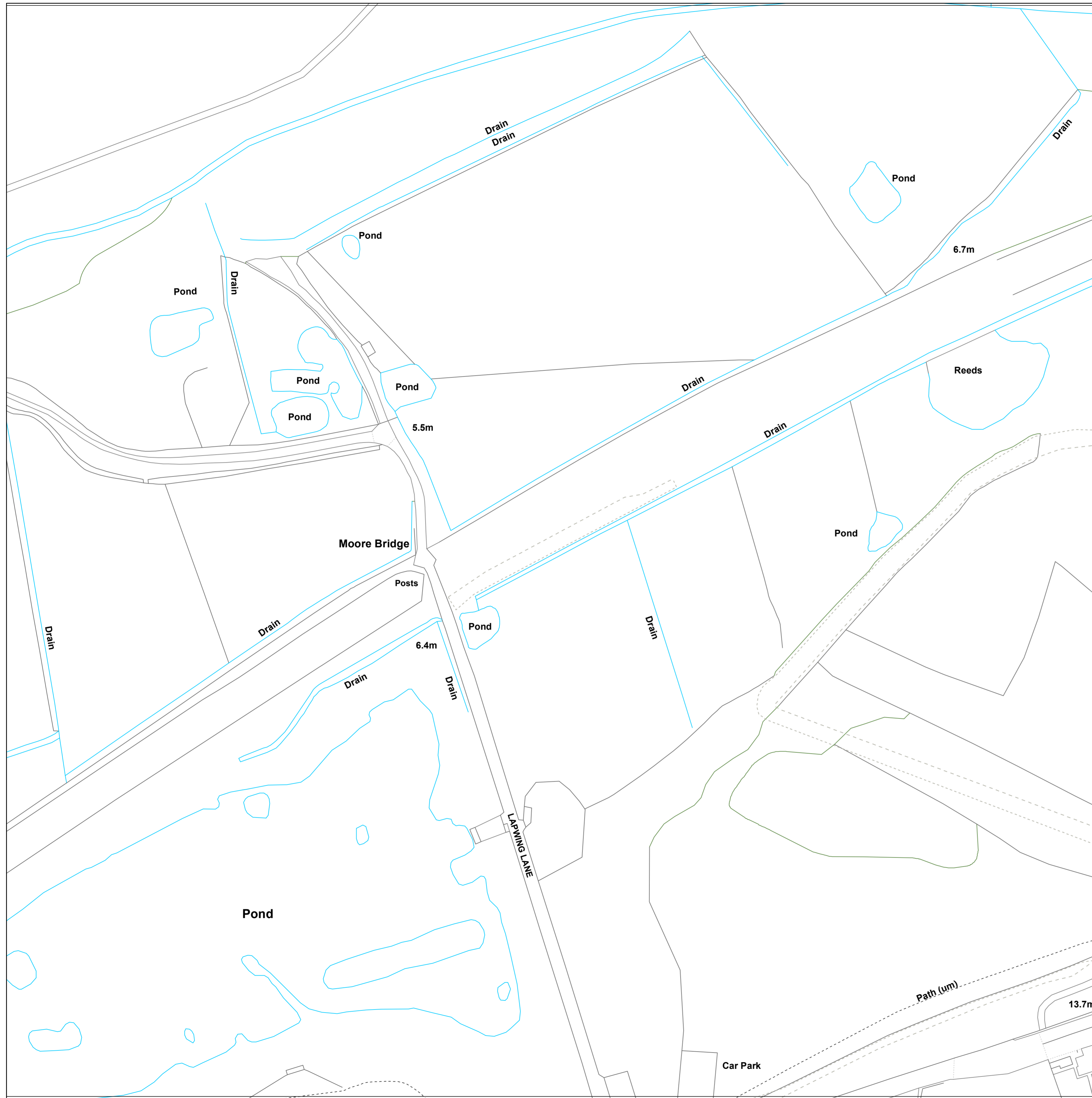
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OS Sheet No: SJ5985NW  
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Reho Cover Func Invert Size x Size y Shape Mat Length Grad Reho Cover Func Invert Size x Size y Shape Mat Length Grad

**WASTE WATER SYMOLOGY**

Foul	Surface	Combined	Overflow	Manhole
[Symbol]	[Symbol]	[Symbol]	[Symbol]	Manhole, Side Entry
[Symbol]	[Symbol]	[Symbol]	[Symbol]	MainSewer, Public
[Symbol]	[Symbol]	[Symbol]	[Symbol]	MainSewer, Private
[Symbol]	[Symbol]	[Symbol]	[Symbol]	MainSewer, S104
[Symbol]	[Symbol]	[Symbol]	[Symbol]	Rising Main, Public
[Symbol]	[Symbol]	[Symbol]	[Symbol]	Rising Main, Private
[Symbol]	[Symbol]	[Symbol]	[Symbol]	Rising Main, S104
[Symbol]	[Symbol]	[Symbol]	[Symbol]	Highway Drain, Private

Foul	Surface	Combined	Overflow	Manhole
[Symbol]	[Symbol]	[Symbol]	[Symbol]	WW Site Termination
[Symbol]	[Symbol]	[Symbol]	[Symbol]	Air Valve
[Symbol]	[Symbol]	[Symbol]	[Symbol]	Cascade
[Symbol]	[Symbol]	[Symbol]	[Symbol]	Non Return Valve
[Symbol]	[Symbol]	[Symbol]	[Symbol]	Extent of Survey
[Symbol]	[Symbol]	[Symbol]	[Symbol]	Flow Meter
[Symbol]	[Symbol]	[Symbol]	[Symbol]	Gulley
[Symbol]	[Symbol]	[Symbol]	[Symbol]	Hatch Box
[Symbol]	[Symbol]	[Symbol]	[Symbol]	Head of System
[Symbol]	[Symbol]	[Symbol]	[Symbol]	Hydrobrake / Vortex
[Symbol]	[Symbol]	[Symbol]	[Symbol]	Inlet
[Symbol]	[Symbol]	[Symbol]	[Symbol]	Inspection Chamber
[Symbol]	[Symbol]	[Symbol]	[Symbol]	Bifurcation
[Symbol]	[Symbol]	[Symbol]	[Symbol]	Catchpit
[Symbol]	[Symbol]	[Symbol]	[Symbol]	Contaminated Surface Water
[Symbol]	[Symbol]	[Symbol]	[Symbol]	WW Pumping Station
[Symbol]	[Symbol]	[Symbol]	[Symbol]	Sludge Pumping Station
[Symbol]	[Symbol]	[Symbol]	[Symbol]	Sewer Overflow
[Symbol]	[Symbol]	[Symbol]	[Symbol]	T Junction/Saddle
[Symbol]	[Symbol]	[Symbol]	[Symbol]	LampHole
[Symbol]	[Symbol]	[Symbol]	[Symbol]	Oil Interceptor
[Symbol]	[Symbol]	[Symbol]	[Symbol]	PenStock
[Symbol]	[Symbol]	[Symbol]	[Symbol]	Pump
[Symbol]	[Symbol]	[Symbol]	[Symbol]	RoddingEye
[Symbol]	[Symbol]	[Symbol]	[Symbol]	Soakaway
[Symbol]	[Symbol]	[Symbol]	[Symbol]	Summit
[Symbol]	[Symbol]	[Symbol]	[Symbol]	Valve
[Symbol]	[Symbol]	[Symbol]	[Symbol]	Valve Chamber
[Symbol]	[Symbol]	[Symbol]	[Symbol]	Washout Chamber
[Symbol]	[Symbol]	[Symbol]	[Symbol]	DropShaft
[Symbol]	[Symbol]	[Symbol]	[Symbol]	WW Treatment Works
[Symbol]	[Symbol]	[Symbol]	[Symbol]	Septic Tank
[Symbol]	[Symbol]	[Symbol]	[Symbol]	Vent Column
[Symbol]	[Symbol]	[Symbol]	[Symbol]	Network Storage Tank
[Symbol]	[Symbol]	[Symbol]	[Symbol]	Orifice Plate
[Symbol]	[Symbol]	[Symbol]	[Symbol]	Vortex Chamber
[Symbol]	[Symbol]	[Symbol]	[Symbol]	Penstock Chamber
[Symbol]	[Symbol]	[Symbol]	[Symbol]	Blind Manhole
[Symbol]	[Symbol]	[Symbol]	[Symbol]	Screen Chamber
[Symbol]	[Symbol]	[Symbol]	[Symbol]	Discharge Point
[Symbol]	[Symbol]	[Symbol]	[Symbol]	Outfall
[Symbol]	[Symbol]	[Symbol]	[Symbol]	Control Kiosk
[Symbol]	[Symbol]	[Symbol]	[Symbol]	Unspecified

**LEGEND**

**MANHOLE FUNCTION**

FO	Foul
SW	Surface Water
CO	Combined
OV	Overflow

**SEWER SHAPE**

CI	Circular	TR	Trapezoidal
EG	Egg	AR	Arch
OV	Oval	BA	Barrel
FT	Flat Top	HO	HorseShoe
RE	Rectangular	UN	Unspecified
SQ	Square		

**SEWER MATERIAL**

AC	Asbestos Cement	DI	Ductile Iron
BR	Brick	PVC	Polyvinyl Chloride
PE	Polyethylene	CI	Cast Iron
RP	Reinforced Plastic Matrix	SI	Spun Iron
CO	Concrete	ST	Steel
CSB	Concrete Segment Bolted	VC	Vitrified Clay
CSU	Concrete Segment Unbolted	PP	Polypropylene
CC	Concrete Box Culverted	PF	Pitch Fibre
PSC	Plastic/Steel Composite	MAC	Masonry, Coursed
GRC	Glass Reinforced Concrete	MAR	Masonry, Random
GRP	Glass Reinforced Plastic	U	Unspecified

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Reho	Cover	Func	Invert	Size	xSize	yShape	Mat	Length	Grad

### WASTE WATER SYMBOLOGY

Foul	Surface	Combined	Overflow	Manhole
				Manhole
				MainSewer, Side Entry
				MainSewer, Public
				MainSewer, Private
				MainSewer, S104
				Rising Main, Public
				Rising Main, Private
				Rising Main, S104
				Highway Drain, Private

Foul	Surface	Combined	Manhole
			WW Site Termination
			Air Valve
			Cascade
			Non Return Valve
			Extent of Survey
			Flow Meter
			Gully
			Hatch Box
			Head of System
			Hydrobrake / Vortex
			Inlet
			Inspection Chamber
			Bifurcation
			Catchpit
			Contaminated Surface Water
			WW Pumping Station
			Sludge Pumping Station
			Sewer Overflow
			T Junction/Saddle
			LampHole
			OilInterceptor
			PenStock
			Pump
			RoddingEye
			Soakaway
			Summit
			Valve
			Valve Chamber
			Washout Chamber
			DropShaft
			WW Treatment Works
			Septic Tank
			Vent Column
			Network Storage Tank
			Orifice Plate
			Vortex Chamber
			Penstock Chamber
			Blind Manhole
			Screen Chamber
			Discharge Point
			Outfall

### ABANDONED PIPE

	MainSewer
	Rising Main
	Highway Drain
	Sludge Main

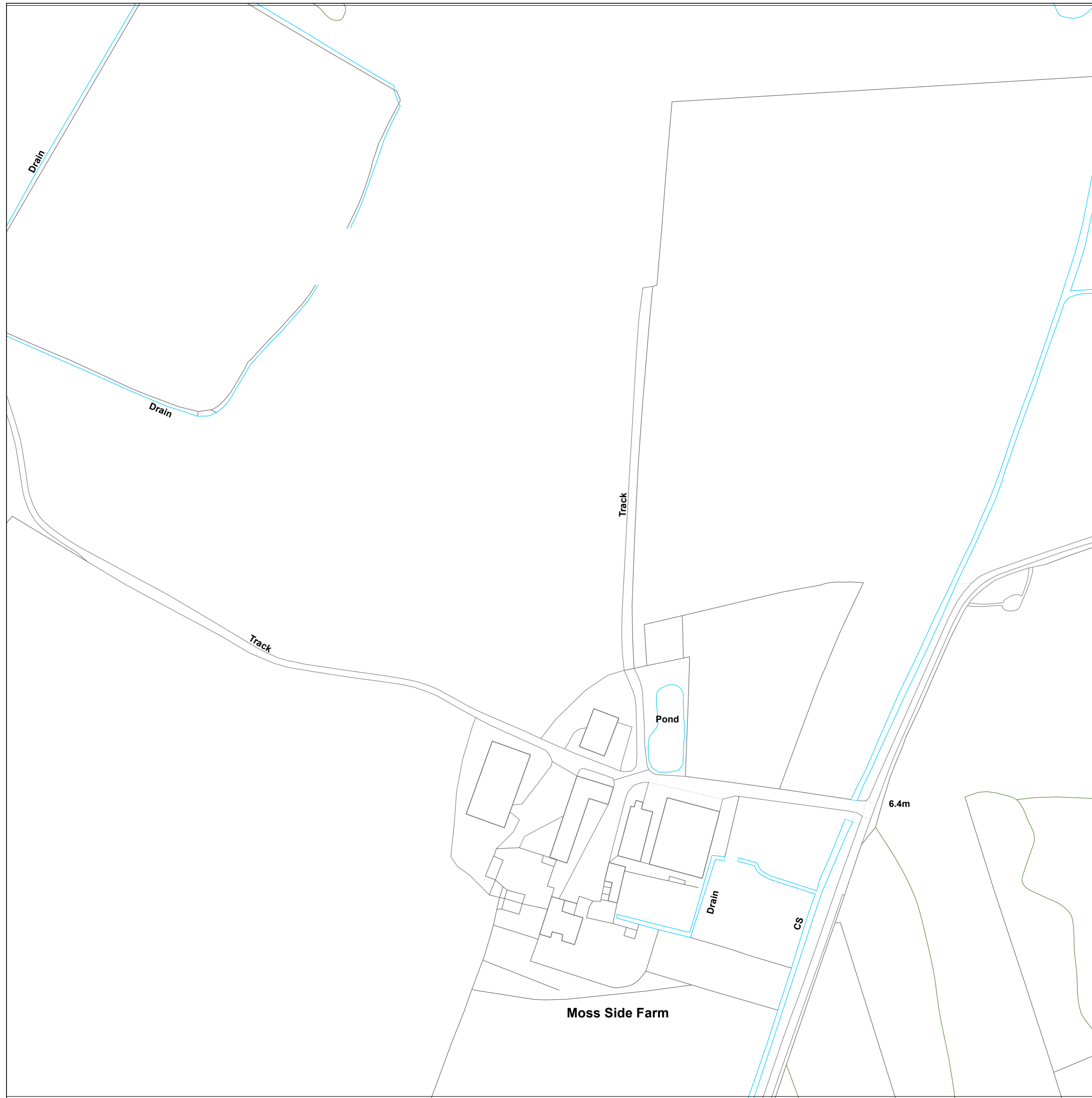
### LEGEND

MANHOLE FUNCTION	SEWER SHAPE	SEWER MATERIAL
FO Foul	CI Circular	AC Asbestos Cement
SW Surface Water	EG Egg	BR Brick
CO Combined	OV Oval	PE Polyethylene
OV Overflow	FT Flat Top	RP Reinforced Plastic Matrix
	RE Rectangular	CO Concrete
	SQ Square	CSB Concrete Segment Bolted
		CSU Concrete Segment Unbolted
		CC Concrete Box Culverted
		PSC Plastic/Steel Composite
		GRC Glass Reinforced Concrete
		GRP Glass Reinforced Plastic
	TR Trapezoidal	DI Ductile Iron
	AR Arch	PVC Polyvinyl Chloride
	BA Barrel	CI Cast Iron
	HO HorseShoe	SI Spun Iron
	UN Unspecified	ST Steel
		VC Vitrified Clay
		PP Polypropylene
		PF Pitch Fibre
		MAC Masonry, Coursed
		MAR Masonry, Random
		U Unspecified

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Reho	Cover	Func	Invert	Size	Size	yShape	Mat	Length	Grad	Reho	Cover	Func	Invert	Size	Size	yShape	Mat	Length	Grad
------	-------	------	--------	------	------	--------	-----	--------	------	------	-------	------	--------	------	------	--------	-----	--------	------

### WASTE WATER SYMBOLOLOGY

					Manhole
					Rising Main, Public
					Rising Main, S104
					Highway Drain, Private

					WW Site Termination
					Air Valve
					Cascade
					Non Return Valve
					Extent of Survey
					Flow Meter
					Gully
					Hatch Box
					Head of System

### LEGEND

**MANHOLE FUNCTION**

FO	Foul
SW	Surface Water
CO	Combined
OV	Overflow

**SEWER SHAPE**

CI	Circular	TR	Trapezoidal
EG	Egg	AR	Arch
OV	Oval	BA	Barrel
FT	Flat Top	HO	HorseShoe
RE	Rectangular	UN	Unspecified
SQ	Square		

**SEWER MATERIAL**

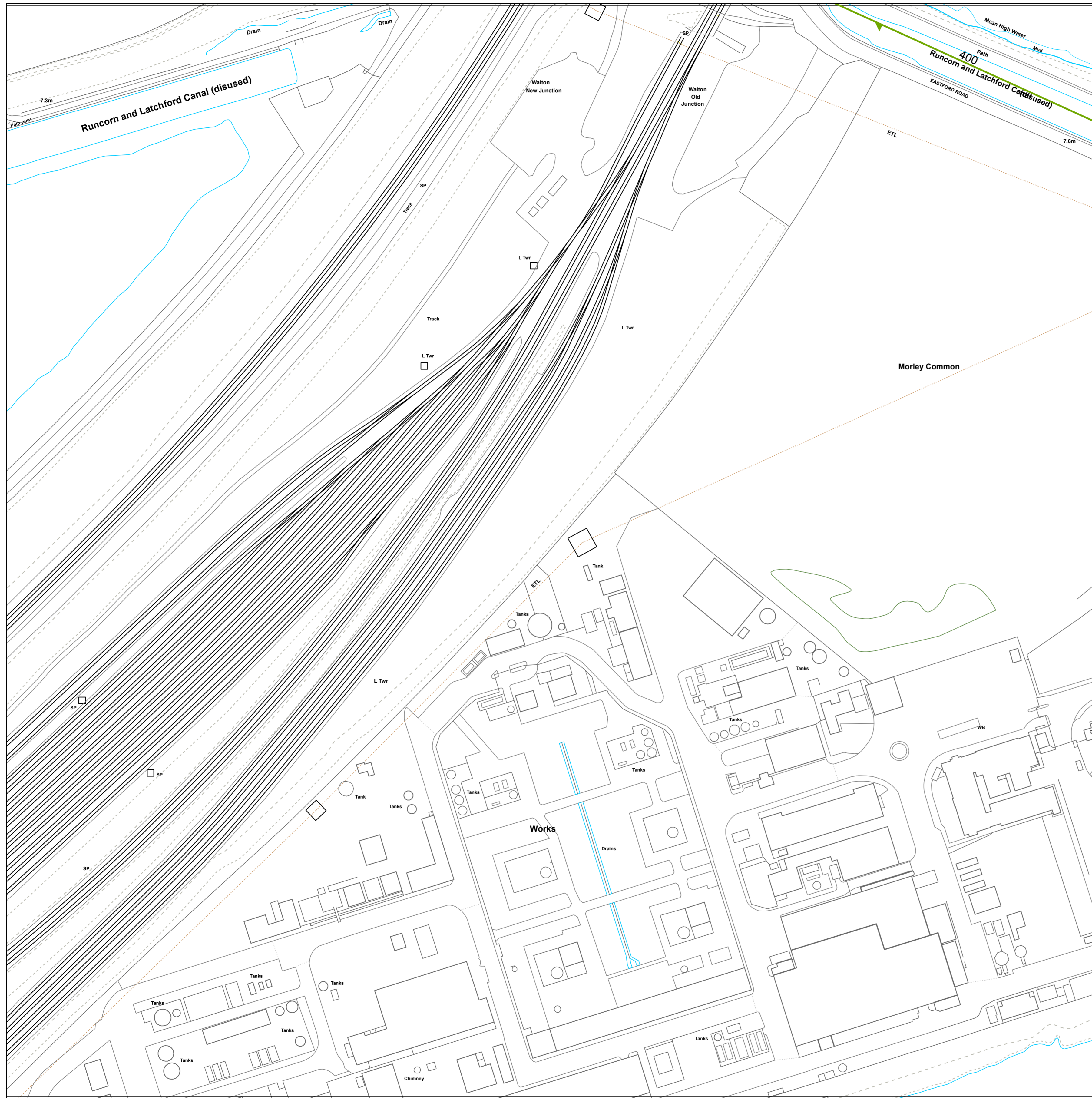
AC	Asbestos Cement	DI	Ductile Iron
BR	Brick	PVC	Polyvinyl Chloride
PE	Polyethylene	CI	Cast Iron
RP	Reinforced Plastic Matrix	SI	Spun Iron
CO	Concrete	ST	Steel
CSB	Concrete Segment Bolted	VC	Vitrified Clay
CSU	Concrete Segment Unbolted	PP	Polypropylene
CC	Concrete Box Culvert	PF	Pitch Fibre
PSC	Plastic/Steel Composite	MAC	Masonry, Coursed
GRC	Glass Reinforced Concrete	MAR	Masonry, Random
GRP	Glass Reinforced Plastic	U	Unspecified

