



Hareshill Road North, South Heywood

DRAINAGE STRATEGY REPORT



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Hareshill Road North, South Heywood

Drainage Strategy Report

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Drainage Strategy Report

Northstone

NORTHSTONE

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Alan Johnston Partnership Ltd.
Company No. 13204766

Hareshill Road North, South Heywood

Drainage Strategy Report

1. INTRODUCTION

This Drainage Strategy Report (DSR) has been prepared on behalf of Northstone in connection with the construction of Residential development in Hareshill Road North OL10 2TB, situated within Rochdale Metropolitan Borough Council.

This DSR has been produced in accordance with the Drainage parameters set out by the Townsend Water Engineering Ltd Flood Risk Assessment (REF: FD252), section 5.0. Which was submitted in relation to the Outline Planning Approval (Reference: 16/01399/HYBR). This DSR shall support the FRA in discharge of Reserved Matters Conditions 19 & 20, by providing additional detailed information.

For any size of storm event, the procedure will always yield a probability that the event will occur in any year, albeit the probability is smaller for larger events. The predicted storm event has a probability of occurrence in any year and the derived flood level has an associated probability of exceedance. This means that there is always a risk that property flooding could occur one or more times in any year.

Therefore, this report should not be interpreted or relied upon as providing a guarantee against flooding. There is always a residual risk that flooding will occur and it is not possible to predict a zero risk of flooding.

The purpose of this report is to present the surface water and foul water outline drainage strategies for the site which have been developed by the Alan Johnston Partnership. To demonstrate how the specific drainage requirements are to be met, the report should be read in conjunction with the relevant drawings and supporting information, included within the appendices.

The drainage strategies outlined within this report, have been prepared in accordance with BS EN 752:2017 (Drain and sewer systems outside buildings), Sewers for Adoption, Building Regulations Approved Document H (Drainage and waste disposal), the National Planning Policy Framework document (Department for Communities and Local Government, July 2021) and associated Planning Practice Guidance.



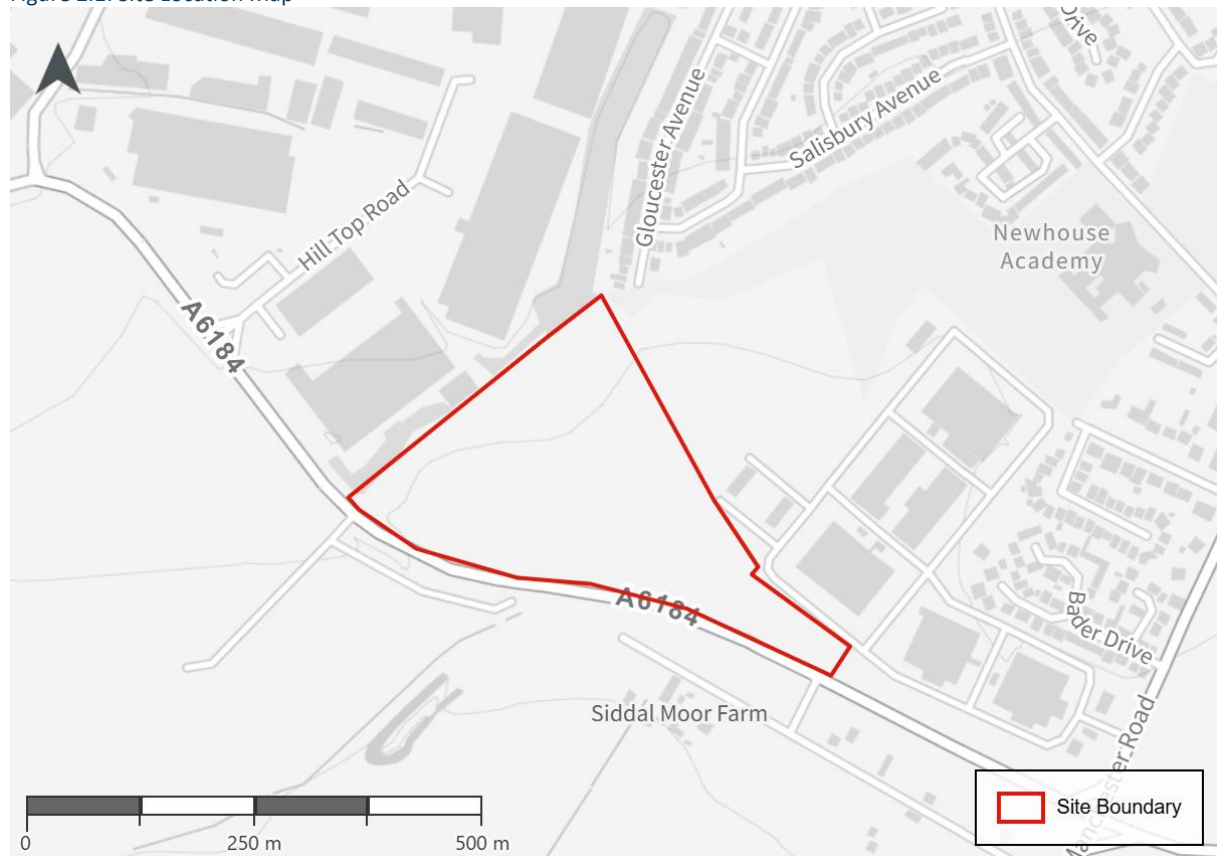
2. SITE DESCRIPTION

The site is located at National Grid reference SD 85290 09081. The site location plan is shown in Figure 2.1, attached in Appendix A, and the extent of the area to which the application relates is shown on the enclosed aerial photo in Figure 2.2.

The existing site covers a total area of 12.5 Ha with the proposed development area covering 8.4 Ha, as it only relates to the Northstone parcel of the development, with provision of the Rochdale development to follow under a separate application. The site is bounded by To the west and east the site is bounded by existing Industrial Estates, to the south is the A6184 and to the north is a Rochdale development parcel, that is currently Farm Land. .

The levels across the site range from approximately 124.00mAOD to the South of the site to 131.50mAOD to the North West of the site. This indicates a gradual increase in elevation from the southern boundary towards the north-western corner, with the minimum level recorded at 124.00mAOD in the South and the maximum level reaching 132.00mAOD in the North West. The site generally falls from North West to South, with levels falling from approximately 132.00mAOD in the North West to approximately 124.50AOD in the South.

Figure 2.1: Site Location Map



Source Ordnance Survey

Figure 2.2: Aerial Photo



Source: Ordnance Survey



3. PROPOSED DEVELOPMENT & DRAINAGE STRATEGY

3.1. Effect of Proposed Development

As previously outlined in Section 2.0, the existing site covers a total area of 12.5 ha and currently consists of the existing undeveloped fields, as can be seen from the aerial photo, attached. While the site will be split into two developments, one carried out by Northstone, the other development will be carried out by Rochdale, this drainage strategy will consider them in combination, as set out Section 5 of the Townsend Water Engineering Ltd FRA.

As such, the pre and post development impermeable areas for the 7.50 ha development area have been assessed and are indicated on the attached drawing in Appendix G. The comparison between the pre and post development impermeable areas is also summarised below;

Total Development Site Area (ha)	Existing Impermeable Area (ha)	Proposed Impermeable Area (ha)
12.50	0.000	7.50

Therefore, the changes to the existing site will increase the volume of impermeable areas and as such, the proposed development will lead to an increase in the;

- ◆ Volume of surface water ponding on the site
- ◆ Volume of surface water runoff leaving the site or discharging into surrounding areas
- ◆ Peak discharge rate from the site

Accordingly, drainage systems are needed to drain the foul and surface water flows arising from the proposed development. Where possible, any existing drainage networks should be utilised. Appropriate design and construction of these systems, as set out in Section 6.3, should ensure that there is no increase in offsite flood risk that would otherwise impact downstream areas.

3.2. Existing Drainage Systems

There are no adopted sewerage systems within the site. The site is occupied by a 600mm diameter private drain that serves the adjacent industrial area, crossing the site from east to south, before discharging into the Culverted Watercourse to the north of the Queen Elizabeth II Way. The Culverted Watercourse identified on the southern boundary of the site is 600mm in diameter, crossing south beneath the main highway into the open watercourse.

3.3. Proposed Drainage Strategy

As outlined above in Section 6.1, site-wide drainage systems are required to drain the foul and surface water flows arising from the proposed development. The proposed drainage systems must ensure that there is no increase in offsite flood risk that would otherwise impact downstream areas.

3.3.1. Surface Water Drainage

The Planning Policy Guidance and the CIRIA SuDS Manual detail that surface water runoff from a development should be disposed of as high up the following hierarchy as reasonable practicable:

- ◆ into the ground (infiltration);
- ◆ to a surface water body;
- ◆ to a surface water sewer, highway drain, or another drainage system;
- ◆ to a combined sewer.

As identified in the FRA, the point of discharge for this development shall be into the Culverted Watercourse on the southern boundary.

As the watercourse is designated as an Ordinary Watercourse discussions with the Lead Local Flood Authority will be required to obtain the relevant permits to work near the watercourse and permits to discharge into the watercourse.

While every effort to use the existing systems should be made, the drainage systems should be designed to suit the proposed site layout and topography which aims to provide an efficient design.

In line with Design and Construction Guidance (DCG), the requirements for the design of a new surface water drainage systems are as follows:

- ◆ Below ground piped drainage to be sized to accommodate the 1 in 2 year (50% AEP) design storm without surcharge.
- ◆ System to be designed not to flood any part of the site in a 1 in 30 year (3% AEP) design storm.
- ◆ For events in exceedance of the 1 in 30 year design storm and up to and including the 1 in 100 year event, site drainage and topography should be designed where practicable to route surface water run-off away from buildings to safe above-ground storage areas on site, thereby preventing this run-off from leaving the site and increasing flood risk elsewhere.

For each design case described above, the design storm is the critical storm duration for the site conditions. In the case of the 1 in 100 year design storm, a 45% increase in the peak rainfall

intensity is applied to allow for the estimated worst case impacts of climate change. This is in accordance with new advice, issued by Defra, which updates previous climate change allowances outlined in the National Planning Policy Framework.

Suitable systems of below ground drainage will be required to contain as a minimum requirement, the 1 in 30 year event. Additionally, any surface water run-off from events that exceed the design capacity of the new drainage system, up to and including the 1 in 100 year (+45%) event, will be retained on-site in safe storage areas. LLFA requirements also ask for 1 in 30 year event.

