



Long Goss, Little Somerford

## Surface Water Drainage Strategy

**degadea**  
water, civils and environment

Site Address: Long Goss,  
Swindon Road,  
Little Somerford,  
Chippenham,  
SN15 5BW

UK Experts in Flood Modelling, Flood Risk  
Assessments, and Surface Water Drainage Strategies

**degadea**  
water, civils and environment

# Document Issue Record

**Project:** Surface Water Drainage Strategy

**Prepared for:** Ed Greening

**Reference:** 9241\_SN15\_Little Somerford\_07

**Site Location:** Long Goss, Swindon Road, Little Somerford, Chippenham, SN15 5BW.

| Issue | Date       | Author        | Check         | Auth.         | Comments            |
|-------|------------|---------------|---------------|---------------|---------------------|
| 1     | 11/12/2025 | Ceri Metcalfe | Daniel Buciak | James Mahoney | First issue         |
| 2     | 16/02/2026 | Ceri Metcalfe | Daniel Buciak | Daniel Buciak | Updated Site Layout |

**Please Note:**

This report has been prepared for the exclusive use of the commissioning party and may not be reproduced without prior written permission from Aegaea Civil Engineering Limited. All work has been carried out within the terms of the brief using all reasonable skill, care, and diligence. No liability is accepted by Aegaea Civil Engineering Limited for the accuracy of data or opinions provided by others in the preparation of this report, or for any use of this report other than for the purpose for which it was produced. Where reference has been made to probability events, or risk probability, it does not ensure that there is no risk or that there is no residual risk from an extreme, unlikely or unforeseen flood event over the lifetime of the development.

# Table of Contents

|                                                                     |           |
|---------------------------------------------------------------------|-----------|
| <b>1. Introduction.....</b>                                         | <b>1</b>  |
| Site Overview.....                                                  | 1         |
| Development Proposals.....                                          | 2         |
| Ground Conditions .....                                             | 3         |
| <b>2. Surface Water Drainage Strategy.....</b>                      | <b>4</b>  |
| Existing Drainage System .....                                      | 4         |
| Proposed Drainage Hierarchy .....                                   | 4         |
| Runoff Rates.....                                                   | 5         |
| Proposed Drainage Strategy .....                                    | 6         |
| <b>3. Future Maintenance Strategy .....</b>                         | <b>7</b>  |
| Permeable Paving .....                                              | 8         |
| Attenuation Basin.....                                              | 9         |
| <b>4. Pollution Prevention &amp; Water Quality Management .....</b> | <b>11</b> |
| SuDS Mitigation Indices.....                                        | 11        |
| <b>Appendix A - Topographical Survey .....</b>                      | <b>13</b> |
| <b>Appendix B - Wessex Water Asset Mapping .....</b>                | <b>14</b> |
| <b>Appendix C - Proposed Site Layout .....</b>                      | <b>15</b> |
| <b>Appendix D - Infiltration Tests.....</b>                         | <b>16</b> |
| <b>Appendix E - Proposed Drainage Layout .....</b>                  | <b>17</b> |
| <b>Appendix F - Drainage Calculations .....</b>                     | <b>18</b> |

# 1. Introduction

- 1.1. Aegaea were commissioned by the Developer to prepare a Drainage Strategy to support the discharge of conditions 6 and 7 respectively associated with planning references PL/2024/11637 at the below address.

## Site Overview

- 1.2. The site of the proposed development is Long Goss, Swindon Road, Little Somerford, Chippenham, SN15 5BW.

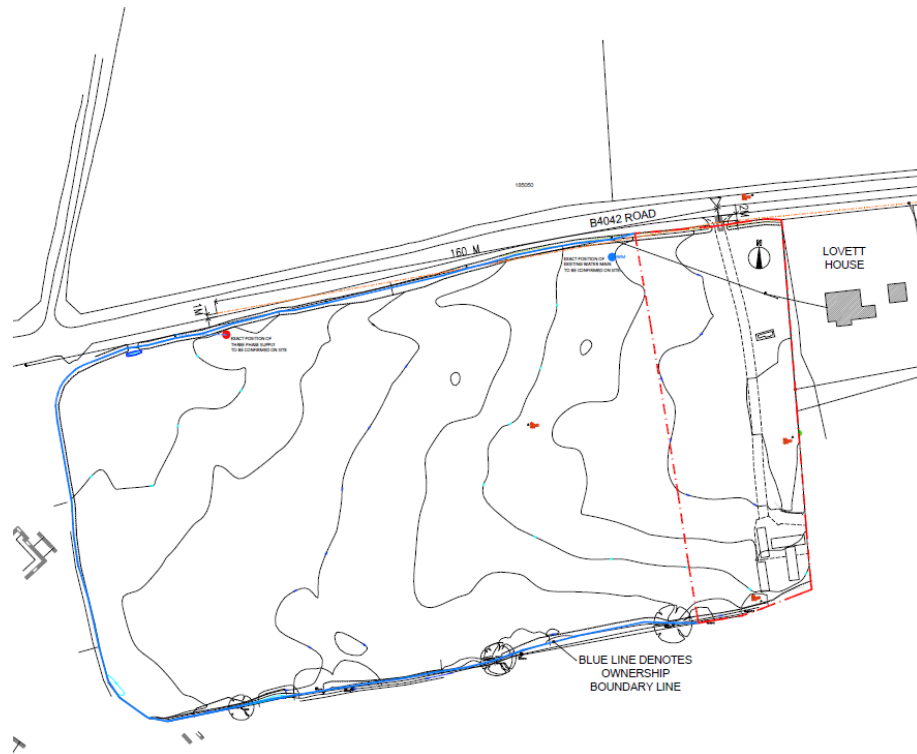


Figure 1: Site Location

- 1.3. The proposed development site measures approximately 4,965m<sup>2</sup> (0.497ha), situated and accessed from Swindon Road (B4042) to the north of the site.

- 1.4. The topographical survey is included in Appendix A, which illustrates that existing site levels vary between 97.87m Above Ordnance Datum (AOD) east of the site and 96.00m AOD to the south.
- 1.5. Wiltshire Council is the Local Planning Authority (LPA) and designated Lead Local Flood Authority (LLFA) for the site.
- 1.6. Wessex Water are the Sewerage Undertaker for the area. Wessex Water's asset mapping is included within Appendix B.

- 1.7. It is understood that temporary accommodation is to be located onsite during the construction phase of the development.
- 1.8. The proposed development comprises of the erection of a for the erection of a self-build dwelling, new workshop and associated access and landscaping works.
- 1.9. The proposed development layout can be seen in Figure 2 below and is contained within Appendix C.

Figure 2: Proposed Site Plan

## Ground Conditions

- 1.10. A review of readily available information indicates that the site is in an area of Slowly permeable seasonally wet slightly acid but base-rich loamy and clayey soils with impeded drainage (Soilscapes soil types viewer). British Geological Survey (BGS) data indicates that the bedrock underlying the site is Oxford Clay Formation – Mudstone.
- 1.11. Infiltration testing to BRE365 was undertaken on site by CLEAR in November 2025 at 4 no. trial pit locations across the site. The infiltration testing encountered Sandy and Gravely Clay throughout the trial pits. Insufficient soakage was recorded over the monitoring period within the test pits to enable infiltration rates to be calculated.
- 1.12. A copy of the infiltration tests is contained in Appendix D.
- 1.13. Based on the above, it is considered that the disposal of surface water via infiltration is not feasible and an alternative strategy in line with the SuDS hierarchy is to be sought.

## 2. Surface Water Drainage Strategy

### Existing Drainage System

- 2.1. No information regarding the existing on-site surface water drainage system has been provided, however, it is assumed that there are no formal drainage arrangements on-site and surface water drainage currently discharges naturally via overland flow routes.

### Proposed Drainage Hierarchy

- 2.2. Current guidance indicates that the following surface water disposal options should be considered, listed in order of preference:
- i. **Disposal via rainwater harvesting:** It is proposed that a rainwater harvesting tank is to be located onsite.
  - ii. **Disposal via on-site infiltration systems:** As mentioned above, infiltration has been discounted due to unfavourable ground condition.
  - iii. **Disposal to a watercourse/surface water body:** There is an existing dry pond/ditches that run along the southern boundary of the site, which is proposed to be the discharge point for surface water flows from the development. It is proposed to utilise an existing onsite connection into the pond.
  - iv. **Disposal to surface water sewer:** There are no public surface water sewers within the proximity of the proposed development.
  - v. **Disposal to combined sewer:** There are no public combined sewers within the proximity of the proposed development.
- 2.3. In accordance with the SuDS hierarchy, it is proposed that surface water flows are to discharge at a controlled rate into the existing ditch along the southern site boundary.

## Runoff Rates

- 2.4. An assessment of greenfield runoff rates based on the proposed development drainage catchment areas for the fixed development (circa 671.5m<sup>2</sup>) was made using the pre-development calculator in Causeway Flow software based on the input parameters shown in Figure 3 below.

Pre-development discharge

Site Makeup: Greenfield

Greenfield Method: IH124

Positively Drained Area (ha): 0.067

SAAR (mm): 739

Soil Index: 1

SPR: 0.47

Region: 1

Betterment (%): 0

Calc

QBar (l/s): 0.3

| Return Period (years) | Growth Factor | Q (l/s) |
|-----------------------|---------------|---------|
| 1                     | 0.85          | 0.3     |
| 30                    | 1.99          | 0.7     |
| 100                   | 2.48          | 0.9     |

Figure 3: Extract from Causeway Flow Greenfield Runoff Rate Calculator

- 2.5. The greenfield runoff rates for the proposed development site are set out in the Table 1 below.

| Return Period          | Greenfield Runoff Rate |
|------------------------|------------------------|
| <b>Q<sub>BAR</sub></b> | 0.3 l/s                |
| <b>1 in 1 Year</b>     | 0.3 l/s                |
| <b>1 in 30 Year</b>    | 0.7 l/s                |
| <b>1 in 100 Year</b>   | 0.9 l/s                |

Table 1: Greenfield Runoff Rates

- 2.6. The table above shows that due to the small nature of the proposed development and the associated soil class type, greenfield runoff rates are extremely low.
- 2.7. Where a site is below 1ha and greenfield runoff rates are low, it is considered that 1 l/s forms a practical minimum flow rate that balances and mitigates both the increased flood risk and blockage risk to the proposed drainage system. It is therefore proposed to restrict flows to 1 l/s as an appropriate minimum flow for small sites.

## Proposed Drainage Strategy

- 2.8. The use of permeable paving for hardstanding areas is proposed to filter water and improve water quality of surface water flows arising from these hardstanding areas.
- 2.9. An attenuation pond is proposed to the south of the pond to treat surface water flows and provide attenuation prior to discharge at a controlled rate.
- 2.10. All on site drainage has been designed to accommodate surface water runoff including all modelled 1 in 100-year storms plus 45% climate change.
- 2.11. The proposed drainage layout can be found within Appendix E with supporting drainage calculations can be found in Appendix F.

### 3. Future Maintenance Strategy

#### General Maintenance

- 3.1. The surface water drainage network will be managed throughout the lifetime by the owners of the proposed development in accordance with details set out below.
- 3.2. All drainage, whether piped or SuDS require regular maintenance. The tables below provide an overview of general maintenance tasks and frequency of which they need to be undertaken.

| Maintenance Schedule   | Required Action                                                                                          | Typical frequency                              |
|------------------------|----------------------------------------------------------------------------------------------------------|------------------------------------------------|
| Regular Maintenance    | Inspect for sediment and debris in catchpit manholes and gullies. Clean out as required                  | Twice Annually                                 |
|                        | Cleaning of gutters and any filters on downpipes                                                         | Annually (or as required based on inspections) |
|                        | Trimming any roots that may be causing blockages                                                         | Annually (or as required)                      |
| Occasional Maintenance | Remove sediment and debris in catchpits, gullies, attenuation devices and inside concrete manhole rings. | As required, based on inspections.             |
| Remedial actions       | Reconstruct and/or replace components, if performance deteriorates or failure/blockage occurs.           | As required                                    |
|                        | Replacement of clogged components (flow restriction)                                                     | As required                                    |
| Monitoring             | Inspect silt traps/gullies/catchpits and note rate of sediment accumulation.                             | Monthly in the first year and then annually    |
|                        | Check attenuation devices                                                                                | Annually                                       |

General maintenance for Surface Water Drainage Systems as per CIRIA C753.

- 3.3. The required maintenance for each component making up the drainage system is scheduled in the tables below, based on CIRIA report C753 – The SuDS manual.

## Permeable Paving

| Maintenance Schedule   | Required Action                                                                                                                                                                        | Typical Frequency                                                                                                                                                                                                                                                                                                             |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Regular Maintenance    | Regular raking to ensure even spread and smooth surface, may require additional top up.                                                                                                | Once a year, after autumn leaf fall, or reduced frequency as required, based on site-specific observations of clogging or manufacturer's recommendations – pay particular attention to areas where water runs onto pervious surface from adjacent impermeable areas as this area is most likely to collect the most sediment. |
| Occasional Maintenance | Stabilise and mow contributing and adjacent areas                                                                                                                                      | As required                                                                                                                                                                                                                                                                                                                   |
|                        | Removal of weeds or management using glyphosate applied directly into the weeds by an applicator rather than spraying.                                                                 | As required – once per year on less frequently used pavements                                                                                                                                                                                                                                                                 |
| Remedial Maintenance   | Remediate any landscaping which, through vegetation maintenance or soil slip, has been raised to within 50mm of the level of the paving.                                               | As required                                                                                                                                                                                                                                                                                                                   |
|                        | Remediate work to any depressions, rutting and cracked or broken blocks considered detrimental to the structural performance or a hazard to users, and replace lost jointing material. | As required                                                                                                                                                                                                                                                                                                                   |
|                        | Rehabilitation of surface and upper substructure by remedial sweeping                                                                                                                  | Every 10 to 15 years or as required (if infiltration performance is                                                                                                                                                                                                                                                           |
| Monitoring             | Initial inspection                                                                                                                                                                     | Monthly for three months after installation                                                                                                                                                                                                                                                                                   |
|                        | Inspect for evidence of poor operation and/or weed growth – if required, take remedial action.                                                                                         | Three-monthly, 48 hr after large storms in the first six months                                                                                                                                                                                                                                                               |
|                        | Inspect silt accumulation rates and establish appropriate brushing frequencies                                                                                                         | Annually                                                                                                                                                                                                                                                                                                                      |
|                        | Monitor inspection chambers                                                                                                                                                            | Annually                                                                                                                                                                                                                                                                                                                      |

## Attenuation Basin

| Maintenance Schedule   | Required Action                                                                                                                                                                                                                                                                          | Typical Frequency                                                                                                           |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Regular Maintenance    | Remove litter and debris, cut grass access routes and around the basin. Inspect inlets and overflows for silt accumulation/blockages and clear if required, establish appropriate silt removal frequencies. Inspect banksides, structures, pipework etc for evidence of physical damage. | Monthly, during growing season or as required. Grass around the basin to be cut in spring before nesting season and autumn. |
|                        | Tidy all dead growth before start of growing season. Remove sediment from inlet.                                                                                                                                                                                                         | Annually, or as required                                                                                                    |
| Occasional Maintenance | Reseed areas of poor vegetation growth                                                                                                                                                                                                                                                   | As required                                                                                                                 |
|                        | Remove sediment from inlets and main basin when required.                                                                                                                                                                                                                                | Every 5 years, or as required                                                                                               |
| Remedial Maintenance   | Repair erosions or other damage by reseedling or returfing.                                                                                                                                                                                                                              | As required                                                                                                                 |
|                        | Realignment of riprap                                                                                                                                                                                                                                                                    | As required                                                                                                                 |
|                        | Repair / rehabilitate inlets                                                                                                                                                                                                                                                             | As required                                                                                                                 |
|                        | Relevel uneven surfaces and reinstate design levels                                                                                                                                                                                                                                      | As required                                                                                                                 |

## Orifice Plate (Flow Control)

| Maintenance Schedule | Required Action                                                                                                                                                                                    | Typical frequency                                  |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|
| Regular Maintenance  | Remove sediment and debris from flow control chambers and upstream manholes.<br>Check for signs of damage, wear and tear.<br>Check any visible fixing bolts.                                       | Monthly (for the first 12 months, then 6 monthly). |
| Remedial Actions     | Clean or replace orifice plate if defects are located or, if performance deteriorates or failure occurs.<br>In the event of the blockage, the blockage/foreign material should be manually removed | As necessary.                                      |
| Monitoring           | Check flow control to ensure emptying is occurring.                                                                                                                                                | Quarterly and post high intensity storm event.     |

## Headwalls (inlets and outlets)

| Maintenance Schedule   | Required Action                                                                        | Typical frequency                                       |
|------------------------|----------------------------------------------------------------------------------------|---------------------------------------------------------|
| Regular Maintenance    | Inspect inlets, outlets for blockages and clear if required                            | Monthly (for the first 12 months, then 6 monthly).      |
|                        | Check for signs of damage, erosion of banks or scour.                                  |                                                         |
|                        | Inspect structural integrity of head wall structure                                    |                                                         |
|                        | Check integrity of metal work and replace when needed.                                 |                                                         |
| Occasional Maintenance | In the event of the blockage, the blockage/foreign material should be manually removed | Annual/bi-annual visual checks are basic recommendation |
|                        | Galvanised Grates and Handrails                                                        |                                                         |
| Remedial Actions       | In the event of damage, erosion of banks or scour, rehabilitate as required.           | As required                                             |
|                        | Repair/rehabilitation of inlets/outlets/overflows                                      | As required                                             |
|                        | Re-level uneven surfaces and reinstate design levels                                   | As required                                             |

## 4. Pollution Prevention & Water Quality Management

### SuDS Mitigation Indices

- 4.1. Chapter 26 of the CIRIA C753 The SuDS Manual, provides design advice to meet water quality standards by adopting the SuDS train treatment mechanism and thereby reduce the risk of pollution by evaluating potential pollution hazards at the outset.
- 4.2. The proposed site layout provides the opportunity to introduce SuDS into the scheme to reduce potential contaminant risk further.
- 4.3. Runoff from individual property driveways, residential car parks and low traffic roads are generally viewed as low risk (as per Table 26.2 of C753), shown in the tables below.

| Land Use                                                                   | Pollution Hazard Level | Total Suspended Solids (TSS) | Metals | Hydrocarbons |
|----------------------------------------------------------------------------|------------------------|------------------------------|--------|--------------|
| Individual property driveways, residential car parks and low traffic roads | Low                    | 0.5                          | 0.4    | 0.4          |

Pollutant Hazard Indices

|                                             | Mitigation Indices |        |              |      | Indices for Calculation                           |        |              |
|---------------------------------------------|--------------------|--------|--------------|------|---------------------------------------------------|--------|--------------|
|                                             | TSS                | Metals | Hydrocarbons |      | TSS                                               | Metals | Hydrocarbons |
| Permeable Paving                            | 0.7                | 0.6    | 0.7          | 100% | 0.7                                               | 0.6    | 0.7          |
| Total Mitigation Indices score              |                    |        |              |      | 0.7                                               | 0.6    | 0.7          |
| Sufficiency of Pollution Mitigation Indices |                    |        |              |      | Sufficient<br>(No additional mitigation required) |        |              |