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Refo	Cover	Func	Invert	Size	x	y	Shape	Mat	Length	Grad

### WASTE WATER SYMBOLOGY

Foul	Surface	Combined	Overflow	Manhole
				Manhole
				Manhole, Side Entry
				MainSewer, Public
				MainSewer, Private
				Rising Main, S104
				Rising Main, Public
				Rising Main, Private
				Rising Main, S104
				Highway Drain, Private

Foul	Surface	Combined	Function	Material
			WW Site Termination	Sludge Main, Public
			Air Valve	Sludge Main, Private
			Cascade	Sludge Main, S104
			Non Return Valve	
			Flow Meter	
			Gulley	
			Hatch Box	
			Head of System	
			Hydrobrake / Vortex	
			Inlet	
			Inspection Chamber	
			Bifurcation	
			Catchpit	
			Contaminated Surface Water	
			WW Pumping Station	
			Sludge Pumping Station	
			Sewer Overflow	
			T Junction/Saddle	
			LampHole	
			Oil Interceptor	
			PenStock	
			Pump	
			RoddingEye	
			Soakaway	
			Summit	
			Valve	
			Valve Chamber	
			Washout Chamber	
			DropShaft	
			WW Treatment Works	
			Septic Tank	
			Vent Column	
			Network Storage Tank	
			Orifice Plate	
			Vortex Chamber	
			Penstock Chamber	
			Blind Manhole	
			Screen Chamber	Control Kiosk
			Discharge Point	Unspecified
			Outfall	

### LEGEND

MANHOLE FUNCTION	SEWER SHAPE	SEWER MATERIAL
FO Foul	CI Circular	AC Asbestos Cement
SW Surface Water	EG Egg	BR Brick
CO Combined	OV Oval	PE Polyethylene
OV Overflow	FT Flat Top	RP Reinforced Plastic Matrix
	RE Rectangular	CO Concrete
	SQ Square	CSB Concrete Segment Bolted
		CSU Concrete Segment Unbolted
		CC Concrete Box Culverted
		PSC Plastic/Steel Composite
		GRC Glass Reinforced Concrete
		GRP Glass Reinforced Plastic
	TR Trapezoidal	DI Ductile Iron
	AR Arch	PVC Polyvinyl Chloride
	BA Barrel	CI Cast Iron
	HO HorseShoe	SI Spun Iron
	UN Unspecified	ST Steel
		VC Vitrified Clay
		PP Polypropylene
		PF Pitch Fibre
		MAC Masonry, Coursed
		MAR Masonry, Random
		U Unspecified

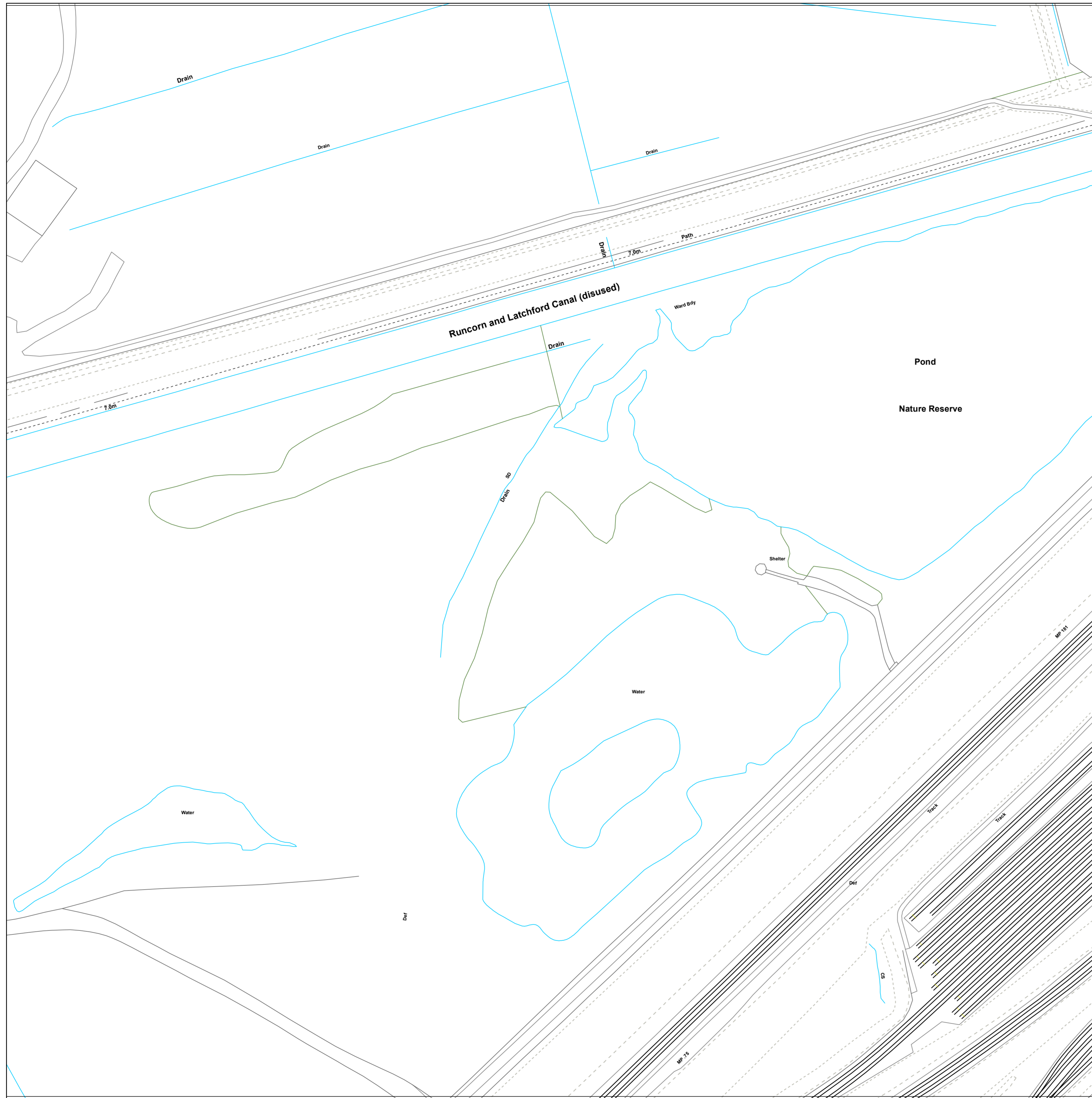
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Refo Cover Func Invert Size x Size y Shape Mat Length Grad

**WASTE WATER SYMBOLOGY**

Foul	Surface	Combined	Overflow	Manhole
				Manhole
				Main Sewer, Side Entry
				Main Sewer, Public
				Main Sewer, Private
				Main Sewer, S104
				Rising Main, Public
				Rising Main, Private
				Rising Main, S104
				Highway Drain, Private

Foul	Surface	Combined	Manhole
			WWT Site Termination
			Air Valve
			Cascade
			Non Return Valve
			Extent of Survey
			Flow Meter
			Gully
			Hatch Box
			Head of System
			Hydrobrake / Vortex
			Inlet
			Inspection Chamber
			Bifurcation
			Catchpit
			Contaminated Surface Water
			WWT Pumping Station
			Sludge Pumping Station
			Sewer Overflow
			T Junction/Saddle
			Lamp Hole
			Oil Interceptor
			Pen Stock
			Pump
			Rodding Eye
			Soakaway
			Summit
			Valve
			Valve Chamber
			Washout Chamber
			Drop Shaft
			WWT Treatment Works
			Septic Tank
			Vent Column
			Network Storage Tank
			Orifice Plate
			Vortex Chamber
			Penstock Chamber
			Blind Manhole
			Screen Chamber
			Discharge Point
			Outfall

**ABANDONED PIPE**

	Main Sewer
	Rising Main
	Highway Drain
	Sludge Main

**LEGEND**

**MANHOLE FUNCTION**

FO	Foul
SW	Surface Water
CO	Combined
OV	Overflow

**SEWER SHAPE**

CI	Circular	TR	Trapezoidal
EG	Egg	AR	Arch
OV	Oval	BA	Barrel
FT	Flat Top	HO	HorseShoe
RE	Rectangular	UN	Unspecified
SQ	Square		

**SEWER MATERIAL**

AC	Asbestos Cement	DI	Ductile Iron
BR	Brick	PVC	Polyvinyl Chloride
PE	Polyethylene	CI	Cast Iron
RP	Reinforced Plastic Matrix	SI	Spun Iron
CO	Concrete	ST	Steel
CSB	Concrete Segment Bolted	VC	Vitrified Clay
CSU	Concrete Segment Unbolted	PP	Polypropylene
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PSC	Plastic/Steel Composite	MAC	Masonry, Coursed
GRC	Glass Reinforced Concrete	MAR	Masonry, Random
GRP	Glass Reinforced Plastic	U	Unspecified

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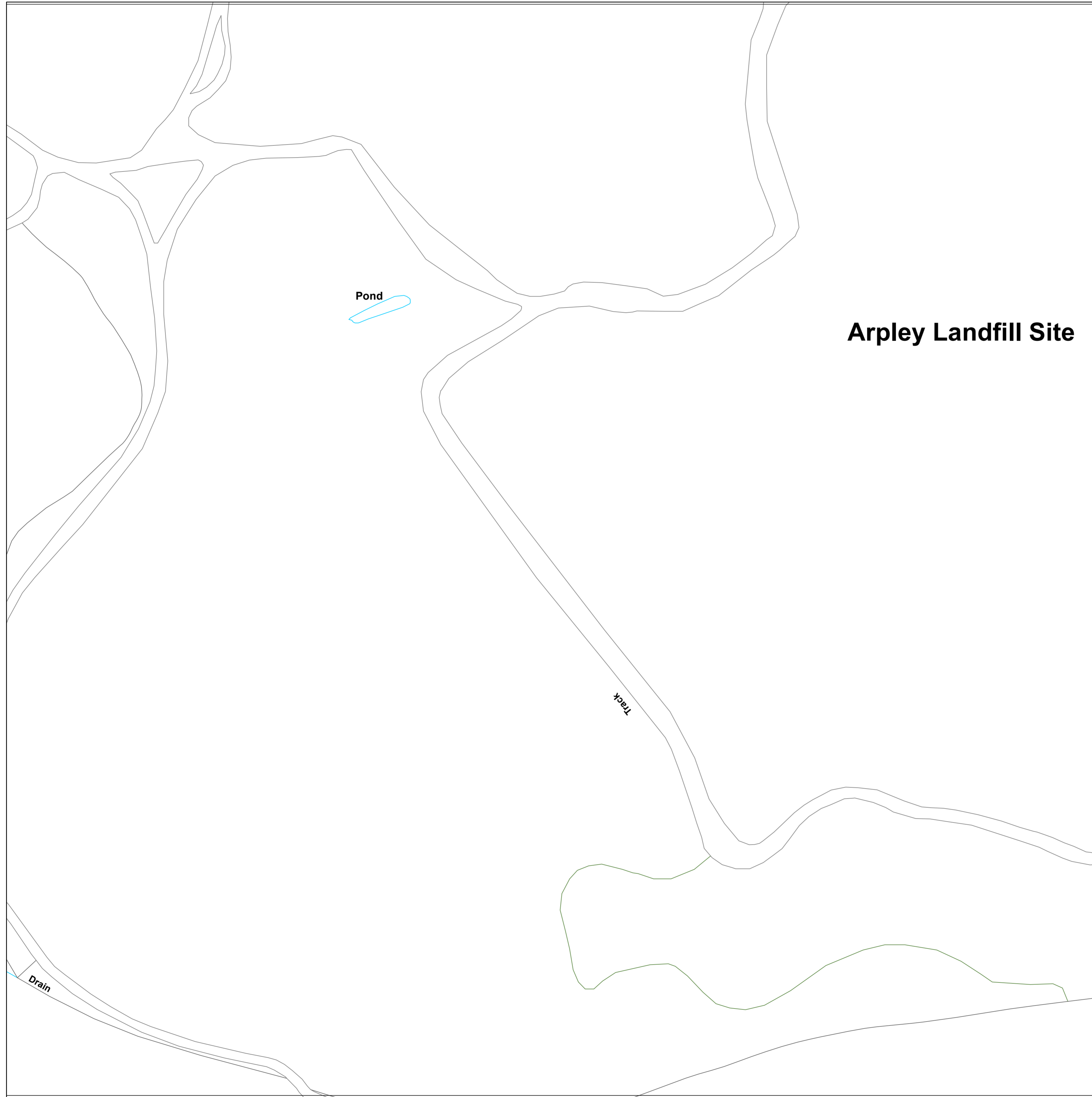
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# Arpley Landfill Site

WASTE WATER SYMBOLOGY			
Foul	Surface	Combined	Overflow

LEGEND			
<b>MANHOLE FUNCTION</b>			
FO	Foul		
SW	Surface Water		
CO	Combined		
OV	Overflow		
<b>SEWER SHAPE</b>			
CI	Circular	TR	Trapezoidal
EG	Egg	AR	Arch
OV	Oval	BA	Barrel
FT	Flat Top	HO	HorseShoe
RE	Rectangular	UN	Unspecified
SQ	Square		
<b>SEWER MATERIAL</b>			
AC	Asbestos Cement	DI	Ductile Iron
BR	Brick	PVC	Polyvinyl Chloride
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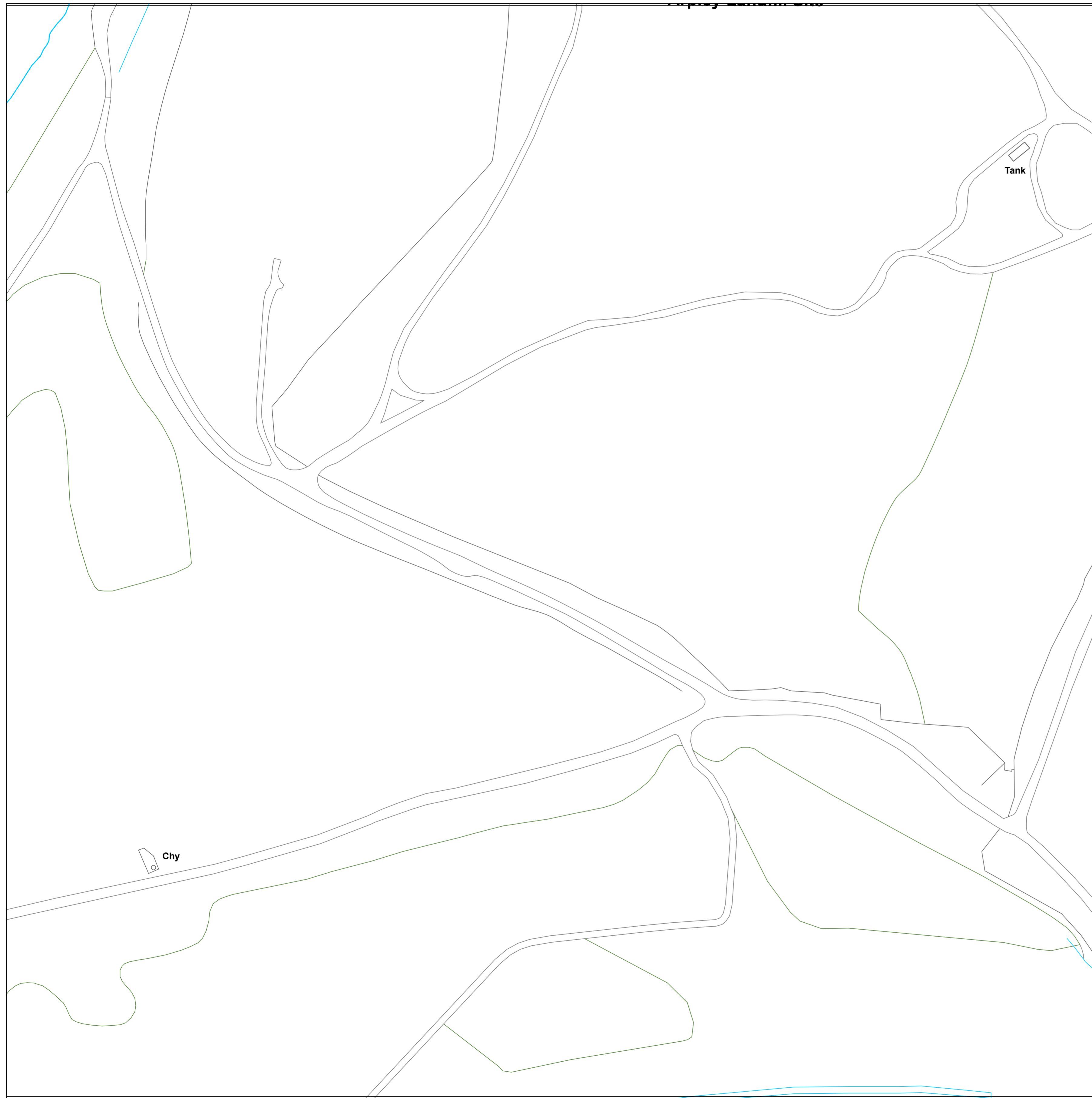
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Reho Cover Func Invert Size x Size y Shape Mat Length Grad Reho Cover Func Invert Size x Size y Shape Mat Length Grad

WASTE WATER SYMBOLOGY			
Foul	Surface	Combined	Overflow

LEGEND			
<b>MANHOLE FUNCTION</b>			
FO	Foul		
SW	Surface Water		
CO	Combined		
OV	Overflow		
<b>SEWER SHAPE</b>			
CI	Circular	TR	Trapezoidal
EG	Egg	AR	Arch
OV	Oval	BA	Barrel
FT	Flat Top	HO	HorseShoe
RE	Rectangular	UN	Unspecified
SQ	Square		
<b>SEWER MATERIAL</b>			
AC	Asbestos Cement	DI	Ductile Iron
BR	Brick	PVC	Polyvinyl Chloride
PE	Polyethylene	CI	Cast Iron
RP	Reinforced Plastic Matrix	SI	Spun Iron
CO	Concrete	ST	Steel
CSB	Concrete Segment Bolted	VC	Vitrified Clay
CSU	Concrete Segment Unbolted	PP	Polypropylene
CC	Concrete Box Culverted	PF	Pitch Fibre
PSC	Plastic/Steel Composite	MAC	Masonry, Coursed
GRC	Glass Reinforced Concrete	MAR	Masonry, Random
GRP	Glass Reinforced Plastic	U	Unspecified

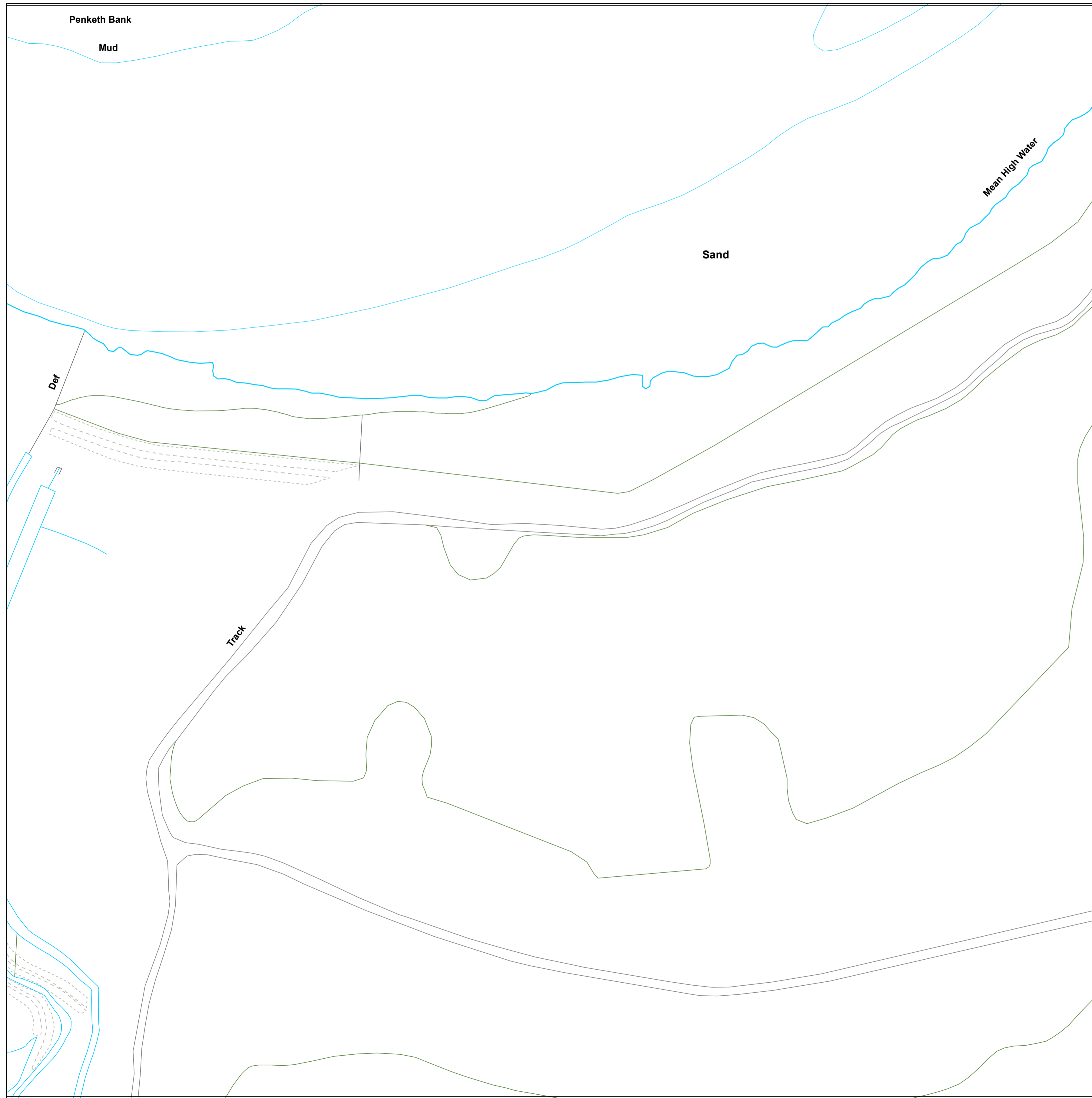
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Reho Cover Func Invert Size x Size y Shape Mat Length Grad Reho Cover Func Invert Size x Size y Shape Mat Length Grad