In line with common practice, it is proposed the surface water discharge from the proposed development should mimic that from the existing site. It is envisaged that as the existing site is greenfield, as stated in the FRA, discussions with Rochdale Metropolitan Borough Council will require the proposed surface water runoff rates to be restricted to match the existing greenfield run off rates.

Therefore, an assessment of the existing surface water run-off from the greenfield site has been completed using the ICP SuDS method within Micro Drainage. The greenfield runoff rates for the proposed development have been based off of the pre development impermeable area of 0.00ha.

The greenfield runoff assessment is identified within the FRA, and the results are summarised within the table below.

Rainfall Return Period (years)	Existing Greenfield Runoff Rate (L/s)
Qbar	106.4
30 year	180.4
100 year	220.78

As seen in from the Drainage Strategy Drawing attached in Appendix A, it is anticipated that the surface water runoff from the proposed building and surrounding hard standing areas will be collected via raingardens/tree pits located along the main access road, filter drains, gullies, linear drainage channels and rainwater downpipes and convey flow to the south-east of site.

Here it will discharge into the Culverted Watercourse via a new proposed connection into the existing manhole. The flow is to be restricted to the aforementioned greenfield rates via a flow control chamber for all rainfall events up to and including the 1 in 100 year +50% climate change event.

The surface water drainage calculations have also been included within Appendix B and as can be seen the proposed surface water drainage and attenuation storage prevent any flooding for all rainfall events up to and including the 1 in 100 year + 45% climate change event and also meet the required greenfield discharge rates. This is summarised in the table below.

Rainfall Return Period (years)	Existing Greenfield Discharge Rate (L/s)	Proposed Discharge Rate (L/s)
(Qbar)	106.4	58.6
30 Year	180.4	96.9
100 Year	220.78	106.3

During peak storm events, attenuation will be provided via the drainage network itself, Swales, raingardens and an attenuation basin located immediately upstream of the flow control chamber.

The rate of discharge has been limited to Greenfield Qbar in compliance with latest National SUDS guidance, and due to the complexity of an active Vortex Control system managing a linear discharge rate to match the Greenfield run off rate, for each Return Period.

The surface water drainage calculations, included within Appendix B show the proposed surface water drainage and attenuation storage prevent any flooding for all rainfall events up to and including the 1 in 100 year + 45% climate change event.

It should be noted that the areas of hardstanding which drain directly into the surface water drainage network are indicated within the total area contributing section of the drainage calculations. The areas of the site draining via raingardens and filter drains have been inputted into the calculations as SuDS elements.

The use of the filter strips and Swales shall act as source control for large elements of the site, including highways and shared drives, ensuring the first 5mm of rainfall is contained and not discharged into the attenuation system. This 5mm of rainfall remains modelled in the hydraulic calculations, to be attenuated in extreme situations. As snapshot of how these Filter strips interact with the drainage system can be seen in Appendix A.

The drainage network has been designed with accommodate for the future Phase II, that shall be allowed to freely discharge into the Phase I drainage network, with sufficient attenuation capacity for both phases. The SUDS Basins shall provide a total attenuation volume of 2663m³ to ensure all storm events and Return Periods do not present at Pluvial flooding on site, or to adjacent areas.

Further correspondence is required with the LLFA to confirm that an Ordinary Watercourse Consent to discharge will be required. The drainage design and outfall location is subject to change following confirmation of the outfall conditions.

The surface water drainage strategy should be confirmed via more detailed discussions with the LLFA prior to the commencement of any works.

3.3.2. SuDS Summary

As outlined within the summary table below, all SuDS techniques have been considered for this development;

SuDS Technique	Suitable for This Development?	Reasoning
Green Roof	✗	Not suitable due to minimal roof area available.
Rainwater Harvesting	✗	Impractical due to lack of demand for greywater.
Basins, Ponds & Swales	✓	Suitable and incorporated, where possible.
Filter Strips	✓	Suitable and incorporated, where possible.
Bio-retention Areas	✓	Suitable and incorporated, where possible.
Infiltration Techniques	✗	Unsuitable due to impermeable strata.
Permeable Surfaces	✗	Unsuitable due to impermeable strata.
Tanked/Piped Systems	✓	Suitable and incorporated, where required.

Green roof areas have been considered but due to the minimal roof area available and pitched roof, the use of a green roof has been discounted.

Rainwater harvesting was also considered but due to a lack of greywater demand and the cost associated with tanks and pumping of the separate system, it has been deemed as impractical to include a rainwater harvesting system.

A detention basin has been included at the downstream end of the proposed surface water drainage network. This provides water quality and biodiversity benefits for the site.

Where possible, filter drains have been incorporated to drain the proposed access path areas. These not only provide additional attenuation storage but will also incorporate water quality benefits across the site.

Raingardens have been included, where possible, across the site. The raingardens drain surrounding hardstanding areas and also provide water quality, biodiversity and water quantity benefits for the site; acting as Source Control. These rain gardens are located along the main access road through the site.

As set out in the FRA, infiltration is not suitable for the proposed site and therefore infiltration techniques have been discounted.

Porous paving has not been incorporated across the site, due to the impermeable nature of the below ground strata.

Finally, the use of oversized pipe networks has been included but the use of below ground attenuation tanks will not be required due to the incorporation of the detention basin within the site.

3.3.3. Water Quality Assessment

Managing the water quality of the surface water runoff from the proposed development is important to ensure that the receiving surface waters or groundwater are well protected. Generally, this can be achieved through the use of well-designed SuDS systems which provide treatment and pollution removal to the surface water runoff.

Standard S3 of the Statutory National Standards for Sustainable Drainage Systems (2018) details the water quality management and addresses the drainage design requirements to minimise the potential pollution risk.

As the proposed development consists of roof areas, car park areas and High traffic roads, in accordance within Table G3.2 of the Statutory National Standards for Sustainable Drainage Systems (2018) the pollution hazard level is low and as such the simple index approach can be used to assess the treatment requirements for the low risk of pollution.

The simple index approach is outlined within Chapter 26 of CIRIA Report C753 - The SuDS Manual. Therefore, using Table 26.2 and applying the proposed site description above, results in a low pollution hazard level, with the pollution hazard indices being; TSS - 0.5, Metals - 0.4 and Hydrocarbons - 0.4.

Assessing this against Table 26.3 of CIRIA Report C753 - The SuDS Manual using the SuDS treatment train of Swales, raingardens, filter drains, and a detention basin results in the mitigation indices outweighing the pollution hazard indices identified above. The use of a detention basin itself would result in mitigation indices of; TSS - 0.5, Metals - 0.5 and Hydrocarbons - 0.6, which would be sufficient on its own.

As the mitigation indices are equal to or greater than each of the pollution hazard indices the use of the detention basin is deemed acceptable from a pollution mitigation perspective and as such complies with the water quality requirements of Standard S3 of the Statutory National Standards for Sustainable Drainage Systems (2018).

3.3.4. Foul Water Drainage

Foul water drainage disposal is set out in Part H of the Building Regulations in order of priority the preferred methods are;

1. Public sewer
2. Septic tank
3. Cesspool

The foul water system shall be designed in accordance with;

- ◆ BS EN 752:2017 (Drain and sewer systems outside buildings)
- ◆ Design and Construction Guidance (DCG)

- ◆ National Planning Policy Framework document (Department for Communities and Local Government, March 2012).
- ◆ Planning Practice Guidance
- ◆ BS EN 12056-2:2000 (Drainage systems inside buildings)
- ◆ Building Regulations Approved Document H, Drainage and waste disposal. (Office of the Deputy Prime Minister, December 2015).

As can be seen from the Drainage Strategy Drawing attached in Appendix A, it is anticipated that the foul water drainage will collect run off from the proposed building and convey the foul water to the south east of the proposed site.

Here the foul water will discharge into a proposed United Utilities pumping station located in the south east corner of the site. The pumping station will be constructed to United Utilities standards and serves as the outfall for the development, with the Rising Main running through the site into UU sewers within Gloucester Way . United Utilities have confirmed that the foul water from the site can discharge into the existing foul water public sewer, at unrestricted rates.

The foul water drainage strategy should be confirmed via more detailed discussions with United Utilities prior to the commencement of any works.

4. FUTURE MANAGEMENT & MAINTENANCE

The proposed drainage solution uses SUDS techniques in accordance with the CIRIA SUDS Manual C753. The surface water run-off from the proposed development is restricted using a vortex flow control device and the attenuated run-off is stored using attenuation basins and Swales.

It is envisaged that the following components have been or will be included within the drainage strategy for the proposed development:

- ◆ Inspection chambers, manholes and catchpits.
- ◆ Pipes.
- ◆ Drainage channels and gullies.
- ◆ Vortex flow control device.
- ◆ Detention basin (attenuation basin).
- ◆ Swales
- ◆ Raingardens/ Bioretention Areas (Located along main access road)

A suitable maintenance strategy should be adopted to ensure the drainage network is cleaned regularly and the routine maintenance and cleansing regime should be documented. It is assumed that the proposed drainage will be adopted by Welsh Water and therefore maintenance of the surface and foul water drainage systems will be the responsibility of Welsh Water and therefore a copy of the final construction drainage layout should be provided in the final Operations and Maintenance Manual.

As such, the maintenance of the specified SuDS should be included within the developments Operation and Maintenance Manual and should be detailed in accordance with the CIRIA SuDS Manual C753, as per the operation and maintenance guidance outlined below.

4.1. General Maintenance & Inspection Requirements

- ◆ No work shall be carried out on the drainage system without permission from a nominated person, who has access to information/a working knowledge of the system.
- ◆ Maintenance/inspection work shall be carried out in a safe/planned manner.
- ◆ All work is to be carried out by competent persons suitably trained and equipped in accordance with current statutory safe working policies.

- ◆ Entry into confined spaces shall be kept to a minimum and be restricted to suitably qualified/equipped persons working in accordance with current statutory safe working policies.
- ◆ Drainage systems shall be inspected on a regular basis or should any problems be suspected. Any debris/defects discovered shall be recorded and a programme of cleaning/ repair initiated. Urgent repairs/cleaning shall be actioned as soon as practicable.
- ◆ It is recommended that the drainage system is inspected as a minimum twice a year, with the system also being inspected after any major storm event.
- ◆ Clearing of the drainage system can be achieved by a number of methods depending on the nature of the work;
 - Rodding - Manual/Mechanical with flexible rods.
 - Jetting - High pressure water jetting.
 - Plunging.