SuDS Mitigation Indices

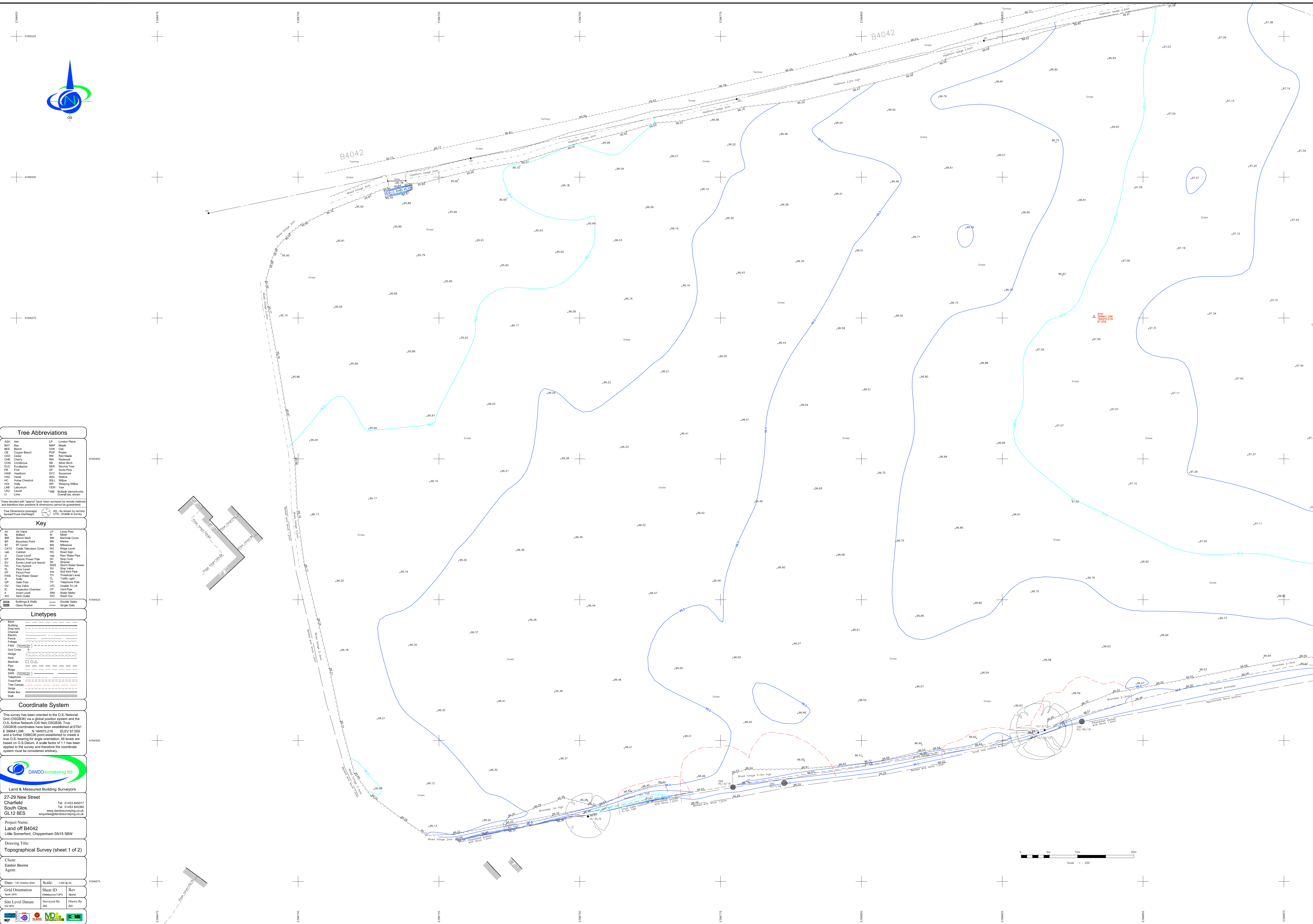
| Land Use                       | Pollution Hazard Level | Total Suspended Solids (TSS) | Metals | Hydrocarbons |
|--------------------------------|------------------------|------------------------------|--------|--------------|
| Residential Roofs              | Very Low               | 0.2                          | 0.2    | 0.05         |
| Total Pollutant Hazard Indices |                        | 0.2                          | 0.2    | 0.05         |

Pollutant Hazard Indices

| SuDS Feature                                | Mitigation Indices |        |              |      | Indices for Calculation                           |        |              |
|---------------------------------------------|--------------------|--------|--------------|------|---------------------------------------------------|--------|--------------|
|                                             | TSS                | Metals | Hydrocarbons |      | TSS                                               | Metals | Hydrocarbons |
| Attenuation/Detention Basin                 | 0.5                | 0.5    | 0.6          | 100% | 0.5                                               | 0.5    | 0.6          |
| Total Mitigation Indices score              |                    |        |              |      | 0.5                                               | 0.5    | 0.6          |
| Sufficiency of Pollution Mitigation Indices |                    |        |              |      | Sufficient<br>(No additional mitigation required) |        |              |

- 4.4. The mitigation indices offered by the proposed SuDS features exceed the hazard indices from roof areas and property driveways, therefore provides adequate mitigation. It is therefore considered that the proposed SuDS features on site are appropriate and acceptable in terms of water quality.

# Appendix A - Topographical Survey



|     |                |      |                      |
|-----|----------------|------|----------------------|
| ASH | Ash            | LP   | London Plane         |
| BAR | Bay            | MAP  | Maple                |
| BEE | Beech          | OK   | Oak                  |
| CB  | Copper Beech   | POP  | Poplar               |
| CED | Cedar          | RM   | Red Maple            |
| CHE | Cherry         | RWD  | Redwood              |
| COR | Coniferous     | SB   | Silver Birch         |
| EUC | Eucalyptus     | SER  | Service Tree         |
| FRN | Fruit          | SP   | Scots Pine           |
| HAW | Hawthorn       | SYC  | Sycamore             |
| HAZ | Hazel          | WAL  | Walnut               |
| HC  | Horse Chestnut | WIL  | Willow               |
| HOL | Holly          | WW   | Weeping Willow       |
| LAB | Laburnum       | YEW  | Yew                  |
| LAU | Laurel         | **MS | Multiple stems/trunk |
| LI  | Lime           |      | Overall dia. shown   |

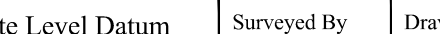
| Key  |                         |    |                   |
|------|-------------------------|----|-------------------|
| AV   | Air Valve               | LP | Lamp Post         |
| BL   | Bollard                 | M  | Meter             |
| BM   | Bench Mark              | MM | Manhole Cover     |
| BP   | Boundary Point          | MK | Marker            |
| BT   | BT Cover                | MS | Milestone         |
| CATV | Cable Television Cover  | RG | Ridge Level       |
| cab  | Cabinet                 | RS | Roast Sign        |
| CD   | Cover                   | SW | Swamp Water Pipe  |
| cap  | Electric Power Pole     | SC | Stop Cook         |
| EV   | Eaves Level (see T6904) | SV | Strainer          |
| FL   | Flow                    | SW | Swamp Water Sewer |
| FL   | Floor Level             | SV | Stop Valve        |
| FS   | Feed Water Pipe         | TH | Threshold Level   |
| FWS  | Flood Water Stop        | TL | Traffic Light     |
| G    | Gully                   | TP | Telephone Pole    |
| GP   | Gas Post                | U  | Unleak To Top     |
| GC   | Gas Cover               | VV | Valve Pipe        |
| IC   | Inspection Chamber      | WM | Water Meter       |
| I    | Invert Level            | W  | Water             |
| K    | Kerb                    | Wt | Weight            |

## Linetypes

|                          |  |
|--------------------------|--|
| Blank                    |  |
| Building                 |  |
| Drop head                |  |
| Channel                  |  |
| Electric                 |  |
| Fence                    |  |
| Foliage                  |  |
| FVLS (Framed line style) |  |
| Grid                     |  |
| Grid Cross               |  |
| Hedge                    |  |
| Kerf                     |  |
| Manhole                  |  |
| Pipe                     |  |
| Ridge                    |  |
| GRID (Framed line style) |  |
| Telephone                |  |
| Track/Path               |  |
| Tree Grassy              |  |
| Verge                    |  |
| Water line               |  |
| Wout                     |  |

### Coordinate System

This survey has been oriented to the U.S. National Grid (OSGB36) via a global position system and the U.S. Active Network (OS Net) OSGB36. True OSGB36 coordinates have been established at STN1 E 98481.296 N 184975.218 ELEV 97.059 and a further OSGB36 point established to create a true U.S. bearing for angle orientation. All levels are based on U.S. Datum. A scale factor of 1:1 has been applied to the survey and therefore the coordinate system must be considered arbitrary.

|                                                                                                                                                    |  |                                                                                                                                                                                                        |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
|  <b>DANDO Surveying Ltd</b><br>Land & Measured Building Surveyors |  |                                                                                                                                                                                                        |  |
| <b>27-29 New Street<br/>Globe<br/>Solihull,<br/>GL14 8ES</b>                                                                                       |  | Tel: 01453 650517<br>Tel: 01453 843000<br><a href="http://www.dandosurveying.co.uk">www.dandosurveying.co.uk</a><br><a href="mailto:enquiries@dandosurveying.co.uk">enquiries@dandosurveying.co.uk</a> |  |
| <b>Project Name:</b><br><b>Land off B4042</b><br>Little Somerford, Chippingham SN15 5BW                                                            |  |                                                                                                                                                                                                        |  |
| <b>Drawing Title:</b><br><b>Topographical Survey (sheet 1 of 2)</b>                                                                                |  |                                                                                                                                                                                                        |  |
| <b>Client:</b><br>Easton Bevings Agency                                                                                                            |  |                                                                                                                                                                                                        |  |
| <b>Date:</b> 01 October 2024 <b>Scale:</b> 1:200 @ A3                                                                                              |  |                                                                                                                                                                                                        |  |
| <b>Grid Information</b><br>North = 23                                                                                                              |  | <b>Sheet ID</b><br>D23BareSurvey230                                                                                                                                                                    |  |
| <b>Site Level Datum</b><br>Mean Sea Level                                                                                                          |  | <b>Drawn by</b><br>AH                                                                                                                                                                                  |  |
| <b>Checked by</b><br>AH                                                                                                                            |  | <b>Plotted by</b><br>AH                                                                                                                                                                                |  |
|                                                                  |  |                                                                                                                                                                                                        |  |



## Appendix B - Wessex Water Asset Mapping

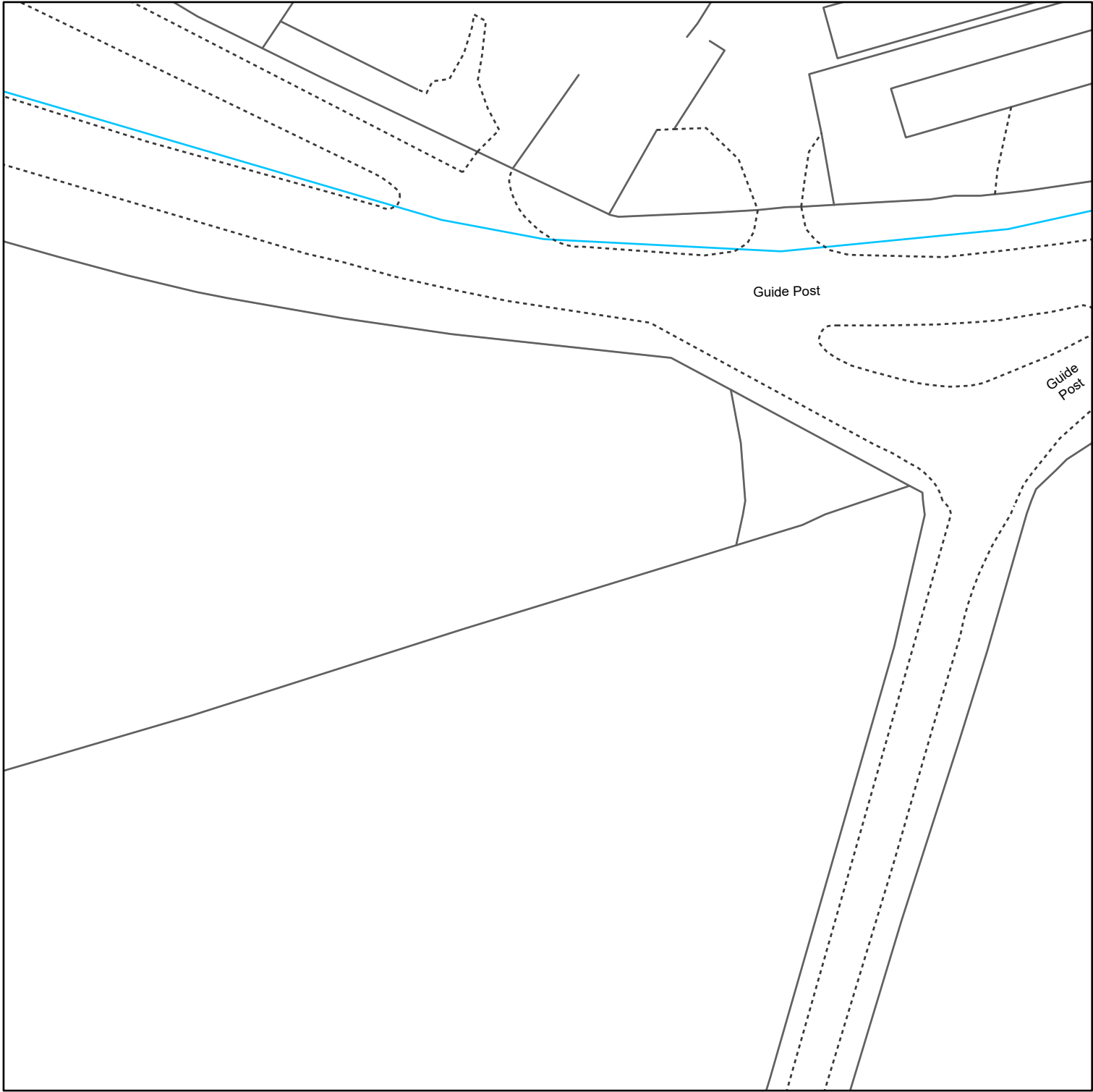
# Wessex Water Network Map



Reproduced from the Ordnance Survey map with the permission of the Controller of His Majesty's Stationery Office. © Crown copyright and database rights (2025) OS AC0000848304