**WASTE WATER SYMBOLOGY**

Foul	Surface	Combined	Overflow	Manhole
				Manhole, Side Entry
				MainSewer, Public
				MainSewer, Private
				MainSewer, S104
				Rising Main, Public
				Rising Main, Private
				Rising Main, S104
				Highway Drain, Private

	WW Site Termination		Sludge Main, Public
	Air Valve		Sludge Main, Private
	Cascade		Sludge Main, S104
	Non Return Valve		ABANDONED PIPE
	Extent of Survey		MainSewer
	Flow Meter		Rising Main
	Gully		Highway Drain
	Hatch Box		Sludge Main
	Head of System		
	Hydrobrake / Vortex		
	Inlet		
	Inspection Chamber		
	Bifurcation		
	Catchpit		
	Contaminated Surface Water		
	WW Pumping Station		
	Sludge Pumping Station		
	Sewer Overflow		
	T Junction/Saddle		
	LampHole		
	Oil Interceptor		
	PenStock		
	Pump		
	RoddingEye		
	Soakaway		
	Summit		
	Valve		
	Valve Chamber		
	Washout Chamber		
	DropShaft		
	WW Treatment Works		
	Septic Tank		
	Vent Column		
	Network Storage Tank		
	Orifice Plate		
	Vortex Chamber		
	Penstock Chamber		
	Blind Manhole		
	Screen Chamber		Control Kiosk
	Discharge Point		Unspecified
	Outfall		

**LEGEND**

**MANHOLE FUNCTION**

FO	Foul
SW	Surface Water
CO	Combined
OV	Overflow

**SEWER SHAPE**

CI	Circular	TR	Trapezoidal
EG	Egg	AR	Arch
OV	Oval	BA	Barrel
FT	Flat Top	HO	HorseShoe
RE	Rectangular	UN	Unspecified
SQ	Square		

**SEWER MATERIAL**

AC	Asbestos Cement	DI	Ductile Iron
BR	Brick	PVC	Polyvinyl Chloride
PE	Polyethylene	CI	Cast Iron
RP	Reinforced Plastic Matrix	SI	Spun Iron
CO	Concrete	ST	Steel
CSB	Concrete Segment Bolted	VC	Vitrified Clay
CSU	Concrete Segment Unbolted	PP	Polypropylene
CC	Concrete Box Culverted	PF	Pitch Fibre
PSC	Plastic/Steel Composite	MAC	Masonry, Coursed
GRC	Glass Reinforced Concrete	MAR	Masonry, Random
GRP	Glass Reinforced Plastic	U	Unspecified

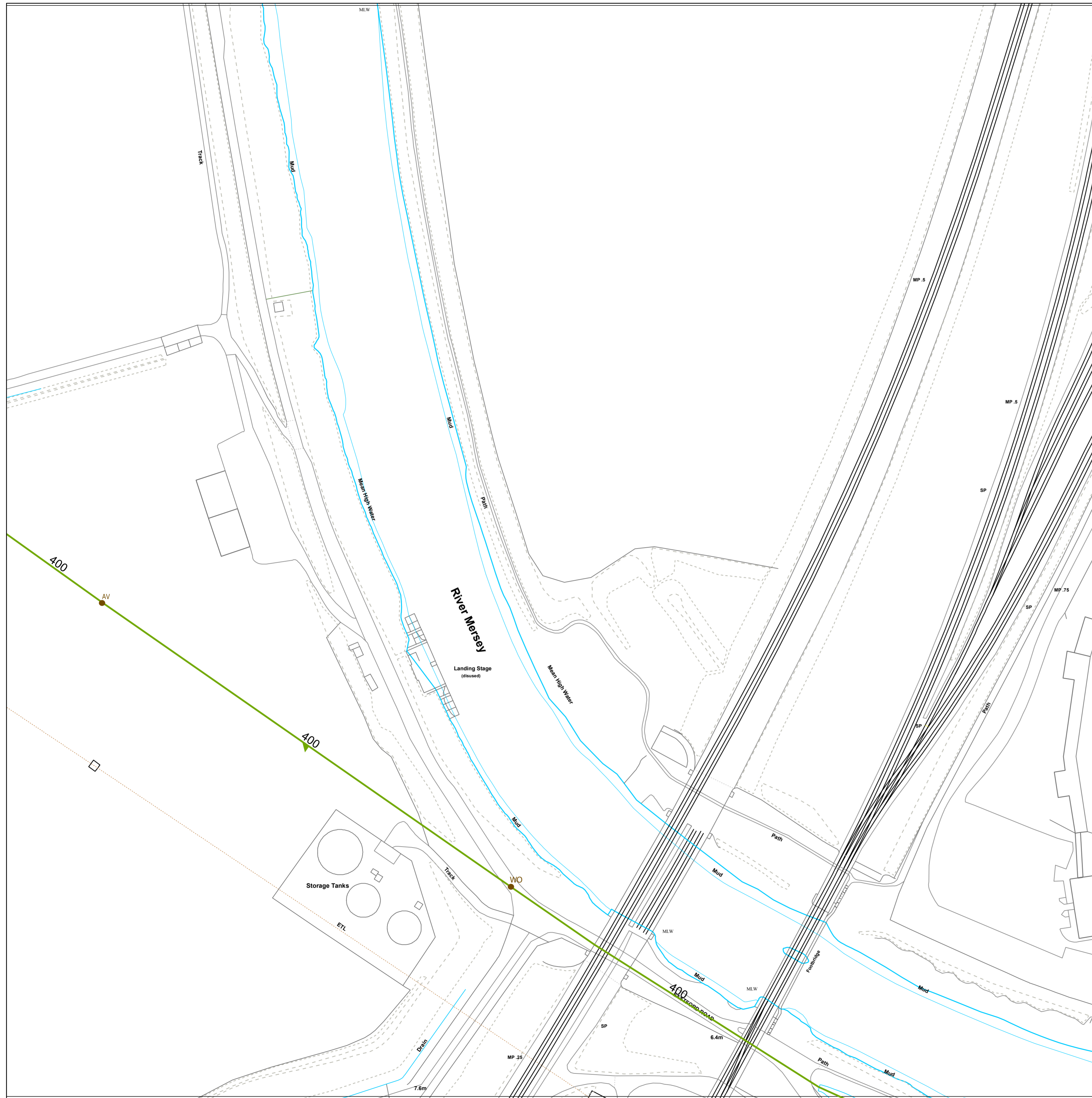
The position of the underground apparatus shown on this plan is approximate only and is given in accordance with the best information currently available. United Utilities Water will not accept liability for any loss or damage caused by the actual position being different from those shown. Crown copyright and database rights [2016] Ordnance Survey 100022432.

OS Sheet No: SJ5786SW  
 Scale: 1:1250 Date: 22/03/2018  
 0 Nodes  
 Sheet 1 of 1

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OS Sheet No: SJ5786SW  
 Scale: 1:1250 Date: 22/03/2018





### WASTE WATER SYMBOLOGY

Foul	Surface	Combined	Overflow	Manhole
				Manhole
				MainSewer, Side Entry
				MainSewer, Public
				MainSewer, Private
				MainSewer, S104
				Rising Main, Public
				Rising Main, Private
				Rising Main, S104
				Highway Drain, Private

Foul	Surface	Combined	Overflow

### LEGEND

**MANHOLE FUNCTION**

FO	Foul
SW	Surface Water
CO	Combined
OV	Overflow

**SEWER SHAPE**

CI	Circular	TR	Trapezoidal
EG	Egg	AR	Arch
OV	Oval	BA	Barrel
FT	Flat Top	HO	HorseShoe
RE	Rectangular	UN	Unspecified
SQ	Square		

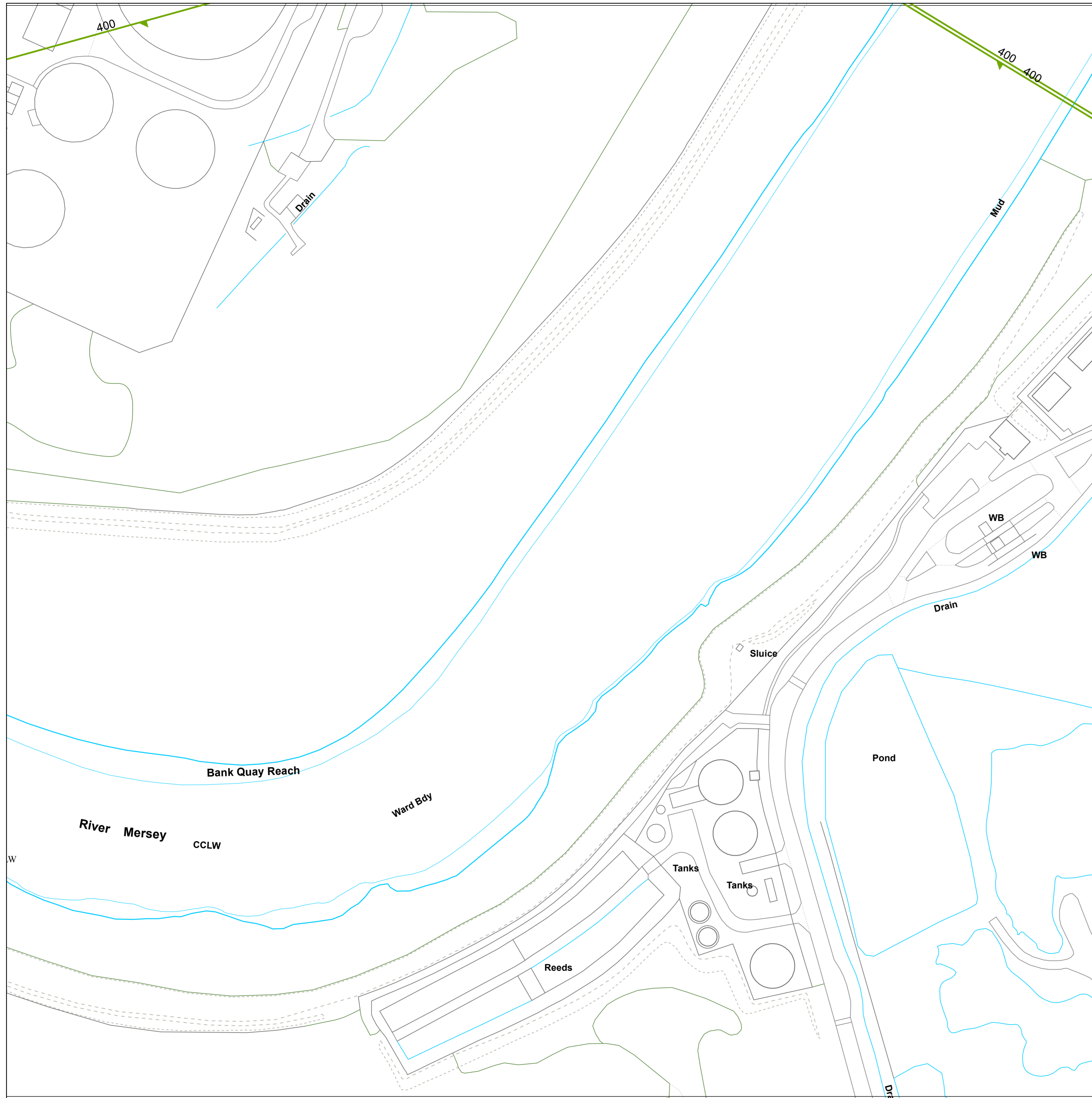
**SEWER MATERIAL**

AC	Asbestos Cement	DI	Ductile Iron
BR	Brick	PVC	Polyvinyl Chloride
PE	Polyethylene	CI	Cast Iron
RP	Reinforced Plastic Matrix	SI	Spun Iron
CO	Concrete	ST	Steel
CSB	Concrete Segment Bolted	VC	Vitrified Clay
CSU	Concrete Segment Unbolted	PP	Polypropylene
CC	Concrete Box Culverted	PF	Pitch Fibre
PSC	Plastic/Steel Composite	MAC	Masonry, Coursed
GRC	Glass Reinforced Concrete	MAR	Masonry, Random
GRP	Glass Reinforced Plastic	U	Unspecified

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Reho	Cover	Func	Invert	Size	Shape	Mat	Length	Grad	Reho	Cover	Func	Invert	Size	Shape	Mat	Length	Grad
------	-------	------	--------	------	-------	-----	--------	------	------	-------	------	--------	------	-------	-----	--------	------

### WASTE WATER SYMBOLOGY

Foul	Surface	Combined	Overflow	Manhole
				Manhole
				Manhole, Side Entry
				MainSewer, Public
				MainSewer, Private
				MainSewer, S104
				Rising Main, Public
				Rising Main, Private
				Rising Main, S104
				Highway Drain, Private

	WW Site Termination		Sludge Main, Public
	Air Valve		Sludge Main, Private
	Cascade		Sludge Main, S104
	Non Return Valve		
	Extent of Survey		
	Flow Meter		
	Gully		
	Hatch Box		
	Head of System		
	Hydrobrake / Vortex		
	Inlet		
	Inspection Chamber		
	Bifurcation		
	Catchpit		
	Contaminated Surface Water		
	WW Pumping Station		
	Sludge Pumping Station		
	Sewer Overflow		
	T Junction/Saddle		
	LampHole		
	Oil Interceptor		
	PenStock		
	Pump		
	RoddingEye		
	Soakaway		
	Summit		
	Valve		
	Valve Chamber		
	Washout Chamber		
	DropShaft		
	WW Treatment Works		
	Septic Tank		
	Vent Column		
	Network Storage Tank		
	Orifice Plate		
	Vortex Chamber		
	Penstock Chamber		
	Blind Manhole		
	Screen Chamber		Control Kiosk
	Discharge Point		Unspecified
	Outfall		

### LEGEND

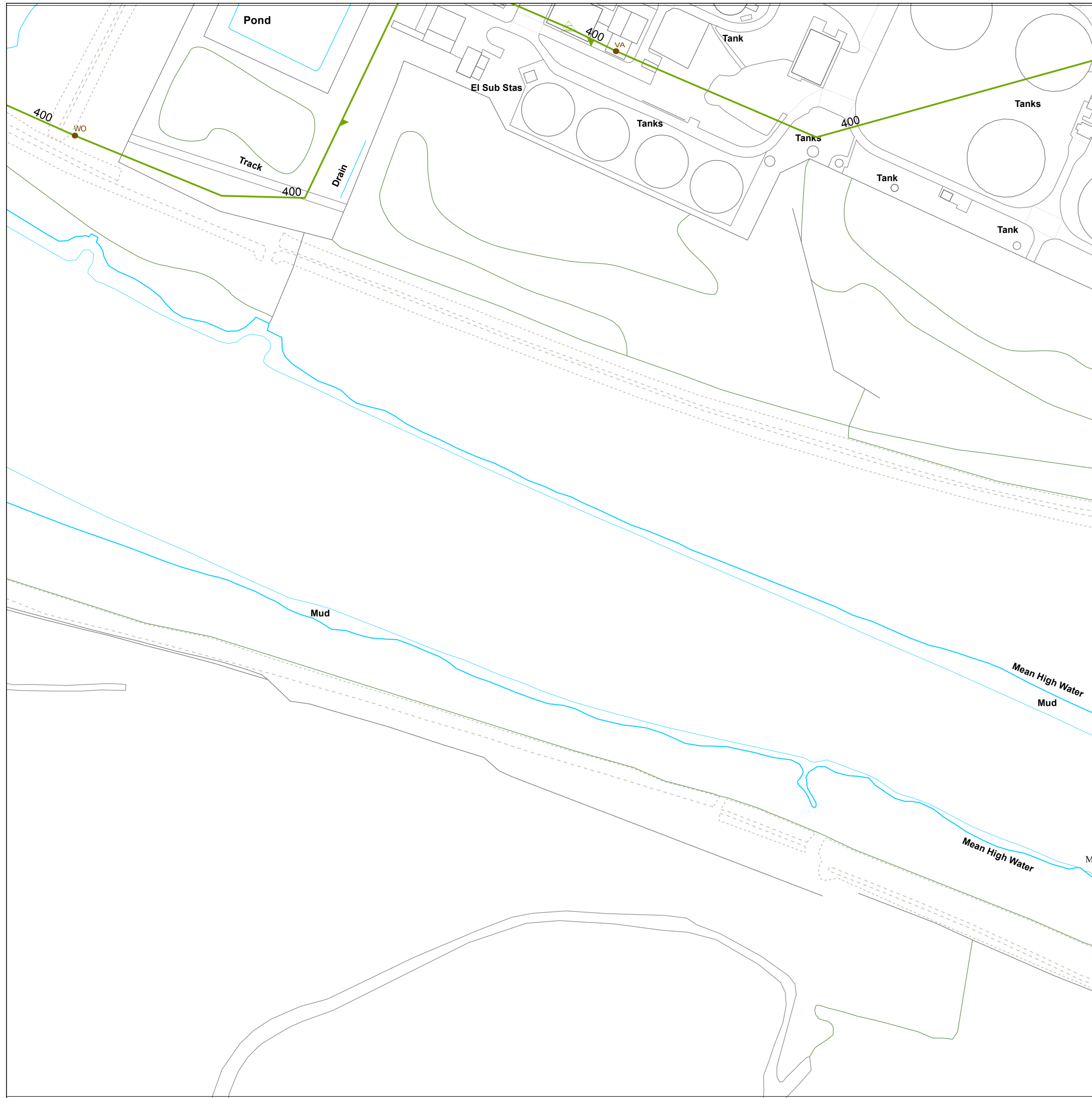
MANHOLE FUNCTION	
FO	Foul
SW	Surface Water
CO	Combined
OV	Overflow

SEWER SHAPE			
CI	Circular	TR	Trapezoidal
EG	Egg	AR	Arch
OV	Oval	BA	Barrel
FT	Flat Top	HO	HorseShoe
RE	Rectangular	UN	Unspecified
SQ	Square		

SEWER MATERIAL			
AC	Asbestos Cement	DI	Ductile Iron
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CSU	Concrete Segment Unbolted	PP	Polypropylene
CC	Concrete Box Culverted	PF	Pitch Fibre
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GRC	Glass Reinforced Concrete	MAR	Masonry, Random
GRP	Glass Reinforced Plastic	U	Unspecified

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Ratio	Cover	Func	Invert	Size	Size	yShape	Mat	Length	Grad
2903	7.4	FO	6.25	400	CI	DI	299.82		2998

### WASTE WATER SYMBOLOGY

Foul	Surface	Combined	Overflow	Manhole
				Manhole
				Manhole, Side Entry
				MainSewer, Public
				MainSewer, Private
				MainSewer, S104
				Rising Main, Public
				Rising Main, Private
				Rising Main, S104
				Highway Drain, Private

Foul	Surface	Combined	Sludge Main, Public	Sludge Main, Private	Sludge Main, S104

### ABANDONED PIPE

	MainSewer
	Rising Main
	Highway Drain
	Sludge Main

### LEGEND

MANHOLE FUNCTION	
FO	Foul
SW	Surface Water
CO	Combined
OV	Overflow

SEWER SHAPE	
CI	Circular
EG	Egg
OV	Oval
FT	Flat Top
RE	Rectangular
SQ	Square
TR	Trapezoidal
AR	Arch
BA	Barrel
HO	HorseShoe
UN	Unspecified