4.2. Inspection Chambers, Manholes and Catchpits

The appropriate health and safety equipment must be used when accessing manholes/catchpits. Confined space certificates must be held by any personnel entering a manhole and the appropriate permits should be obtained from the Maintenance Manager prior to any access. The following operations should be carried out annually.

- ◆ Covers of inspection chambers and manholes shall be removed and the sides, benchings and channels cleared.
- ◆ Accumulated deposits of silt in inspection chambers, catchpits and manholes shall be removed. Any traps shall then be plunged and thoroughly flushed out with clean water. This should be completed in Autumn, after leaf fall.
- ◆ Main and branch drains shall be cleared as required and afterwards be flushed with clean water. Any obstructions found shall be removed and not flushed down the system.
- ◆ Covers of inspection chambers, manholes and catchpits shall be replaced, bedded in suitable grease or other sealing material as required and bolted/locked down as appropriate. Missing bolts and broken items shall be replaced in accordance with the manufacturer's details.

4.3. Pipes

Regular inspection and maintenance are important to identify areas which may have become obstructed/clogged and may not be draining correctly, as failure to do so would expose the development to a greater level of flood risk.

Pipes are proprietary products and therefore the materials used can vary across the site. As such, where used the manufacturer's recommendations should be followed. Access for maintenance of the pipes is provided through inspection chambers and manholes. The below table sets out the maintenance schedule for the pipe components of the proposed drainage systems.

Maintenance Schedule	Required Action	Typical Frequency
Regular Maintenance	Inspect for evidence of poor operation via water levels. If required take remedial action.	Monthly for 3 months, then six-monthly intervals. Also, 48 hours after large storms.
	Check and remove large debris and/or vegetation growth near pipe runs.	Monthly or as required.
Remedial Actions	Rod through poorly performing runs as initial remediation.	As required.
	If continued poor performance jet and CCTV survey poorly performing runs.	As required.
	Seek advice as to remediation techniques suitable for the type of performance issue.	As required, if above actions do not improve performance.
Monitoring	Initial Inspection should be provided as post construction CCTV survey.	N/A
	Inspect/check all inlets, outlets and overflows to ensure they are in good condition and operating as designed.	Monthly for 3 months, then six-monthly intervals. Also, 48 hours after large storms.

4.4. Drainage Channels and Gullies

Channels and gullies should be inspected and cleaned in accordance with the manufacturer's details. Channel units can be cleaned through the use of a high-pressure hose; this can be fed into the channel system through access units strategically placed along the channel run. The throat section of channel units should be kept clear at all times to ensure uninterrupted flow of surface water into the drainage channel and any debris within the throat should be removed.

Locking bolts should be replaced and sufficiently tightened, taking care that the bolt heads do not stand above the top surface of the cover or grate. If covers are allowed to move within their frame, this may cause damage to the frame or seating. The below table sets out the maintenance schedule for the drainage channel and gullies components of the proposed drainage systems.

Maintenance Schedule	Required Action	Typical Frequency
Regular Maintenance	Litter and debris removal.	Monthly or as required.
	Check and remove large debris and/or vegetation growth near pipe runs.	Monthly or as required.
	Inspect for evidence of poor operation and/or weed growth. If required take remedial action. Inspect silt accumulation rates and establish appropriate brushing frequencies.	Monthly for 3 months, then six-monthly intervals. Also, 48 hours after large storms.
Remedial Actions	Inspect access/outlet boxes and rod through poorly performing channels and outlets as initial remediation.	As required.
	Seek advice as to remediation techniques suitable for the type of performance issue.	As required, if above actions do not improve performance.
Monitoring	Initial Inspection including channel outlet boxes and gully sumps.	Monthly for 3 months, then six-monthly intervals. Also, 48 hours after large storms.

4.5. Vortex Flow Control Device

Regular inspection and maintenance is important to identify if the vortex flow control device has become obstructed/clogged and may not be functioning correctly, as failure to do so would expose the development to a greater level of flood risk.

Vortex flow control devices are proprietary products and therefore can vary from manufacturer to manufacturer. As such, where used the manufacturer's recommendations should be followed.

- ◆ Normally, little maintenance is required as there are generally a vortex flow control device has no moving parts.
- ◆ If blockages occur, they tend to do so at the intake of the vortex flow control device.
- ◆ Vortex flow control devices are generally fitted with a pivoting by-pass door, which allows the manhole chamber to be drained down should blockages occur.
- ◆ The smaller type conical units, below the minimum recommended size, are also supplied with rodding facilities or vortex suppressor pipes as standard.

- Following installation of the vortex flow control device it is vitally important that any extraneous material i.e., Building materials are removed from the unit and the chamber.
- After the system is made live, it is recommended that each unit be inspected monthly for three months and thereafter at six monthly intervals with hose down if required. Units should also be inspected within 48 hours after large storms.

4.6. Detention Basin

Regular inspection and maintenance is important to identify if the inlets/outlets have become obstructed/clogged and may not be functioning correctly, as failure to do so would expose the development to a greater level of flood risk.

The maintenance requirements for detention basins are outlined within Table 22.1 of the CIRIA SUDS Manual C753. An extract of that table is given below to set out the maintenance schedule for the potential detention basin component of the proposed drainage system.

Maintenance schedule	Required action	Typical frequency
Regular maintenance	Remove litter and debris	Monthly
	Cut grass – for spillways and access routes	Monthly (during growing season), or as required
	Cut grass – meadow grass in and around basin	Half yearly (spring – before nesting season, and autumn)
	Manage other vegetation and remove nuisance plants	Monthly (at start, then as required)
	Inspect inlets, outlets and overflows for blockages, and clear if required.	Monthly
	Inspect banksides, structures, pipework etc for evidence of physical damage	Monthly
	Inspect inlets and facility surface for silt accumulation. Establish appropriate silt removal frequencies.	Monthly (for first year), then annually or as required
	Check any penstocks and other mechanical devices	Annually
	Tidy all dead growth before start of growing season	Annually
	Remove sediment from inlets, outlet and forebay	Annually (or as required)
	Manage wetland plants in outlet pool – where provided	Annually (as set out in Chapter 23)
Occasional maintenance	Reseed areas of poor vegetation growth	As required
	Prune and trim any trees and remove cuttings	Every 2 years, or as required
	Remove sediment from inlets, outlets, forebay and main basin when required	Every 5 years, or as required (likely to be minimal requirements where effective upstream source control is provided)
Remedial actions	Repair erosion or other damage by reseeding or re-turfing	As required
	Realignment of rip-rap	As required
	Repair/rehabilitation of inlets, outlets and overflows	As required
	Relevel uneven surfaces and reinstate design levels	As required

4.7. Swales, Filter Strips and Rain Gardens

Regular inspection and maintenance is important to identify if the inlets/outlets have become obstructed/clogged and may not be functioning correctly, as failure to do so would expose the development to a greater level of flood risk.

The maintenance requirements for filter drains are outlined within Table 15.10 of the CIRIA SUDS Manual C753. An extract of that table is given below to set out the maintenance schedule for the permeable paving component of the proposed drainage systems.

It should be noted that the Main Contractor should provide a Verification Report, including photographic evidence, to demonstrate that the drainage has been constructed as per the design drawings. As-built drawings should as be supplied by the Main Contractor, where the construction of the drainage varies from the design construction status drawings.

TABLE 15.1 Operation and maintenance requirements for filter strips

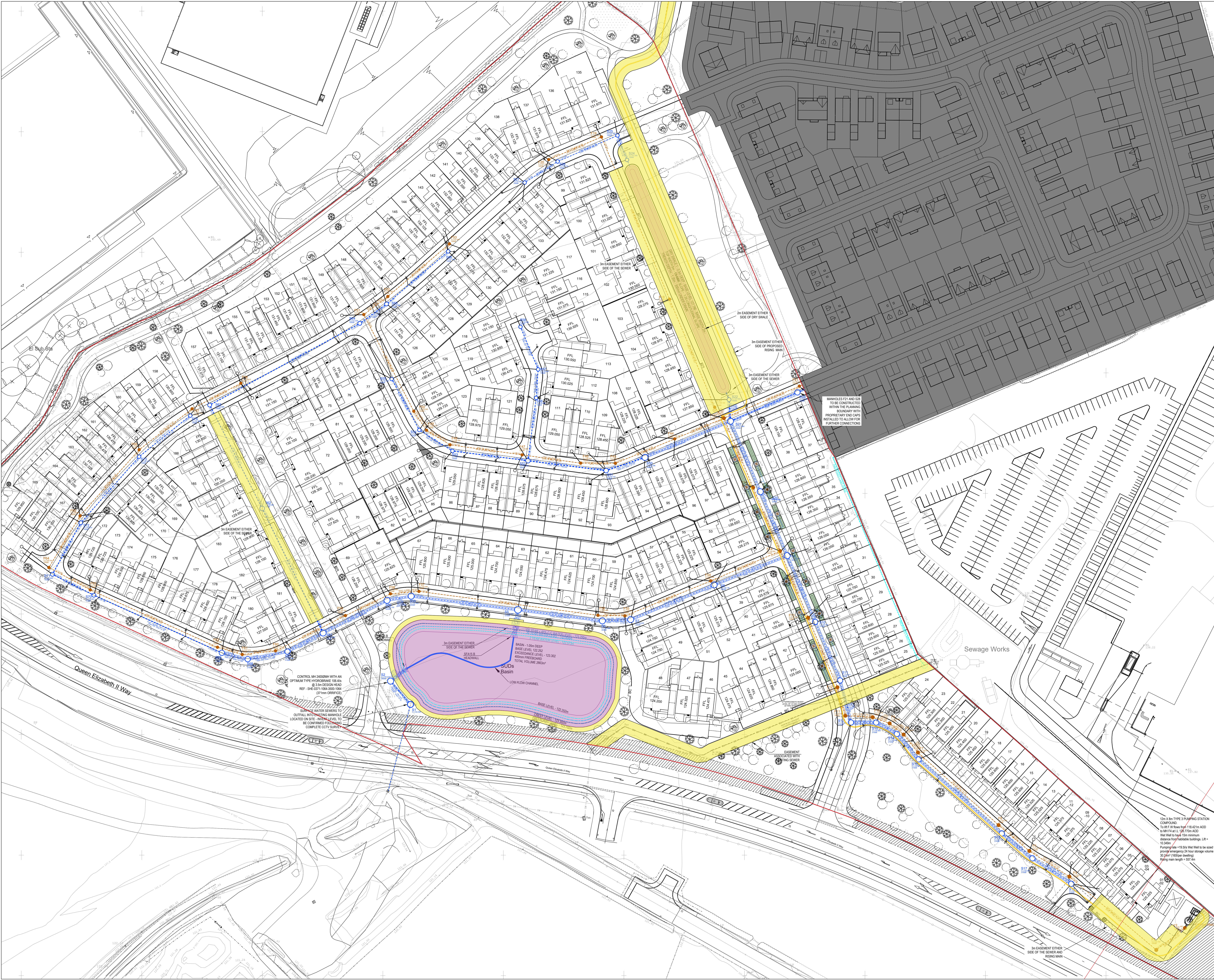
Maintenance schedule	Required action	Typical frequency
Regular maintenance	Remove litter and debris	Monthly (or as required)
	Cut the grass – to retain grass height within specified design range	Monthly (during growing season), or as required
	Manage other vegetation and remove nuisance plants	Monthly (at start, then as required)
	Inspect filter strip surface to identify evidence of erosion, poor vegetation growth, compaction, ponding, sedimentation and contamination (eg oils)	Monthly (at start, then half yearly)
	Check flow spreader and filter strip surface for even gradients	Monthly (at start, then half yearly)
	Inspect gravel flow spreader upstream of filter strip for clogging	Monthly (at start, then half yearly)
	Inspect silt accumulation rates and establish appropriate removal frequencies	Monthly (at start, then half yearly)
Occasional maintenance	Reseed areas of poor vegetation growth; alter plant types to better suit conditions, if required	As required or if bare soil is exposed over > 10% of the filter strip area.
Remedial actions	Repair erosion or other damage by re-turfing or reseeded	As required
	Relevel uneven surfaces and reinstate design levels	As required
	Scarify and spike topsoil layer to improve infiltration performance, break up silt deposits and prevent compaction of the soil surface	As required
	Remove build-up of sediment on upstream gravel trench, flow spreader or at top of filter strip	As required
	Remove and dispose of oils or petrol residues using safe standard practices	As required