| WATER MAINS                                                                    |              | SEWERS                                                                                                                                                                       |                          | STRATEGIC PUBLIC |                           | PRIVATE |                             | SECTION 104 |          | OTHER WESSEX PIPES |                       | NON-WESSEX / UNKNOWN |                       |  |                |
|--------------------------------------------------------------------------------|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|------------------|---------------------------|---------|-----------------------------|-------------|----------|--------------------|-----------------------|----------------------|-----------------------|--|----------------|
|                                                                                | Distribution |                                                                                                                                                                              | Foul                     |                  |                           |         |                             |             |          |                    | Rising Mains          |                      | Private Rising Mains  |  |                |
|                                                                                | Washout      |                                                                                                                                                                              | Surface                  |                  |                           |         |                             |             |          |                    | Standby Rising Mains  |                      | Culverted Watercourse |  |                |
|                                                                                | Raw Water    |                                                                                                                                                                              | Combined                 |                  |                           |         |                             |             |          |                    | EDM Effluent Disposal |                      | Highway Drain         |  |                |
|                                                                                | Abandoned    |                                                                                                                                                                              | Abandoned                |                  |                           |         |                             |             |          |                    | Overflow              |                      | Use Unknown           |  |                |
|                                                                                | Private      | Colours generally indicate the use of the sewer/drain (i.e Red - Foul, Dark Blue - Surface, Magenta - Combined/Dual Use, Light Green - Highway Drain, Mid Green - Overflow). |                          |                  |                           |         |                             |             |          |                    |                       |                      | Syphon                |  | Status Unknown |
| Some styles of line and symbol are shown on the key in sample/typical colours. |              |                                                                                                                                                                              |                          |                  |                           |         |                             |             |          |                    |                       |                      |                       |  |                |
| FITTINGS                                                                       |              | STRUCTURES                                                                                                                                                                   |                          |                  | Pumping Station - Surface |         | Pumping Stn - Foul/Combined |             | Gully    |                    | Vent Column           |                      | Rodding Eye           |  |                |
|                                                                                | Hydrant      |                                                                                                                                                                              | Manhole - Foul           |                  | Pumping Station - Surface |         | Pumping Stn - Foul/Combined |             | Gully    |                    | Vent Column           |                      | Rodding Eye           |  |                |
|                                                                                | Other        |                                                                                                                                                                              | Manhole - Surface        |                  | Pumping Station - Surface |         | Pumping Stn - Foul/Combined |             | Gully    |                    | Vent Column           |                      | Rodding Eye           |  |                |
|                                                                                |              |                                                                                                                                                                              | Manhole - Combined       |                  | Pumping Station - Surface |         | Pumping Stn - Foul/Combined |             | Gully    |                    | Vent Column           |                      | Rodding Eye           |  |                |
|                                                                                |              |                                                                                                                                                                              | Inlet                    |                  | Outfall                   |         | Flushing Chamber            |             | Catchpit |                    | Soakaway              |                      | Non Return Valve      |  |                |
|                                                                                |              |                                                                                                                                                                              | Lamphole                 |                  | Outfall                   |         | Flushing Chamber            |             | Catchpit |                    | Soakaway              |                      | Non Return Valve      |  |                |
|                                                                                |              |                                                                                                                                                                              | Bifurcation - Foul       |                  | Outfall                   |         | Flushing Chamber            |             | Catchpit |                    | Soakaway              |                      | Non Return Valve      |  |                |
|                                                                                |              |                                                                                                                                                                              | Bifurcation - Surface    |                  | Outfall                   |         | Flushing Chamber            |             | Catchpit |                    | Soakaway              |                      | Non Return Valve      |  |                |
|                                                                                |              |                                                                                                                                                                              | Bifurcation - Combined   |                  | Outfall                   |         | Flushing Chamber            |             | Catchpit |                    | Soakaway              |                      | Non Return Valve      |  |                |
|                                                                                |              |                                                                                                                                                                              | Combined Sewage Overflow |                  | Outfall                   |         | Flushing Chamber            |             | Catchpit |                    | Soakaway              |                      | Non Return Valve      |  |                |
|                                                                                |              |                                                                                                                                                                              |                          |                  | Outfall                   |         | Flushing Chamber            |             | Catchpit |                    | Soakaway              |                      | Non Return Valve      |  |                |
|                                                                                |              |                                                                                                                                                                              |                          |                  | Outfall                   |         | Flushing Chamber            |             | Catchpit |                    | Soakaway              |                      | Non Return Valve      |  |                |
|                                                                                |              |                                                                                                                                                                              |                          |                  | Outfall                   |         | Flushing Chamber            |             | Catchpit |                    | Soakaway              |                      | Non Return Valve      |  |                |
|                                                                                |              |                                                                                                                                                                              |                          |                  | Outfall                   |         | Flushing Chamber            |             | Catchpit |                    | Soakaway              |                      | Non Return Valve      |  |                |
|                                                                                |              |                                                                                                                                                                              |                          |                  | Outfall                   |         | Flushing Chamber            |             | Catchpit |                    | Soakaway              |                      | Non Return Valve      |  |                |
|                                                                                |              |                                                                                                                                                                              |                          |                  | Outfall                   |         | Flushing Chamber            |             | Catchpit |                    | Soakaway              |                      | Non Return Valve      |  |                |
|                                                                                |              |                                                                                                                                                                              |                          |                  | Outfall                   |         | Flushing Chamber            |             | Catchpit |                    | Soakaway              |                      | Non Return Valve      |  |                |
|                                                                                |              |                                                                                                                                                                              |                          |                  | Outfall                   |         | Flushing Chamber            |             | Catchpit |                    | Soakaway              |                      | Non Return Valve      |  |                |
|                                                                                |              |                                                                                                                                                                              |                          |                  | Outfall                   |         | Flushing Chamber            |             | Catchpit |                    | Soakaway              |                      | Non Return Valve      |  |                |
|                                                                                |              |                                                                                                                                                                              |                          |                  | Outfall                   |         | Flushing Chamber            |             | Catchpit |                    | Soakaway              |                      | Non Return Valve      |  |                |
|                                                                                |              |                                                                                                                                                                              |                          |                  | Outfall                   |         | Flushing Chamber            |             | Catchpit |                    | Soakaway              |                      | Non Return Valve      |  |                |
|                                                                                |              |                                                                                                                                                                              |                          |                  | Outfall                   |         | Flushing Chamber            |             | Catchpit |                    | Soakaway              |                      | Non Return Valve      |  |                |
|                                                                                |              |                                                                                                                                                                              |                          |                  | Outfall                   |         | Flushing Chamber            |             | Catchpit |                    | Soakaway              |                      | Non Return Valve      |  |                |
|                                                                                |              |                                                                                                                                                                              |                          |                  | Outfall                   |         | Flushing Chamber            |             | Catchpit |                    | Soakaway              |                      | Non Return Valve      |  |                |
|                                                                                |              |                                                                                                                                                                              |                          |                  | Outfall                   |         | Flushing Chamber            |             | Catchpit |                    | Soakaway              |                      | Non Return Valve      |  |                |
|                                                                                |              |                                                                                                                                                                              |                          |                  | Outfall                   |         | Flushing Chamber            |             | Catchpit |                    | Soakaway              |                      | Non Return Valve      |  |                |
|                                                                                |              |                                                                                                                                                                              |                          |                  | Outfall                   |         | Flushing Chamber            |             | Catchpit |                    | Soakaway              |                      | Non Return Valve      |  |                |
|                                                                                |              |                                                                                                                                                                              |                          |                  | Outfall                   |         | Flushing Chamber            |             | Catchpit |                    | Soakaway              |                      | Non Return Valve      |  |                |
|                                                                                |              |                                                                                                                                                                              |                          |                  | Outfall                   |         | Flushing Chamber            |             | Catchpit |                    | Soakaway              |                      | Non Return Valve      |  |                |
|                                                                                |              |                                                                                                                                                                              |                          |                  | Outfall                   |         | Flushing Chamber            |             | Catchpit |                    | Soakaway              |                      | Non Return Valve      |  |                |
|                                                                                |              |                                                                                                                                                                              |                          |                  | Outfall                   |         | Flushing Chamber            |             | Catchpit |                    | Soakaway              |                      | Non Return Valve      |  |                |
|                                                                                |              |                                                                                                                                                                              |                          |                  | Outfall                   |         | Flushing Chamber            |             | Catchpit |                    | Soakaway              |                      | Non Return Valve      |  |                |
|                                                                                |              |                                                                                                                                                                              |                          |                  | Outfall                   |         | Flushing Chamber            |             | Catchpit |                    | Soakaway              |                      | Non Return Valve      |  |                |
|                                                                                |              |                                                                                                                                                                              |                          |                  | Outfall                   |         | Flushing Chamber            |             | Catchpit |                    | Soakaway              |                      | Non Return Valve      |  |                |
|                                                                                |              |                                                                                                                                                                              |                          |                  | Outfall                   |         | Flushing Chamber            |             | Catchpit |                    | Soakaway              |                      | Non Return Valve      |  |                |
|                                                                                |              |                                                                                                                                                                              |                          |                  | Outfall                   |         | Flushing Chamber            |             | Catchpit |                    | Soakaway              |                      | Non Return Valve      |  |                |
|                                                                                |              |                                                                                                                                                                              |                          |                  | Outfall                   |         | Flushing Chamber            |             | Catchpit |                    | Soakaway              |                      | Non Return Valve      |  |                |
|                                                                                |              |                                                                                                                                                                              |                          |                  | Outfall                   |         | Flushing Chamber            |             | Catchpit |                    | Soakaway              |                      | Non Return Valve      |  |                |
|                                                                                |              |                                                                                                                                                                              |                          |                  | Outfall                   |         | Flushing Chamber            |             | Catchpit |                    | Soakaway              |                      | Non Return Valve      |  |                |
|                                                                                |              |                                                                                                                                                                              |                          |                  | Outfall                   |         | Flushing Chamber            |             | Catchpit |                    | Soakaway              |                      | Non Return Valve      |  |                |
|                                                                                |              |                                                                                                                                                                              |                          |                  | Outfall                   |         | Flushing Chamber            |             | Catchpit |                    | Soakaway              |                      | Non Return Valve      |  |                |
|                                                                                |              |                                                                                                                                                                              |                          |                  | Outfall                   |         | Flushing Chamber            |             | Catchpit |                    | Soakaway              |                      | Non Return Valve      |  |                |
|                                                                                |              |                                                                                                                                                                              |                          |                  | Outfall                   |         | Flushing Chamber            |             | Catchpit |                    | Soakaway              |                      | Non Return Valve      |  |                |
|                                                                                |              |                                                                                                                                                                              |                          |                  | Outfall                   |         | Flushing Chamber            |             | Catchpit |                    | Soakaway              |                      | Non Return Valve      |  |                |
|                                                                                |              |                                                                                                                                                                              |                          |                  | Outfall                   |         | Flushing Chamber            |             | Catchpit |                    | Soakaway              |                      | Non Return Valve      |  |                |
|                                                                                |              |                                                                                                                                                                              |                          |                  | Outfall                   |         | Flushing Chamber            |             | Catchpit |                    | Soakaway              |                      | Non Return Valve      |  |                |
|                                                                                |              |                                                                                                                                                                              |                          |                  | Outfall                   |         | Flushing Chamber            |             | Catchpit |                    | Soakaway              |                      | Non Return Valve      |  |                |
|                                                                                |              |                                                                                                                                                                              |                          |                  | Outfall                   |         | Flushing Chamber            |             | Catchpit |                    | Soakaway              |                      | Non Return Valve      |  |                |
|                                                                                |              |                                                                                                                                                                              |                          |                  | Outfall                   |         | Flushing Chamber            |             | Catchpit |                    | Soakaway              |                      | Non Return Valve      |  |                |
|                                                                                |              |                                                                                                                                                                              |                          |                  | Outfall                   |         | Flushing Chamber            |             | Catchpit |                    | Soakaway              |                      | Non Return Valve      |  |                |
|                                                                                |              |                                                                                                                                                                              |                          |                  | Outfall                   |         | Flushing Chamber            |             | Catchpit |                    | Soakaway              |                      | Non Return Valve      |  |                |
|                                                                                |              |                                                                                                                                                                              |                          |                  | Outfall                   |         | Flushing Chamber            |             | Catchpit |                    | Soakaway              |                      | Non Return Valve      |  |                |
|                                                                                |              |                                                                                                                                                                              |                          |                  | Outfall                   |         | Flushing Chamber            |             | Catchpit |                    | Soakaway              |                      | Non Return Valve      |  |                |
|                                                                                |              |                                                                                                                                                                              |                          |                  | Outfall                   |         | Flushing Chamber            |             | Catchpit |                    | Soakaway              |                      | Non Return Valve      |  |                |
|                                                                                |              |                                                                                                                                                                              |                          |                  | Outfall                   |         | Flushing Chamber            |             | Catchpit |                    | Soakaway              |                      | Non Return Valve      |  |                |
|                                                                                |              |                                                                                                                                                                              |                          |                  | Outfall                   |         | Flushing Chamber            |             | Catchpit |                    | Soakaway              |                      | Non Return Valve      |  |                |
|                                                                                |              |                                                                                                                                                                              |                          |                  | Outfall                   |         | Flushing Chamber            |             | Catchpit |                    | Soakaway              |                      | Non Return Valve      |  |                |
|                                                                                |              |                                                                                                                                                                              |                          |                  | Outfall                   |         | Flushing Chamber            |             | Catchpit |                    | Soakaway              |                      | Non Return Valve      |  |                |
|                                                                                |              |                                                                                                                                                                              |                          |                  | Outfall                   |         | Flushing Chamber            |             | Catchpit |                    | Soakaway              |                      | Non Return Valve      |  |                |
|                                                                                |              |                                                                                                                                                                              |                          |                  | Outfall                   |         | Flushing Chamber            |             | Catchpit |                    | Soakaway              |                      | Non Return Valve      |  |                |
|                                                                                |              |                                                                                                                                                                              |                          |                  | Outfall                   |         | Flushing Chamber            |             | Catchpit |                    | Soakaway              |                      | Non Return Valve      |  |                |
|                                                                                |              |                                                                                                                                                                              |                          |                  | Outfall                   |         | Flushing Chamber            |             | Catchpit |                    | Soakaway              |                      | Non Return Valve      |  |                |
|                                                                                |              |                                                                                                                                                                              |                          |                  | Outfall                   |         | Flushing Chamber            |             | Catchpit |                    | Soakaway              |                      | Non Return Valve      |  |                |
|                                                                                |              |                                                                                                                                                                              |                          |                  | Outfall                   |         | Flushing Chamber            |             | Catchpit |                    | Soakaway              |                      | Non Return Valve      |  |                |
|                                                                                |              |                                                                                                                                                                              |                          |                  | Outfall                   |         | Flushing Chamber            |             | Catchpit |                    | Soakaway              |                      | Non Return Valve      |  |                |
|                                                                                |              |                                                                                                                                                                              |                          |                  | Outfall                   |         | Flushing Chamber            |             | Catchpit |                    | Soakaway              |                      | Non Return Valve      |  |                |
|                                                                                |              |                                                                                                                                                                              |                          |                  | Outfall                   |         | Flushing Chamber            |             | Catchpit |                    | Soakaway              |                      | Non Return Valve      |  |                |
|                                                                                |              |                                                                                                                                                                              |                          |                  | Outfall                   |         | Flushing Chamber            |             | Catchpit |                    | Soakaway              |                      | Non Return Valve      |  |                |
|                                                                                |              |                                                                                                                                                                              |                          |                  | Outfall                   |         | Flushing Chamber            |             | Catchpit |                    | Soakaway              |                      | Non Return Valve      |  |                |
|                                                                                |              |                                                                                                                                                                              |                          |                  | Outfall                   |         | Flushing Chamber            |             | Catchpit |                    | Soakaway              |                      | Non Return Valve      |  |                |
|                                                                                |              |                                                                                                                                                                              |                          |                  | Outfall                   |         | Flushing Chamber            |             | Catchpit |                    | Soakaway              |                      | Non Return Valve      |  |                |
|                                                                                |              |                                                                                                                                                                              |                          |                  | Outfall                   |         | Flushing Chamber            |             | Catchpit |                    | Soakaway              |                      | Non Return Valve      |  |                |
|                                                                                |              |                                                                                                                                                                              |                          |                  | Outfall                   |         | Flushing Chamber            |             | Catchpit |                    | Soakaway              |                      | Non Return Valve      |  |                |
|                                                                                |              |                                                                                                                                                                              |                          |                  | Outfall                   |         | Flushing Chamber            |             | Catchpit |                    | Soakaway              |                      | Non Return Valve      |  |                |
|                                                                                |              |                                                                                                                                                                              |                          |                  | Outfall                   |         | Flushing Chamber            |             | Catchpit |                    | Soakaway              |                      | Non Return Valve      |  |                |
|                                                                                |              |                                                                                                                                                                              |                          |                  | Outfall                   |         | Flushing Chamber            |             | Catchpit |                    | Soakaway              |                      | Non Return Valve      |  |                |
|                                                                                |              |                                                                                                                                                                              |                          |                  | Outfall                   |         | Flushing Chamber            |             | Catchpit |                    | Soakaway              |                      | Non Return Valve      |  |                |
|                                                                                |              |                                                                                                                                                                              |                          |                  | Outfall                   |         | Flushing Chamber            |             | Catchpit |                    | Soakaway              |                      | Non Return Valve      |  |                |
|                                                                                |              |                                                                                                                                                                              |                          |                  | Outfall                   |         | Flushing Chamber            |             | Catchpit |                    | Soakaway              |                      | Non Return Valve      |  |                |
|                                                                                |              |                                                                                                                                                                              |                          |                  | Outfall                   |         | Flushing Chamber            |             | Catchpit |                    | Soakaway              |                      | Non Return Valve      |  |                |
|                                                                                |              |                                                                                                                                                                              |                          |                  | Outfall                   |         | Flushing Chamber            |             | Catchpit |                    | Soakaway              |                      | Non Return Valve      |  |                |
|                                                                                |              |                                                                                                                                                                              |                          |                  | Outfall                   |         | Flushing Chamber            |             | Catchpit |                    | Soakaway              |                      | Non Return Valve      |  |                |
|                                                                                |              |                                                                                                                                                                              |                          |                  | Outfall                   |         | Flushing Chamber            |             | Catchpit |                    | Soakaway              |                      | Non Return Valve      |  |                |
|                                                                                |              |                                                                                                                                                                              |                          |                  | Outfall                   |         | Flushing Chamber            |             | Catchpit |                    | Soakaway              |                      | Non Return Valve      |  |                |
|                                                                                |              |                                                                                                                                                                              |                          |                  | Outfall                   |         | Flushing Chamber            |             | Catchpit |                    | Soakaway              |                      | Non Return Valve      |  |                |
|                                                                                |              |                                                                                                                                                                              |                          |                  | Outfall                   |         | Flushing Chamber            |             | Catchpit |                    | Soakaway              |                      | Non Return Valve      |  |                |
|                                                                                |              |                                                                                                                                                                              |                          |                  | Outfall                   |         | Flushing Chamber            |             | Catchpit |                    | Soakaway              |                      | Non Return Valve      |  |                |
|                                                                                |              |                                                                                                                                                                              |                          |                  | Outfall                   |         | Flushing Chamber            |             | Catchpit |                    | Soakaway              |                      | Non Return Valve      |  |                |
|                                                                                |              |                                                                                                                                                                              |                          |                  | Outfall                   |         | Flushing Chamber            |             | Catchpit |                    | Soakaway              |                      | Non Return Valve      |  |                |
|                                                                                |              |                                                                                                                                                                              |                          |                  | Outfall                   |         | Flushing Chamber            |             | Catchpit |                    | Soakaway              |                      | Non Return Valve      |  |                |
|                                                                                |              |                                                                                                                                                                              |                          |                  | Outfall                   |         | Flushing Chamber            |             | Catchpit |                    | Soakaway              |                      | Non Return Valve      |  |                |
|                                                                                |              |                                                                                                                                                                              |                          |                  | Outfall                   |         | Flushing Chamber            |             | Catchpit |                    | Soakaway              |                      | Non Return Valve      |  |                |
|                                                                                |              |                                                                                                                                                                              |                          |                  |                           |         |                             |             |          |                    |                       |                      |                       |  |                |

# Wessex Water Network Map



Reproduced from the Ordnance Survey map with the permission of the Controller of His Majesty's Stationery Office. © Crown copyright and database rights (2025) OS AC0000848304

| WATER MAINS  | SEWERS                    | STRATEGIC PUBLIC            | PRIVATE               | SECTION 104            | OTHER WESSEX PIPES    | NON-WESSEX / UNKNOWN  |
|--------------|---------------------------|-----------------------------|-----------------------|------------------------|-----------------------|-----------------------|
| Distribution | Foul                      | Surface                     | Surface               | Combined               | Rising Mains          | Private Rising Mains  |
| Washout      | Surface                   | Surface                     | Surface               | Combined               | Standby Rising Mains  | Culverted Watercourse |
| Raw Water    | Combined                  | Combined                    | Combined              | Abandoned              | EDM Effluent Disposal | Highway Drain         |
| Abandoned    | Abandoned                 | Abandoned                   | Abandoned             | Abandoned              | Overflow              | Use Unknown           |
| Private      | Private                   | Private                     | Private               | Private                | Syphon                | Status Unknown        |
| FITTINGS     | STRUCTURES                | STRUCTURES                  | STRUCTURES            | STRUCTURES             | OTHER STRUCTURES      | OTHER STRUCTURES      |
| Hydrant      | Manhole - Foul            | Manhole - Surface           | Manhole - Combined    | Manhole - Combined     | Attenuation Tank      | Chamber               |
| Other        | Inlet                     | Outfall                     | Inlet                 | Outfall                | Storage Tank          | Tunnel                |
|              | Lamphole                  | Bifurcation - Foul          | Bifurcation - Surface | Bifurcation - Combined |                       | Interceptor           |
|              | Combined Sewage Overflow  | Air Valve                   | Hatch Box             | Washout                |                       |                       |
|              | Pumping Station - Surface | Pumping Stn - Foul/Combined | Gully                 | Vent Column            |                       |                       |
|              | Rodding Eye               | Catchpit                    | Flushing Chamber      | Soakaway               |                       |                       |
|              | Non Return Valve          | Air Valve                   | Hatch Box             | Washout                |                       |                       |

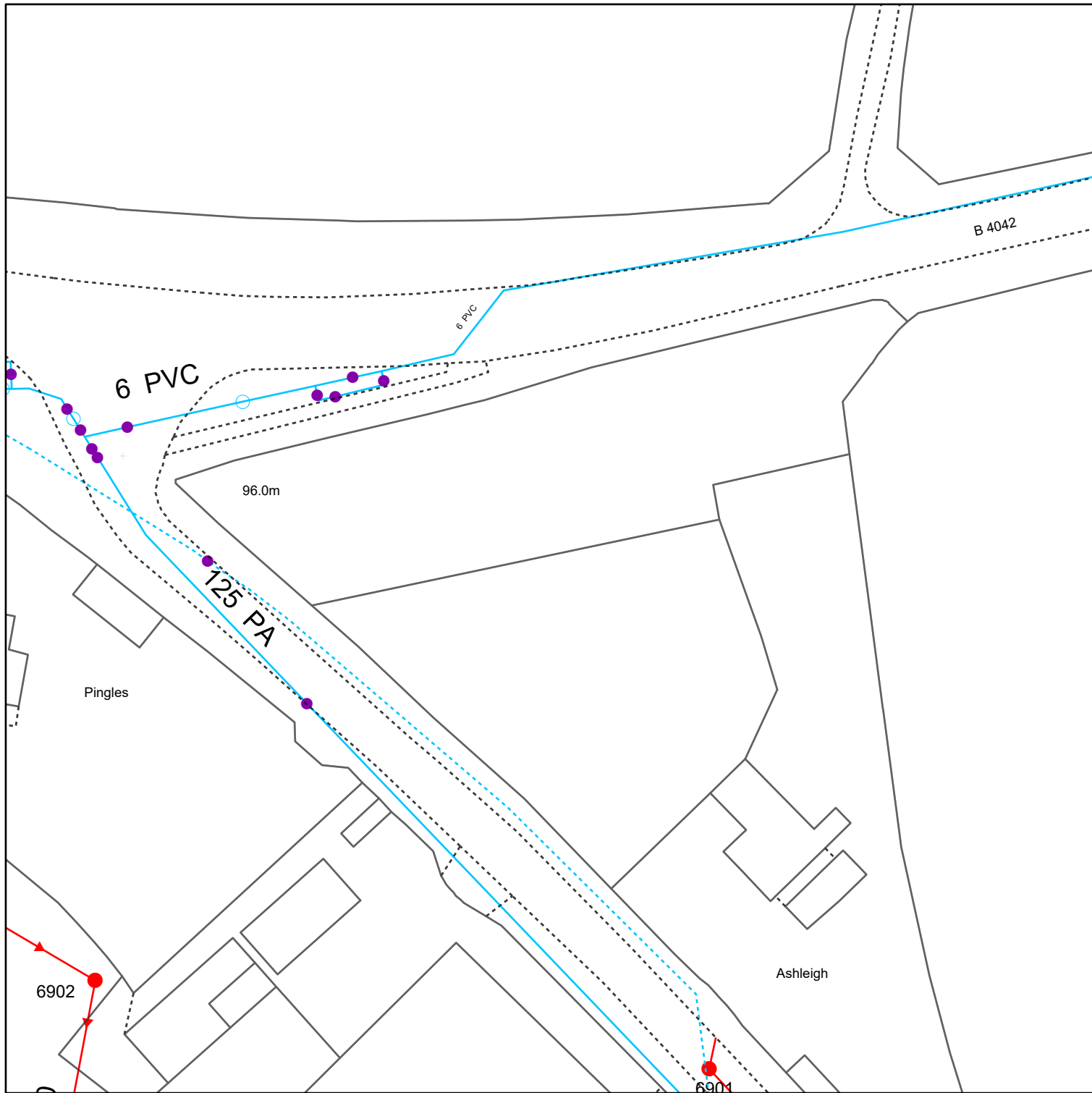
Information in this map is provided for identification purposes only. No warranty as to accuracy is given or implied. The precise route of pipe work may not exactly match that shown. Wessex Water does not accept liability for inaccuracies. Sewers and lateral drains adopted by Wessex Water under the Water Industry (Schemes for Adoption of Private Sewers) Regulations 2011 are to be plotted over time and may not yet be shown. In carrying out any works, you accept liability for the cost of any repairs to Wessex Water apparatus damaged as a result of your works. You are advised to commence excavations using hand tools only. Mechanical digging equipment should not be used until pipe work has been precisely located. If you are considering any form of building works and pipe work is shown within the boundary of your property or a property to be purchased (or very close by) a surveyor should plot its exact position prior to commencing works or purchase. If you are proposing to build over or near Wessex Water's apparatus you should contact the Developer Services Team, tel: 01225 526333 or e-mail: [developer.enquiries@wessexwater.co.uk](mailto:developer.enquiries@wessexwater.co.uk) to discuss your proposals. Details of assets within Wessex Water's land ownership are unavailable through this service.