SEWER MATERIAL			
AC	Asbestos Cement	DI	Ductile Iron
BR	Brick	PVC	Polyvinyl Chloride
PE	Polyethylene	CI	Cast Iron
RP	Reinforced Plastic Matrix	SI	Spun Iron
CO	Concrete	ST	Steel
CSB	Concrete Segment Bolted	VC	Vitrified Clay
CSU	Concrete Segment Unbolted	PP	Polypropylene
CC	Concrete Box Culverted	PF	Pitch Fibre
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GRC	Glass Reinforced Concrete	MAR	Masonry, Random
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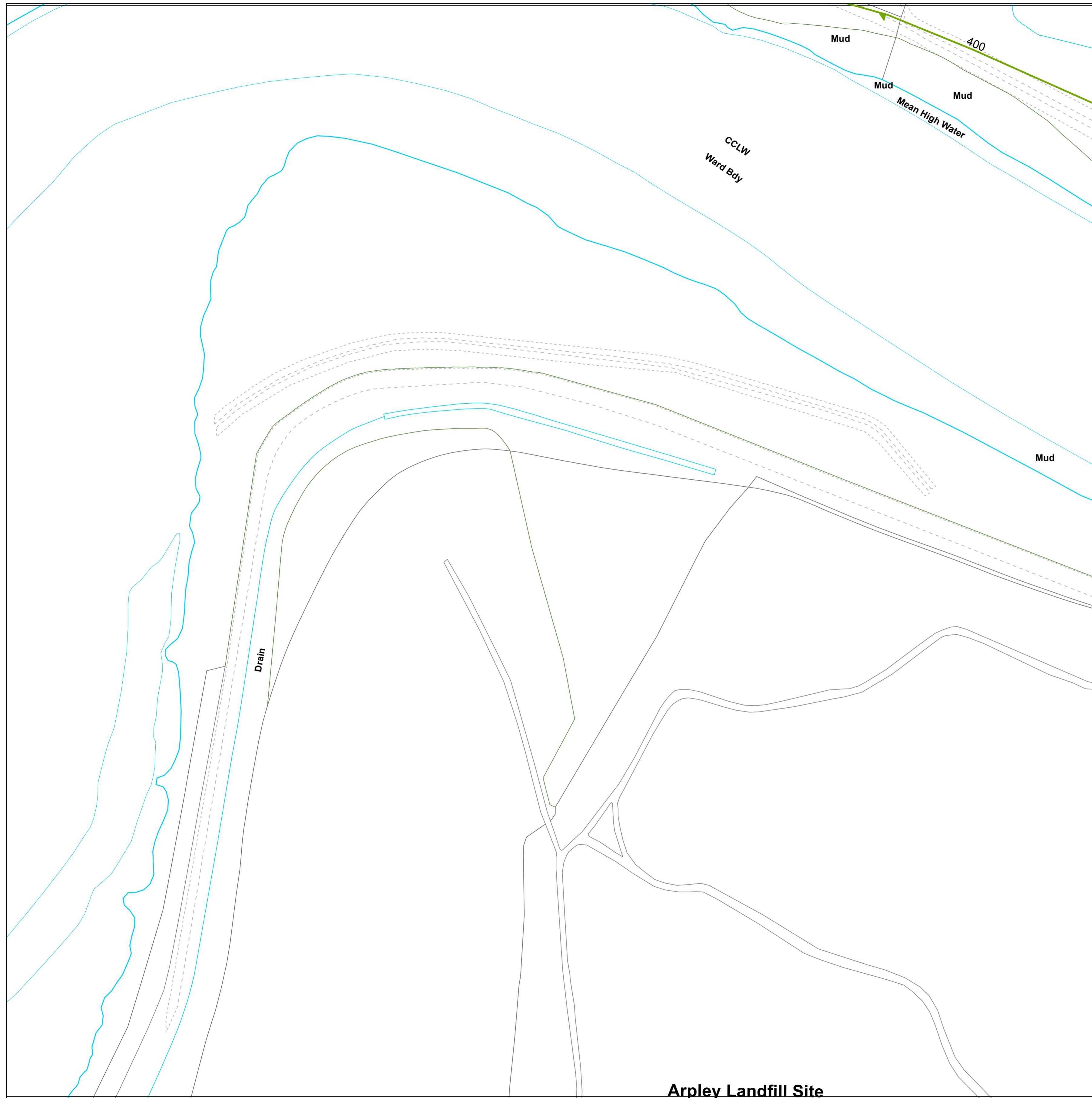
OS Sheet No: SJ5886NW  
 Scale: 1:1250 Date: 22/03/2018  
 1 Nodes  
 Sheet 1 of 1



OS Sheet No: SJ5886NW

Scale: 1:1250 Date: 22/03/2018

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**Arpley Landfill Site**

**OS Sheet No: SJ5786NE**

Scale: 1:1250 Date: 22/03/2018

Printed By: Property Searches

Reho Cover Func Invert Size x Size y Shape Mat Length Grad

**WASTE WATER SYMBOLOGY**

Foul	Surface	Combined	Overflow	Manhole
				Manhole, Side Entry
				MainSewer, Public
				MainSewer, Private
				MainSewer, S104
				Rising Main, Public
				Rising Main, Private
				Rising Main, S104
				Highway Drain, Private

	WW Site Termination		Sludge Main, Public
	Air Valve		Sludge Main, Private
	Cascade		Sludge Main, S104
	Non Return Valve		ABANDONED PIPE
	Extent of Survey		MainSewer
	Flow Meter		Rising Main
	Gully		Highway Drain
	Hatch Box		Sludge Main
	Head of System		
	Hydrobrake / Vortex		
	Inlet		
	Inspection Chamber		
	Bifurcation		
	Catchpit		
	Contaminated Surface Water		
	WW Pumping Station		
	Sludge Pumping Station		
	Sewer Overflow		
	T Junction/Saddle		
	LampHole		
	Oil Interceptor		
	PenStock		
	Pump		
	RoddingEye		
	Soakaway		
	Summit		
	Valve		
	Valve Chamber		
	Washout Chamber		
	DropShaft		
	WW Treatment Works		
	Septic Tank		
	Vent Column		
	Network Storage Tank		
	Orifice Plate		
	Vortex Chamber		
	Penstock Chamber		
	Blind Manhole		
	Foul Surface Combined Overflow		Control Kiosk
	Screen Chamber		Unspecified
	Discharge Point		
	Outfall		

**MANHOLE FUNCTION**

FO	Foul
SW	Surface Water
CO	Combined
OV	Overflow

**SEWER SHAPE**

CI	Circular	TR	Trapezoidal
EG	Egg	AR	Arch
OV	Oval	BA	Barrel
FT	Flat Top	HO	HorseShoe
RE	Rectangular	UN	Unspecified
SQ	Square		

**SEWER MATERIAL**

AC	Asbestos Cement	DI	Ductile Iron
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RP	Reinforced Plastic Matrix	SI	Spun Iron
CO	Concrete	ST	Steel
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GRC	Glass Reinforced Concrete	MAR	Masonry, Random
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OS Sheet No: SJ5786NE

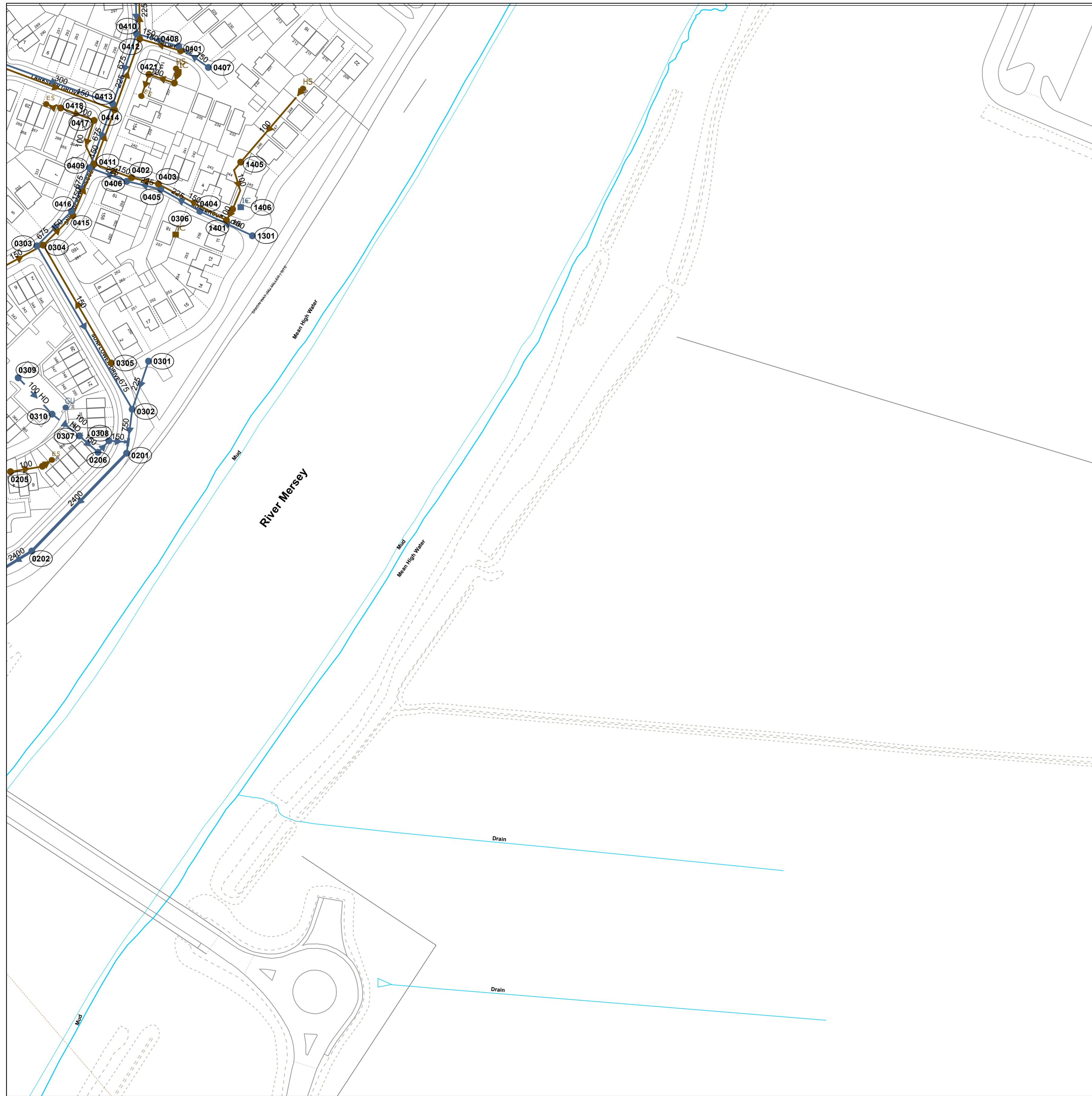
Scale: 1:1250 Date: 22/03/2018

0 Nodes

Sheet 1 of 1







Reho	Cover	Func	Invert	Size	Size y	Shape	Mat	Length	Grad	Reho	Cover	Func	Invert	Size	Size y	Shape	Mat	Length	Grad	
0201	9.82	SW	4.61	2400		CI	CO	62.47	566											
0202	9.9	SW	4.5	2400		CI	CO	15.8	527											
0204		FO																		
0205		FO																		
0206		SW																		
0301	10.3	SW	8.9	225		CI	VC	23.23	8											
0302	10.1	SW																		
0303	9.67	SW																		
0304	9.65	FO																		
0305	10.43	FO	8.61	150		CI	VC	62.41	55											
0306		FO																		
0307		SW																		
0308		SW																		
0309		SW																		
0310		SW																		
0401	9.8	FO																		
0402	9.69	FO																		
0403	9.79	FO	7.74	100		CI	VC	12.63	126											
0404	10.07	SW	8.34	225		CI	VC	20.53	187											
0405	9.82	SW	8.23	225		CI	VC	16.03	200											
0406	9.74	SW																		
0407	9.71	SW																		
0408	9.78	SW																		
0409	9.89	SW																		
0410	9.66	SW	6.59	675		CI	CO	33.96	566											
0411	9.87	FO																		
0412	9.65	FO																		
0413	9.65	SW																		
0414	9.69	FO																		
0415	9.82	FO	7.29	150		CI	VC	25.49	196											
0416	9.84	SW																		
0417		FO																		
0418		FO																		
0420		FO																		
0421		FO																		
0422		FO																		
1301	10.53	SW	8.85	150		CI	VC	26.6	86											
1401	10.23	FO	8.17	150		CI	VC	35.28	82											
1404		FO																		
1405		FO																		
1406		SW																		
0311		SW																		
0423		FO																		
1402		FO																		
1403		FO																		
0207		SW																		

**WASTE WATER SYMOLOGY**

					Manhole
					Rising Main, Public
					Highway Drain, Private

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**ABANDONED PIPE**

--	--	--	--

**MANHOLE FUNCTION**

FO	Foul
SW	Surface Water
CO	Combined
OV	Overflow

**SEWER SHAPE**

CI	Circular	TR	Trapezoidal
EG	Egg	AR	Arch
OV	Oval	BA	Barrel
FT	Flat Top	HO	HorseShoe
RE	Rectangular	UN	Unspecified
SQ	Square		

**SEWER MATERIAL**

AC	Asbestos Cement	DI	Ductile Iron
BR	Brick	PVC	Polyvinyl Chloride
PE	Polyethylene	CI	Cast Iron
RP	Reinforced Plastic Matrix	SI	Spun Iron
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GRC	Glass Reinforced Concrete	MAR	Masonry, Random
GRP	Glass Reinforced Plastic	U	Unspecified

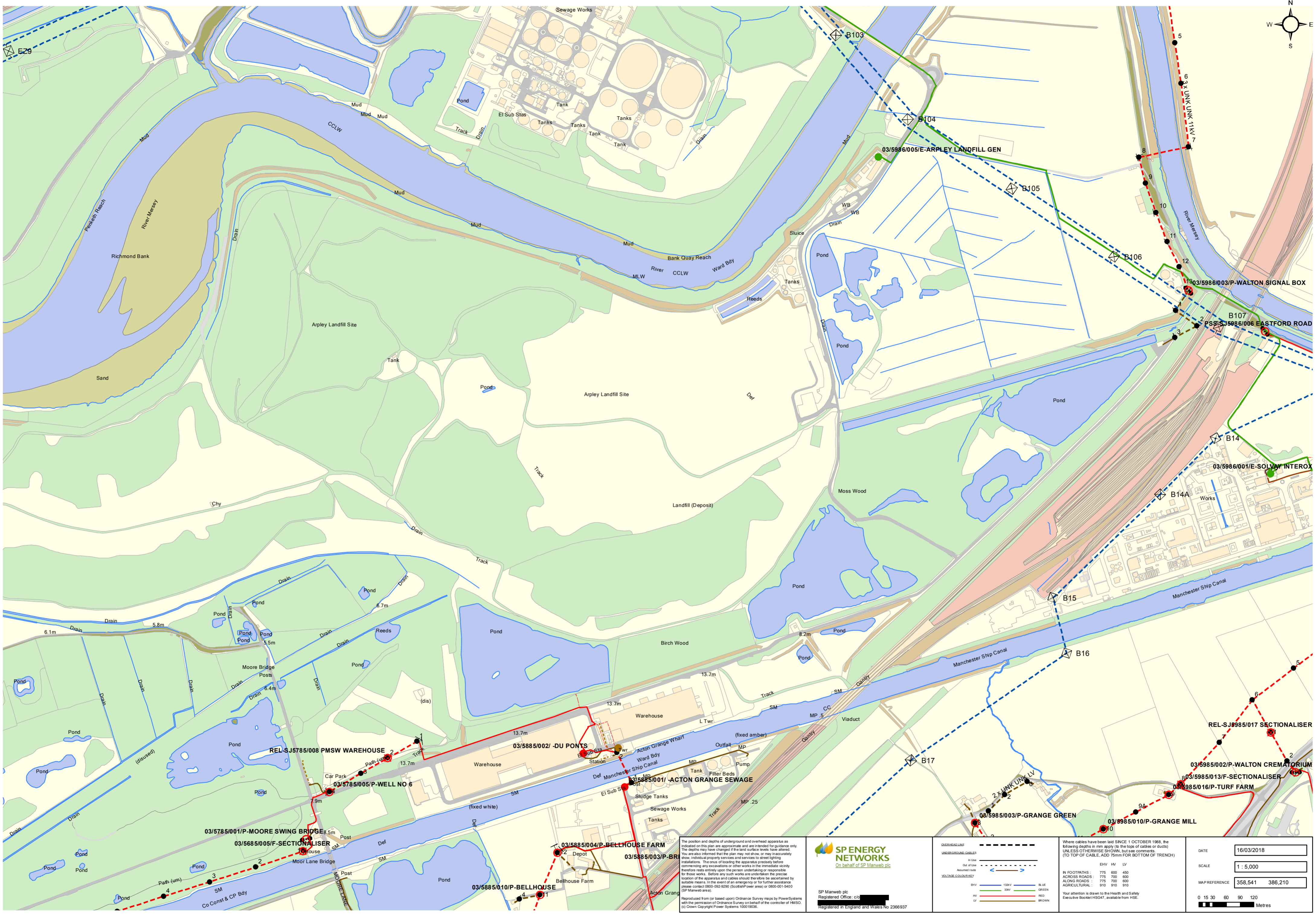
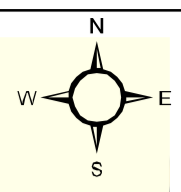
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OS Sheet No: SJ5987SW  
 Scale: 1:1250 Date: 22/03/2018  
 46 Nodes  
 Sheet 1 of 1



# APPENDIX D

SHEPHERD • GILMOUR SHEPHERD • GILMOUR SHEPHERD • GILMOUR SHEPHERD • GILMOUR SHEPHERD • GILMOUR



The position and depths of underground and overhead apparatus as indicated on this plan are approximate and are intended for guidance only. The depths may have changed if the land surface levels have altered. You are also informed that the plan may not show, or may inaccurately show, individual property services and services to street lighting installations. The onus of locating the apparatus precisely before commencing any excavations or other works in the immediate vicinity therefore rests entirely upon the person undertaking or responsible for those works. Before any such works are undertaken the precise location of the apparatus and cables should therefore be ascertained by suitable means. In the event of an emergency or for further assistance please contact 0800-092-0200 (Scottish Power area) or 0800-001-5400 (SP Manweb area).

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**SP ENERGY NETWORKS**  
On behalf of SP Manweb plc

SP Manweb plc  
Registered Office: c/o [REDACTED]  
Registered in England and Wales No 2366937

OVERHEAD LINE	UNDERGROUND CABLES	
As shown	As shown	
Assumed route	Assumed route	
VOLTAGE COLOUR KEY		
BHV	110kV	BLUE
HV	33kV	GREEN
LV		RED
		BROWN

Where cables have been laid SINCE 1 OCTOBER 1988, the following depths in mm apply (to the tops of cables or ducts) UNLESS OTHERWISE SHOWN, but see comments (TO TOP OF CABLE, ADD 75mm FOR BOTTOM OF TRENCH)

	EHV	HV	LV
IN FOOTPATHS :	775	600	450
ACROSS ROADS :	775	700	600
ALONG ROADS :	775	700	600
AGRICULTURAL :	910	910	910

Your attention is drawn to the Health and Safety Executive Booklet HSG47, available from HSE.