For all SUDS elements, they are installed as on-line systems, and therefore will be put up for Adoption by United Utilities, who will manage their maintenance and operation for their working life time.

5. CONCLUSIONS

- ◆ The S.W Drainage System will discharge into a Culverted Watercourse, limited to rates to match the Greenfield Run Off Rates
- ◆ The F.W drainage system will discharge to a pumping station, that will pump via a rising main to the UU sewers in Gloucester Way
- ◆ The attenuation for the drainage system shall include Swales and Detention Basins.
- ◆ Operation and Maintenance shall be the responsibility of United Utilities under a Section 104 Agreement.
- ◆ Attenuation for the surface water network is to be provided via the drainage network itself, , raingardens/ tree pits, filter drains and detention basin located immediately upstream of the flow control chamber. This provides sufficient storage to prevent any flooding for all rainfall events up to and including the 1 in 100 year +45% climate change event.
- ◆ Pollution mitigation has been accounted for via the inclusion of, raingardens, filter drains and detention basin. The detention basin alone provides sufficient mitigation against pollution arising from roof areas and high traffic roads.
- ◆ The external ground levels around proposed buildings shall fall away from the proposed buildings with any new levels being designed to ensure any overland flood routes, for events in excess of the 1 in 100 Year + 45% CC, exit towards the surrounding highways and greenfield areas, for use in exceptional circumstances.

APPENDIX A – DRAINAGE STRATEGY PLAN & SUDS DETAILS



- GENERAL NOTES**
- SETTING OUT SHALL BE UNDERTAKEN USING ONLY THE INFORMATION GIVEN. DISTANCES SHOULD NOT BE SCALED FROM THIS DRAWING.
 - ALL SEWERS SHALL BE CONSTRUCTED IN ACCORDANCE WITH SEWERS FOR ADOPTION 7TH EDITION AND UNITED UTILITIES DETAILS & GUIDELINES.
 - THE MINIMUM GRAVITY PIPE DIAMETER UNDER ADOPTABLE HIGHWAYS SHALL BE 150mm.
 - IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL INFORMATION GIVEN WITH REGARDS TO EXISTING SERVICES AND DRAINAGE CONNECTIONS ETC. PRIOR TO COMMENCING THE WORKS. THE RATES SHALL INCLUDE FOR HAND DIG AROUND SERVICES WHERE NECESSARY. THE CONTRACTOR SHALL ADHERE TO THE COM REGULATIONS AT ALL TIMES.
 - THE OUTSIDES OF ALL SEWERS SHALL BE A MINIMUM OF 1m FROM KERB LINES AND THE OUTSIDE OF MANHOLES SHALL BE A MINIMUM OF 0.5m FROM KERB LINES WITHIN ADOPTED HIGHWAY.
 - EXISTING FLOWS IN WATERCOURSES, SEWERS AND LAND DRAINS SHALL BE MAINTAINED AT ALL TIMES.
 - ONLY TRAINED PERSONNEL SHALL BE PERMITTED TO ENTER CONFINED SPACES.
 - ALL MATERIALS TO BEAR THE RELEVANT B.S. KITEMARK AND COMPLY FULLY WITH THE SPECIFICATIONS. ALL CONCRETE & CONCRETE PRODUCTS MUST USE SULPHATE RESISTANT CEMENT UNLESS THE SITE INVESTIGATION REPORT PROVES THAT SULPHATE ATTACK FROM SOILS AND GROUNDWATER WILL NOT OCCUR TO WITHSTAND A CLASS.
 - ALL OPENING NOTICES ETC. AS REQUIRED UNDER HIGHWAYS ACTS ETC. ARE TO BE OBTAINED PRIOR TO APPLICABLE.
 - WHERE "ULTRA RIB" UPVC PIPES (OR SIMILAR APPROVED) ARE USED IN ADOPTABLE DRAINAGE THEY SHALL STILL BE HANDLED AND LAID IN ACCORDANCE WITH THE SPECIFICATION AND GUIDANCE ISSUED BY THE HIGH PERFORMANCE PIPE ASSOCIATION.
 - A CLASS 3 BED AND SURROUND MUST BE USED FOR SUCH PIPES. TRENCH BACKFILL IN HIGHWAYS TO WITHIN 1M OF HIGHWAY SHALL BE A SUITABLE GRANULAR MATERIAL. ALL IN ACCORDANCE WITH SEWERS FOR ADOPTION CL 4.3.4.
 - SLAB LEVELS SHALL NOT BE VARIED WITHOUT REFERENCE TO THE ENGINEER FOR GUIDANCE.
 - DOMESTIC DRAINAGE SHALL BE TO BUILDING REGULATIONS APPROVED DOCUMENT H: 110mm U.P.V.C. PIPES LAID TO THE FOLLOWING MINIMUM FALLS UNLESS OTHERWISE SHOWN.

	FOUL	S.W.
HEAD RUN	1 IN 80	1 IN 60
ELSEWHERE	1 IN 80	1 IN 100
 - ALL GULLY CONNECTIONS TO BE 100mm VITREOUS CLAY UNLESS NOTED OTHERWISE. COMMENCEMENT OF WORKS. ALL WORKS ARE TO BE INSPECTED BY L.A. INBC OR THE NETWORK OPERATOR AS APPLICABLE.

- LEGEND**
- PROPOSED SURFACE WATER MANHOLE
 - PROPOSED FOUL WATER SEWER MANHOLE
 - PROPOSED COMBINED SEWER MANHOLE
 - EXISTING GROUND LEVELS
 - PROPOSED FOUL 60MM DI UPVC 120MM PCC DRAG OUT MH (TBC WITH LU FIELD INSPECTOR)
 - PROPOSED SURFACE WATER 60MM DI UPVC 120MM PCC DRAG OUT MH (TBC WITH LU FIELD INSPECTOR)
 - PROPOSED INDICATIVE FILTER DRAIN
 - PROPOSED RISING MAIN
 - PROPOSED ADOPTED SUDS FEATURE
 - PROPOSED EASEMENT
 - PROPOSED TREE PIT
 - PROPOSED SHALE
 - HIGHWAY GULLY
 - FINISHED FLOOR LEVEL
 - PHASE 2 HATCH

REV	DATE	DESCRIPTION	BY	CHEK	APP
P02	04.12.2025	AMENDED TO SUIT NORTHSTONE COMMENTS: MANHOLES F21 AND S28	JCM	JCM	JCM
P03	21.11.2025	RELOCATED WITHIN BUILDINGS	JCM	JCM	JCM
P04	12.11.2025	PILOT 65-RELAY/CHANGED	JCM	JCM	JCM
P05	12.11.2025	PIPE MATERIALS AMENDED	JCM	JCM	JCM
P06	11.11.2025	AMENDED TO SUIT UPDATED SITE PLAN AND SUDS PROPOSALS FOLLOWING MEETING WITH LPA	JCM	JCM	JCM
P07	09.09.2025	UPDATED TO SUIT REVISED DRAINAGE CALCULATIONS	JCM	JCM	JCM
P08	08.08.2025	AMENDED TO SUIT UPDATES ARCHITECTS PLAN	JCM	JCM	JCM
P09	12.08.2025	PRELIMINARY ISSUE - FOR COMMENTS	JCM	JCM	JCM

DRAWING STATUS: **PRELIMINARY**

CLIENT: **NORTHSTONE**

ARCHITECT: **NORTHSTONE**

PROJECT: **HARESHILL ROAD NORTH SOUTH HEYWOOD**

TITLE: **OUTLINE DRAINAGE LAYOUT MASTERPLAN**

STATUS	PROJECT No.	PROJECT	ORIGINATOR	VOLU	LEVEL	TYPE	ROLE	DRAWING No.	REV
S2	225-205	SHE - AJP - ZZ - 00 - DR - C - 1000	P07						