**Date:** 06/10/2025

**Centre:** 397389E, 184995N

**Scale:** 1:625  
(when printed at A4 size)

# Wessex Water Network Map



Reproduced from the Ordnance Survey map with the permission of the Controller of His Majesty's Stationery Office. © Crown copyright and database rights (2025) OS AC0000848304

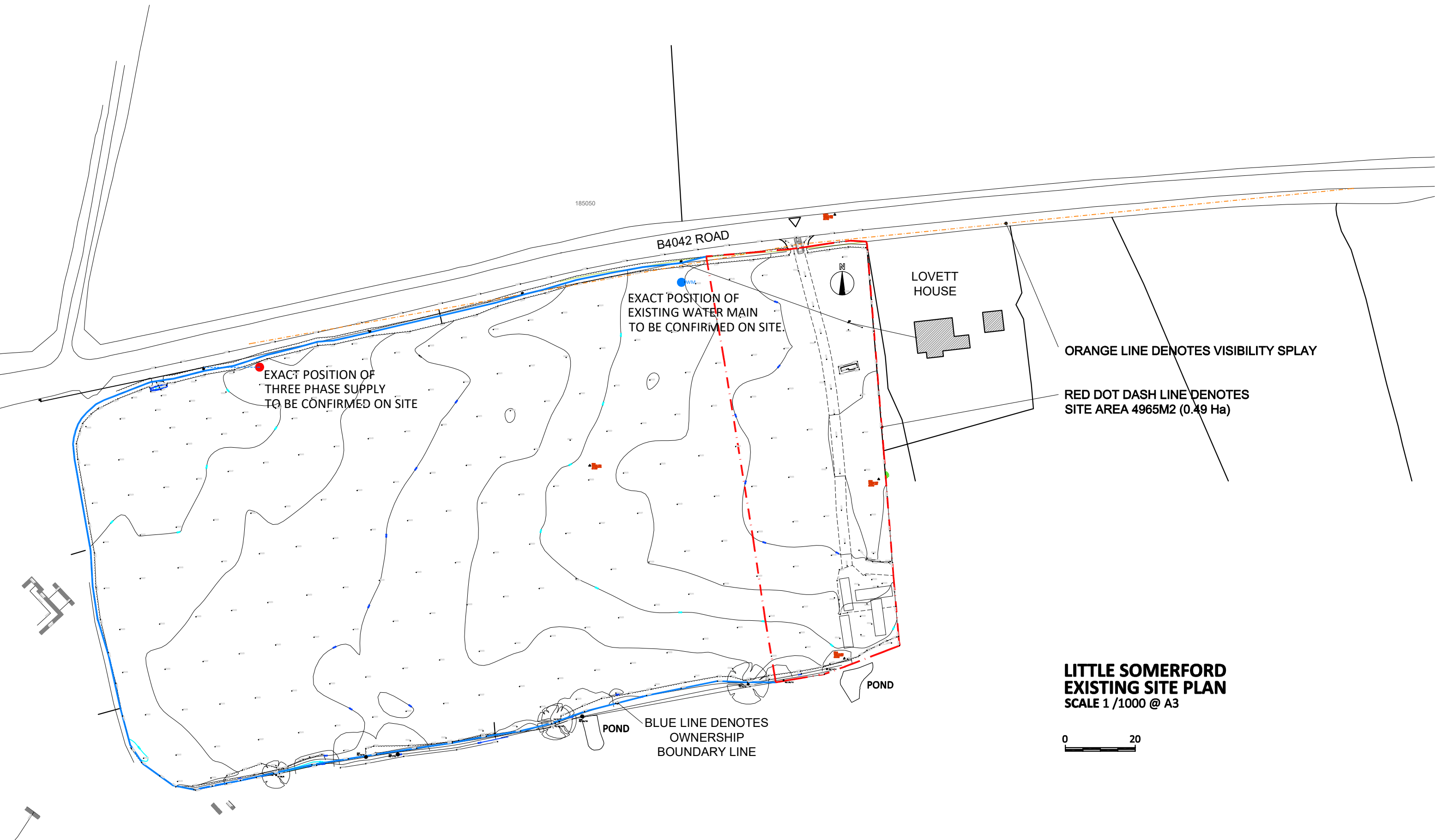
| WATER MAINS                                                                                                                                                                  |              | SEWERS           |                          | STRATEGIC |                             | PUBLIC |         | PRIVATE |  | SECTION 104 |  | OTHER WESSEX PIPES |                      | NON-WESSEX / UNKNOWN |                       |             |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|------------------|--------------------------|-----------|-----------------------------|--------|---------|---------|--|-------------|--|--------------------|----------------------|----------------------|-----------------------|-------------|--|
|                                                                                                                                                                              | Distribution |                  | Foul                     |           | Surface                     |        |         |         |  |             |  |                    | Rising Mains         |                      | Private Rising Mains  |             |  |
|                                                                                                                                                                              | Washout      |                  | Combined                 |           |                             |        |         |         |  |             |  |                    | Standby Rising Mains |                      | Culverted Watercourse |             |  |
|                                                                                                                                                                              | Raw Water    |                  | Abandoned                |           |                             |        |         |         |  |             |  |                    | EDM                  |                      | Highway Drain         |             |  |
|                                                                                                                                                                              | Abandoned    |                  |                          |           |                             |        |         |         |  |             |  |                    | Overflow             |                      | Use Unknown           |             |  |
|                                                                                                                                                                              | Private      |                  |                          |           |                             |        |         |         |  |             |  |                    | Syphon               |                      | Status Unknown        |             |  |
| Colours generally indicate the use of the sewer/drain (i.e Red - Foul, Dark Blue - Surface, Magenta - Combined/Dual Use, Light Green - Highway Drain, Mid Green - Overflow). |              |                  |                          |           |                             |        |         |         |  |             |  |                    |                      |                      |                       |             |  |
| Some styles of line and symbol are shown on the key in sample/typical colours.                                                                                               |              |                  |                          |           |                             |        |         |         |  |             |  |                    |                      |                      |                       |             |  |
| FITTINGS                                                                                                                                                                     |              | STRUCTURES       |                          |           |                             |        |         |         |  |             |  |                    |                      |                      |                       |             |  |
|                                                                                                                                                                              | Hydrant      |                  | Manhole - Foul           |           | Pumping Station - Surface   |        |         |         |  |             |  |                    |                      |                      |                       |             |  |
|                                                                                                                                                                              | Other        |                  | Manhole - Surface        |           | Pumping Stn - Foul/Combined |        |         |         |  |             |  |                    |                      |                      |                       |             |  |
|                                                                                                                                                                              |              |                  | Manhole - Combined       |           | Gully                       |        |         |         |  |             |  |                    |                      |                      |                       |             |  |
|                                                                                                                                                                              |              |                  | Inlet                    |           | Vent Column                 |        |         |         |  |             |  |                    |                      |                      |                       |             |  |
|                                                                                                                                                                              |              |                  | Outfall                  |           | Rodding Eye                 |        |         |         |  |             |  |                    |                      |                      |                       |             |  |
|                                                                                                                                                                              |              |                  | Lamphole                 |           | Catchpit                    |        |         |         |  |             |  |                    |                      |                      |                       |             |  |
|                                                                                                                                                                              |              |                  | Bifurcation - Foul       |           | Flushing Chamber            |        |         |         |  |             |  |                    |                      |                      |                       |             |  |
|                                                                                                                                                                              |              |                  | Bifurcation - Surface    |           | Soakaway                    |        |         |         |  |             |  |                    |                      |                      |                       |             |  |
|                                                                                                                                                                              |              |                  | Bifurcation - Combined   |           | Non Return Valve            |        |         |         |  |             |  |                    |                      |                      |                       |             |  |
|                                                                                                                                                                              |              |                  | Combined Sewage Overflow |           | Air Valve                   |        |         |         |  |             |  |                    |                      |                      |                       |             |  |
|                                                                                                                                                                              |              |                  |                          |           | Hatch Box                   |        | Washout |         |  |             |  |                    |                      |                      |                       |             |  |
| OTHER STRUCTURES                                                                                                                                                             |              |                  |                          |           |                             |        |         |         |  |             |  |                    |                      |                      |                       |             |  |
|                                                                                                                                                                              |              | Attenuation Tank |                          |           |                             | Tunnel |         |         |  |             |  |                    |                      |                      |                       | Interceptor |  |
|                                                                                                                                                                              |              | Storage Tank     |                          |           |                             |        |         |         |  |             |  |                    |                      |                      |                       |             |  |
| <div><div><div>Wessex Water</div><div>YTL GROUP</div></div><div></div></div>                                                                                                 |              |                  |                          |           |                             |        |         |         |  |             |  |                    |                      |                      |                       |             |  |

Information in this map is provided for identification purposes only. No warranty as to accuracy is given or implied. The precise route of pipe work may not exactly match that shown. Wessex Water does not accept liability for inaccuracies. Sewers and lateral drains adopted by Wessex Water under the Water Industry (Schemes for Adoption of Private Sewers) Regulations 2011 are to be plotted over time and may not yet be shown. In carrying out any works, you accept liability for the cost of any repairs to Wessex Water apparatus damaged as a result of your works. You are advised to commence excavations using hand tools only. Mechanical digging equipment should not be used until pipe work has been precisely located. If you are considering any form of building works and pipe work is shown within the boundary of your property or a property to be purchased (or very close by) a surveyor should plot its exact position prior to commencing works or purchase. If you are proposing to build over or near Wessex Water's apparatus you should contact the Developer Services Team, tel: 01225 526633 or e-mail: [developer.enquiries@wessexwater.co.uk](mailto:developer.enquiries@wessexwater.co.uk) to discuss your proposals. Details of assets within Wessex Water's land ownership are unavailable through this service.

**Date:** 06/10/2025  
**Centre:** 396659E, 184968N  
**Scale:** 1:625  
(when printed at A4 size)



## Appendix C - Proposed Site Layout



ORANGE LINE DENOTES VISIBILITY SPLAY

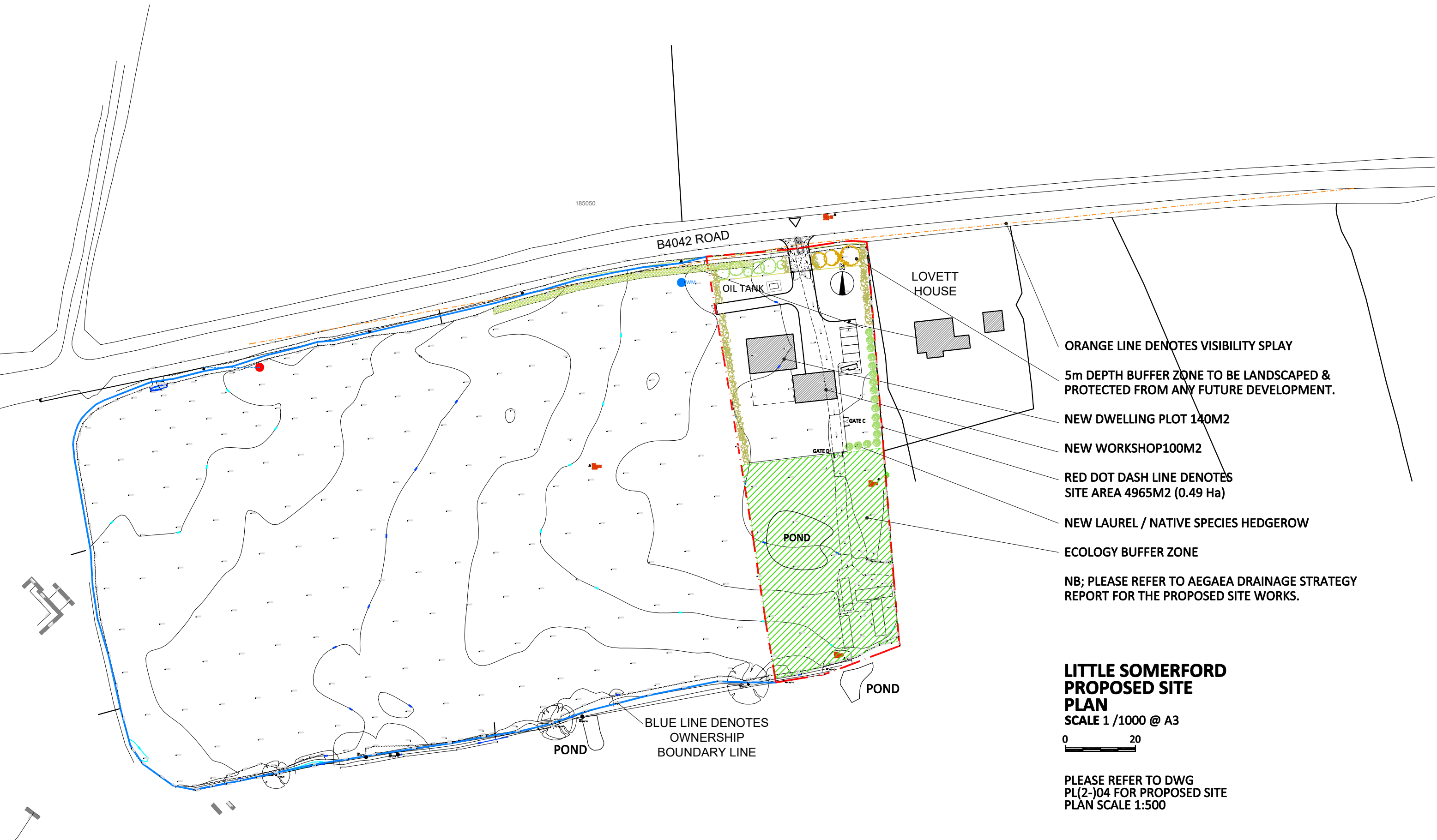
RED DOT DASH LINE DENOTES  
SITE AREA 4965M2 (0.49 Ha)

**LITTLE SOMERFORD  
EXISTING SITE PLAN  
SCALE 1 /1000 @ A3**



All dimensions are in millimeters unless otherwise stated. Any variation or supplementary drawing is to be approved by the architect. All dimensions and conditions are to be checked on site, prior to preparing drawings or commencing work. Any discrepancies within these drawings are to be reported to the architect immediately.

**PLANNING DRAWING**  
DO NOT SCALE FROM THIS DRAWING EXCEPT FOR LOCAL  
AUTHORITY PLANNING PURPOSES.



ORANGE LINE DENOTES VISIBILITY SPLAY

5m DEPTH BUFFER ZONE TO BE LANDSCAPED & PROTECTED FROM ANY FUTURE DEVELOPMENT.

NEW DWELLING PLOT 140M2

NEW WORKSHOP 100M2

RED DOT DASH LINE DENOTES SITE AREA 4965M2 (0.49 Ha)

NEW LAUREL / NATIVE SPECIES HEDGEROW

ECOLOGY BUFFER ZONE

NB; PLEASE REFER TO AEGAEA DRAINAGE STRATEGY REPORT FOR THE PROPOSED SITE WORKS.

**LITTLE SOMERFORD  
PROPOSED SITE  
PLAN**  
SCALE 1 /1000 @ A3



PLEASE REFER TO DWG  
PL(2-)04 FOR PROPOSED SITE  
PLAN SCALE 1:500

All dimensions are in millimeters unless otherwise stated. Any variation or supplementary drawing is to be approved by the architect. All dimensions and conditions are to be checked on site, prior to preparing drawings or commencing work. Any discrepancies within these drawings are to be reported to the architect immediately.

**PLANNING DRAWING**  
DO NOT SCALE FROM THIS DRAWING EXCEPT FOR LOCAL  
AUTHORITY PLANNING PURPOSES.



**LITTLE SOMERFORD  
PROPOSED SITE  
PLAN**

SCALE 1 /500 @ A3

PLEASE REFER TO DWG PL(2-)-03  
LOCATION PLAN FOR SITE CONTEXT

All dimensions are in millimeters unless otherwise stated. Any variation or supplementary drawing is to be approved by the architect. All dimensions and conditions are to be checked on site, prior to preparing drawings or commencing work. Any discrepancies within these drawings are to be reported to the architect immediately.

**PLANNING DRAWING**  
DO NOT SCALE FROM THIS DRAWING EXCEPT FOR LOCAL  
AUTHORITY PLANNING PURPOSES.



ORANGE DASH LINE DENOTES VIABILITY SPLAY  
5m DEPTH BUFFER ZONE TO BE LANDSCAPED & PROTECTED FROM ANY FUTURE DEVELOPMENT.

4NO. PARKING BAYS.

LOVETT HOUSE

SEPTIC TANK PROTECTED WITH 1.2M H CLEFT CHESTNUT FENCE.

DASHED LINE DENOTES EXISTING ACCESS TRACK - GRAVEL LAID OVER HARDCORE, TO BE RECONFIGURED TO ACCOMMODATE TEMPORARY ACCOMMODATION.

NB; PLEASE REFER TO AEGAEA DRAINAGE STRATEGY REPORT FOR THE PROPOSED SITE WORKS.

RED DOT DASH LINE DENOTES PROPOSED SITE AREA 4965M2 (0.49 HA).  
GREEN HATCH AREA DENOTES ECOLOGY BUFFER ZONE.

POST & RAIL BARBED WIRE FENCE 1.2M H

4NO. STATIONARY BUSES

# LITTLE SOMERFORD PHASE 01 PROPOSED TEMPORARY ACCOMMODATION SITE PLAN

SCALE 1 /500 @ A3  
0 20

All dimensions are in millimeters unless otherwise stated. Any variation or supplementary drawing is to be approved by the architect. All dimensions and conditions are to be checked on site, prior to preparing drawings or commencing work. Any discrepancies within these drawings are to be reported to the architect immediately.

**PLANNING DRAWING**  
DO NOT SCALE FROM THIS DRAWING EXCEPT FOR LOCAL AUTHORITY PLANNING PURPOSES.



## Appendix D - Infiltration Tests



Legend

- Site Boundary
- Trial Pits

|                                              |               |
|----------------------------------------------|---------------|
| Figure Title                                 |               |
| Exploratory Hole Location Plan               |               |
| Site Location                                |               |
| Land to the south of B4042, Little Somerford |               |
| Job Number                                   | Figure Number |
| 251009                                       | 201009.01     |
| Prepared By                                  | Date          |
| BJL                                          | 01/11/2025    |
| Client                                       |               |
| Ed & Jim Greening                            |               |

|                |        |          |      |
|----------------|--------|----------|------|
| Project Number | 251009 | Location | TP01 |
|----------------|--------|----------|------|

| Time (min) | Water Level bgl (m) |        |        |
|------------|---------------------|--------|--------|
|            | Test 1              | Test 2 | Test 3 |
| 0          | 1.100               |        |        |
| 1          | 1.100               |        |        |
| 2          | 1.100               |        |        |
| 3          | 1.100               |        |        |
| 4          | 1.100               |        |        |
| 5          | 1.100               |        |        |
| 10         | 1.100               |        |        |
| 15         | 1.100               |        |        |
| 20         | 1.100               |        |        |
| 25         | 1.100               |        |        |
| 30         | 1.100               |        |        |
| 60         | 1.110               |        |        |
| 120        | 1.110               |        |        |
| 180        | 1.120               |        |        |
| 240        | 1.120               |        |        |
| 300        | 1.120               |        |        |
| 360        | 1.130               |        |        |
|            |                     |        |        |
|            |                     |        |        |
|            |                     |        |        |

**Notes**  
Soakaway testing was undertaken in general accordance with BRE Digest 365. A trial pit was excavated and filled with water once to assess the infiltration rates. Due to the time constraints of the investigation and the infiltration rates, the pit could not be refilled an additional two times. Water levels were monitored at regular intervals to calculate infiltration rates.

Results reflect conditions at the test location only and may not represent the wider site. Variations in soil type, groundwater or compaction could affect soakaway performance and should be considered in design.

The test did not achieve a fall in water level between 75% and 25% effective depth during monitoring. The water level within the soakaway only dropped by 0.03m over the 6-hour test period and therefore the test is considered to have failed.

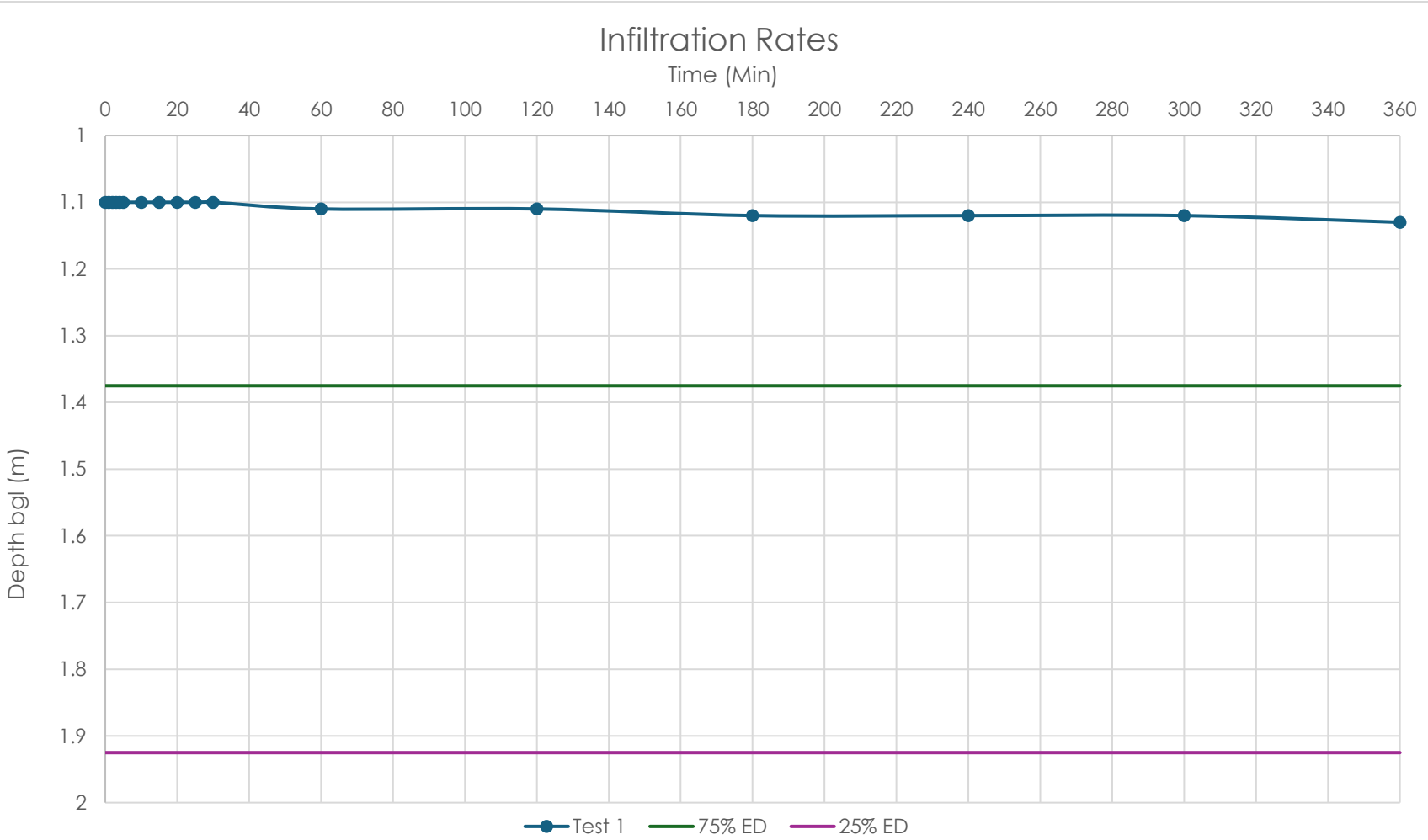
|             |             |             |
|-------------|-------------|-------------|
| Test 1 Rate | Test 2 Rate | Test 3 Rate |
| N/A         | N/A         | N/A         |

Calculated Infiltration Rate (ms<sup>-1</sup>) = FAIL

Ground Conditions

**0.00-0.25m** – TOPSOIL. Brown clayey gravelly SAND. Sand is fine to coarse. Gravel is angular to sub-angular flint.  
**0.25-1.20m** - Orangish brown slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is angular to sub-angular flint.  
**1.20 - 2.20m** - Blue / grey slightly sandy CLAY. Sand is fine to coarse.