DATE	16/03/2018
SCALE	1 : 5,000
MAP REFERENCE	358,541 386,210
0 15 30 60 90 120 Metres	





# 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.

**openreach**

**CLICK BEFORE YOU DIG**  
 FOR PROFESSIONAL FREE ON SITE ASSISTANCE PRIOR TO COMMENCEMENT OF EXCAVATION WORKS INCLUDING LOCATE AND MARKING SERVICE

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

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## KEY TO BT SYMBOLS

Planned DP	DP	Pole
Planned PCP	PCP	Planned Pole
Planned	Built	Joint Box
Inferred	Planned	Change Of State
Building	Inferred	Split Coupling
Kiosk	Building	Duct Tee
Hatchings	Kiosk	Planned Box
	Hatchings	Manhole
		Planned Manhole
		Cabinet
		Planned Cabinet

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 time of preparation

BT Ref : VZE01152B  
 Map Reference : (centre) SJ5888386672  
 Easting/Northing : (centre) 35 8883,386672  
 Issued : 15 / 03 / 2018 13:15:41

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

# Maps by email Plant Information Reply



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## KEY TO BT SYMBOLS

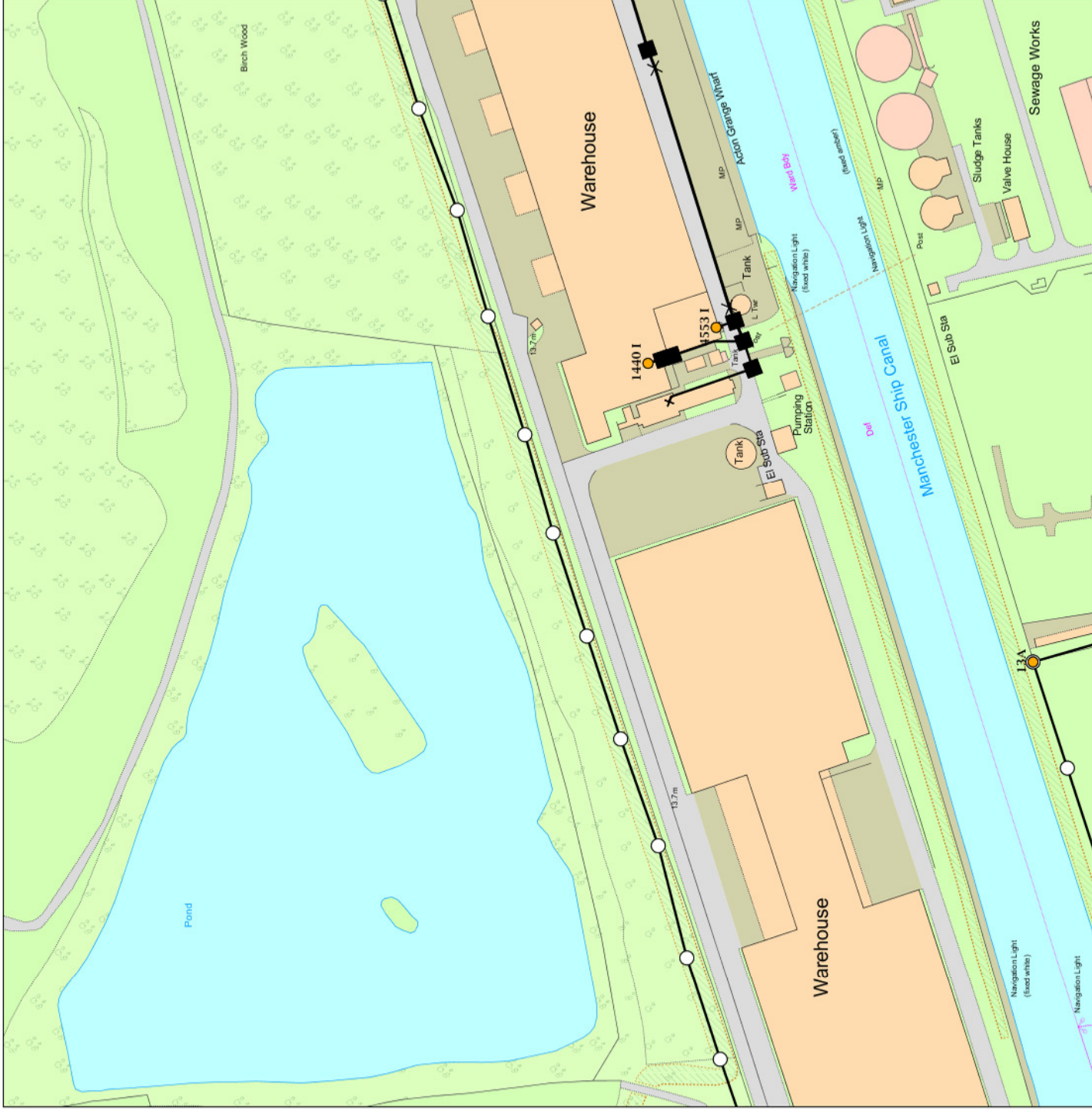
Planned DP	DP	Planned Pole	Pole
PCP	PCP	Joint Box	Joint Box
Planned PCP	Planned PCP	Change Of State	Change Of State
Built	Built	Split Coupling	Split Coupling
Planned	Planned	Duct Tee	Duct Tee
Inferred	Inferred	Planned Box	Planned Box
Building	Building	Manhole	Manhole
Kiosk	Kiosk	Planned Manhole	Planned Manhole
Hatchings	Hatchings	Cabinet	Cabinet
		Planned Cabinet	Planned Cabinet

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 time of operation

BT Ref : AEQ01264H  
Map Reference : (centre) SJ5754485404  
Easting/Northing : (centre) 35 75 44,385 404  
Issued : 15 / 03 / 2018 13:26:42

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# Maps by email Plant Information Reply



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**openreach**

**CLICK BEFORE YOU DIG**

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



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

**KEY TO BT SYMBOLS**

Planned DP	DP	Planned Pole	Pole
Planned PCP	PCP	Joint Box	Joint Box
Built	Built	Change Of State	Change Of State
Planned	Planned	Split Coupling	Split Coupling
Inferred	Inferred	Duct Tee	Duct Tee
Building	Building	Planned Box	Planned Box
Kiosk	Kiosk	Manhole	Manhole
Hatchings	Hatchings	Planned Manhole	Planned Manhole
		Cabinet	Cabinet
		Planned Cabinet	Planned Cabinet

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

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BT Ref : AJF01199C  
Map Reference : (centre) SJ5835085667  
Easting/Northing : (centre) 35 8350,385667  
Issued : 15 / 03 / 2018 13:19:16

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# Maps by email Plant Information Reply



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## KEY TO BT SYMBOLS

Planned DP	DP	Planned Pole	Pole
PCP	PCP	Joint Box	Joint Box
Planned PCP	Planned PCP	Change Of State	Change Of State
Built	Built	Split Coupling	Split Coupling
Planned	Planned	Duct Tee	Duct Tee
Inferred	Inferred	Planned Box	Planned Box
Building	Building	Manhole	Manhole
Kiosk	Kiosk	Planned Manhole	Planned Manhole
Hatchings	Hatchings	Cabinet	Cabinet
		Planned Cabinet	Planned Cabinet

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

BT Ref : BNT01138V

Map Reference : (centre) SJ5924486758

Easting/Northing : (centre) 359244,386758

Issued : 15 / 03 / 2018 13:13:44

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

# 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.



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## KEY TO BT SYMBOLS

Planned DP	DP	Planned Pole	Pole
PCP	PCP	Joint Box	Joint Box
Planned PCP	Planned PCP	Change Of State	Change Of State
Built	Built	Split Coupling	Split Coupling
Planned	Planned	Duct Tee	Duct Tee
Inferred	Inferred	Planned Box	Planned Box
Building	Building	Manhole	Manhole
Kiosk	Kiosk	Planned Manhole	Planned Manhole
Hatchings	Hatchings	Cabinet	Cabinet
		Planned Cabinet	Planned Cabinet

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 time of preparation

BT Ref : CRE01149W

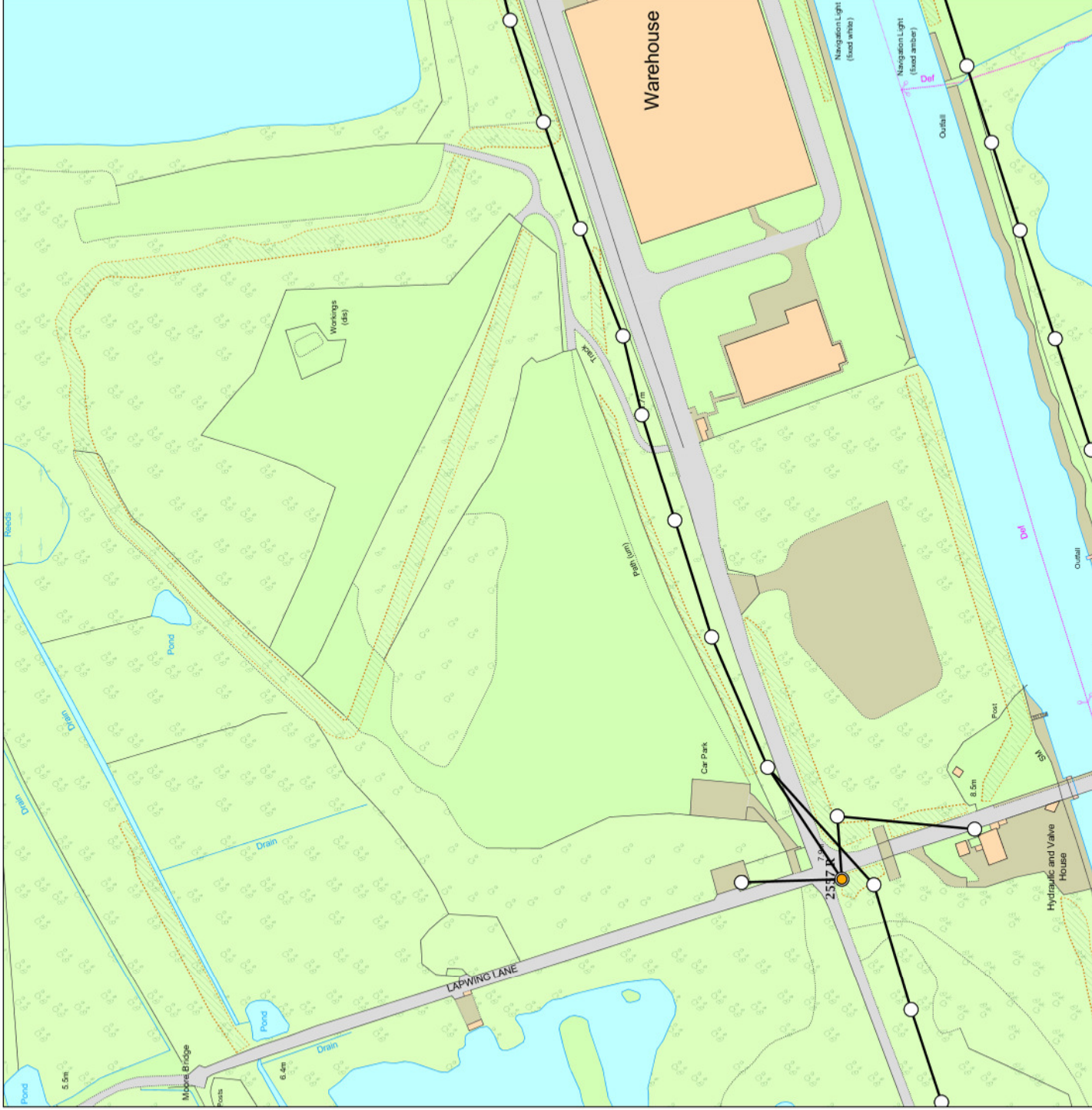
Map Reference : (centre) SJ5902686808

Easting/Northing : (centre) 359026,386808

Issued : 15 / 03 / 2018 13:14:59

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

# Maps by email Plant Information Reply



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**CLICK BEFORE YOU DIG**  
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[Redacted Contact Information]

(Office hours: Monday - Friday 08.00 to 17.00)  
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### KEY TO BT SYMBOLS

Planned DP	DP	Planned Pole	Pole
Planned DP	DP	Joint Box	Joint Box
PCP	PCP	Change Of State	Change Of State
Planned PCP	PCP	Split Coupling	Split Coupling
Built	Built	Duct Tee	Duct Tee
Planned	Planned	Planned Box	Planned Box
Inferred	Inferred	Manhole	Manhole
Building	Building	Planned Manhole	Planned Manhole
Kiosk	Kiosk	Cabinet	Cabinet
Hatchings	Hatchings	Planned Cabinet	Planned Cabinet

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 time of preparation

BT Ref : IOU01191Y  
 Map Reference : (centre) SJ5792885586  
 Easting/Northing : (centre) 35 7928,385 586  
 Issued : 15 / 03 / 2018 13:19:39

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

# Maps by email Plant Information Reply



Arpley Landfill Site

## IMPORTANT WARNING

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## KEY TO BT SYMBOLS

Planned DP	DP	Planned Pole	Pole
Planned DP	DP	Joint Box	Joint Box
PCP	PCP	Change Of State	Change Of State
Planned PCP	PCP	Split Coupling	Split Coupling
Built	Built	Duct Tee	Duct Tee
Planned	Planned	Planned Box	Planned Box
Inferred	Inferred	Manhole	Manhole
Building	Building	Planned Manhole	Planned Manhole
Kiosk	Kiosk	Cabinet	Cabinet
Hatchings	Hatchings	Planned Cabinet	Planned Cabinet

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 time of preparation

BT Ref : LFK01164T

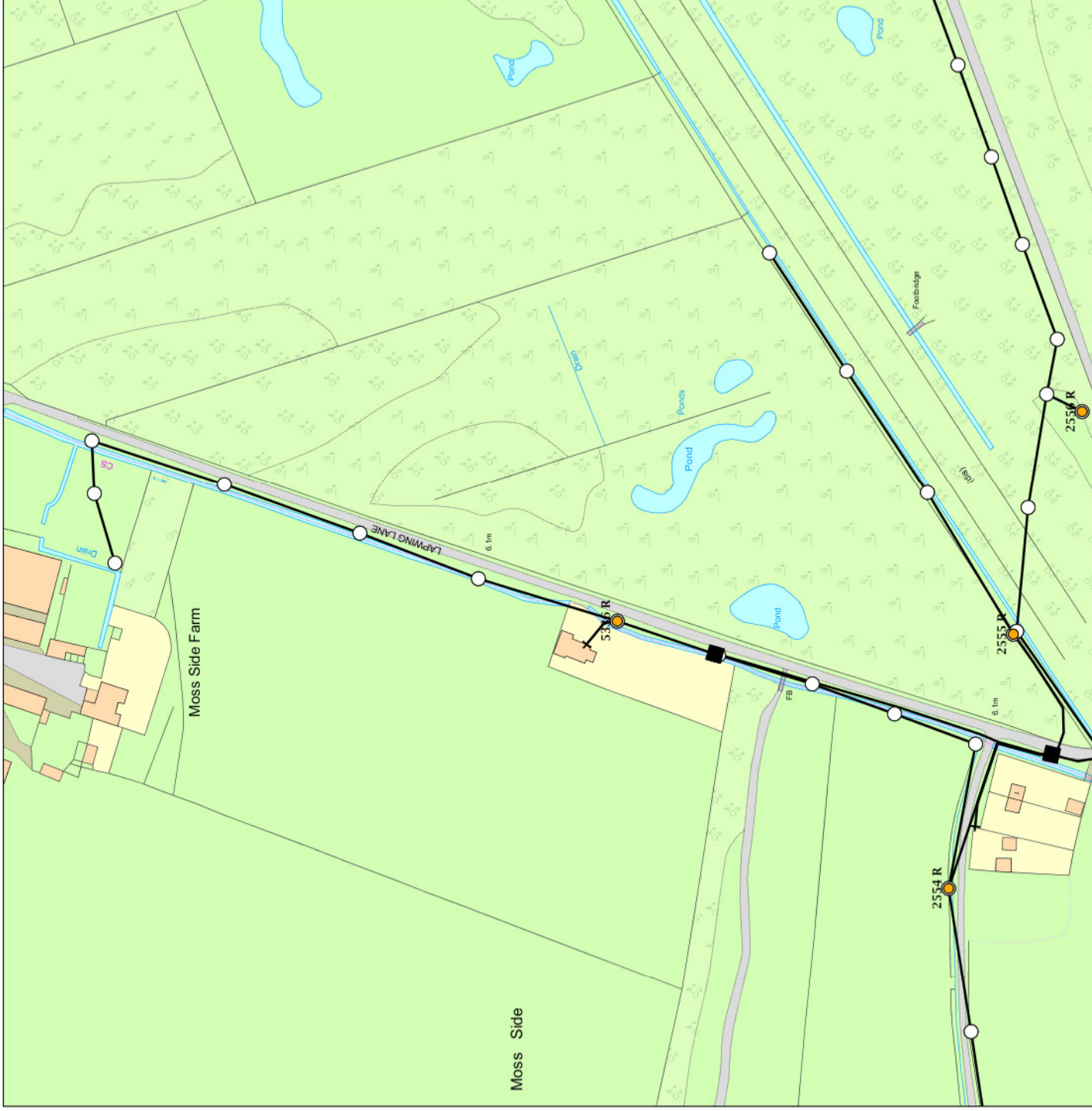
Map Reference : (centre) SJ5855286460

Easting/Northing : (centre) 35 8552,386460

Issued : 15 / 03 / 2018 13:17:11

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# Maps by email Plant Information Reply



**IMPORTANT WARNING**

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## KEY TO BT SYMBOLS

Planned DP	DP	Planned Pole	Pole
Planned PCP	PCP	Joint Box	Change Of State
Built	Built	Split Coupling	Split Coupling
Planned	Planned	Duct Tee	Duct Tee
Inferred	Inferred	Planned Box	Planned Box
Building	Building	Manhole	Manhole
Kiosk	Kiosk	Planned Manhole	Planned Manhole
Hatchings	Hatchings	Cabinet	Cabinet
		Planned Cabinet	Planned Cabinet

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 time of preparation

BT Ref : MSCO1281E  
Map Reference : (centre) SJ5682385377  
Easting/Northing : (centre) 35 6823,385377  
Issued : 15 / 03 / 2018 13:28:30

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# Maps by email Plant Information Reply



## IMPORTANT WARNING

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## KEY TO BT SYMBOLS

Planned DP	DP
Planned PCP	PCP
Built	Built
Planned	Planned
Inferred	Inferred
Building	Building
Kiosk	Kiosk
Hatchings	Hatchings

Pole	Pole
Planned Pole	Planned Pole
Joint Box	Joint Box
Change Of State	Change Of State
Split Coupling	Split Coupling
Duct Tee	Duct Tee
Planned Box	Planned Box
Manhole	Manhole
Planned Manhole	Planned Manhole
Cabinet	Cabinet
Planned Cabinet	Planned Cabinet

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 time of preparation

BT Ref : OFB01161N

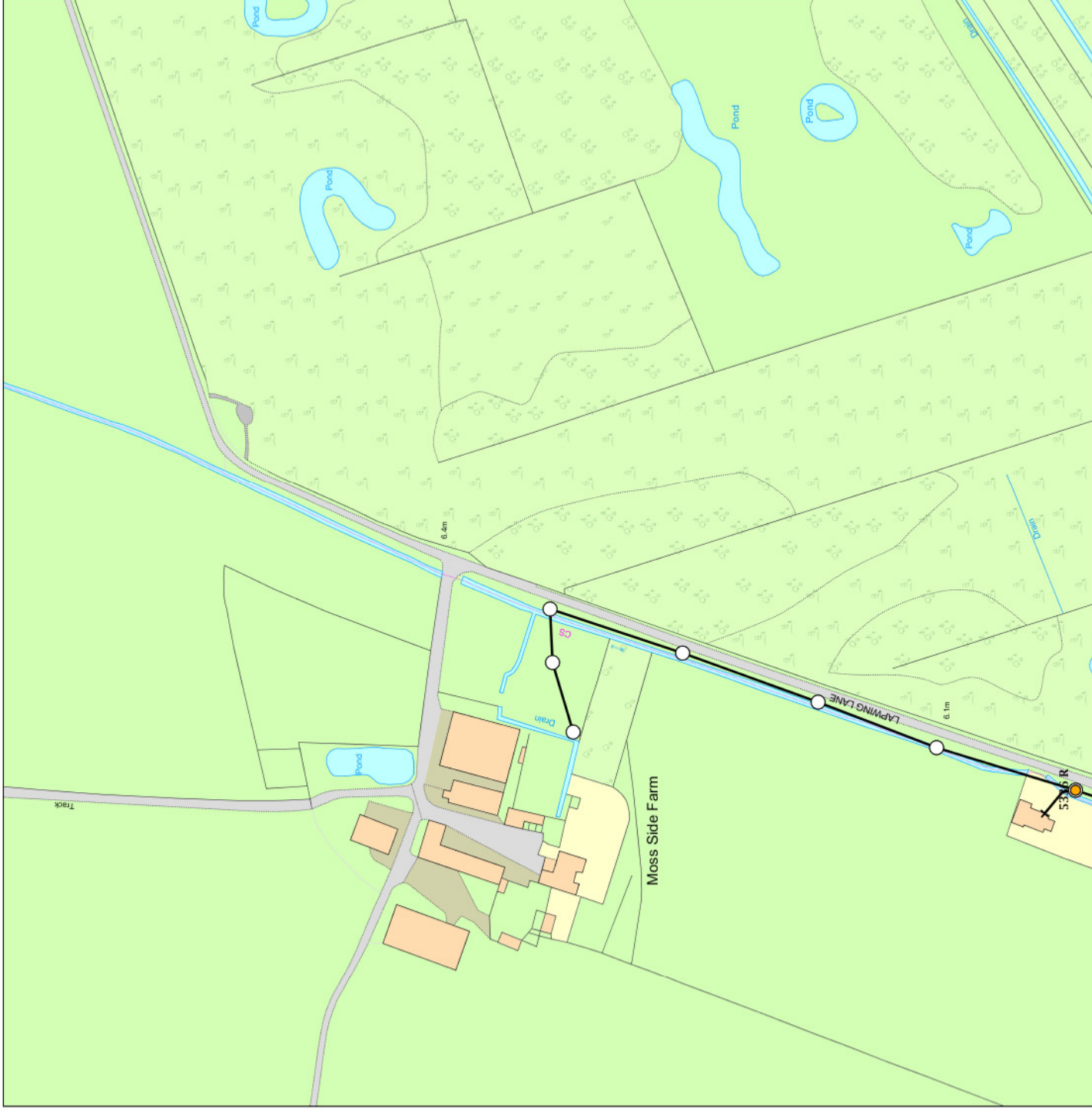
Map Reference : (centre) SJ58924,486373

Easting/Northing : (centre) 35 8924,386373

Issued : 15 / 03 / 2018 13:16:31

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# Maps by email Plant Information Reply



## IMPORTANT WARNING

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## KEY TO BT SYMBOLS

Planned DP	DP	Planned Pole	Pole
Planned DP	DP	Joint Box	Joint Box
PCP	PCP	Change Of State	Change Of State
Planned PCP	PCP	Split Coupling	Split Coupling
Built	Built	Duct Tee	Duct Tee
Planned	Planned	Planned Box	Planned Box
Inferred	Inferred	Manhole	Manhole
Building	Building	Planned Manhole	Planned Manhole
Kiosk	Kiosk	Cabinet	Cabinet
Hatchings	Hatchings	Planned Cabinet	Planned Cabinet

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 time of preparation

BT Ref : RLY01274K

Map Reference : (centre) SJ5689985587

Easting/Northing : (centre) 35 6899,385587

Issued : 15 / 03 / 2018 13:27:15

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



Shepherd Gilmour  
Consulting Engineers

Colchester House, 40 Peter Street, Manchester M2 5GP

(44)0161 837 1500

[www.shepherd-gilmour.co.uk](http://www.shepherd-gilmour.co.uk)

# APPENDIX F

**SGi Consulting**

[Redacted]

**FAO:**

**How to contact us:**

[Redacted]

**Telephone:** [Redacted]

**E-mail:** [Redacted]

**Your Ref: Port Warrington South**

**Our Ref: UUPS-ORD-22247**

**Date: 05/04/2018**

**Dear Sirs**

**Location: Port Warrington Birch Wood**

I acknowledge with thanks your request dated 05/04/2018 for information on the location of our services.