SCALE & NO: 1:500

DESIGNED: JPR

DRAWN: JPR

CHECKED: JCM

APPROVED: JCM

DATE: AUG 2025

AJP consulting engineers

0151 227 1462 01info@ajp.co.uk 01 Dale Street, Liverpool, L2 2ET



GENERAL NOTES

- SETTING OUT SHALL BE UNDERTAKEN USING ONLY THE INFORMATION GIVEN. DISTANCES SHOULD NOT BE SCALED FROM THIS DRAWING.
- ALL SEWERS SHALL BE CONSTRUCTED IN ACCORDANCE WITH SEWERS FOR ADOPTION 7TH EDITION AND UNITED UTILITIES DETAILS & GUIDELINES.
- THE MINIMUM GRAVITY PIPE DIAMETER UNDER ADOPTABLE HIGHWAYS SHALL BE 150mm
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL INFORMATION GIVEN WITH REGARDS TO EXISTING SERVICES AND DRAINAGE CONNECTIONS ETC. PRIOR TO COMMENCING THE WORKS. THE RATES SHALL INCLUDE FOR HAND DIG AROUND SERVICES WHERE NECESSARY. THE CONTRACTOR SHALL ADHERE TO THE CDM REGULATIONS AT ALL TIMES
- THE OUTSIDES OF ALL SEWERS SHALL BE A MINIMUM OF 1.0m FROM KERB LINES AND THE OUTSIDE OF MANHOLES SHALL BE A MINIMUM OF 0.5m FROM KERB LINES WITHIN ADOPTED HIGHWAY
- EXISTING FLOWS IN WATERCOURSES, SEWERS AND LAND DRAINS SHALL BE MAINTAINED AT ALL TIMES
- ONLY TRAINED PERSONNEL SHALL BE PERMITTED TO ENTER CONFINED SPACES
- ALL MATERIALS TO BEAR THE RELEVANT B.S. KITEMARK AND COMPLY FULLY WITH THE SPECIFICATIONS. ALL CONCRETE & CONCRETE PRODUCTS MUST USE SULPHATE RESISTANT CEMENT (UNLESS THE SITE INVESTIGATION REPORT PROVES THAT SULPHATE ATTACK FROM SOILS AND GROUNDWATER WILL NOT OCCUR TO WITHSTAND A CLASS
- ALL OPENING NOTICES ETC. AS REQUIRED UNDER HIGHWAYS ACTS ETC. ARE TO BE OBTAINED PRIOR TO APPLICABLE.
- WHERE "ULTRA RIB" UPVC PIPES (OR SIMILAR APPROVED) ARE USED IN ADOPTABLE DRAINAGE THEY SHALL STILL BE HANDLED AND LAID IN ACCORDANCE WITH THE SPECIFICATION AND GUIDANCE ISSUED BY THE HIGH PERFORMANCE PIPE ASSOCIATION.
- A CLASS 5 BED AND SURROUND MUST BE USED FOR SUCH PIPES. TRENCH BACKFILL IN HIGHWAYS TO WITHIN 1M OF HIGHWAY SHALL BE A SUITABLE GRANULAR MATERIAL ALL IN ACCORDANCE WITH SEWERS FOR ADOPTION CL 4.3.4.
- SLAB LEVELS SHALL NOT BE VARIED WITHOUT REFERENCE TO THE ENGINEER FOR GUIDANCE
- DOMESTIC DRAINAGE SHALL BE TO BUILDING REGULATIONS APPROVED DOCUMENT H. 110mm U.P.V.C. PIPES LAID TO THE FOLLOWING MINIMUM FALLS UNLESS OTHERWISE SHOWN.

HEAD RUN	FOUL	S.W.
1 IN 40	1 IN 60	1 IN 100
ELSEWHERE	1 IN 80	1 IN 100
- ALL GULLY CONNECTIONS TO BE 150mm VITRIFIED CLAY UNLESS NOTED OTHERWISE COMMENCEMENT OF WORKS. ALL WORKS ARE TO BE INSPECTED BY L.A., NHBC OR THE NETWORK OPERATOR AS

PROPOSED SWALE AREAS TO DRAIN INTO TREE PITS

PROPOSED TREE PITS

PROPOSED UNDERDRAINS TO DISCHARGE INTO HIGHWAY GULLIES

P02	12.11.2025	AMENDED FOLLOWING DISCUSSIONS WITH NORTHSTONE	JPR	JCM	JCM
P01	05.11.2025	PRELIMINARY ISSUE - FOR COMMENTS	JCM	JCM	JCM
REV	DATE	DESCRIPTION	BY	CHK	APP

DRAWING STATUS:

PRELIMINARY

CLIENT:

NORTHSTONE

ARCHITECT:

NORTHSTONE

PROJECT:

HARESHILL ROAD NORTH
SOUTH HEYWOOD

TITLE:

INTERCEPTION
SUDS PROPOSALS
SHEET 1 OF 2

STATUS:	PROJECT No.	PROJECT	ORIGINATOR	VOLUYS	LEVEL	TYPE	ROLE	DRAWING No.	REV:
S2	225-205	SHE - AJP - ZZ - 00 - DR - C - 1070	P02						

SCALE @ A1:	DESIGNED:	DRAWN:	CHECKED:	APPROVED:	DATE:
1:100	JCM	JCM	JCM	JCM	SEPT 2025

0151 227 1462 info@ajpltd.co.uk 01 Dale Street, Liverpool, L2 2ET



GENERAL NOTES

- 1. SETTING OUT SHALL BE UNDERTAKEN USING ONLY THE INFORMATION GIVEN. DISTANCES SHOULD NOT BE SCALED FROM THIS DRAWING.
- 2. ALL SEWERS SHALL BE CONSTRUCTED IN ACCORDANCE WITH SEWERS FOR ADOPTION 7TH EDITION AND UNITED UTILITIES DETAILS & GUIDELINES.
- 3. THE MINIMUM GRAVITY PIPE DIAMETER UNDER ADOPTABLE HIGHWAYS SHALL BE 150mm
- 4. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL INFORMATION GIVEN WITH REGARDS TO EXISTING SERVICES AND DRAINAGE CONNECTIONS ETC. PRIOR TO COMMENCING THE WORKS. THE RATES SHALL INCLUDE FOR HAND DIG AROUND SERVICES WHERE NECESSARY. THE CONTRACTOR SHALL ADHERE TO THE CDM REGULATIONS AT ALL TIMES
- 5. THE OUTSIDES OF ALL SEWERS SHALL BE A MINIMUM OF 1.0m FROM KERB LINES AND THE OUTSIDE OF MANHOLES SHALL BE A MINIMUM OF 0.5m FROM KERB LINES WITHIN ADOPTED HIGHWAY
- 6. EXISTING FLOWS IN WATERCOURSES, SEWERS AND LAND DRAINS SHALL BE MAINTAINED AT ALL TIMES
- 7. ONLY TRAINED PERSONNEL SHALL BE PERMITTED TO ENTER CONFINED SPACES
- 8. ALL MATERIALS TO BEAR THE RELEVANT B.S. KITEMARK AND COMPLY FULLY WITH THE SPECIFICATIONS. ALL CONCRETE & CONCRETE PRODUCTS MUST USE SULPHATE RESISTANT CEMENT (UNLESS THE SITE INVESTIGATION REPORT PROVES THAT SULPHATE ATTACK FROM SOILS AND GROUNDWATER WILL NOT OCCUR TO WITHSTAND A CLASS
- 9. ALL OPENING NOTICES ETC. AS REQUIRED UNDER HIGHWAYS ACTS ETC. ARE TO BE OBTAINED PRIOR TO APPLICABLE.
- 10. WHERE "ULTRA RIB" UPVC PIPES (OR SIMILAR APPROVED) ARE USED IN ADOPTABLE DRAINAGE THEY SHALL STILL BE HANDLED AND LAID IN ACCORDANCE WITH THE SPECIFICATION AND GUIDANCE ISSUED BY THE HIGH PERFORMANCE PIPE ASSOCIATION.
- 11. A CLASS 5 BED AND SURROUND MUST BE USED FOR SUCH PIPES. TRENCH BACKFILL IN HIGHWAYS TO WITHIN 1M OF HIGHWAY SHALL BE A SUITABLE GRANULAR MATERIAL ALL IN ACCORDANCE WITH SEWERS FOR ADOPTION CL. 4.3.4.
- 12. SLAB LEVELS SHALL NOT BE VARIED WITHOUT REFERENCE TO THE ENGINEER FOR GUIDANCE
- 13. DOMESTIC DRAINAGE SHALL BE TO BUILDING REGULATIONS APPROVED DOCUMENT H. 110mm U.P.V.C. PIPES LAID TO THE FOLLOWING MINIMUM FALLS UNLESS OTHERWISE SHOWN.

HEAD RUN	FOUL	S.W.
ELSEWHERE	1 IN 40	1 IN 60
	1 IN 80	1 IN 100

- 14. ALL GULLY CONNECTIONS TO BE 150mm VITRIFIED CLAY UNLESS NOTED OTHERWISE COMMENCEMENT OF WORKS. ALL WORKS ARE TO BE INSPECTED BY L.A., NHBC OR THE NETWORK OPERATOR AS
- PROPOSED SWALE AREAS TO DRAIN INTO TREE PITS
- PROPOSED TREE PITS
- PROPOSED UNDERDRAINS TO DISCHARGE INTO HIGHWAY GULLIES

P01	12.11.2025	PRELIMINARY ISSUE - FOR COMMENTS	JCM	JCM	JCM
REV	DATE	DESCRIPTION	BY	CHK	APP

DRAWING STATUS:	PRELIMINARY
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CLIENT:	NORTHSTONE
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ARCHITECT:	NORTHSTONE
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PROJECT:	HARESHILL ROAD NORTH SOUTH HEYWOOD
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TITLE:	INTERCEPTION SUDS PROPOSALS SHEET 2 OF 2
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STATUS:	PROJECT No:	PROJECT	ORIGINATOR	VOLUYS/LEVEL	TYPE	ROLE	DRAWING No	REV:
S2	225-205	SHE - AJP	-ZZ - 00 -DR - C - 1071	P01				

SCALE @ A1:	DESIGNED:	DRAWN:	CHECKED:	APPROVED:	DATE:
1:100	JCM	JCM	JCM	JCM	SEPT 2025

APPENDIX B – HYDRAULIC DESIGN CALCULATIONS

225-205 : HARESHILL ROAD NORTH SOUTH HEYWOOD		Date: 11/11/2025			
		Designed by: JPR	Checked by: JCM		Approved By: JCM
Report Details: Type: Junctions Storm Phase: 224-162 S.W NETWORK REV		AJP : 1 DALE STREET L2 2ET			