No groundwater encountered.



|               |     |                |   |               |     |
|---------------|-----|----------------|---|---------------|-----|
| Pit Width (m) | 0.5 | Pit Length (m) | 2 | Pit Depth (m) | 2.2 |
|---------------|-----|----------------|---|---------------|-----|

|                       |        |                 |      |
|-----------------------|--------|-----------------|------|
| <b>Project Number</b> | 251009 | <b>Location</b> | TP02 |
|-----------------------|--------|-----------------|------|

[illegible]

## Notes

In accordance with the methodology set out in BS 6297:2007+A1:2008, percolation testing is undertaken using trial holes measuring approximately 300 mm by 300 mm in plan, excavated to a depth extending 300 mm below the proposed base of the invert level. These trial holes are then filled with water, and the time taken for the water level to fall from 75% to 25% of the effective depth is recorded to assess infiltration rates.

On this site, Clear Environmental was instructed to undertake the testing at this location between 0.90m and 1.20m below ground level.

| Test 1 Rate | Test 2 Rate | Test 3 Rate |
|-------------|-------------|-------------|
| N/A         | N/A         | N/A         |

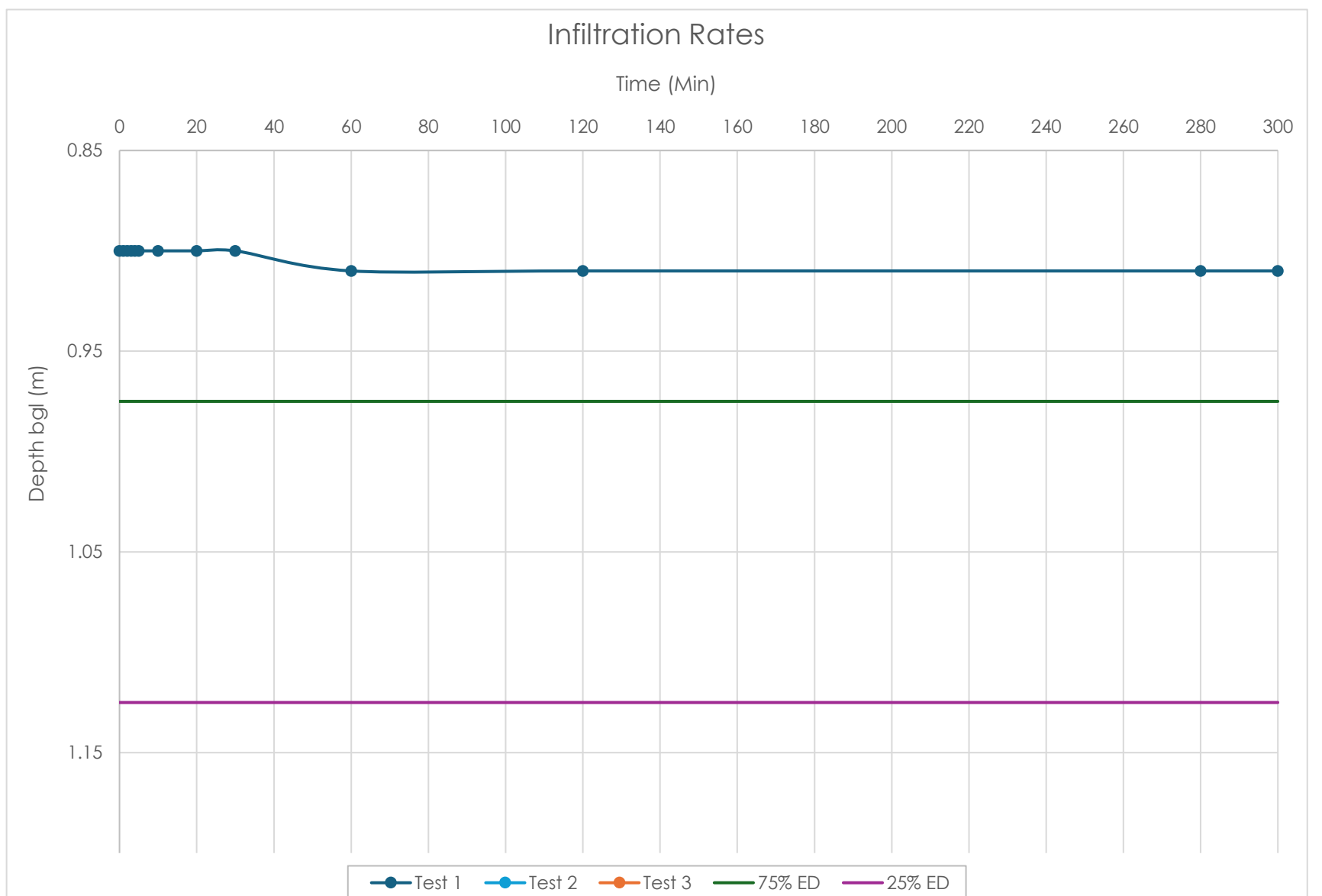
**Percolation Value (secs/mm) = FAIL**

## Ground Conditions

**0.00-0.30m** – TOPSOIL. Brown clayey gravelly SAND. Sand is fine to coarse. Gravel is angular to sub-angular flint.

**0.30-1.20m** - Orangish brown slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is angular to sub-angular flint.

**No groundwater encountered.**



|                      |     |                       |     |                      |     |
|----------------------|-----|-----------------------|-----|----------------------|-----|
| <b>Pit Width (m)</b> | 0.3 | <b>Pit Length (m)</b> | 0.3 | <b>Pit Depth (m)</b> | 1.2 |
|----------------------|-----|-----------------------|-----|----------------------|-----|

|                |        |          |      |
|----------------|--------|----------|------|
| Project Number | 251009 | Location | TP03 |
|----------------|--------|----------|------|

| Time (min) | Water Level bgl (m) |        |        |
|------------|---------------------|--------|--------|
|            | Test No.            |        |        |
|            | Test 1              | Test 2 | Test 3 |
| 0          | 0.350               |        |        |
| 1          | 0.360               |        |        |
| 2          | 0.370               |        |        |
| 3          | 0.380               |        |        |
| 4          | 0.390               |        |        |
| 5          | 0.400               |        |        |
| 10         | 0.410               |        |        |
| 15         | 0.410               |        |        |
| 20         | 0.410               |        |        |
| 25         | 0.410               |        |        |
| 30         | 0.410               |        |        |
| 60         | 0.410               |        |        |
| 120        | 0.410               |        |        |
| 180        | 0.410               |        |        |
| 240        | 0.410               |        |        |
| 300        | 0.410               |        |        |

### Notes

Soakaway testing was undertaken in general accordance with BRE Digest 365. A trial pit was excavated and filled with water once to assess the infiltration rates. Due to the time constraints of the investigation and the infiltration rates, the pit could not be refilled an additional two times. Water levels were monitored at regular intervals to calculate infiltration rates.

Results reflect conditions at the test location only and may not represent the wider site. Variations in soil type, groundwater or compaction could affect soakaway performance and should be considered in design.

The test did not achieve a fall in water level between 75% and 25% effective depth during monitoring. The water level within the soakaway only dropped by 0.06m over the 6-hour test period and therefore the test is considered to have failed.

The water level monitoring curve indicates a rapid initial fall followed by a flattening trend, reflecting a slowing infiltration rate. This behaviour is consistent with the recorded ground conditions of clay soils of low permeability. Initial drawdown is considered representative of Topsoil.

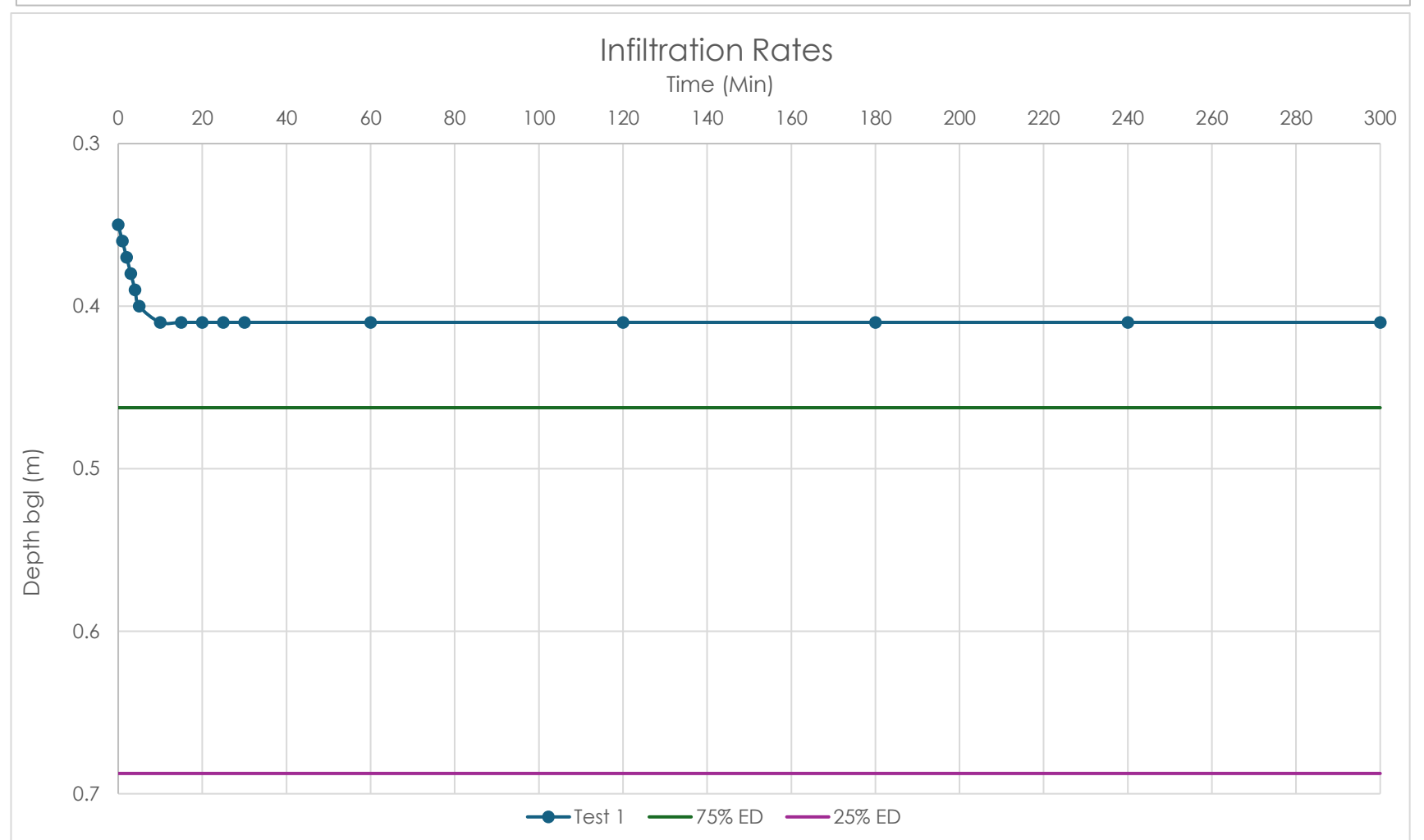
| Test 1 Rate | Test 2 Rate | Test 3 Rate |
|-------------|-------------|-------------|
| N/A         | N/A         | N/A         |

Calculated Infiltration Rate ( $\text{ms}^{-1}$ ) = FAIL

### Ground Conditions

**0.00-0.40m** – TOPSOIL. Brown clayey gravelly SAND. Sand is fine to coarse. Gravel is angular to sub-angular flint.  
**0.40-0.80m** - Orangish brown slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is angular to sub-angular flint.

**No groundwater encountered.**



|               |     |                |   |               |     |
|---------------|-----|----------------|---|---------------|-----|
| Pit Width (m) | 0.5 | Pit Length (m) | 2 | Pit Depth (m) | 0.8 |
|---------------|-----|----------------|---|---------------|-----|



|                |        |          |      |
|----------------|--------|----------|------|
| Project Number | 251009 | Location | TP04 |
|----------------|--------|----------|------|

| Time (min) | Water Level bgl (m) |        |        |
|------------|---------------------|--------|--------|
|            | Test No.            |        |        |
|            | Test 1              | Test 2 | Test 3 |
| 0          | 0.80                |        |        |
| 1          | 0.80                |        |        |
| 2          | 0.80                |        |        |
| 3          | 0.80                |        |        |
| 4          | 0.80                |        |        |
| 5          | 0.80                |        |        |
| 10         | 0.80                |        |        |
| 20         | 0.80                |        |        |
| 30         | 0.80                |        |        |
| 60         | 0.80                |        |        |
| 120        | 0.80                |        |        |
| 280        | 0.80                |        |        |
| 300        | 0.80                |        |        |
|            |                     |        |        |
|            |                     |        |        |
|            |                     |        |        |
|            |                     |        |        |
|            |                     |        |        |
|            |                     |        |        |

**Notes**  
In accordance with the methodology set out in BS 6297:2007+A1:2008, percolation testing is undertaken using trial holes measuring approximately 300 mm by 300 mm in plan, excavated to a depth extending 300 mm below the proposed base of the invert level. These trial holes are then filled with water, and the time taken for the water level to fall from 75% to 25% of the effective depth is recorded to assess infiltration rates.

On this site, Clear Environmental was instructed to undertake the testing at this location between 0.80m and 1.10m below ground level.

|             |             |             |
|-------------|-------------|-------------|
| Test 1 Rate | Test 2 Rate | Test 3 Rate |
| N/A         | N/A         | N/A         |

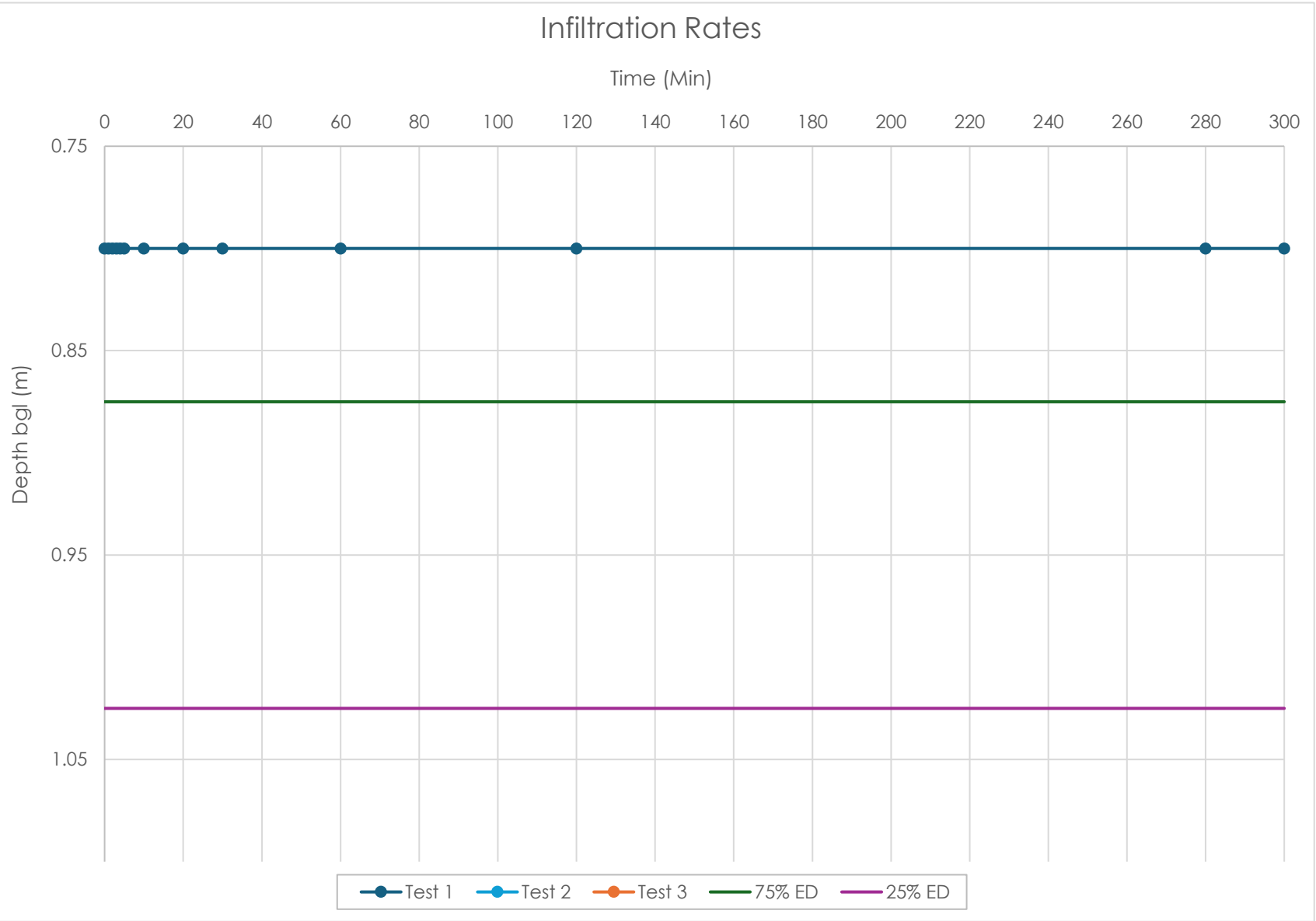
Percolation Value (secs/mm) = FAIL

**Ground Conditions**

**0.00-0.30m** – TOPSOIL. Brown clayey gravelly SAND. Sand is fine to coarse. Gravel is angular to sub-angular flint.

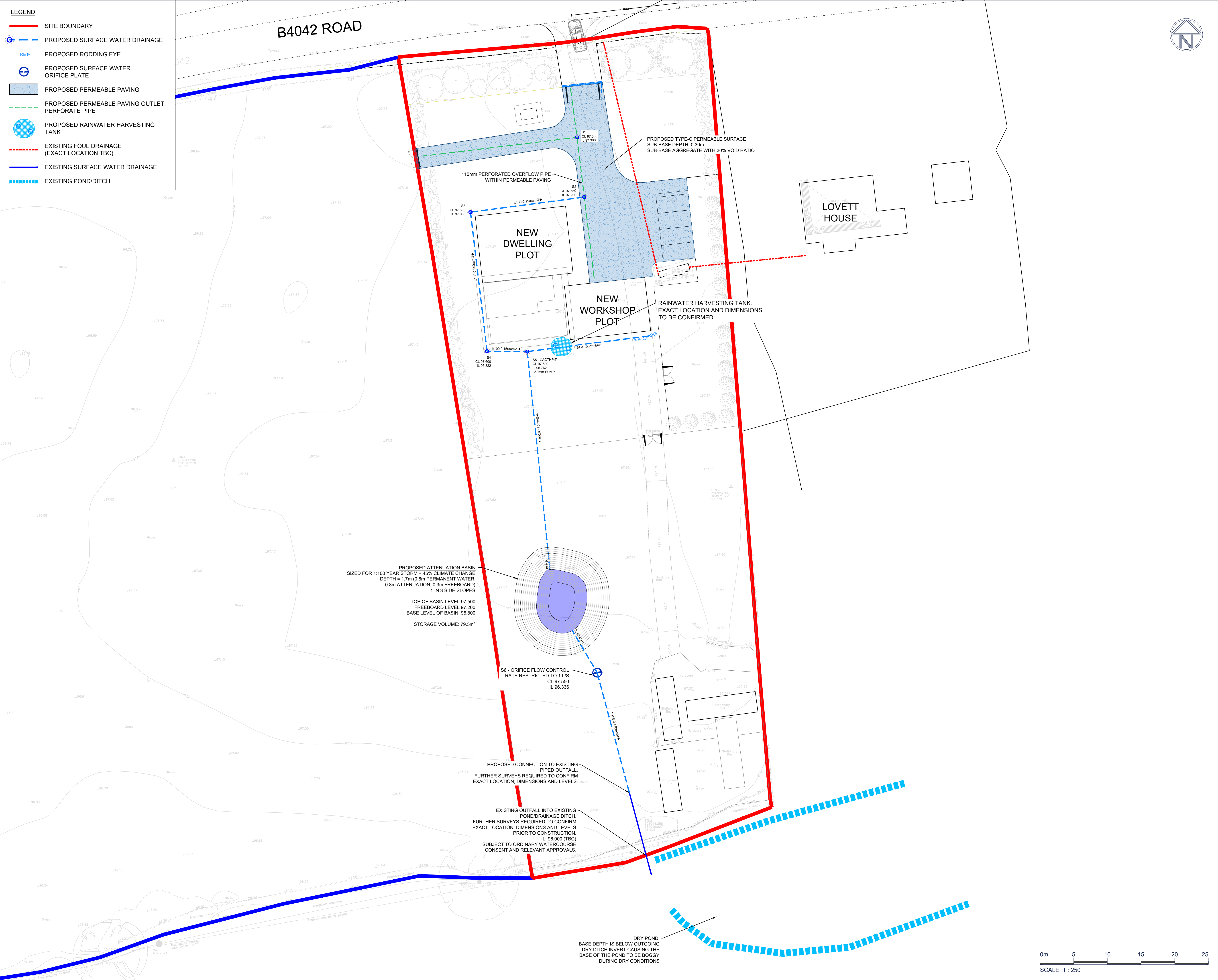
**0.30-1.10m** - Orangish brown slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is angular to sub-angular flint.