Please find enclosed plans showing the approximate position of United Utilities' apparatus known to be in the vicinity of this site.

The enclosed plans are being provided to you subject to the United Utilities terms and conditions for both the wastewater and water distribution plans which are shown attached.

If you are planning works anywhere in the North West, please read United Utilities' access statement before you start work to check how it will affect our network. <http://www.unitedutilities.com/work-near-asset.aspx>.

I trust the above meets with your requirements and look forward to hearing from you should you need anything further.

If you have any queries regarding this matter please [contact us](#).

Yours Faithfully,

[Redacted Signature]

## TERMS AND CONDITIONS - WASTERWATER AND WATER DISTRIBUTION PLANS

These provisions apply to the public sewerage, water distribution and telemetry systems (including sewers which are the subject of an agreement under Section 104 of the Water Industry Act 1991 and mains installed in accordance with the agreement for the self construction of water mains) (UUWL apparatus) of United Utilities Water Limited "(UUWL)".

### TERMS AND CONDITIONS:

- This Map and any information supplied with it is issued subject to the provisions contained below, to the exclusion of all others and no party relies upon any representation, warranty, collateral contract or other assurance of any person (whether party to this agreement or not) that is not set out in this agreement or the documents referred to in it.
- This Map and any information supplied with it is provided for general guidance only and no representation, undertaking or warranty as to its accuracy, completeness or being up to date is given or implied.
- In particular, the position and depth of any UUWL apparatus shown on the Map are approximate only. UUWL strongly recommends that a comprehensive survey is undertaken in addition to reviewing this Map to determine and ensure the precise location of any UUWL apparatus. The exact location, positions and depths should be obtained by excavation trial holes.
- The location and position of private drains, private sewers and service pipes to properties are not normally shown on this Map but their presence must be anticipated and accounted for and you are strongly advised to carry out your own further enquiries and investigations in order to locate the same.
- The position and depth of UUWL apparatus is subject to change and therefore this Map is issued subject to any removal or change in location of the same. The onus is entirely upon you to confirm whether any changes to the Map have been made subsequent to issue and prior to any works being carried out.
- This Map and any information shown on it or provided with it must not be relied upon in the event of any development, construction or other works (including but not limited to any excavations) in the vicinity of UUWL apparatus or for the purpose of determining the suitability of a point of connection to the sewerage or other distribution systems.
- No person or legal entity, including any company shall be relieved from any liability howsoever and whensoever arising for any damage caused to UUWL apparatus by reason of the actual position and/or depths of UUWL apparatus being different from those shown on the Map and any information supplied with it.
- If any provision contained herein is or becomes legally invalid or unenforceable, it will be taken to be severed from the remaining provisions which shall be unaffected and continue in full force and affect.
- This agreement shall be governed by English law and all parties submit to the exclusive jurisdiction of the English courts, save that nothing will prevent UUWL from bringing proceedings in any other competent jurisdiction, whether concurrently or otherwise.

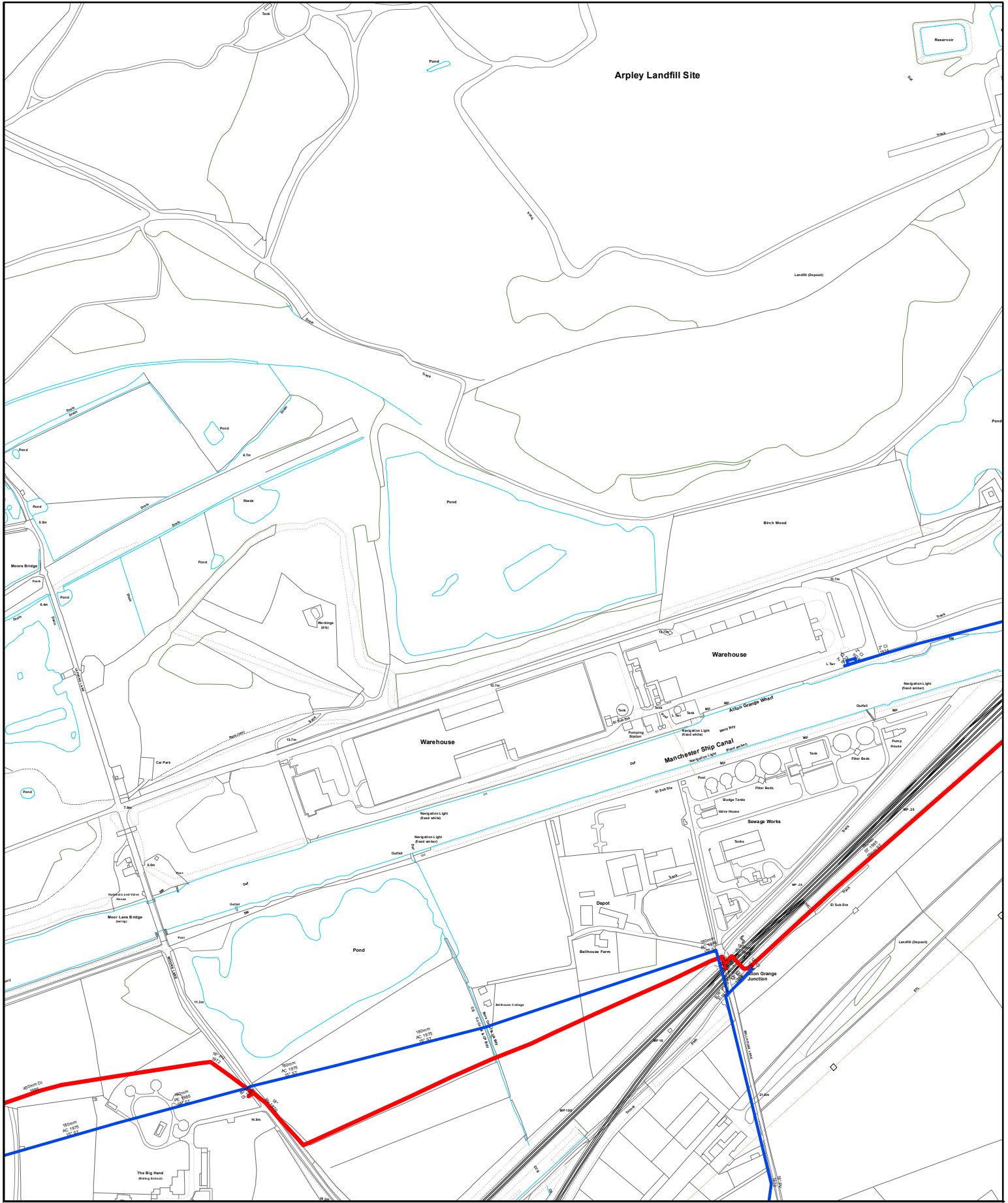
# Clean Water Symbology

Proposed	Abandoned	Live	
			Distribution Main
			Trunk Main
			Comms Pipe
			Private Pipe
			Concessionary Service
			Raw Water
			LDTM Raw Water
			LDTM Treated Water

	Air Valve		Bore Hole
	AC Valve, open		Inlet Point
	AC Valve, closed		Bulk Supply Point
	CC Valve, open		End Cap
	CC Valve, closed		Site Termination
	Non Return Valve		Change of Characteristic
	Pressure Management Valve		Condition Report
	OMS Valve		
	Stop Tap		
	Flow Meter		
	Domestic Meter		
	Commercial Meter		
	Pump		
	Hydrant		
	Fire Hydrant		
	Anode		
	Chlorination Point		
	De-chlorination Point		
	Strainer Point		
	Access Point		
	Hatch Box		
	IP Point		
	Sampling Station		
	Logger Box		
			<u>Property Types</u>
			Water Tower
			Valve House
			Booster Pumping Station
			Intake Pumping Station
			Water Treatment Works
			Supply Reservoir
			Service Reservoir
			Impounding Reservoir
			Pipe Bridge

Symbology for proposed assets is the same as above, but shown in green  
 Symbology for abandoned assets is the same as above, but shown in black



Date: 05/04/2018

# Extract from Map Of Water Mains

Printed By:  
Property Searches

Port Warrington Birch Wood



*The position of this underground apparatus shown on this plan is approximate only and is given in accordance with the best information currently available. The actual positions may be different from those shown on the plan, private service pipes may be shown where a known record is available. United Utilities Water will not accept liability for any loss or damage caused by the actual position being different from those shown. Crown copyright and database rights [2016] Ordnance Survey 100022432.*

*United Utilities Water Limited 2014 The plan is based on the Ordnance Survey Map with the sanction of Controller of H.M. Stationery Office. Crown and Utilities copyrights are reserved. Unauthorised reproduction will infringe these copyrights.*

**SGi Consulting**

[Redacted]

**FAO:**

**How to contact us:**

[Redacted]

**Telephone:** [Redacted]

**E-mail:** [Redacted]

**Your Ref: Port Warrington North  
Our Ref: UUPS-ORD-22248  
Date: 05/04/2018**

**Dear Sirs**

**Location: Port Warrington Landfill**

I acknowledge with thanks your request dated 05/04/2018 for information on the location of our services.

Please find enclosed plans showing the approximate position of United Utilities' apparatus known to be in the vicinity of this site.

The enclosed plans are being provided to you subject to the United Utilities terms and conditions for both the wastewater and water distribution plans which are shown attached.

If you are planning works anywhere in the North West, please read United Utilities' access statement before you start work to check how it will affect our network. <http://www.unitedutilities.com/work-near-asset.aspx>.

I trust the above meets with your requirements and look forward to hearing from you should you need anything further.

If you have any queries regarding this matter please [contact us](#).

Yours Faithfully,

[Redacted Signature]



## TERMS AND CONDITIONS - WASTERWATER AND WATER DISTRIBUTION PLANS

These provisions apply to the public sewerage, water distribution and telemetry systems (including sewers which are the subject of an agreement under Section 104 of the Water Industry Act 1991 and mains installed in accordance with the agreement for the self construction of water mains) (UUWL apparatus) of United Utilities Water Limited "(UUWL)".

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- The location and position of private drains, private sewers and service pipes to properties are not normally shown on this Map but their presence must be anticipated and accounted for and you are strongly advised to carry out your own further enquiries and investigations in order to locate the same.
- The position and depth of UUWL apparatus is subject to change and therefore this Map is issued subject to any removal or change in location of the same. The onus is entirely upon you to confirm whether any changes to the Map have been made subsequent to issue and prior to any works being carried out.
- This Map and any information shown on it or provided with it must not be relied upon in the event of any development, construction or other works (including but not limited to any excavations) in the vicinity of UUWL apparatus or for the purpose of determining the suitability of a point of connection to the sewerage or other distribution systems.
- No person or legal entity, including any company shall be relieved from any liability howsoever and whensoever arising for any damage caused to UUWL apparatus by reason of the actual position and/or depths of UUWL apparatus being different from those shown on the Map and any information supplied with it.
- If any provision contained herein is or becomes legally invalid or unenforceable, it will be taken to be severed from the remaining provisions which shall be unaffected and continue in full force and affect.
- This agreement shall be governed by English law and all parties submit to the exclusive jurisdiction of the English courts, save that nothing will prevent UUWL from bringing proceedings in any other competent jurisdiction, whether concurrently or otherwise.

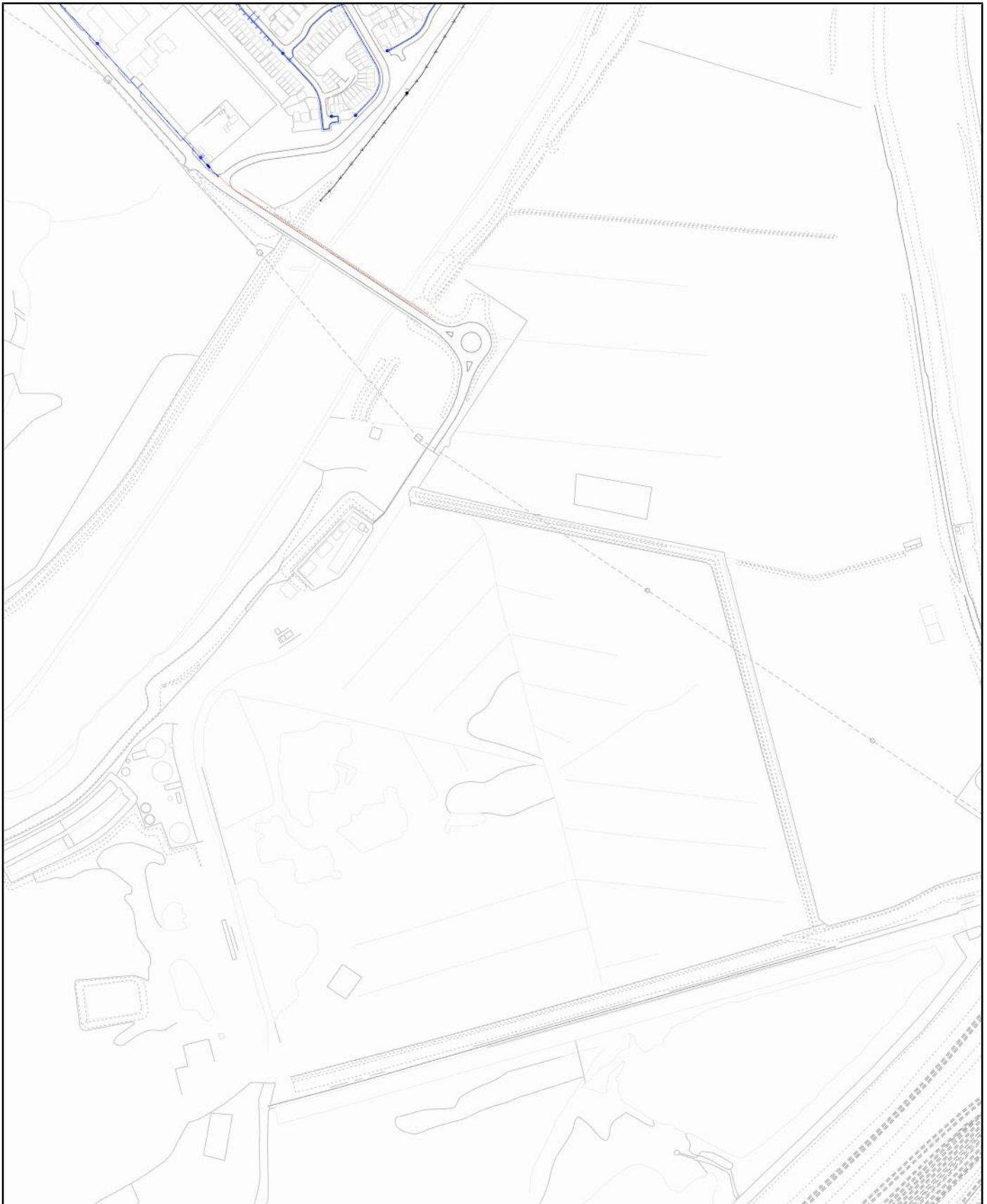
# Clean Water Symbology

Proposed	Abandoned	Live	
			Distribution Main
			Trunk Main
			Comms Pipe
			Private Pipe
			Concessionary Service
			Raw Water
			LDTM Raw Water
			LDTM Treated Water

	Air Valve		Bore Hole
	AC Valve, open		Inlet Point
	AC Valve, closed		Bulk Supply Point
	CC Valve, open		End Cap
	CC Valve, closed		Site Termination
	Non Return Valve		Change of Characteristic
	Pressure Management Valve		Condition Report
	OMS Valve		
	Stop Tap		
	Flow Meter		
	Domestic Meter		
	Commercial Meter		
	Pump		
	Hydrant		
	Fire Hydrant		
	Anode		
	Chlorination Point		
	De-chlorination Point		
	Strainer Point		
	Access Point		
	Hatch Box		
	IP Point		
	Sampling Station		
	Logger Box		
			<u>Property Types</u>
			Water Tower
			Valve House
			Booster Pumping Station
			Intake Pumping Station
			Water Treatment Works
			Supply Reservoir
			Service Reservoir
			Impounding Reservoir
			Pipe Bridge

Symbology for proposed assets is the same as above, but shown in green  
 Symbology for abandoned assets is the same as above, but shown in black



**Scale:** 1:5283.4  
4986200  
67  
**Date:** 05/04/20  
18

## WATER MAINS RECORDS



**Address or Site Reference:** Port Warrington Landfill  
**Printed by:** Property Searches

The position of the underground apparatus shown on this plan is approximate only and is given in accordance with the best information currently available. United Utilities Water will not accept liability for any loss or damage caused by the actual position being different from those shown.

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Colchester House, 40 Peter Street, Manchester M2 5GP

(44)0161 837 1500

[www.shepherd-gilmour.co.uk](http://www.shepherd-gilmour.co.uk)

# APPENDIX G

Plant Protection

Natalia Marsden

[Redacted]

National Gas Emergency Number:  
0800 111 999\*

National Grid Electricity Emergency Number:  
0800 40 40 90\*

\* Available 24 hours, 7 days/week.  
Calls may be recorded and monitored.

[www.cadentgas.com](http://www.cadentgas.com)

**Date:** 16/03/2018

**Our Ref:** NW\_TW\_Z1\_3SWX\_413318

**Your Ref:** Port Warrington Central

**RE: Proposed Works, Port Warrington Central, Cheshire**

Thank you for your enquiry which was received on 16/03/2018.

Please note this response and any attached map(s) are valid for 28 days.

An assessment has been carried out with respect to Cadent Gas Ltd, 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.

For details of Network areas please see the Cadent website (<http://cadentgas.com/Digging-safely/Dial-before-you-dig>) or the enclosed documentation.

**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. Plant Protection 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.**

[Redacted]

## 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 Cadent and/or National Grid's apparatus, e.g. as contained within the Construction (Design and Management) Regulations.

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

- Cadent and/or National Grid's legal interest (easements or wayleaves) in the land which restricts activity in proximity to Cadent and/or 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 Plant Protection.
- 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.

It is **YOUR** responsibility to take into account whether the items listed above may be present and if they could be affected by your proposed activities. Further "Essential Guidance" in respect of these items can be found on the National Grid Website (<http://www2.nationalgrid.com/WorkArea/DownloadAsset.aspx?id=8589934982>).

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

Cadent Gas Ltd, 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.

If you require further assistance please contact the Plant Protection team via e-mail ([click here](#)) or via the contact details at the top of this response.