Name	Junction Type	Easting (m)	Northing (m)	Cover Level (m)	Depth (m)	Invert Level (m)	Chamber Shape	Diameter (m)
18	Manhole	385385.592	409088.098	124.860	1.800	123.060	Circular	2.100
17	Manhole	385369.492	409098.670	125.057	2.045	123.012	Circular	2.100
16	Manhole	385356.822	409108.967	125.219	2.248	122.971	Circular	2.100
15	Manhole	385322.286	409139.732	125.041	2.186	122.855	Circular	2.100
14	Manhole	385313.262	409150.267	124.903	2.083	122.820	Circular	2.100
13	Manhole	385304.662	409154.976	124.800	2.005	122.795	Circular	2.100
12	Manhole	385294.209	409154.984	124.639	1.870	122.769	Circular	2.100
11	Manhole	385289.691	409172.431	124.911	2.187	122.724	Circular	2.100
10	Manhole	385279.374	409196.719	125.253	2.595	122.658	Circular	2.100
9	Manhole	385267.771	409224.202	125.555	2.972	122.583	Circular	2.400
27	Manhole	385158.836	409378.901	131.867	1.617	130.250	Circular	1.350
26	Manhole	385172.522	409387.639	131.678	1.590	130.088	Circular	1.500
25	Manhole	385197.341	409398.451	131.387	1.570	129.817	Circular	1.500
22	Manhole	385243.640	409288.911	127.650	2.638	125.012	Circular	1.500
21	Manhole	385244.203	409279.931	127.589	4.855	122.734	Circular	2.400
38	Manhole	385405.237	409452.590	131.008	1.558	129.450	Circular	1.350
37	Manhole	385411.708	409446.464	130.836	1.564	129.272	Circular	1.350
36	Manhole	385414.474	409436.684	130.633	1.564	129.069	Circular	1.350
35	Manhole	385416.535	409423.794	130.369	1.636	128.733	Circular	1.500
34	Manhole	385430.621	409371.196	129.276	1.632	127.644	Circular	1.500
33	Manhole	385429.371	409360.800	129.120	1.685	127.435	Circular	1.350
32	Manhole	385419.771	409354.200	129.002	1.875	127.127	Circular	1.800
31	Manhole	385381.862	409338.223	128.492	1.852	126.640	Circular	2.100
39	Manhole	385366.721	409371.616	129.277	2.045	127.232	Circular	1.500
30	Manhole	385326.978	409314.999	127.894	1.850	126.044	Circular	2.100
29	Manhole	385287.628	409298.517	127.723	2.182	125.541	Circular	2.100
48	Manhole	385232.624	409412.854	131.696	1.696	130.000	Circular	1.350
47	Manhole	385251.623	409421.304	131.535	1.743	129.792	Circular	1.350
46	Manhole	385267.051	409424.981	131.374	1.816	129.558	Circular	1.500
45	Manhole	385305.673	409420.248	130.983	1.814	129.169	Circular	1.500
44	Manhole	385325.191	409421.645	130.808	1.910	128.898	Circular	1.800
43	Manhole	385343.773	409427.799	130.902	2.200	128.702	Circular	1.800
49	Manhole	385371.584	409439.635	131.298	2.143	129.155	Circular	1.800
42	Manhole	385357.251	409393.879	129.915	1.653	128.262	Circular	2.100
41	Manhole	385303.334	409371.920	130.136	2.262	127.874	Circular	2.100
40	Manhole	385264.026	409354.665	129.691	2.103	127.588	Circular	2.100
28	Manhole	385267.604	409289.995	127.836	2.440	125.396	Circular	2.100
55	Manhole	385103.668	409297.438	130.404	1.704	128.700	Circular	1.350
54	Manhole	385115.124	409276.320	129.169	1.652	127.517	Circular	1.350
53	Manhole	385128.890	409267.601	128.770	1.532	127.238	Circular	1.350
52	Manhole	385160.193	409263.570	128.545	3.277	125.268	Circular	1.800
58	Manhole	385157.099	409319.064	130.790	1.790	129.000	Circular	1.350
57	Manhole	385164.427	409301.424	129.910	1.645	128.265	Circular	1.350
56	Manhole	385163.613	409289.626	129.423	1.613	127.810	Circular	1.350
51	Manhole	385192.626	409259.469	128.187	4.659	123.528	Circular	1.800
50	Manhole	385208.756	409264.929	128.036	5.179	122.857	Circular	2.400
20	Manhole	385256.578	409250.711	126.414	3.759	122.655	Circular	2.400
8	Manhole	385237.435	409212.064	125.136	2.635	122.501	Circular	2.400
7	Manhole	385202.833	409197.673	124.620	2.213	122.407	Circular	2.400
6	Manhole	385191.082	409197.163	124.466	2.089	122.377	Circular	2.400
5	Manhole	385156.047	409201.736	124.093	1.805	122.288	Circular	2.700
66	Manhole	385127.109	409350.366	131.945	1.345	130.600	Circular	1.350
65	Manhole	385101.540	409328.566	131.596	1.631	129.965	Circular	1.500
64	Manhole	385090.458	409320.529	131.434	1.697	129.737	Circular	1.500
63	Manhole	385028.181	409286.651	130.666	2.111	128.555	Circular	1.500
62	Manhole	385049.961	409243.760	129.300	2.635	126.665	Circular	1.800
61	Manhole	385075.238	409192.121	126.697	4.193	122.504	Circular	2.400
74	Manhole	385020.137	409282.265	130.566	1.566	129.000	Circular	1.350

225-205 : HARESHILL ROAD NORTH SOUTH HEYWOOD	Date: 11/11/2025		
	Designed by: JPR	Checked by: JCM	Approved By: JCM
	Report Details: Type: Junctions Storm Phase: 224-162 S.W NETWORK REV		
AJP : 1 DALE STREET L2 2ET			

73	Manhole	384998.908	409265.249	130.270	1.610	128.660	Circular	1.350
72	Manhole	384974.724	409237.828	129.872	1.744	128.128	Circular	1.500
71	Manhole	384962.940	409216.460	129.662	1.778	127.884	Circular	1.500
70	Manhole	384980.142	409207.800	129.207	2.011	127.196	Circular	1.500
69	Manhole	385033.219	409183.903	127.796	5.180	122.616	Circular	2.100
68	Manhole	385043.945	409181.266	127.522	4.934	122.588	Circular	2.100
67	Manhole	385060.459	409184.395	127.097	4.551	122.546	Circular	2.100
60	Manhole	385101.756	409205.654	125.750	3.322	122.428	Circular	2.400
59	Manhole	385111.768	409207.401	125.400	3.010	122.390	Circular	2.400
2	Manhole	385103.208	409172.158	124.472	2.273	122.199	Circular	2.400
1	Manhole	385111.616	409162.406	124.290	3.160	121.130	Circular	2.100
S24	Manhole	385201.307	409388.312	131.250	1.651	129.599	Circular	1.350

Name	Lock	Access Required	Intersection Easting (m)	Intersection Northing (m)
18	All	☒	385385.592	409088.098
17	All	☒	385369.492	409098.670
16	All	☒	385356.822	409108.967
15	All	☒	385322.286	409139.732
14	All	☒	385313.262	409150.267
13	All	☒	385304.662	409154.976
12	All	☒	385294.209	409154.984
11	All	☒	385289.691	409172.431
10	All	☒	385279.374	409196.719
9	All	☒	385267.771	409224.202
27	All	☒	385158.836	409378.901
26	All	☒	385172.522	409387.639
25	All	☒	385197.341	409398.451
22	All	☒	385243.640	409288.911
21	All	☒	385244.203	409279.931
38	All	☒	385405.237	409452.590
37	All	☒	385411.708	409446.464
36	All	☒	385414.474	409436.684
35	All	☒	385416.535	409423.794
34	All	☒	385430.621	409371.196
33	All	☒	385429.371	409360.800
32	All	☒	385419.771	409354.200
31	All	☒	385381.862	409338.223
39	All	☒	385366.721	409371.616
30	All	☒	385326.978	409314.999
29	All	☒	385287.628	409298.517
48	All	☒	385232.624	409412.854
47	All	☒	385251.623	409421.304
46	All	☒	385267.051	409424.981
45	All	☒	385305.673	409420.248
44	All	☒	385325.191	409421.645
43	All	☒	385343.773	409427.799
49	All	☒	385371.584	409439.635
42	All	☒	385357.251	409393.879
41	All	☒	385303.334	409371.920
40	All	☒	385264.026	409354.665
28	All	☒	385267.604	409289.995
55	All	☒	385103.668	409297.438
54	All	☒	385115.124	409276.320
53	All	☒	385128.890	409267.601
52	All	☒	385160.193	409263.570
58	All	☒	385157.099	409319.064
57	All	☒	385164.427	409301.424
56	All	☒	385163.613	409289.626
51	All	☒	385192.626	409259.469

225-205 : HARESHILL ROAD NORTH SOUTH HEYWOOD		Date: 11/11/2025			
		Designed by: JPR	Checked by: JCM		Approved By: JCM
Report Details: Type: Junctions Storm Phase: 224-162 S.W NETWORK REV		AJP : 1 DALE STREET L2 2ET			

50	All	☒	385208.756	409264.929
20	All	☒	385256.578	409250.711
8	All	☒	385237.435	409212.064
7	All	☒	385202.833	409197.673
6	All	☒	385191.082	409197.163
5	All	☒	385156.047	409201.736
66	All	☒	385127.109	409350.366
65	All	☒	385101.540	409328.566
64	All	☒	385090.458	409320.529
63	All	☒	385028.181	409286.651
62	All	☒	385049.961	409243.760
61	All	☒	385075.238	409192.121
74	All	☒	385020.137	409282.265
73	All	☒	384998.908	409265.249
72	All	☒	384974.724	409237.828
71	All	☒	384962.940	409216.460
70	All	☒	384980.142	409207.800
69	All	☒	385033.219	409183.903
68	All	☒	385043.945	409181.266
67	All	☒	385060.459	409184.395
60	All	☒	385101.756	409205.654
59	All	☒	385111.768	409207.401
2	All	☐		
1	None	☐		
S24	None	☐		