**No groundwater encountered.**



|               |     |                |     |               |     |
|---------------|-----|----------------|-----|---------------|-----|
| Pit Width (m) | 0.3 | Pit Length (m) | 0.3 | Pit Depth (m) | 1.1 |
|---------------|-----|----------------|-----|---------------|-----|

## Appendix E - Proposed Drainage Layout



DO NOT SCALE THIS DRAWING. USE FIGURED DIMENSIONS ONLY.  
THE CONTRACTOR MUST CHECK & VERIFY ALL DIMENSIONS ON SITE.  
ANY DISCREPANCIES MUST BE REPORTED IMMEDIATELY TO THE ENGINEER  
FOR CLARIFICATION BEFORE PROCEEDING.  
THIS DRAWING IS COPYRIGHT AND OWNED BY AEGAEA.

#### GENERAL NOTES

1. THIS DRAWING IS INDICATIVE ONLY AND SUBJECT TO CHANGE DURING DETAILED DESIGN AND APPROVALS FROM RELEVANT STATUTORY BODIES.
2. POSITIONS OF EXISTING SERVICES/STATUTORY UNDERTAKERS APPARATUS ADJACENT TO OR CROSSING PROPOSED EXCAVATIONS ARE TO BE CONFIRMED PRIOR TO START ON SITE.
3. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH AND CHECKED AGAINST ALL ENGINEERING DETAILS, SPECIFICATIONS, GEOTECHNICAL AND OTHER RELEVANT DOCUMENTATION PROVIDED.
4. THIS DRAWING IS SCHEMATIC FOR CLARITY ONLY, POSITIONS OF PIPE RUNS AND MANHOLES MAY VARY ON SITE DUE TO SITE CONDITIONS.
5. WHERE EXISTING OR PROPOSED TREES ARE ADJACENT TO ACCESS ROADS OR DRAINAGE, ROOT BARRIERS (TYPE TO BE APPROVED) ARE REQUIRED TO PREVENT STRUCTURAL DAMAGE.
6. ANY ANOMALY OR CONTRADICTIONS BETWEEN ANY OF THE ABOVE IS TO BE REPORTED IMMEDIATELY.
7. THE DESIGN IS TO COMPLY IN ALL ASPECTS WITH THE CURRENT BRITISH STANDARDS, BUILDING REGULATIONS AND BUILDING LEGISLATION ETC.
8. ALL PIPE SIZES, CHAMBER DEPTHS, SIZE & QUANTITY SUBJECT TO REVIEW AND DETAILED DESIGN. ALL ADOPTED PIPE WORK ROUTING AND ANY EASEMENTS SUBJECT TO FULL DESIGN REVIEW AND APPROVAL BY THE RELEVANT BODIES.
9. DRAINAGE DESIGN SUBJECT TO DETAILED LEVELS AND EXTERNAL WORKS DESIGN.
10. SUBJECT TO DETAILED DESIGN AND APPROVAL.

THIS DRAWING IS FOR PLANNING PURPOSES ONLY  
AND NOT FOR CONSTRUCTION  
SUBJECT TO WATER AUTHORITY TECHNICAL  
APPROVAL

|     |          |                     |    |
|-----|----------|---------------------|----|
| A02 | 16.02.26 | UPDATED SITE LAYOUT | CM |
| A01 | 11.12.25 | FIRST ISSUE         | CM |

| Rev | Date | Description | By |
|-----|------|-------------|----|
|-----|------|-------------|----|

Client

ED GREENING

Project

LONG GOSS, LITTLE SOMERFORD

Title

PROPOSED SURFACE WATER DRAINAGE  
LAYOUT

| Project No. | Drawing No. | Revision |
|-------------|-------------|----------|
| AEG9241     | CIV-100     | A02      |

| Drawn | Checked | Approved | Date     | Scale @ A1 |
|-------|---------|----------|----------|------------|
| CM    | DB      | JM       | DEC 2025 | 1:250      |

Drawing Status  
PLANNING

**aegaea**  
water, civils and environment



FIGURE B.19  
TYPICAL INSPECTION CHAMBER DETAIL - TYPE D

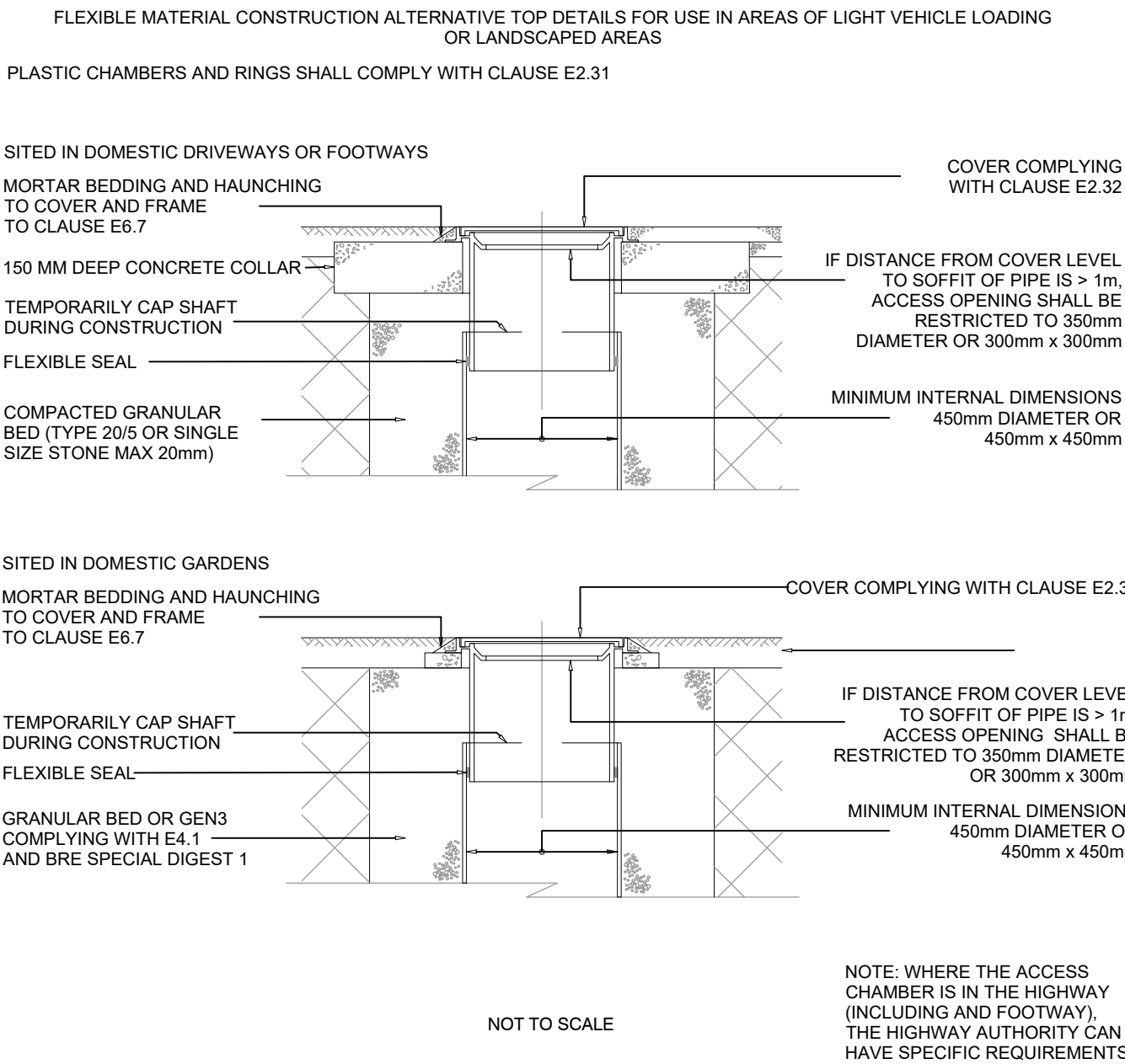
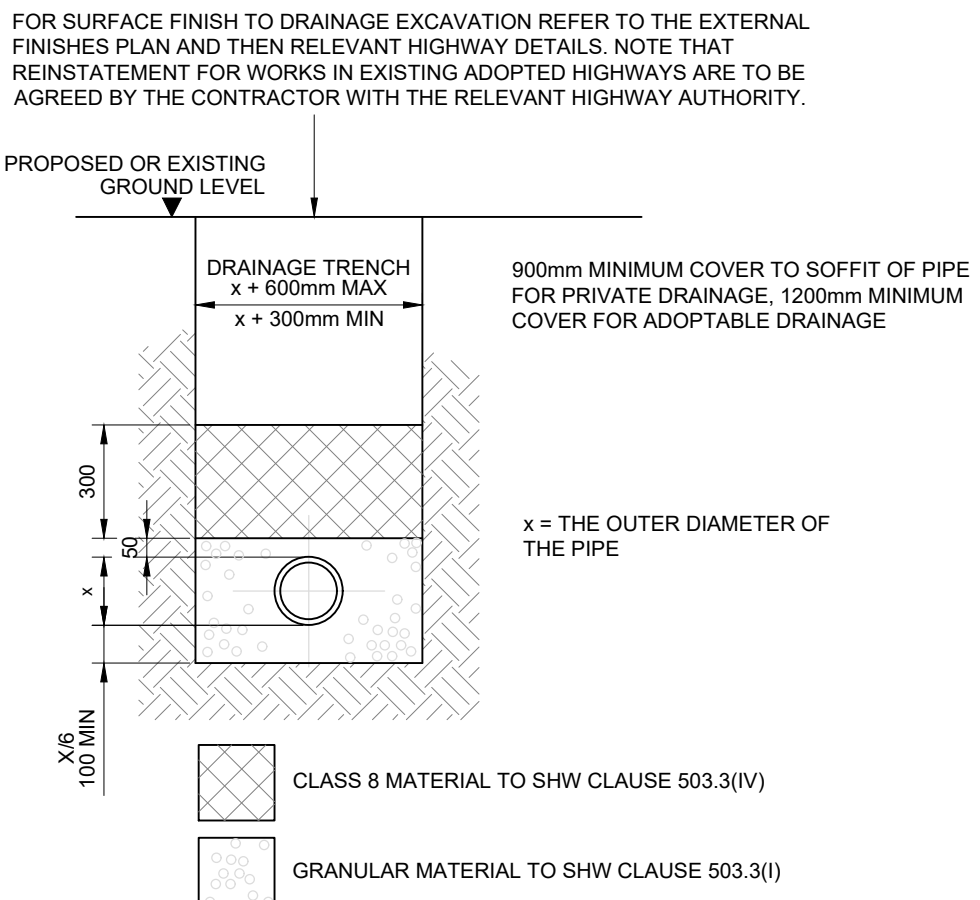
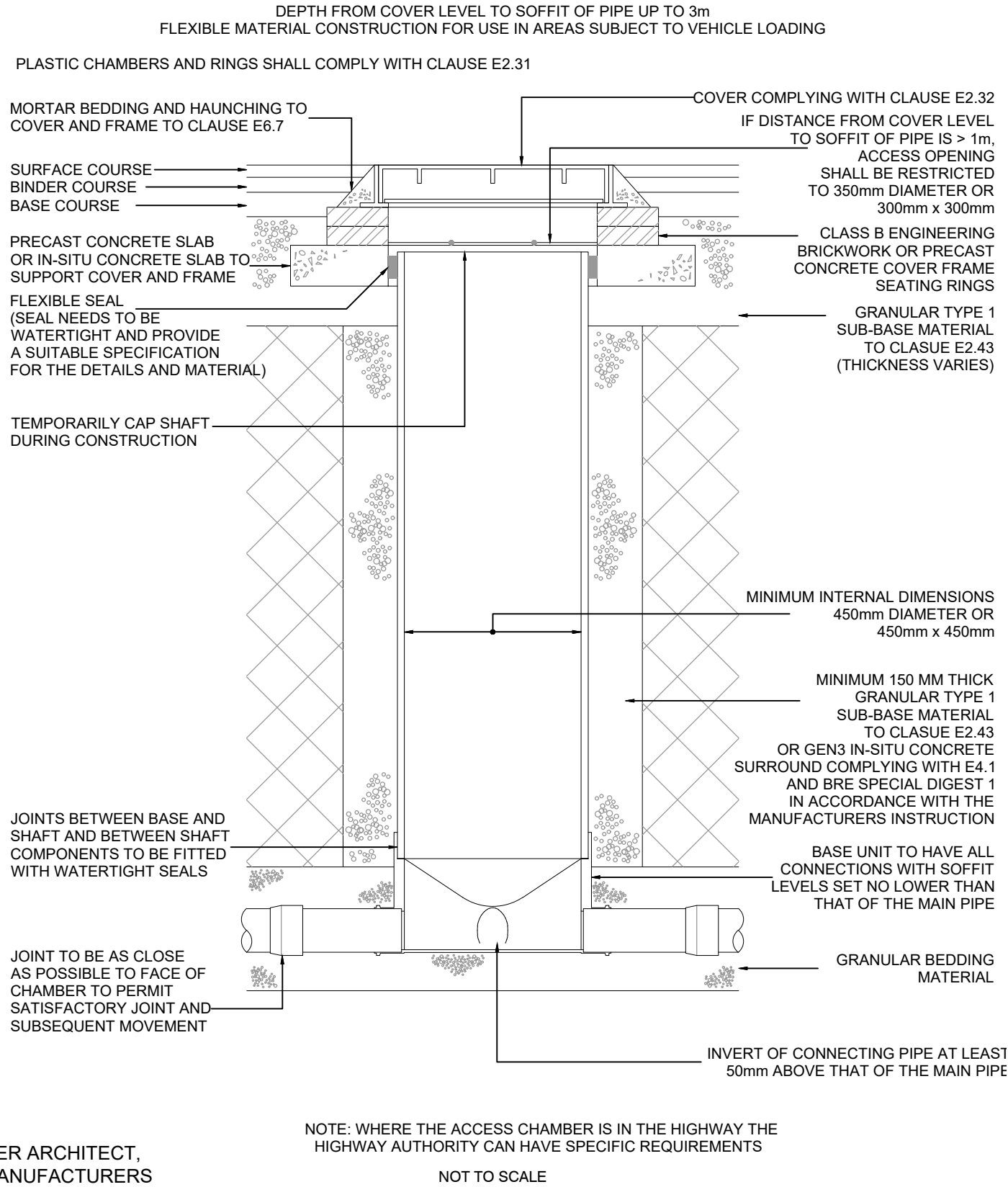
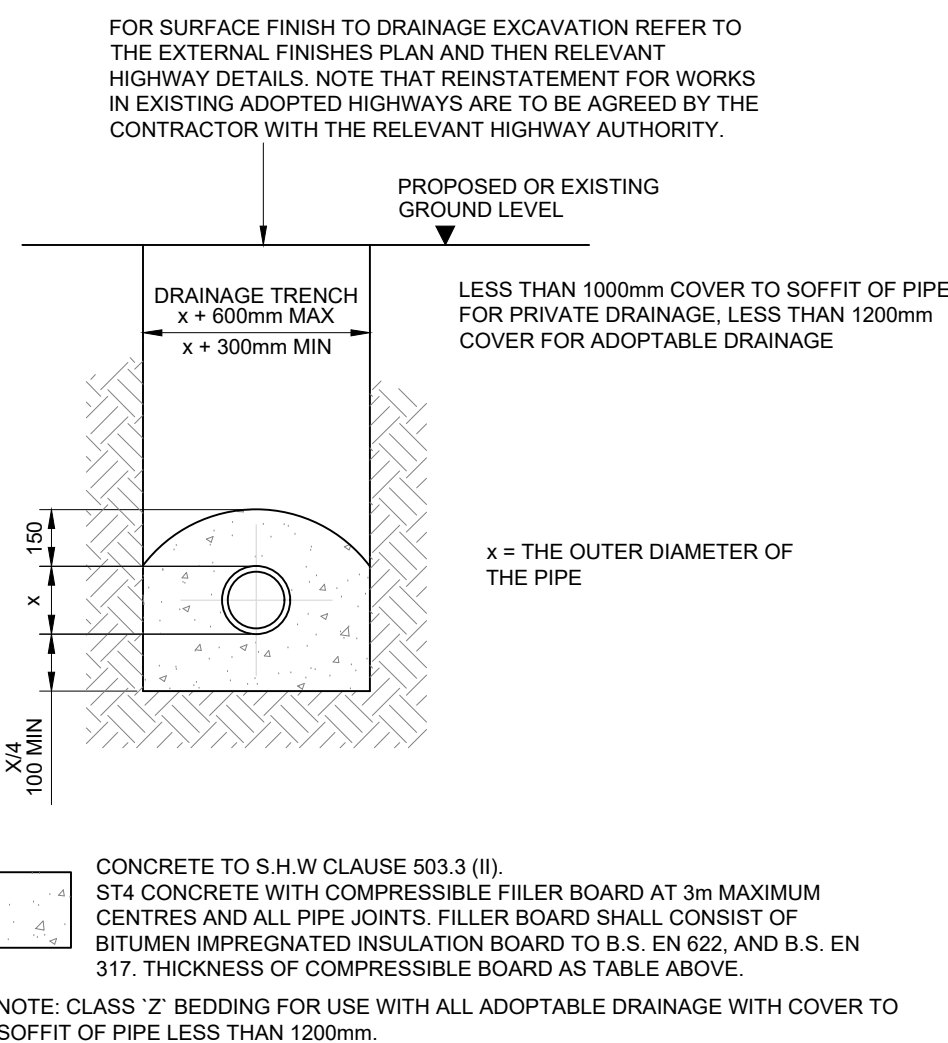


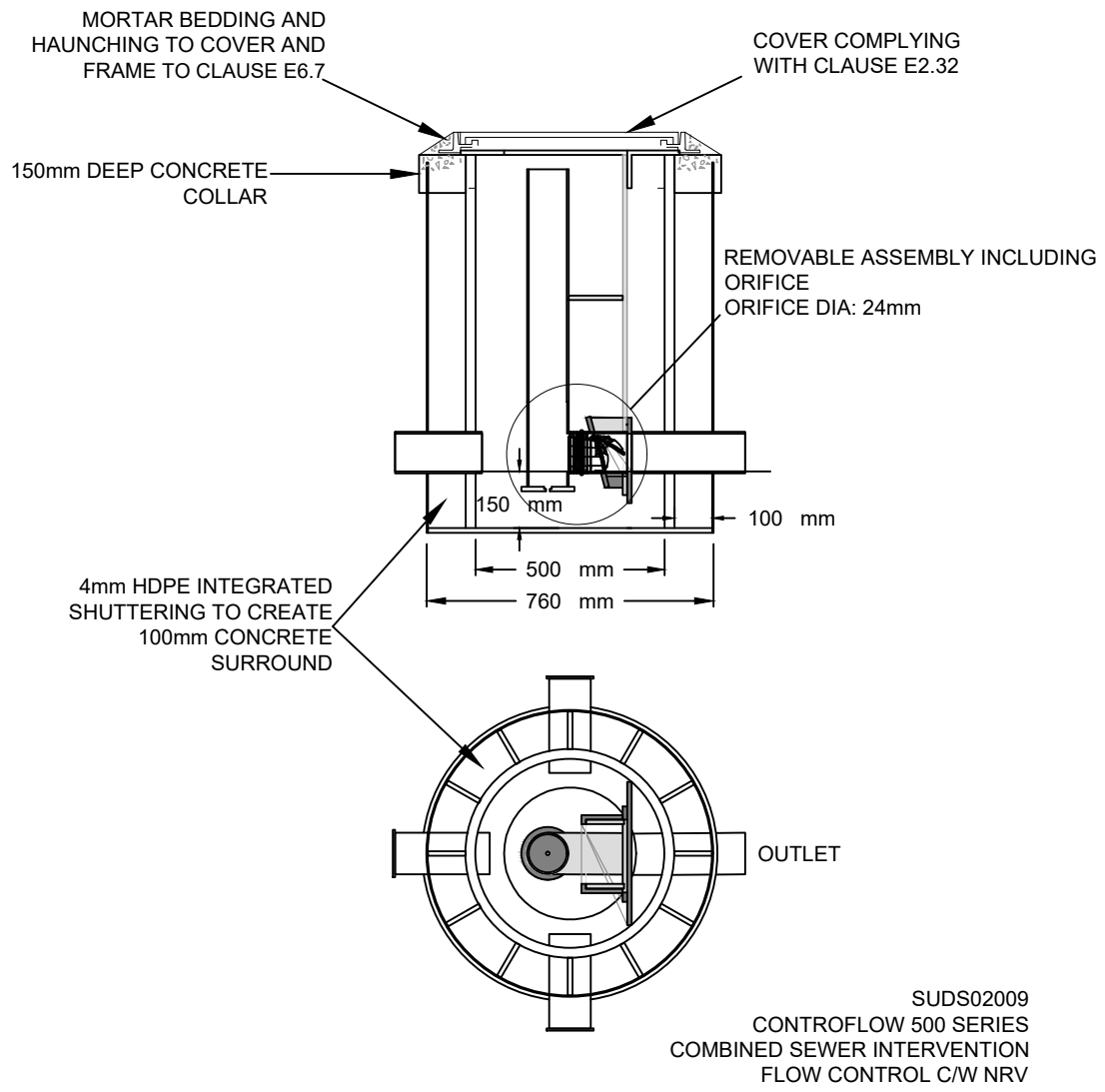
FIGURE B.18  
TYPICAL INSPECTION CHAMBER DETAIL - TYPE D