Yours faithfully

Plant Protection Team

# ASSESSMENT

## Affected Apparatus

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

- High or Intermediate pressure (above 2 bar) Gas Pipelines and associated equipment

## Requirements

### **BEFORE carrying out any work you must:**

- Carefully read these requirements including the attached guidance documents and maps showing the location of apparatus.
- Contact the landowner and ensure any proposed works in private land do not infringe Cadent and/or 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 Cadent and/or 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

## **High Pressure Gas Pipelines Guidance:**

If working in the vicinity of a high pressure gas pipeline the following document must be followed: 'Specification for Safe Working in the Vicinity of Cadent and/or National Grid High Pressure Gas Pipelines and Associated Installations - Requirements for Third Parties' (SSW22). This can be obtained from: <http://www2.nationalgrid.com/WorkArea/DownloadAsset.aspx?id=33968>

## **Dial Before You Dig Pipelines Guidance:**

<http://www2.nationalgrid.com/WorkArea/DownloadAsset.aspx?id=33969>

## **Standard Guidance**

### **Essential Guidance document:**

<http://www2.nationalgrid.com/WorkArea/DownloadAsset.aspx?id=8589934982>

### **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>

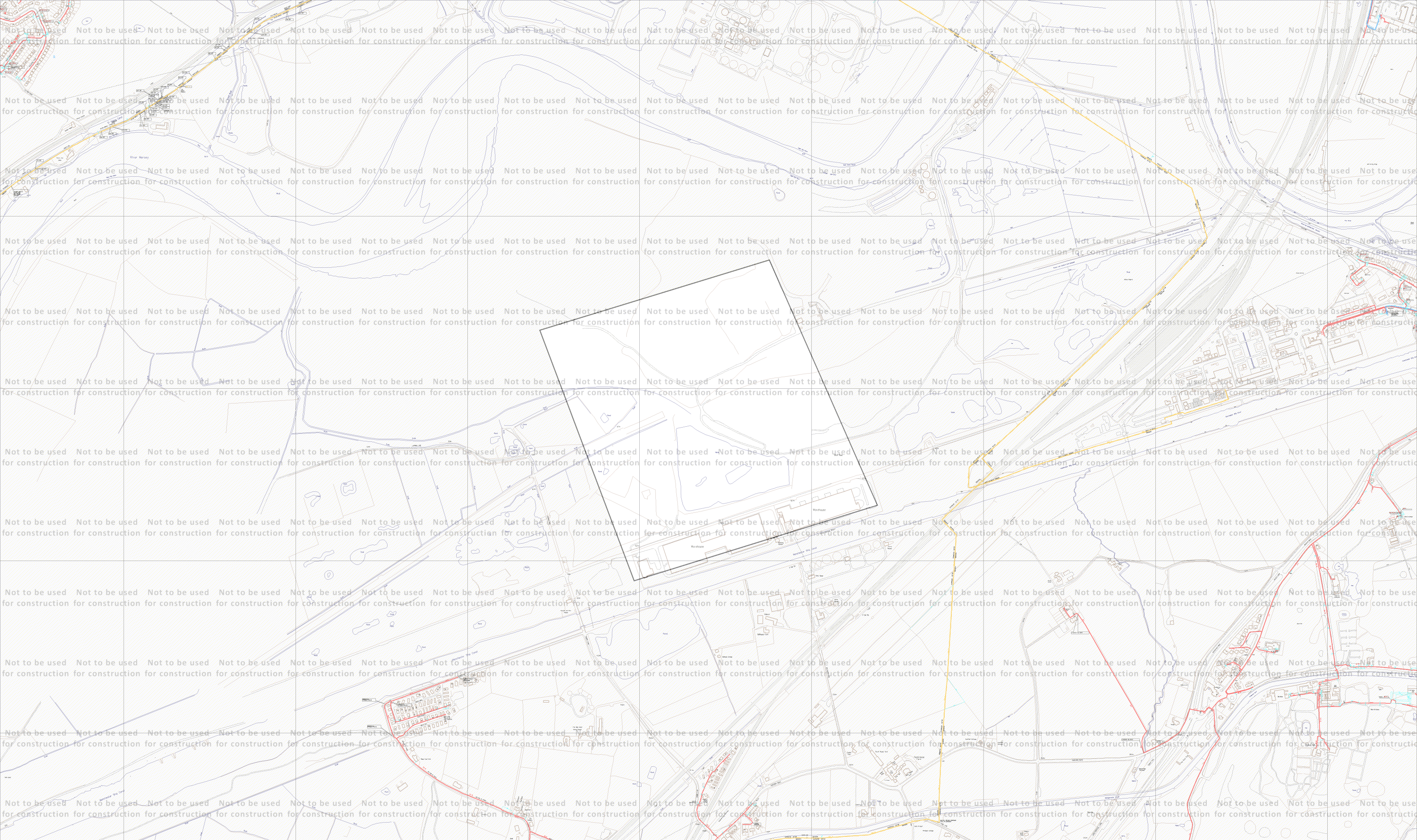
### **Excavating Safely in the vicinity of electricity cables guidance (Credit card):**














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

Copies of all the Guidance Documents can also be downloaded from the National Grid Website:

<http://www.nationalgrid.com/uk/Gas/Safety/work/downloads/>





ID: NW_TW_Z1_3SWX_413318		View extent: 4120m, 2440m		<b>Map not to be used for construction</b>		Map 1 of 1 (GAS)	
USER: nmarsden		LP MAINS  MP MAINS  IP MAINS  LHP MAINS  NHP MAINS 		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.		MAPS Plot Server Version 1.9.0   Your Gas Network Requested by: Shepherd Gilmour Infrastructure	
DATE: 16/03/2018		 Approximate scale 1:10000 on A3 Colour Landscape				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	
DATA DATE: 15/03/2018							
REF: Port Warrington Central							
MAP REF: SJ5885							
CENTRE: 358201, 385908							
Some examples of Plant Items:      							

# ENQUIRY SUMMARY

## Received Date

16/03/2018

## Your Reference

Port Warrington Central

## Location

Centre Point: 358201, 385908

X Extent: 985

Y Extent: 935

Postcode: WA4 6YZ

Location Description: Port Warrington Central, Cheshire

## Map Options

Paper Size: A3

Orientation: LANDSCAPE

Requested Scale: 10000

Actual Scale: 1:10000 (GAS)

Real World Extents: 4120m x 2440m (GAS)

## Recipients

[REDACTED]

## Enquirer Details

Organisation Name: Shepherd Gilmour Infrastructure

Contact Name: Natalia Marsden

Email Address: [REDACTED]

Telephone: [REDACTED]

Address: [REDACTED]

## Description of Works

Proposed industrial/commercial development

## Enquiry Type

Proposed Works

## Activity Type

Development Project

## Work Types

Work Type: Plans Only

Natalia Marsden  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]

Plant Protection  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]

**National Gas Emergency Number:**  
**0800 111 999\***

**National Grid Electricity Emergency Number:**  
**0800 40 40 90\***

\* Available 24 hours, 7 days/week.  
Calls may be recorded and monitored.

[www.cadentgas.com](http://www.cadentgas.com)

**Date:** 16/03/2018

**Our Ref:** NW\_TW\_Z1\_3SWX\_413315

**Your Ref:** Port Warrington East

**RE: Proposed Works, Port Warrington East, Cheshire**

Thank you for your enquiry which was received on 16/03/2018.

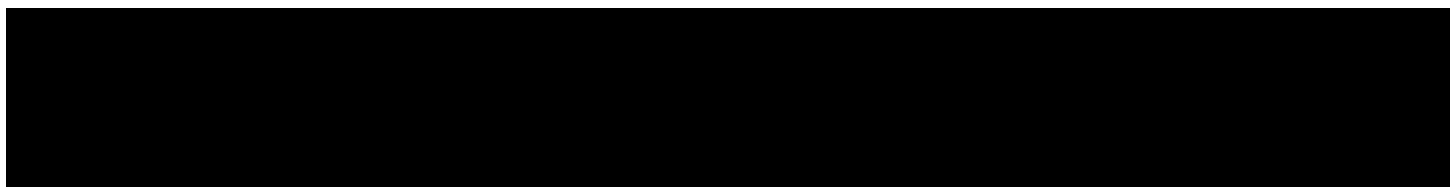
Please note this response and any attached map(s) are valid for 28 days.

An assessment has been carried out with respect to Cadent Gas Ltd, 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.

For details of Network areas please see the Cadent website (<http://cadentgas.com/Digging-safely/Dial-before-you-dig>) or the enclosed documentation.

**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. Plant Protection 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 Cadent and/or National Grid's apparatus, e.g. as contained within the Construction (Design and Management) Regulations.

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

- Cadent and/or National Grid's legal interest (easements or wayleaves) in the land which restricts activity in proximity to Cadent and/or 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 Plant Protection.
- 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.

It is **YOUR** responsibility to take into account whether the items listed above may be present and if they could be affected by your proposed activities. Further "Essential Guidance" in respect of these items can be found on the National Grid Website (<http://www2.nationalgrid.com/WorkArea/DownloadAsset.aspx?id=8589934982>).

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

Cadent Gas Ltd, 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.

If you require further assistance please contact the Plant Protection team via e-mail ([click here](#)) or via the contact details at the top of this response.

Yours faithfully

Plant Protection Team

# ASSESSMENT

## Affected Apparatus

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

- High or Intermediate pressure (above 2 bar) Gas Pipelines and associated equipment

## Requirements

### **BEFORE carrying out any work you must:**

- Carefully read these requirements including the attached guidance documents and maps showing the location of apparatus.
- Contact the landowner and ensure any proposed works in private land do not infringe Cadent and/or 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 Cadent and/or 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

## **High Pressure Gas Pipelines Guidance:**

If working in the vicinity of a high pressure gas pipeline the following document must be followed: 'Specification for Safe Working in the Vicinity of Cadent and/or National Grid High Pressure Gas Pipelines and Associated Installations - Requirements for Third Parties' (SSW22). This can be obtained from: <http://www2.nationalgrid.com/WorkArea/DownloadAsset.aspx?id=33968>

## **Dial Before You Dig Pipelines Guidance:**

<http://www2.nationalgrid.com/WorkArea/DownloadAsset.aspx?id=33969>

## **Standard Guidance**

### **Essential Guidance document:**

<http://www2.nationalgrid.com/WorkArea/DownloadAsset.aspx?id=8589934982>

### **General Guidance document:**

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

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

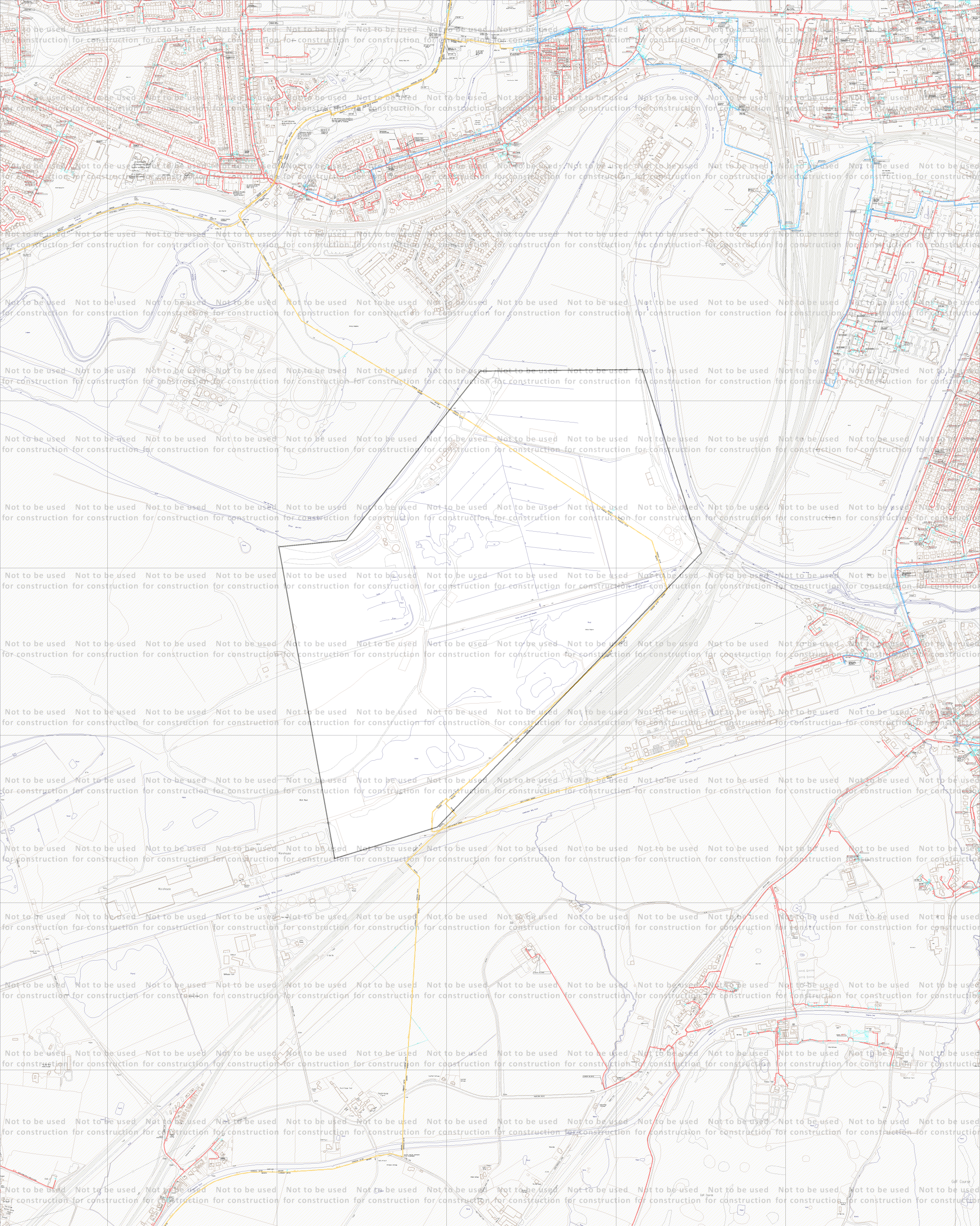
<http://www.nationalgrid.com/NR/rdonlyres/A3D37677-6641-476C-9DDA-E89949052829/44257/ExcavatingSafelyCreditCard.pdf>

### **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>

Copies of all the Guidance Documents can also be downloaded from the National Grid Website:

<http://www.nationalgrid.com/uk/Gas/Safety/work/downloads/>



ID: NW\_TW\_Z1\_3SWX\_413315  
 USER: nmarsden  
 DATE: 16/03/2018  
 DATA DATE: 15/03/2018  
 REF: Port Warrington East  
 MAP REF: SJ5986  
 CENTRE: 359129, 386363

View extent: 2890m, 3670m

LP MAINS	
MP MAINS	
IP MAINS	
LHP MAINS	
NHP MAINS	

0m 200m  
 Approximate scale 1:10000  
 on A3 Colour Portrait

**Map not to be used for construction**

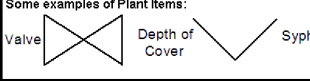
This plan shows those pipes owned by National Grid Gas plc in its role as a Licensed Gas Transporter (GT). Gas pipes owned by other GTs, or otherwise privately owned, may be present in this area. Information with regard to such pipes should be obtained from the relevant owners. The information shown 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 1 (GAS)

MAPS Plot Server Version 1.9.0

Your Gas Network

Requested by: Shepherd Gilmore Infrastructure



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

# ENQUIRY SUMMARY

## Received Date

16/03/2018

## Your Reference

Port Warrington East

## Location

Centre Point: 359128, 386362

X Extent: 1250

Y Extent: 1465

Postcode: WA4 6YZ

Location Description: Port Warrington East, Cheshire

## Map Options

Paper Size: A3

Orientation: PORTRAIT

Requested Scale: 10000

Actual Scale: 1:10000 (GAS)

Real World Extents: 2890m x 3670m (GAS)

## Recipients

[REDACTED]

## Enquirer Details

Organisation Name: Shepherd Gilmour Infrastructure

Contact Name: Natalia Marsden

Email Address: [REDACTED]

Telephone: [REDACTED]

Address: [REDACTED]

## Description of Works

Proposed industrial/commercial development

## Enquiry Type

Proposed Works

## Activity Type

Development Project

## Work Types

Work Type: Plans Only





Shepherd Gilmour  
Consulting Engineers

# APPENDIX H

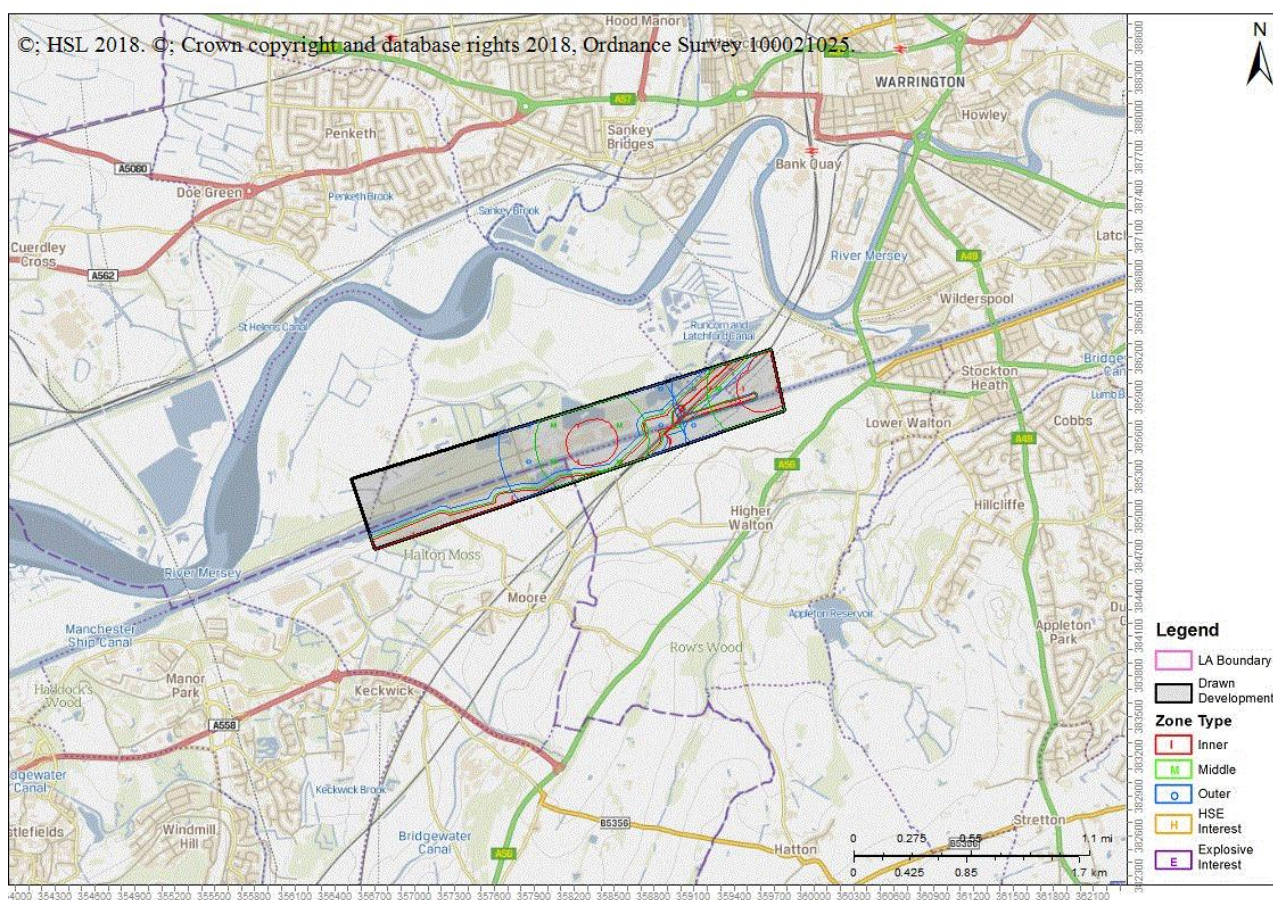
## Advice : HSL-180319151449-432 Crosses Consultation Zone

Please enter further details about the proposed development by continuing with the enquiry on the HSE's Planning Advice Web App from the Previous Enquiries tab either now or at a later time, unless the Web App has stopped the process and notified you to contact HSE.

**Your Ref:** Port Warrington Part1

**Development Name:**

**Comments:**



Commercial In Confidence

The proposed development site which you have identified currently lies within the consultation distance (CD) of at least one major hazard site and/or major accident hazard pipeline; HSE needs to be consulted on any developments on this site.

This advice report has been generated using information supplied by Dean O'Reilly at Shepherd Gilmour Infrastructure on 19 March 2018.

You will also need to contact the pipeline operator as they may have additional constraints on development near their pipeline.

- 6710\_ Sabic UK Petrochemicals Ltd
- 6772\_1056 Cadent Gas Ltd

- 6773\_1057 Cadent Gas Ltd
- 6783\_1064 Cadent Gas Ltd

HSL/HSE accepts no liability for the accuracy of the pipeline routing data received from a 3rd party. HSE/HSL also accepts no liability if you do not consult with the pipeline operator.

You may wish to contact HSE's Planning Advice team to discuss the above enquiry result on [REDACTED] or by email at [REDACTED]

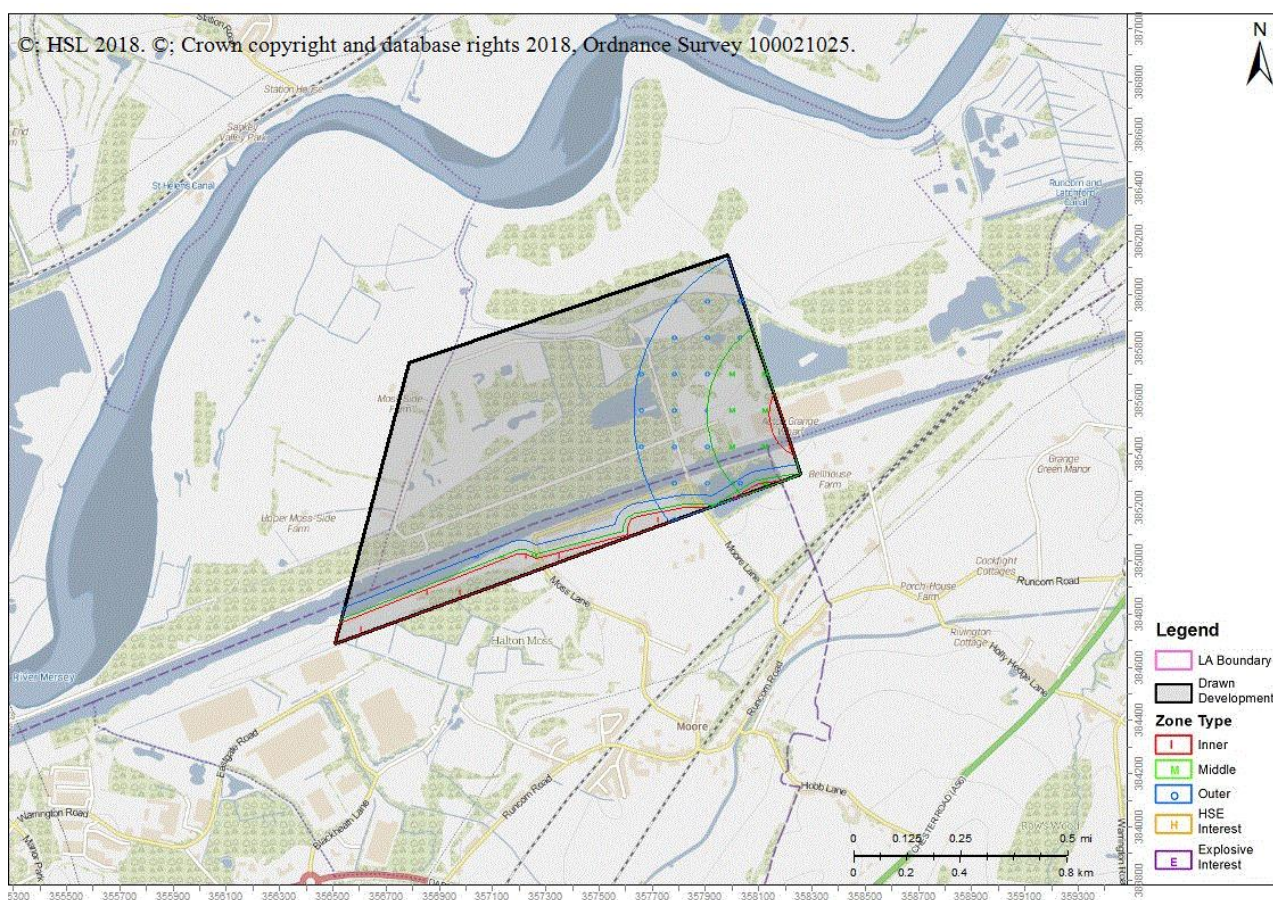
## Advice : HSL-180319151708-432 Crosses Consultation Zone

Please enter further details about the proposed development by continuing with the enquiry on the HSE's Planning Advice Web App from the Previous Enquiries tab either now or at a later time, unless the Web App has stopped the process and notified you to contact HSE.