Inlets

Junction	Inlet Name	Incoming Item(s)	Bypass Destination	Capacity Type
18	Inlet	S18 - PLOT 1-4	(None)	No Restriction
	Inlet (1)	S18 - HIGHWAYS 2	(None)	No Restriction
	Inlet (10)	S18 - 1	(None)	No Restriction
	Inlet (11)	S18 - 2	(None)	No Restriction
	Inlet (12)	S18 - 3	(None)	No Restriction
	Inlet (2)	S18 - HIGHWAYS 2	(None)	No Restriction
	Inlet (8)	S18 - PLOTS 7-8	(None)	No Restriction
	Inlet (9)	S18 - PLOTS 5-6	(None)	No Restriction
17	Inlet	1.000	(None)	No Restriction
	Inlet (2)	S17 - HIGHWAYS	(None)	No Restriction
16	Inlet	1.001	(None)	No Restriction
	Inlet (1)	S16 - PLOTS 9-12	(None)	No Restriction
	Inlet (2)	S16 - HIGHWAYS	(None)	No Restriction
	Inlet (3)	S16 - PLOTS 13-14	(None)	No Restriction
	Inlet (4)	S16-3	(None)	No Restriction
	Inlet (6)	S16 - PLOTS 15-16	(None)	No Restriction
	Inlet (7)	S16 - 1	(None)	No Restriction
	Inlet (8)	S16 - 2	(None)	No Restriction
15	Inlet (9)	S16 - 4	(None)	No Restriction
	Inlet	1.002	(None)	No Restriction
	Inlet (11)	S15 - PLOTS 21-22	(None)	No Restriction
	Inlet (12)	S15 - 1	(None)	No Restriction
	Inlet (13)	S15 - 2	(None)	No Restriction
	Inlet (14)	S15 - 3	(None)	No Restriction
	Inlet (15)	S15 - 4	(None)	No Restriction
	Inlet (2)	S15 - PLOTS 17-18	(None)	No Restriction
14	Inlet (3)	S15 - PLOTS 19-20	(None)	No Restriction
	Inlet (7)	S15 - HIGHWAYS	(None)	No Restriction
	Inlet	1.003	(None)	No Restriction
14	Inlet (2)	S14 - HIGHWAYS	(None)	No Restriction
	Inlet	1.004	(None)	No Restriction

225-205 : HARESHILL ROAD NORTH SOUTH HEYWOOD		Date: 11/11/2025			
		Designed by: JPR	Checked by: JCM		Approved By: JCM
Report Details: Type: Junctions Storm Phase: 224-162 S.W NETWORK REV		AJP : 1 DALE STREET L2 2ET			

Junction	Inlet Name	Incoming Item(s)	Bypass Destination	Capacity Type
13	Inlet (1)	S13 - 1	(None)	No Restriction
	Inlet (2)	S13 - 2	(None)	No Restriction
	Inlet (3)	S13 - PLOTS 23-24	(None)	No Restriction
12	Inlet	1.005	(None)	No Restriction
	Inlet (2)	S12- HIGHWAY S19 - HIGHWAYS	(None)	No Restriction
	Inlet (3)	S12-HIGHWAY	(None)	No Restriction
11	Inlet	1.006	(None)	No Restriction
	Inlet (11)	S11 - HIGHWAY	(None)	No Restriction
	Inlet (12)	S11 - PLOT 44	(None)	No Restriction
	Inlet (13)	S11 - PLOT 43	(None)	No Restriction
	Inlet (14)	S11 - 1	(None)	No Restriction
	Inlet (2)	S11 - PLOT 46	(None)	No Restriction
10	Inlet (5)	S11 - PLOT 55	(None)	No Restriction
	Inlet	1.007	(None)	No Restriction
	Inlet (10)	S10 - PLOTS 25-27	(None)	No Restriction
	Inlet (11)	S10 - PLOTS 28-29	(None)	No Restriction
	Inlet (12)	S10 - PLOTS 30	(None)	No Restriction
	Inlet (13)	S10 - PLOT 42	(None)	No Restriction
	Inlet (14)	S10 - PLOT 41	(None)	No Restriction
	Inlet (15)	S10 - PLOTS 39-40	(None)	No Restriction
	Inlet (16)	S10 - 1	(None)	No Restriction
	Inlet (17)	S10 - 2	(None)	No Restriction
	Inlet (18)	S10 - 3	(None)	No Restriction
	Inlet (19)	S10 - 4	(None)	No Restriction
	Inlet (20)	S10 - 4	(None)	No Restriction
	Inlet (21)	S10 - 5	(None)	No Restriction
	Inlet (22)	S10 - 6	(None)	No Restriction
	Inlet (23)	S10 - 8	(None)	No Restriction
	Inlet (24)	S10 - 7	(None)	No Restriction
9	Inlet (5)	S10 - HIGHWAY	(None)	No Restriction
	Inlet	1.008 3.007	(None)	No Restriction
	Inlet (1)	S9 -HIGHWAY	(None)	No Restriction
	Inlet (2)	S9 - HIGHWAY 2	(None)	No Restriction
	Inlet (3)	S9 - 1	(None)	No Restriction
	Inlet (7)	S9 - PLOT 33-34	(None)	No Restriction
27	Inlet (8)	S9 - PLOT 31-32	(None)	No Restriction
	Inlet	S27 - 1	(None)	No Restriction
	Inlet (1)	S27 - HIGHWAYS	(None)	No Restriction
	Inlet (10)	S27 - PLOT 139	(None)	No Restriction
	Inlet (11)	S27 - PLOT 134	(None)	No Restriction
	Inlet (2)	S27 - 3	(None)	No Restriction
	Inlet (8)	S27 - PLOT 141	(None)	No Restriction
26	Inlet (9)	S27 - PLOT 140	(None)	No Restriction
	Inlet	3.000	(None)	No Restriction
	Inlet (1)	S26 - HIGHWAYS	(None)	No Restriction
	Inlet (10)	S26 - PLOT 136	(None)	No Restriction
	Inlet (2)	S26 - 1	(None)	No Restriction
	Inlet (8)	S26 - PLOT 138	(None)	No Restriction
25	Inlet (9)	S26 - PLOT 137	(None)	No Restriction
	Inlet	3.001	(None)	No Restriction
	Inlet (1)	S25 - HIGHWAY	(None)	No Restriction
	Inlet (2)	S25 - 1	(None)	No Restriction
	Inlet (3)	S25 - 2	(None)	No Restriction
	Inlet (4)	S25 - 3	(None)	No Restriction
	Inlet (5)	S25 - PLOT 135	(None)	No Restriction

225-205 : HARESHILL ROAD NORTH SOUTH HEYWOOD		Date: 11/11/2025			
		Designed by: JPR	Checked by: JCM		Approved By: JCM
Report Details: Type: Junctions Storm Phase: 224-162 S.W NETWORK REV		AJP : 1 DALE STREET L2 2ET			

Junction	Inlet Name	Incoming Item(s)	Bypass Destination	Capacity Type
22	Inlet	S22 - 1	(None)	No Restriction
	Inlet (1)	S22 - 2	(None)	No Restriction
	Inlet (15)	S22 - PLOT 106	(None)	No Restriction
	Inlet (16)	3.004	(None)	No Restriction
	Inlet (17)	S22 - PLOT 102	(None)	No Restriction
	Inlet (18)	S22 - PLOT 105	(None)	No Restriction
	Inlet (19)	S22 - PLOT 104	(None)	No Restriction
	Inlet (20)	S22 - PLOT 103	(None)	No Restriction
	Inlet (21)	S22 - PLOT 101	(None)	No Restriction
	Inlet (22)	S22 - PLOT 100	(None)	No Restriction
	Inlet (23)	S22 - PLOT 99	(None)	No Restriction
21	Inlet	3.005 4.010 8.005	(None)	No Restriction
	Inlet (1)	S21 - HIGHWAY	(None)	No Restriction
	Inlet (2)	S21- HIGHWAY	(None)	No Restriction
	Inlet (3)	S21	(None)	No Restriction
38	Inlet	38 - TOC	(None)	No Restriction
37	Inlet	4.000	(None)	No Restriction
36	Inlet	4.001	(None)	No Restriction
		36 - TOC		
35	Inlet	4.002	(None)	No Restriction
		35 - TOC		
34	Inlet	4.003	(None)	No Restriction
		34 - TOC		
33	Inlet	4.004	(None)	No Restriction
		33 - TOC		
32	Inlet	4.005	(None)	No Restriction
		32 - TOC		
31	Inlet	4.006	(None)	No Restriction
		5.000		
		31 - TOC		
39	Inlet	39 - TOC	(None)	No Restriction
30	Inlet	4.007	(None)	No Restriction
		30 - TOC		
29	Inlet	4.008	(None)	No Restriction
		6.008		
		29 - TOC		
48	Inlet	48 - TOC	(None)	No Restriction
47	Inlet	6.000	(None)	No Restriction
46	Inlet	6.001	(None)	No Restriction
		46 - TOC		
45	Inlet	6.002	(None)	No Restriction
44	Inlet	6.003	(None)	No Restriction
		44 - TOC		
43	Inlet	6.004	(None)	No Restriction
		7.000		
		43 - TOC		
49	Inlet	49 - TOC	(None)	No Restriction
42	Inlet	6.005	(None)	No Restriction
		42 - TOC		
41	Inlet	6.006	(None)	No Restriction
		41 - TOC		
40	Inlet	6.007	(None)	No Restriction
		40 - TOC		
28	Inlet	4.009	(None)	No Restriction
	Inlet (1)	S28 - PLOT 37	(None)	No Restriction
	Inlet (6)	S28 - PLOT 38	(None)	No Restriction

225-205 : HARESHILL ROAD NORTH SOUTH HEYWOOD		Date: 11/11/2025			
		Designed by: JPR	Checked by: JCM		Approved By: JCM
Report Details: Type: Junctions Storm Phase: 224-162 S.W NETWORK REV		AJP : 1 DALE STREET L2 2ET			