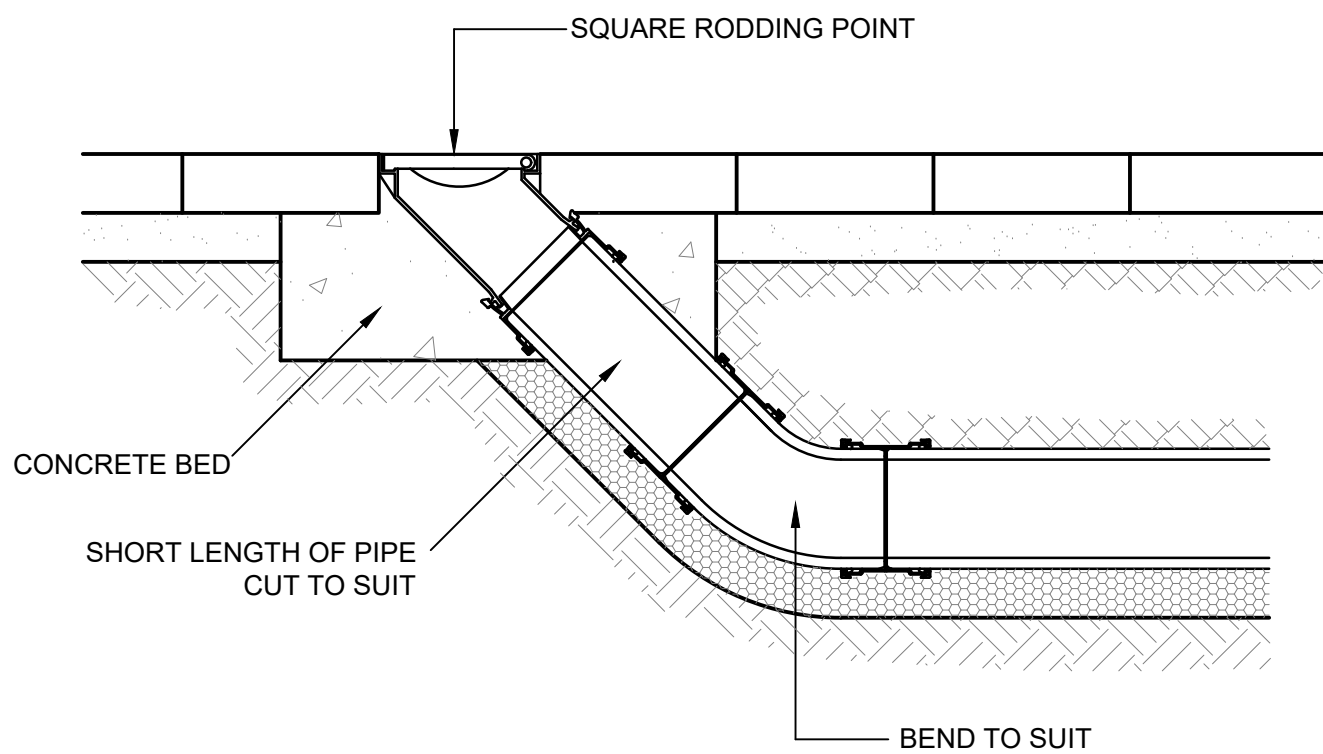
CLASS 'S' PIPE BEDDING



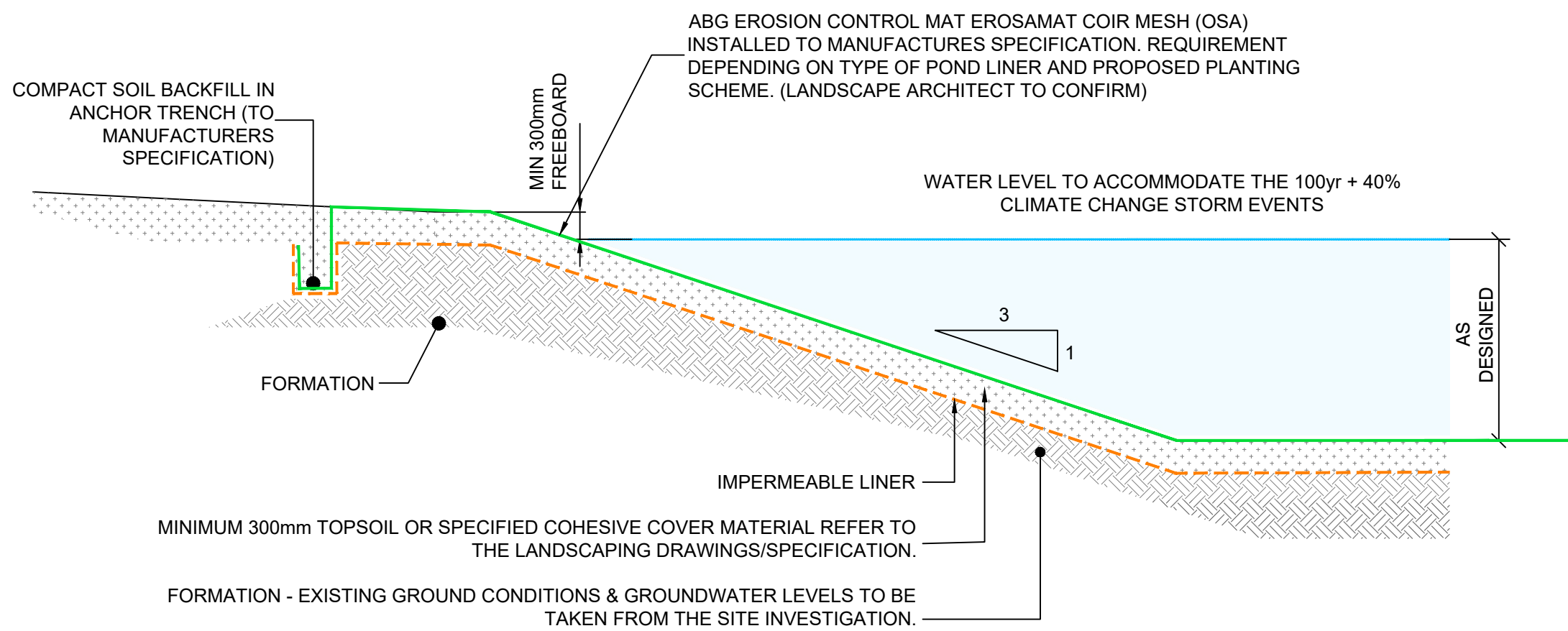
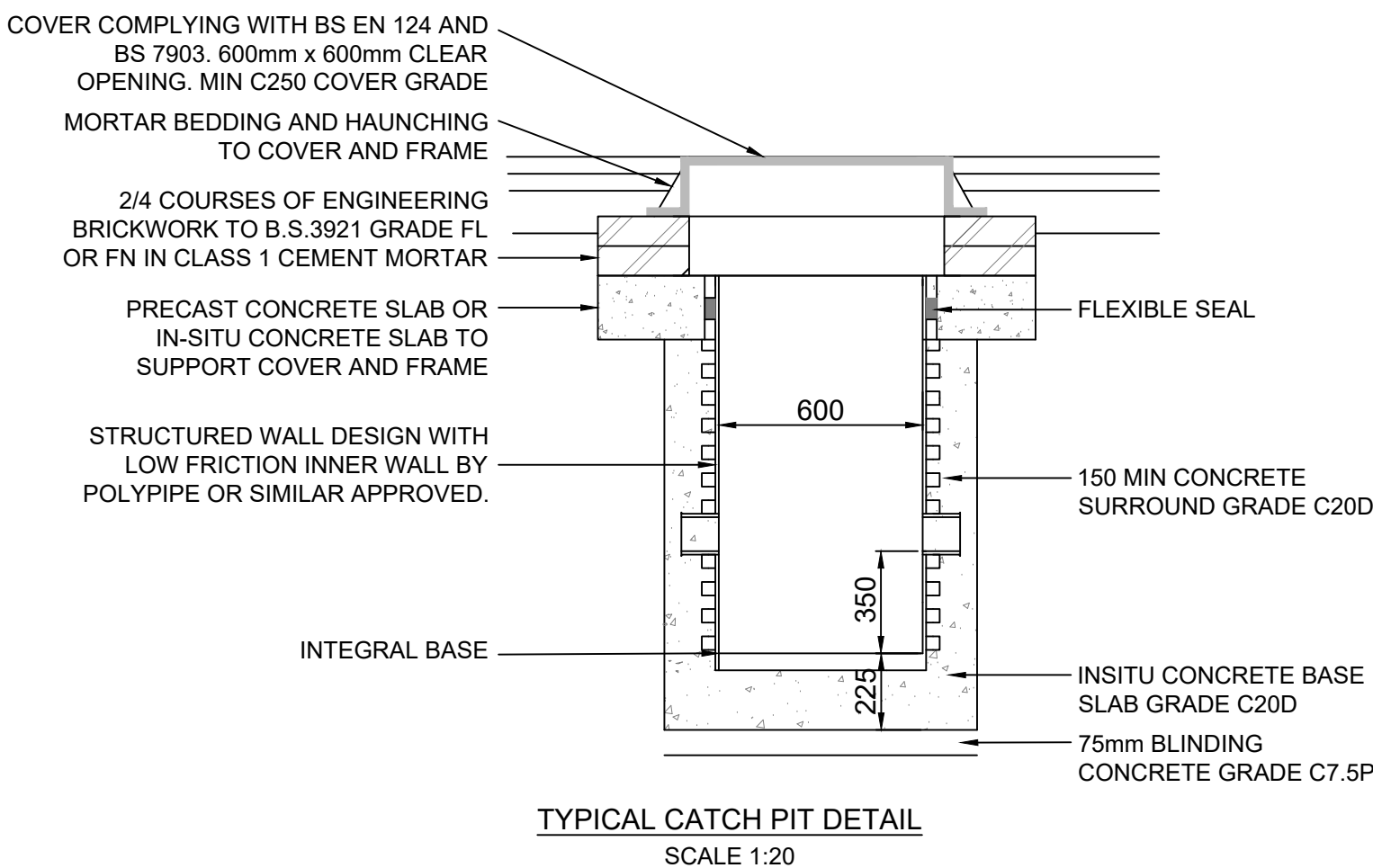
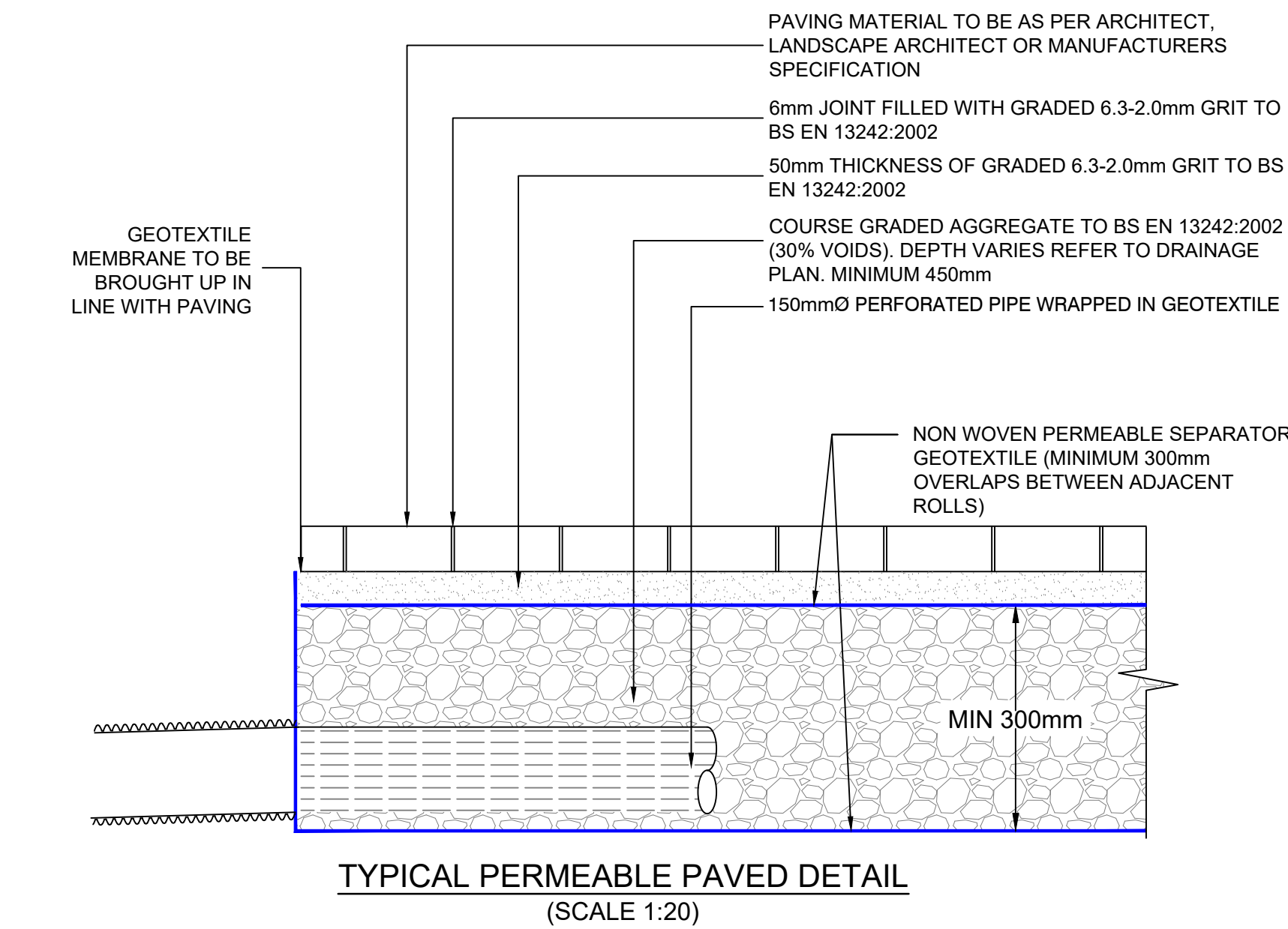
CLASS 'Z' PIPE BEDDING



ORIFICE FLOW CONTROL CHAMBER  
DETAIL TO BE CONFIRMED WITH MANUFACTURER FOR SITE SPECIFIC REQUIREMENTS



RODDING EYE DETAIL



DO NOT SCALE THIS DRAWING. USE FIGURED DIMENSIONS ONLY. THE CONTRACTOR MUST CHECK & VERIFY ALL DIMENSIONS ON SITE. ANY DISCREPANCIES MUST BE REPORTED IMMEDIATELY TO THE ENGINEER FOR CLARIFICATION BEFORE PROCEEDING. THIS DRAWING IS COPYRIGHT AND OWNED BY AEGAEA.

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION REFER TO THE RELEVANT CONSTRUCTION (DESIGN AND MANAGEMENT) DOCUMENTATION WHERE APPLICABLE. IT IS ASSUMED THAT ALL WORKS ON THIS DRAWING WILL BE CARRIED OUT BY A COMPETENT CONTRACTOR, WORKING WHERE APPROPRIATE TO AN APPROVED METHOD STATEMENT.

GENERAL NOTES

- THIS DRAWING IS INDICATIVE ONLY AND SUBJECT TO CHANGE DURING DETAILED DESIGN AND APPROVALS FROM RELEVANT STATUTORY BODIES.
- POSITIONS OF EXISTING SERVICES/STATUTORY UNDERTAKERS APPARATUS ADJACENT TO OR CROSSING PROPOSED EXCAVATIONS ARE TO BE CONFIRMED PRIOR TO START ON SITE.
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH AND CHECKED AGAINST ALL ENGINEERING DETAILS, SPECIFICATIONS, GEOTECHNICAL AND OTHER RELEVANT DOCUMENTATION PROVIDED.
- THIS DRAWING IS SCHEMATIC FOR CLARITY ONLY. POSITIONS OF PIPE RUNS AND MANHOLES MAY VARY ON SITE DUE TO SITE CONDITIONS.
- WHERE EXISTING OR PROPOSED TREES ARE ADJACENT TO ACCESS ROADS OR DRAINAGE, ROOT BARRIERS (TYPE TO BE APPROVED) ARE REQUIRED TO PREVENT STRUCTURAL DAMAGE.
- ANY ANOMALY OR CONTRADICTIONS BETWEEN ANY OF THE ABOVE IS TO BE REPORTED IMMEDIATELY.
- THE DESIGN IS TO COMPLY IN ALL ASPECTS WITH THE CURRENT BRITISH STANDARDS, BUILDING REGULATIONS AND BUILDING LEGISLATION ETC.
- ALL PIPE SIZES, CHAMBER DEPTHS, SIZE & QUANTITY SUBJECT TO REVIEW AND DETAILED DESIGN. ALL ADOPTED PIPE WORK ROUTING AND ANY EASEMENTS SUBJECT TO FULL DESIGN REVIEW AND APPROVAL BY THE RELEVANT BODIES.
- DRAINAGE DESIGN SUBJECT TO DETAILED LEVELS AND EXTERNAL WORKS DESIGN.
- SUBJECT TO DETAILED DESIGN AND APPROVAL.