**Your Ref:** Port Warrington Part2

**Development Name:**

**Comments:**



Commercial In Confidence

The proposed development site which you have identified currently lies within the consultation distance (CD) of at least one major hazard site and/or major accident hazard pipeline; HSE needs to be consulted on any developments on this site.

This advice report has been generated using information supplied by Dean O'Reilly at Shepherd Gilmour Infrastructure on 19 March 2018.

You will also need to contact the pipeline operator as they may have additional constraints on development near their pipeline.

- 6710\_ Sabic UK Petrochemicals Ltd

HSL/HSE accepts no liability for the accuracy of the pipeline routing data received from a 3rd party. HSE/HSL also accepts no liability if you do not consult with the pipeline operator.

You may wish to contact HSE's Planning Advice team to discuss the above enquiry result on [REDACTED] or by email at [REDACTED]

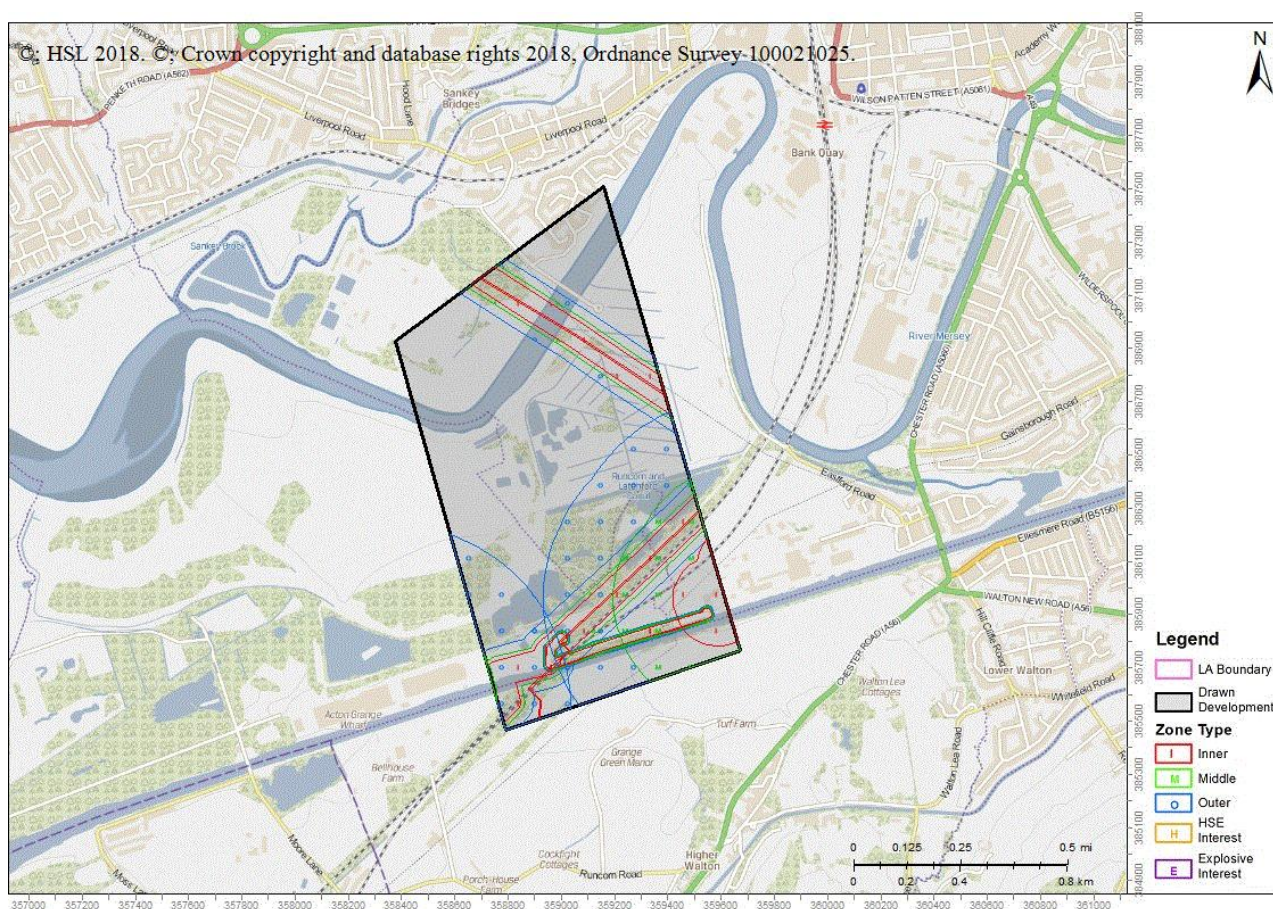
## Advice : HSL-180319151855-432 Crosses Consultation Zone

Please enter further details about the proposed development by continuing with the enquiry on the HSE's Planning Advice Web App from the Previous Enquiries tab either now or at a later time, unless the Web App has stopped the process and notified you to contact HSE.

**Your Ref:** Port Warrington Part3

**Development Name:**

**Comments:**



Commercial In Confidence

The proposed development site which you have identified currently lies within the consultation distance (CD) of at least one major hazard site and/or major accident hazard pipeline; HSE needs to be consulted on any developments on this site.

This advice report has been generated using information supplied by Dean O'Reilly at Shepherd Gilmour Infrastructure on 19 March 2018.

You will also need to contact the pipeline operator as they may have additional constraints on development near their pipeline.

- 6710\_ Sabic UK Petrochemicals Ltd
- 6772\_1056 Cadent Gas Ltd

- 6773\_1057 Cadent Gas Ltd
- 6783\_1064 Cadent Gas Ltd

HSL/HSE accepts no liability for the accuracy of the pipeline routing data received from a 3rd party. HSE/HSL also accepts no liability if you do not consult with the pipeline operator.

You may wish to contact HSE's Planning Advice team to discuss the above enquiry result on [REDACTED] or by email at [REDACTED]

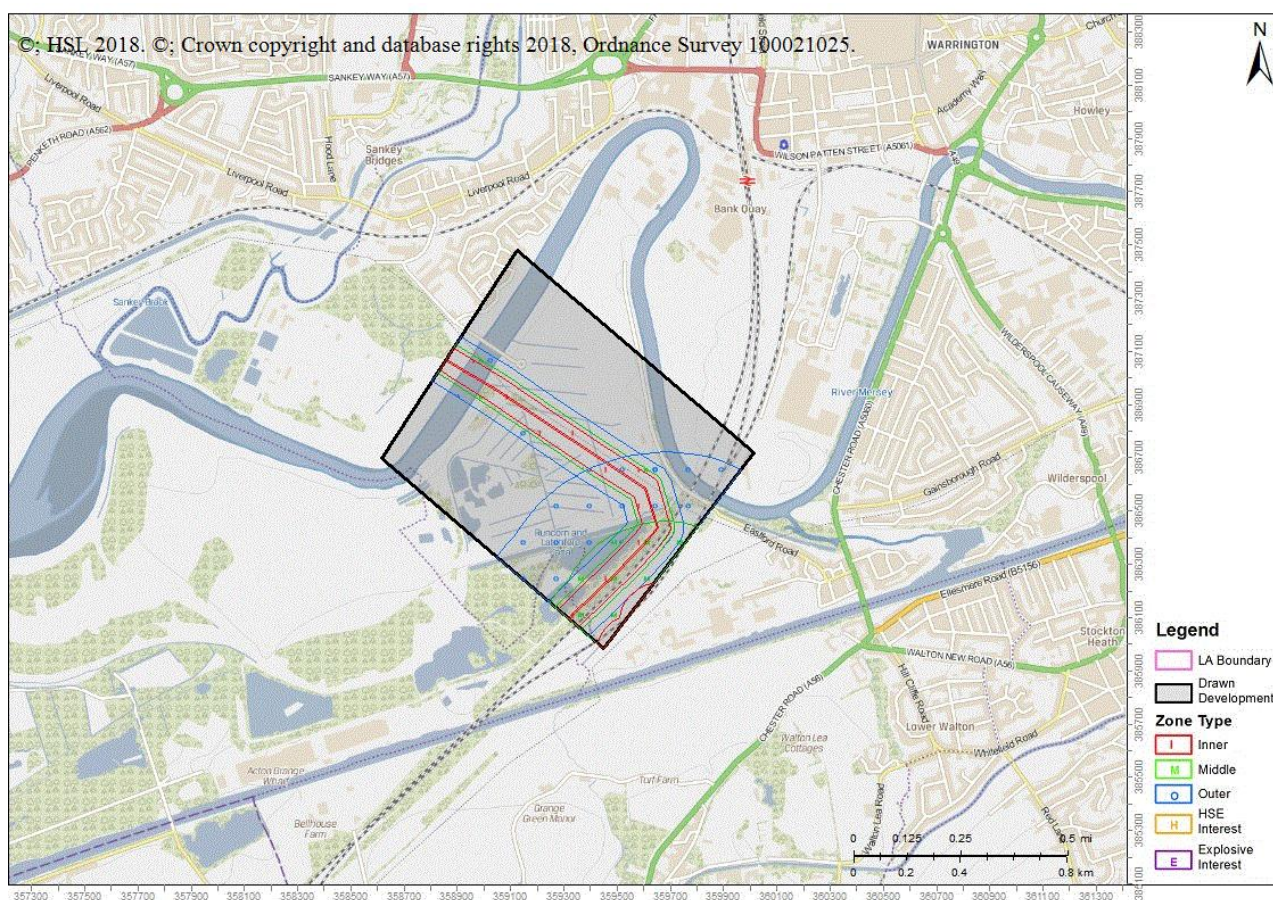
## Advice : HSL-180319152016-432 Crosses Consultation Zone

Please enter further details about the proposed development by continuing with the enquiry on the HSE's Planning Advice Web App from the Previous Enquiries tab either now or at a later time, unless the Web App has stopped the process and notified you to contact HSE.

**Your Ref:** Port Warrington Part4

**Development Name:**

**Comments:**



### Commercial In Confidence

The proposed development site which you have identified currently lies within the consultation distance (CD) of at least one major hazard site and/or major accident hazard pipeline; HSE needs to be consulted on any developments on this site.

This advice report has been generated using information supplied by Dean O'Reilly at Shepherd Gilmour Infrastructure on 19 March 2018.

You will also need to contact the pipeline operator as they may have additional constraints on development near their pipeline.

- 6710\_ Sabic UK Petrochemicals Ltd
- 6783\_1064 Cadent Gas Ltd



HSL/HSE accepts no liability for the accuracy of the pipeline routing data received from a 3rd party. HSE/HSL also accepts no liability if you do not consult with the pipeline operator.

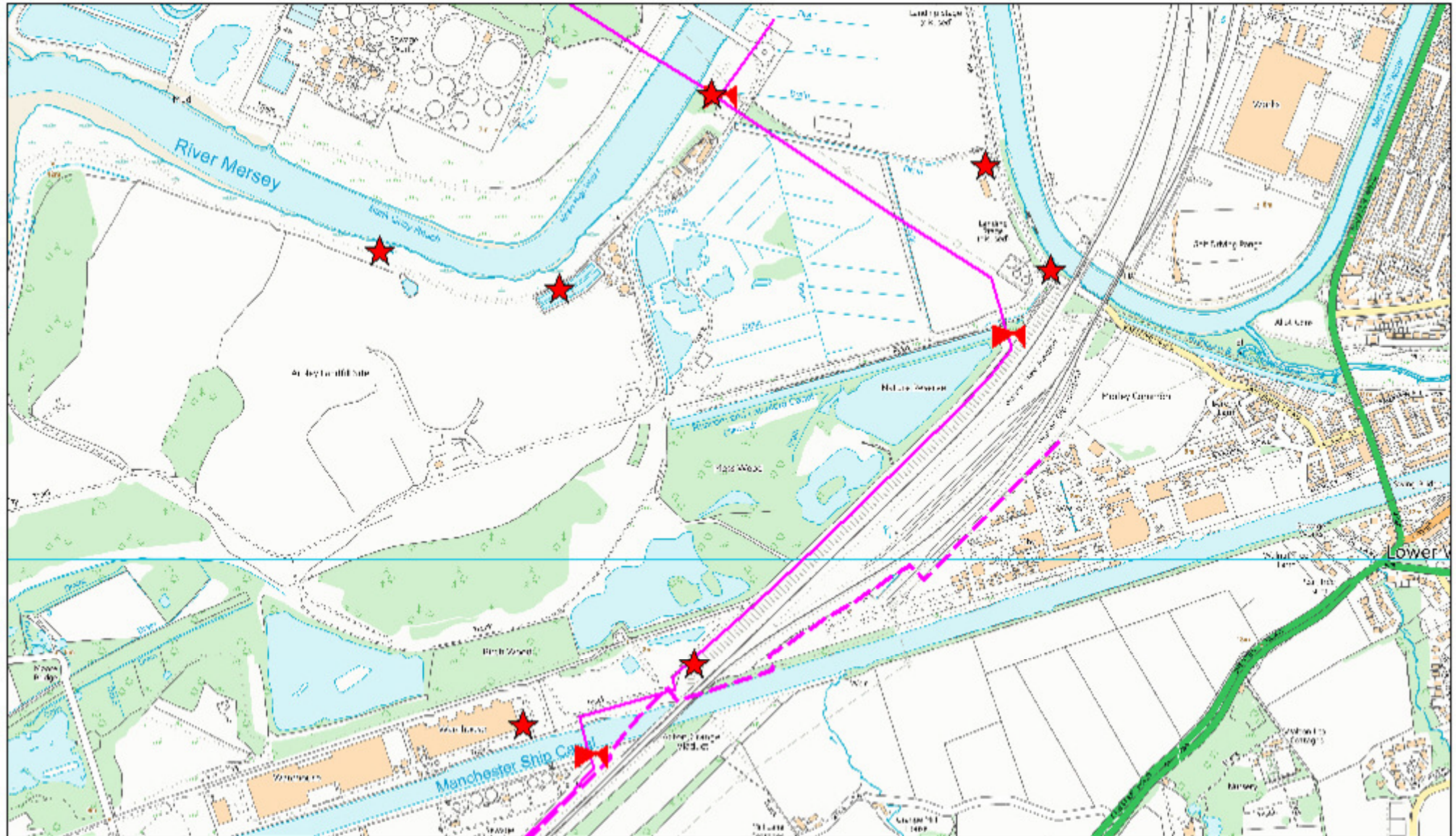
You may wish to contact HSE's Planning Advice team to discuss the above enquiry result on [REDACTED] or by email at [REDACTED]



Shepherd Gilmour  
Consulting Engineers

# APPENDIX I





**REMEMBER :**  
**PHONE BEFORE**  
**STARTING WORK**

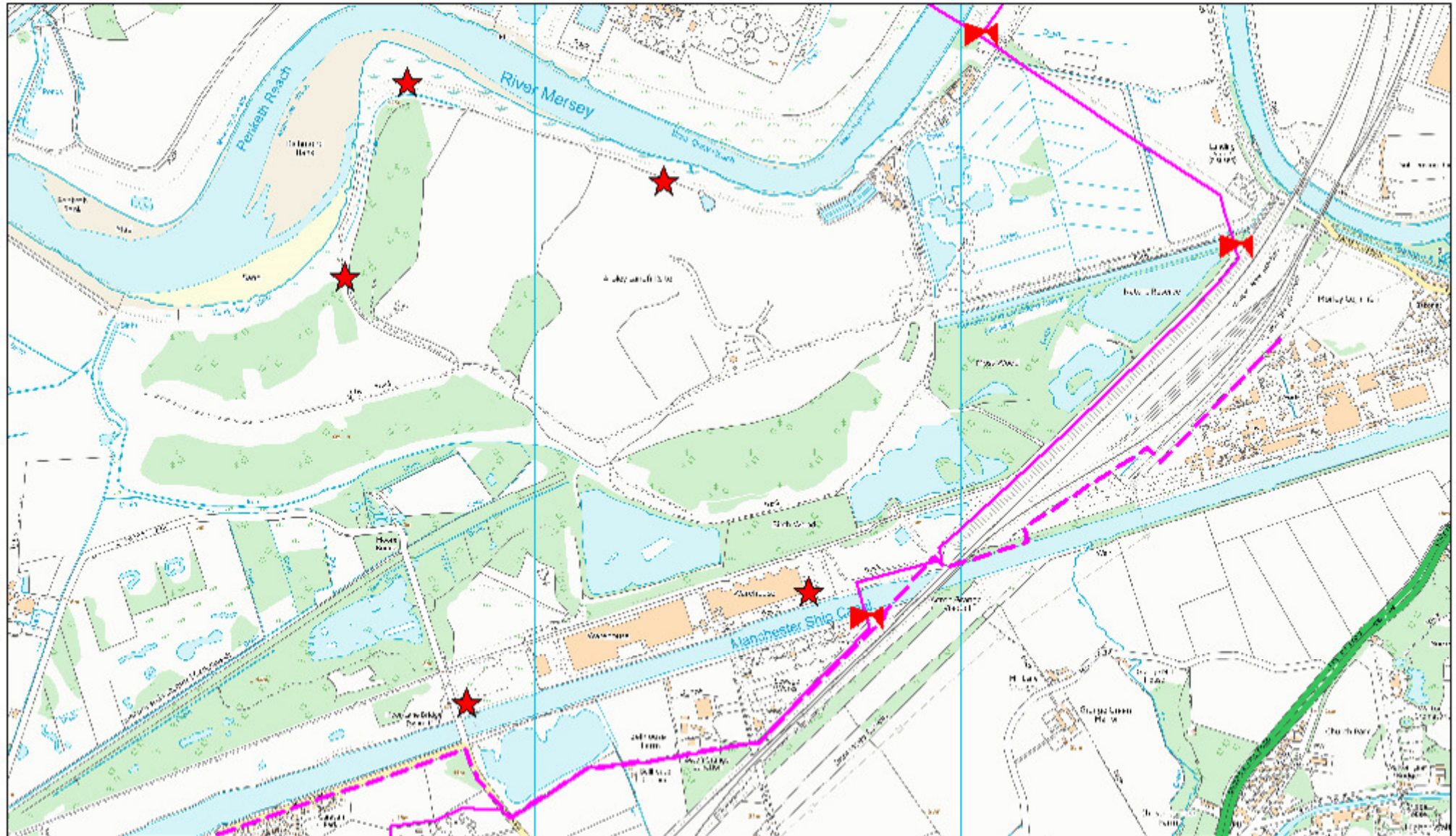
- Route of SABIC 8" High Pressure Ethylene Pipeline
- - - - - Route of INEOS Hydrogen Pipeline apparatus which we maintain on their behalf

**★** Linesearch enquiry co-ordinates. LSBUD-180315-12432718  
 Your ref: Port Warrington East  
**PLEASE CONTACT THIS OFFICE WITH FURTHER DETAILS BEFORE COMMENCING WORK AT THIS SITE**

This plan shows the approximate location of SABIC apparatus and is provided for guidance purposes only



Produced by SABIC Pipeline Office (c) 2018  
 Digital Map Data (c) Crown Copyright 2018 Licence AL 100013392



**REMEMBER :**  
**PHONE BEFORE**  
**STARTING WORK**

- Route of SABIC 8" High Pressure Ethylene Pipeline
- Route of INEOS Hydrogen Pipeline apparatus which we maintain on their behalf
- Linesearch enquiry co-ordinates. LSBUD-180315-12432768  
 Your ref. Port Warrington Centre  
 PLEASE CONTACT THIS OFFICE WITH FURTHER DETAILS

This plan shows the approximate location of SABIC apparatus and is provided for guidance purposes only

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 Digital Map Data (c) Crown Copyright 2018 Licence AL 100013392