THIS DRAWING IS FOR PLANNING PURPOSES ONLY AND NOT FOR CONSTRUCTION SUBJECT TO WATER AUTHORITY TECHNICAL APPROVAL

| A01                                                                  | 11.12.25    | FIRST ISSUE | CM       |
|----------------------------------------------------------------------|-------------|-------------|----------|
| Rev                                                                  | Date        | Description | By       |
| Client                                                               |             |             |          |
| ED GREENING                                                          |             |             |          |
| Project                                                              |             |             |          |
| LONG GOSS, LITTLE SOMERFORD                                          |             |             |          |
| Title                                                                |             |             |          |
| PROPOSED DRAINAGE DETAILS                                            |             |             |          |
| Project No.                                                          | Drawing No. | Revision    |          |
| AEG9241                                                              | CIV-110     | A01         |          |
| Drawn                                                                | Checked     | Approved    | Date     |
| CM                                                                   | DB          | JM          | DEC 2025 |
| Scale @ A1                                                           | 1:250       |             |          |
| Drawing Status                                                       |             |             |          |
| PLANNING                                                             |             |             |          |
| <div><div>aegaea</div><div>water, civils and environment</div></div> |             |             |          |

# Appendix F - Drainage Calculations

**Design Settings**

|                       |                   |                                      |               |
|-----------------------|-------------------|--------------------------------------|---------------|
| Rainfall Methodology  | FSR               | Maximum Time of Concentration (mins) | 30.00         |
| Return Period (years) | 2                 | Maximum Rainfall (mm/hr)             | 50.0          |
| Additional Flow (%)   | 0                 | Minimum Velocity (m/s)               | 1.00          |
| FSR Region            | England and Wales | Connection Type                      | Level Soffits |
| M5-60 (mm)            | 20.000            | Minimum Backdrop Height (m)          | 0.200         |
| Ratio-R               | 0.400             | Preferred Cover Depth (m)            | 0.450         |
| CV                    | 1.000             | Include Intermediate Ground          | ✓             |
| Time of Entry (mins)  | 5.00              | Enforce best practice design rules   | ✓             |

**Nodes**

| Name    | Area<br>(ha) | T of E<br>(mins) | Cover<br>Level<br>(m) | Node<br>Type | Diameter<br>(mm) | Easting<br>(m) | Northing<br>(m) | Depth<br>(m) | Invert<br>Level<br>(m) |
|---------|--------------|------------------|-----------------------|--------------|------------------|----------------|-----------------|--------------|------------------------|
| 1       | 0.017        | 5.00             | 97.650                | Manhole      | 600              | 396901.217     | 185023.204      | 0.350        | 97.300                 |
| 2       | 0.025        | 5.00             | 97.550                | Manhole      | 600              | 396902.295     | 185014.329      | 0.350        | 97.200                 |
| 3       | 0.007        | 5.00             | 97.500                | Manhole      | 600              | 396885.388     | 185012.095      | 0.470        | 97.030                 |
| 4       | 0.007        | 5.00             | 97.600                | Manhole      | 600              | 396887.843     | 184991.424      | 0.778        | 96.822                 |
| 5       | 0.010        | 5.00             | 97.600                | Manhole      | 600              | 396893.821     | 184991.374      | 0.838        | 96.762                 |
| BASIN   | 0.024        | 5.00             | 97.200                | Junction     |                  | 396900.400     | 184950.006      | 0.800        | 96.400                 |
| 6       |              |                  | 97.550                | Manhole      | 1200             | 396904.205     | 184943.660      | 1.214        | 96.336                 |
| OUTFALL |              |                  | 96.860                | Junction     |                  | 396911.652     | 184915.560      | 0.860        | 96.000                 |

Links

| Name  | US Node | DS Node | Length (m) | ks (mm) / n | US IL (m) | DS IL (m) | Fall (m) | Slope (1:X) | Dia (mm) | Link Type | T of C (mins) | Rain (mm/hr) |
|-------|---------|---------|------------|-------------|-----------|-----------|----------|-------------|----------|-----------|---------------|--------------|
| 1.000 | 1       | 2       | 8.940      | 0.600       | 97.300    | 97.200    | 0.100    | 89.4        | 110      | Circular  | 5.17          | 50.0         |
| 1.001 | 2       | 3       | 17.054     | 0.600       | 97.200    | 97.030    | 0.170    | 100.3       | 110      | Circular  | 5.52          | 50.0         |
| 1.002 | 3       | 4       | 20.816     | 0.600       | 97.030    | 96.822    | 0.208    | 100.0       | 150      | Circular  | 5.86          | 50.0         |
| 1.003 | 4       | 5       | 5.978      | 0.600       | 96.822    | 96.762    | 0.060    | 99.6        | 150      | Circular  | 5.96          | 50.0         |
| 1.004 | 5       | BASIN   | 41.888     | 0.600       | 96.762    | 96.400    | 0.362    | 115.7       | 150      | Circular  | 6.71          | 50.0         |
| 1.005 | BASIN   | 6       | 7.399      | 0.600       | 96.400    | 96.336    | 0.064    | 115.6       | 150      | Circular  | 6.84          | 50.0         |
| 1.006 | 6       | OUTFALL | 29.070     | 0.600       | 96.336    | 96.000    | 0.336    | 86.5        | 150      | Circular  | 7.29          | 50.0         |

| Name  | US Node | DS Node | Vel (m/s) | Cap (l/s) | Flow (l/s) | US Depth (m) | DS Depth (m) | Σ Area (ha) | Σ Add Inflow (l/s) | Pro Depth (mm) | Pro Velocity (m/s) |
|-------|---------|---------|-----------|-----------|------------|--------------|--------------|-------------|--------------------|----------------|--------------------|
| 1.000 | 1       | 2       | 0.867     | 8.2       | 3.1        | 0.240        | 0.240        | 0.017       | 0.0                | 47             | 0.806              |
| 1.001 | 2       | 3       | 0.818     | 7.8       | 7.6        | 0.240        | 0.360        | 0.042       | 0.0                | 88             | 0.931              |
| 1.002 | 3       | 4       | 1.005     | 17.8      | 8.9        | 0.320        | 0.628        | 0.049       | 0.0                | 75             | 1.003              |
| 1.003 | 4       | 5       | 1.006     | 17.8      | 10.1       | 0.628        | 0.688        | 0.056       | 0.0                | 81             | 1.039              |
| 1.004 | 5       | BASIN   | 0.933     | 16.5      | 11.9       | 0.688        | 0.650        | 0.066       | 0.0                | 95             | 1.015              |
| 1.005 | BASIN   | 6       | 0.933     | 16.5      | 16.3       | 0.650        | 1.064        | 0.090       | 0.0                | 122            | 1.061              |
| 1.006 | 6       | OUTFALL | 1.081     | 19.1      | 16.3       | 1.064        | 0.710        | 0.090       | 0.0                | 106            | 1.211              |

**Pipeline Schedule**

| Link  | Length<br>(m) | Slope<br>(1:X) | Dia<br>(mm) | Link<br>Type | US CL<br>(m) | US IL<br>(m) | US Depth<br>(m) | DS CL<br>(m) | DS IL<br>(m) | DS Depth<br>(m) |
|-------|---------------|----------------|-------------|--------------|--------------|--------------|-----------------|--------------|--------------|-----------------|
| 1.000 | 8.940         | 89.4           | 110         | Circular     | 97.650       | 97.300       | 0.240           | 97.550       | 97.200       | 0.240           |
| 1.001 | 17.054        | 100.3          | 110         | Circular     | 97.550       | 97.200       | 0.240           | 97.500       | 97.030       | 0.360           |
| 1.002 | 20.816        | 100.0          | 150         | Circular     | 97.500       | 97.030       | 0.320           | 97.600       | 96.822       | 0.628           |
| 1.003 | 5.978         | 99.6           | 150         | Circular     | 97.600       | 96.822       | 0.628           | 97.600       | 96.762       | 0.688           |
| 1.004 | 41.888        | 115.7          | 150         | Circular     | 97.600       | 96.762       | 0.688           | 97.200       | 96.400       | 0.650           |
| 1.005 | 7.399         | 115.6          | 150         | Circular     | 97.200       | 96.400       | 0.650           | 97.550       | 96.336       | 1.064           |
| 1.006 | 29.070        | 86.5           | 150         | Circular     | 97.550       | 96.336       | 1.064           | 96.860       | 96.000       | 0.710           |

| Link  | US<br>Node | Dia<br>(mm) | Node<br>Type | MH<br>Type | DS<br>Node | Dia<br>(mm) | Node<br>Type | MH<br>Type |
|-------|------------|-------------|--------------|------------|------------|-------------|--------------|------------|
| 1.000 | 1          | 600         | Manhole      | Adoptable  | 2          | 600         | Manhole      | Adoptable  |
| 1.001 | 2          | 600         | Manhole      | Adoptable  | 3          | 600         | Manhole      | Adoptable  |
| 1.002 | 3          | 600         | Manhole      | Adoptable  | 4          | 600         | Manhole      | Adoptable  |
| 1.003 | 4          | 600         | Manhole      | Adoptable  | 5          | 600         | Manhole      | Adoptable  |
| 1.004 | 5          | 600         | Manhole      | Adoptable  | BASIN      |             | Junction     |            |
| 1.005 | BASIN      |             | Junction     |            | 6          | 1200        | Manhole      | Adoptable  |
| 1.006 | 6          | 1200        | Manhole      | Adoptable  | OUTFALL    |             | Junction     |            |

**Manhole Schedule**

| Node | Easting<br>(m) | Northing<br>(m) | CL<br>(m) | Depth<br>(m) | Dia<br>(mm) | Connections                                                                           | Link | IL<br>(m) | Dia<br>(mm) |     |
|------|----------------|-----------------|-----------|--------------|-------------|---------------------------------------------------------------------------------------|------|-----------|-------------|-----|
| 1    | 396901.217     | 185023.204      | 97.650    | 0.350        | 600         |  | 0    | 1.000     | 97.300      | 110 |
| 2    | 396902.295     | 185014.329      | 97.550    | 0.350        | 600         |  | 1    | 1.000     | 97.200      | 110 |
|      |                |                 |           |              |             |                                                                                       | 0    | 1.001     | 97.200      | 110 |

**Manhole Schedule**

| Node    | Easting<br>(m) | Northing<br>(m) | CL<br>(m) | Depth<br>(m) | Dia<br>(mm) | Connections                                                                                 | Link  | IL<br>(m) | Dia<br>(mm) |
|---------|----------------|-----------------|-----------|--------------|-------------|---------------------------------------------------------------------------------------------|-------|-----------|-------------|
| 3       | 396885.388     | 185012.095      | 97.500    | 0.470        | 600         |  1<br>0  | 1.001 | 97.030    | 110         |
| 4       | 396887.843     | 184991.424      | 97.600    | 0.778        | 600         |  1<br>0  | 1.002 | 97.030    | 150         |
| 5       | 396893.821     | 184991.374      | 97.600    | 0.838        | 600         |  1<br>0  | 1.003 | 96.822    | 150         |
| BASIN   | 396900.400     | 184950.006      | 97.200    | 0.800        |             |  1<br>0  | 1.004 | 96.762    | 150         |
| 6       | 396904.205     | 184943.660      | 97.550    | 1.214        | 1200        |  1<br>0  | 1.005 | 96.400    | 150         |
| OUTFALL | 396911.652     | 184915.560      | 96.860    | 0.860        |             |  1<br>0 | 1.006 | 96.762    | 150         |

**Simulation Settings**

|                      |                   |                        |        |                            |     |
|----------------------|-------------------|------------------------|--------|----------------------------|-----|
| Rainfall Methodology | FSR               | Summer CV              | 1.000  | Additional Storage (m³/ha) | 0.0 |
| Rainfall Events      | Singular          | Winter CV              | 1.000  | Starting Level (m)         |     |
| FSR Region           | England and Wales | Analysis Speed         | Normal | Check Discharge Rate(s)    | x   |
| M5-60 (mm)           | 20.000            | Skip Steady State      | x      | Check Discharge Volume     | x   |
| Ratio-R              | 0.400             | Drain Down Time (mins) | 240    |                            |     |

| Storm Durations       |                       |                       |                       |                       |     |     |     |                       |                       |                       |     |      |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----|-----|-----|-----------------------|-----------------------|-----------------------|-----|------|
|                       | 15                    | 30                    | 60                    | 120                   | 180 | 240 | 360 | 480                   | 600                   | 720                   | 960 | 1440 |
| Return Period (years) | Climate Change (CC %) | Additional Area (A %) | Additional Flow (Q %) | Return Period (years) |     |     |     | Climate Change (CC %) | Additional Area (A %) | Additional Flow (Q %) |     |      |
| 2                     | 0                     | 0                     | 0                     | 100                   |     |     |     | 45                    | 0                     | 0                     |     |      |
| 30                    | 0                     | 0                     | 0                     |                       |     |     |     |                       |                       |                       |     |      |

#### Node 6 Online Orifice Control

|                          |   |                  |        |                   |       |                       |       |
|--------------------------|---|------------------|--------|-------------------|-------|-----------------------|-------|
| Flap Valve               | x | Invert Level (m) | 96.336 | Design Flow (l/s) | 1.0   | Discharge Coefficient | 0.600 |
| Replaces Downstream Link | x | Design Depth (m) | 1.100  | Diameter (m)      | 0.021 |                       |       |

#### Node 1 Carpark Storage Structure

|                             |         |                           |        |             |        |               |       |
|-----------------------------|---------|---------------------------|--------|-------------|--------|---------------|-------|
| Base Inf Coefficient (m/hr) | 0.00000 | Porosity                  | 0.30   | Width (m)   | 4.300  | Depth (m)     | 0.300 |
| Side Inf Coefficient (m/hr) | 0.00000 | Invert Level (m)          | 97.300 | Length (m)  | 29.000 | Inf Depth (m) |       |
| Safety Factor               | 2.0     | Time to half empty (mins) | 16     | Slope (1:X) | 500.0  |               |       |

#### Node 2 Carpark Storage Structure

|                             |         |                           |        |             |        |               |       |
|-----------------------------|---------|---------------------------|--------|-------------|--------|---------------|-------|
| Base Inf Coefficient (m/hr) | 0.00000 | Porosity                  | 0.30   | Width (m)   | 12.440 | Depth (m)     | 0.500 |
| Side Inf Coefficient (m/hr) | 0.00000 | Invert Level (m)          | 97.200 | Length (m)  | 20.400 | Inf Depth (m) |       |
| Safety Factor               | 2.0     | Time to half empty (mins) | 43     | Slope (1:X) | 500.0  |               |       |

#### Node BASIN Depth/Area Storage Structure

|                             |         |               |      |                           |        |
|-----------------------------|---------|---------------|------|---------------------------|--------|
| Base Inf Coefficient (m/hr) | 0.00000 | Safety Factor | 2.0  | Invert Level (m)          | 96.400 |
| Side Inf Coefficient (m/hr) | 0.00000 | Porosity      | 1.00 | Time to half empty (mins) |        |

| Depth (m) | Area (m²) | Inf Area (m²) | Depth (m) | Area (m²) | Inf Area (m²) |
|-----------|-----------|---------------|-----------|-----------|---------------|
| 0.000     | 57.6      | 57.6          | 0.800     | 141.7     | 146.1         |

**Other (defaults)**

|                      |       |                       |       |                          |       |
|----------------------|-------|-----------------------|-------|--------------------------|-------|
| Entry Loss (manhole) | 0.250 | Entry Loss (junction) | 0.000 | Apply Recommended Losses | x     |
| Exit Loss (manhole)  | 0.250 | Exit Loss (junction)  | 0.000 | Flood Risk (m)           | 0.300 |

**Results for 2 year Critical Storm Duration. Lowest mass balance: 99.90%**

| Node Event        | US Node | Peak (mins) | Level (m) | Depth (m) | Inflow (l/s) | Node Vol (m³) | Flood (m³) | Status     |
|-------------------|---------|-------------|-----------|-----------|--------------|---------------|------------|------------|
| 15 minute summer  | 1       | 12          | 97.344    | 0.044     | 3.9          | 0.6478        | 0.0000     | OK         |
| 30 minute summer  | 2       | 24          | 97.253    | 0.053     | 7.3          | 2.4721        | 0.0000     | OK         |
| 30 minute summer  | 3       | 21          | 97.079    | 0.049     | 4.0          | 0.0138        | 0.0000     | OK         |
| 30 minute summer  | 4       | 19          | 96.884    | 0.062     | 5.3          | 0.0174        | 0.0000     | OK         |
| 15 minute summer  | 5       | 11          | 96.837    | 0.075     | 7.3          | 0.0212        | 0.0000     | OK         |
| 240 minute winter | BASIN   | 232         | 96.631    | 0.231     | 3.6          | 16.0790       | 0.0000     | SURCHARGED |
| 240 minute winter | 6       | 232         | 96.631    | 0.295     | 1.2          | 0.3331        | 0.0000     | SURCHARGED |
| 240 minute winter | OUTFALL | 232         | 96.017    | 0.017     | 0.5          | 0.0000        | 0.0000     | OK         |

| Link Event<br>(Upstream Depth) | US Node | Link  | DS Node | Outflow (l/s) | Velocity (m/s) | Flow/Cap | Link Vol (m³) | Discharge Vol (m³) |
|--------------------------------|---------|-------|---------|---------------|----------------|----------|---------------|--------------------|
| 15 minute summer               | 1       | 1.000 | 2       | 2.6           | 0.725          | 0.319    | 0.0335        |                    |
| 30 minute summer               | 2       | 1.001 | 3       | 3.4           | 0.815          | 0.437    | 0.0718        |                    |
| 30 minute summer               | 3       | 1.002 | 4       | 4.0           | 0.734          | 0.228    | 0.1216        |                    |
| 30 minute summer               | 4       | 1.003 | 5       | 5.2           | 0.734          | 0.293    | 0.0448        |                    |
| 15 minute summer               | 5       | 1.004 | BASIN   | 7.3           | 1.196          | 0.443    | 0.3372        |                    |
| 240 minute winter              | BASIN   | 1.005 | 6       | 1.2           | 0.205          | 0.070    | 0.1303        |                    |
| 240 minute winter              | 6       | 1.006 | OUTFALL | 0.5           | 0.462          | 0.025    | 0.0306        | 11.1               |

**Results for 30 year Critical Storm Duration. Lowest mass balance: 99.42%**

| Node Event        | US Node | Peak (mins) | Level (m) | Depth (m) | Inflow (l/s) | Node Vol (m³) | Flood (m³) | Status     |
|-------------------|---------|-------------|-----------|-----------|--------------|---------------|------------|------------|
| 15 minute summer  | 1       | 13          | 97.363    | 0.063     | 7.5          | 1.2930        | 0.0000     | OK         |
| 30 minute summer  | 2       | 24          | 97.281    | 0.081     | 13.8         | 4.6631        | 0.0000     | OK         |
| 30 minute summer  | 3       | 20          | 97.100    | 0.070     | 7.8          | 0.0199        | 0.0000     | OK         |
| 30 minute summer  | 4       | 19          | 96.916    | 0.094     | 10.1         | 0.0266        | 0.0000     | OK         |
| 15 minute summer  | 5       | 11          | 96.872    | 0.110     | 13.9         | 0.0311        | 0.0000     | OK         |
| 480 minute winter | BASIN   | 456         | 96.814    | 0.414     | 3.9          | 32.8701       | 0.0000     | SURCHARGED |
| 480 minute winter | 6       | 456         | 96.814    | 0.478     | 0.9          | 0.5407        | 0.0000     | SURCHARGED |
| 480 minute winter | OUTFALL | 456         | 96.019    | 0.019     | 0.6          | 0.0000        | 0.0000     | OK         |

| Link Event<br>(Upstream Depth) | US Node | Link  | DS Node | Outflow (l/s) | Velocity (m/s) | Flow/Cap | Link Vol (m³) | Discharge Vol (m³) |
|--------------------------------|---------|-------|---------|---------------|----------------|----------|---------------|--------------------|
| 15 minute summer               | 1       | 1.000 | 2       | 4.7           | 0.813          | 0.566    | 0.0544        |                    |
| 30 minute summer               | 2       | 1.001 | 3       | 6.5           | 0.959          | 0.839    | 0.1168        |                    |
| 30 minute summer               | 3       | 1.002 | 4       | 7.8           | 0.853          | 0.440    | 0.2031        |                    |
| 30 minute summer               | 4       | 1.003 | 5       | 10.1          | 0.852          | 0.566    | 0.0739        |                    |
| 15 minute summer               | 5       | 1.004 | BASIN   | 13.9          | 1.299          | 0.846    | 0.5558        |                    |
| 480 minute winter              | BASIN   | 1.005 | 6       | 0.9           | 0.200          | 0.052    | 0.1303        |                    |
| 480 minute winter              | 6       | 1.006 | OUTFALL | 0.6           | 0.498          | 0.033    | 0.0364        | 20.9               |

**Results for 100 year +45% CC Critical Storm Duration. Lowest mass balance: 99.41%**

| Node Event        | US Node | Peak (mins) | Level (m) | Depth (m) | Inflow (l/s) | Node Vol (m³) | Flood (m³) | Status     |
|-------------------|---------|-------------|-----------|-----------|--------------|---------------|------------|------------|
| 30 minute summer  | 1       | 22          | 97.402    | 0.102     | 12.6         | 2.7792        | 0.0000     | OK         |
| 60 minute summer  | 2       | 41          | 97.354    | 0.154     | 20.3         | 10.2298       | 0.0000     | FLOOD RISK |
| 30 minute summer  | 3       | 19          | 97.269    | 0.239     | 12.2         | 0.0675        | 0.0000     | FLOOD RISK |
| 30 minute summer  | 4       | 19          | 97.213    | 0.391     | 15.0         | 0.1107        | 0.0000     | SURCHARGED |
| 30 minute summer  | 5       | 19          | 97.166    | 0.404     | 20.6         | 0.1142        | 0.0000     | SURCHARGED |
| 720 minute winter | BASIN   | 690         | 97.120    | 0.720     | 5.2          | 68.7660       | 0.0000     | FLOOD RISK |
| 720 minute winter | 6       | 690         | 97.120    | 0.784     | 0.9          | 0.8869        | 0.0000     | SURCHARGED |
| 720 minute winter | OUTFALL | 690         | 96.021    | 0.021     | 0.8          | 0.0000        | 0.0000     | OK         |

| Link Event<br>(Upstream Depth) | US Node | Link  | DS Node | Outflow (l/s) | Velocity (m/s) | Flow/Cap | Link Vol (m³) | Discharge Vol (m³) |
|--------------------------------|---------|-------|---------|---------------|----------------|----------|---------------|--------------------|
| 30 minute summer               | 1       | 1.000 | 2       | 7.3           | 0.816          | 0.882    | 0.0834        |                    |
| 60 minute summer               | 2       | 1.001 | 3       | 8.8           | 1.008          | 1.135    | 0.1615        |                    |
| 30 minute summer               | 3       | 1.002 | 4       | 10.6          | 0.891          | 0.599    | 0.3665        |                    |
| 30 minute summer               | 4       | 1.003 | 5       | 13.2          | 0.792          | 0.741    | 0.1052        |                    |
| 30 minute summer               | 5       | 1.004 | BASIN   | 19.5          | 1.110          | 1.185    | 0.7374        |                    |
| 720 minute winter              | BASIN   | 1.005 | 6       | 0.9           | 0.166          | 0.055    | 0.1303        |                    |
| 720 minute winter              | 6       | 1.006 | OUTFALL | 0.8           | 0.538          | 0.042    | 0.0435        | 35.3               |