Junction	Inlet Name	Incoming Item(s)	Bypass Destination	Capacity Type
55	Inlet (1)	S55 - 1	(None)	No Restriction
	Inlet (2)	S55 - 2	(None)	No Restriction
	Inlet (5)	S55 - HIGHWAYS	(None)	No Restriction
	Inlet (6)	S55 - PLOT 76	(None)	No Restriction
	Inlet (7)	S55 - PLOT 77	(None)	No Restriction
	Inlet (8)	S55 - PLOT 78	(None)	No Restriction
	Inlet (9)	S55 - PLOT 125	(None)	No Restriction
54	Inlet	8.000	(None)	No Restriction
	Inlet (1)	S54 - HIGHWAYS	(None)	No Restriction
	Inlet (2)	S54 - HIGHWAYS 2	(None)	No Restriction
53	Inlet	8.001	(None)	No Restriction
	Inlet (1)	S53 - HIGHWAYS	(None)	No Restriction
	Inlet (10)	S53 - PLOT 79	(None)	No Restriction
	Inlet (11)	S53 - PLOT 80-81	(None)	No Restriction
	Inlet (12)	S53 - PLOT 82	(None)	No Restriction
	Inlet (13)	S53 - PLOT 83	(None)	No Restriction
	Inlet (14)	S53 - PLOT 84	(None)	No Restriction
	Inlet (15)	S53 - PLOT 85-86	(None)	No Restriction
	Inlet (18)	S53 - PLOTS 123-124	(None)	No Restriction
	Inlet (2)	S53 - 1	(None)	No Restriction
	Inlet (3)	S53 - 1 (1)	(None)	No Restriction
52	Inlet	8.002 9.002	(None)	No Restriction
	Inlet (1)	S52 - 1	(None)	No Restriction
	Inlet (10)	S52 - PLOT 88	(None)	No Restriction
	Inlet (11)	S52 - PLOT 87	(None)	No Restriction
	Inlet (12)	S52 - PLOT 121	(None)	No Restriction
	Inlet (13)	S52 - PLOT 122	(None)	No Restriction
	Inlet (14)	S52 - PLOT 89	(None)	No Restriction
	Inlet (15)	S52 - PLOT 90	(None)	No Restriction
	Inlet (16)	S52- PLOT 91	(None)	No Restriction
	Inlet (2)	S52 - 2	(None)	No Restriction
	Inlet (3)	S52 - HIGHWAYS	(None)	No Restriction
58	Inlet	S58 - 1	(None)	No Restriction
	Inlet (1)	S58 - 2	(None)	No Restriction
	Inlet (10)	S58 - PLOT 115	(None)	No Restriction
	Inlet (11)	S58 - PLOT 114	(None)	No Restriction
	Inlet (2)	S58 - 3	(None)	No Restriction
	Inlet (3)	S58 - PLOT 117	(None)	No Restriction
	Inlet (5)	S58 - HIGHWAY	(None)	No Restriction
	Inlet (8)	S58 - PLOT 118	(None)	No Restriction
57	Inlet	9.000	(None)	No Restriction
	Inlet (1)	S57 - 1	(None)	No Restriction
	Inlet (3)	S57 - HIGHWAY	(None)	No Restriction
	Inlet (6)	S57 - PLOT 120	(None)	No Restriction
	Inlet (7)	S57 - PLOT 119	(None)	No Restriction
56	Inlet	9.001	(None)	No Restriction
	Inlet (1)	S56 - 1	(None)	No Restriction
	Inlet (2)	S56 - HIGHWAY	(None)	No Restriction
	Inlet (8)	S56 - PLOT 113	(None)	No Restriction
	Inlet (9)	S56 - PLOT 112	(None)	No Restriction
	Inlet	8.003	(None)	No Restriction
	Inlet (1)	S51 - HIGHWAYS	(None)	No Restriction
	Inlet (10)	S51 - PLOT 93	(None)	No Restriction
	Inlet (11)	S51 - PLOT 94	(None)	No Restriction

225-205 : HARESHILL ROAD NORTH SOUTH HEYWOOD	Date: 11/11/2025		
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Report Details: Type: Junctions Storm Phase: 224-162 S.W NETWORK REV	AJP : 1 DALE STREET L2 2ET		



Junction	Inlet Name	Incoming Item(s)	Bypass Destination	Capacity Type
51	Inlet (3)	S51 - 2	(None)	No Restriction
	Inlet (4)	S51 - 1	(None)	No Restriction
	Inlet (6)	S51 - PLOT 111	(None)	No Restriction
	Inlet (7)	S51 - PLOT 110	(None)	No Restriction
	Inlet (8)	S51 - PLOT 109	(None)	No Restriction
	Inlet (9)	S51 - PLOT 92	(None)	No Restriction
50	Inlet	8.004	(None)	No Restriction
	Inlet (1)	S50 - HIGHWAY	(None)	No Restriction
	Inlet (18)	S50 - PLOT 107-108	(None)	No Restriction
	Inlet (19)	S50 - PLOT 95	(None)	No Restriction
	Inlet (2)	S50 - 1	(None)	No Restriction
	Inlet (20)	S50 - PLOT 96	(None)	No Restriction
	Inlet (21)	S50 - PLOT 97	(None)	No Restriction
	Inlet (22)	S50 - PLOT 98	(None)	No Restriction
20	Inlet (3)	S50 - 2	(None)	No Restriction
	Inlet	3.006	(None)	No Restriction
	Inlet (1)	S20 - HIGHWAYS	(None)	No Restriction
	Inlet (10)	S20 - 4	(None)	No Restriction
	Inlet (11)	S20 - 5	(None)	No Restriction
	Inlet (12)	S20 - 6	(None)	No Restriction
	Inlet (2)	S20 - PLOT 54	(None)	No Restriction
	Inlet (3)	S20 - 1	(None)	No Restriction
	Inlet (4)	S20 - PLOT 53	(None)	No Restriction
	Inlet (5)	S20 - PLOT 36	(None)	No Restriction
	Inlet (6)	S20 - PLOT 35	(None)	No Restriction
8	Inlet (7)	S20 - 1	(None)	No Restriction
	Inlet (8)	S20 - 2	(None)	No Restriction
	Inlet (9)	S20 - 3	(None)	No Restriction
	Inlet	1.009	(None)	No Restriction
	Inlet (1)	S8 - HIGHWAY	(None)	No Restriction
7	Inlet (10)	S8 - 1	(None)	No Restriction
	Inlet (2)	S8 - PLOT 52	(None)	No Restriction
	Inlet (9)	S8 - PLOT 51	(None)	No Restriction
	Inlet	1.010	(None)	No Restriction
	Inlet (1)	S7 - HIGHWAY	(None)	No Restriction
	Inlet (15)	S7 - PLOT 47	(None)	No Restriction
	Inlet (16)	S7 - PLOT 48-49	(None)	No Restriction
	Inlet (17)	S7 - PLOT 58	(None)	No Restriction
	Inlet (18)	S7 - PLOT 57	(None)	No Restriction
	Inlet (19)	S7 - PLOT 56	(None)	No Restriction
5	Inlet (2)	S7 - PLOT 50	(None)	No Restriction
	Inlet (20)	S7 - PLOT 55	(None)	No Restriction
	Inlet (3)	S7 - 1	(None)	No Restriction
	Inlet (4)	S7 - 1	(None)	No Restriction
	Inlet	1.011	(None)	No Restriction
	Inlet	1.012	(None)	No Restriction
	Inlet (1)	S5 - HIGHWAY	(None)	No Restriction
	Inlet (11)	S5 - PLOT 59	(None)	No Restriction
	Inlet (12)	S5 - PLOT 60	(None)	No Restriction
	Inlet (13)	S5 - PLOT 62-63	(None)	No Restriction
6	Inlet (14)	S5 - PLOT 64-65	(None)	No Restriction
	Inlet (15)	S5 - PLOT 66	(None)	No Restriction
	Inlet (16)	S5 - PLOT 67	(None)	No Restriction
	Inlet (17)	S5 - PLOT 68	(None)	No Restriction
	Inlet (18)	S5 - 1	(None)	No Restriction
	Inlet (19)	S5 - 2	(None)	No Restriction
	Inlet	10.007	(None)	No Restriction

225-205 : HARESHILL ROAD NORTH SOUTH HEYWOOD	Date: 11/11/2025		
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Report Details: Type: Junctions Storm Phase: 224-162 S.W NETWORK REV	AJP : 1 DALE STREET L2 2ET		



Junction	Inlet Name	Incoming Item(s)	Bypass Destination	Capacity Type
	Inlet (2)	S5 - PLOT 61	(None)	No Restriction
	Inlet (20)	S5 - 3	(None)	No Restriction
	Inlet (21)	S5 - 4	(None)	No Restriction
	Inlet (22)	S5 - 5	(None)	No Restriction
66	Inlet	S63 - 3	(None)	No Restriction
	Inlet (1)	S66 - PLOT 144	(None)	No Restriction
	Inlet (13)	S66 - PLOT 143	(None)	No Restriction
	Inlet (14)	S66 - PLOT 142	(None)	No Restriction
	Inlet (15)	S66 - PLOT 133	(None)	No Restriction
	Inlet (16)	S66 - PLOT 132	(None)	No Restriction
	Inlet (17)	S66 -PLOT 131	(None)	No Restriction
	Inlet (18)	S66 - PLOT 130	(None)	No Restriction
	Inlet (2)	S66 - 1	(None)	No Restriction
	Inlet (6)	S66 - HIGHWAYS	(None)	No Restriction
65	Inlet	10.000	(None)	No Restriction
	Inlet (1)	S65 - 1	(None)	No Restriction
	Inlet (15)	S65 - PLOT 146	(None)	No Restriction
	Inlet (16)	S65 - PLOT 145	(None)	No Restriction
	Inlet (17)	S65 - PLOT 129	(None)	No Restriction
	Inlet (18)	S65 - PLOT 128	(None)	No Restriction
	Inlet (19)	S65 - PLOT 127	(None)	No Restriction
	Inlet (2)	S65 - HIGHWAYS	(None)	No Restriction
	Inlet (20)	S65 - PLOT 126	(None)	No Restriction
64	Inlet	10.001	(None)	No Restriction
	Inlet (1)	S64 - 2	(None)	No Restriction
	Inlet (2)	S64 - PLOT 149-150	(None)	No Restriction
	Inlet (3)	S64 - PLOT 147-148	(None)	No Restriction
	Inlet (7)	S64 - HIGHWAYS	(None)	No Restriction
63	Inlet	10.002	(None)	No Restriction
	Inlet (1)	S63 - 1	(None)	No Restriction
	Inlet (12)	S63 - PLOT 157	(None)	No Restriction
	Inlet (13)	S63 - PLOT 156	(None)	No Restriction
	Inlet (14)	S63 - PLOT 155	(None)	No Restriction
	Inlet (15)	S63 - PLOT 153-154	(None)	No Restriction
	Inlet (16)	S63 - PLOT 151-152	(None)	No Restriction
	Inlet (2)	S63- HIGHWAY	(None)	No Restriction
62	Inlet	10.003	(None)	No Restriction
	Inlet (1)	S62 - 1	(None)	No Restriction
	Inlet (5)	S62 - PLOT 75	(None)	No Restriction
	Inlet (6)	S62 - PLOT 74	(None)	No Restriction
	Inlet (7)	S62 - PLOT 73	(None)	No Restriction
61	Inlet	10.004 11.007	(None)	No Restriction
	Inlet (2)	S61 - HIGHWAY	(None)	No Restriction
74	Inlet	S74 - PLOT 158	(None)	No Restriction
	Inlet (1)	S74 - HIGHWAYS	(None)	No Restriction
	Inlet (2)	S74 - 1	(None)	No Restriction
73	Inlet	11.000	(None)	No Restriction
	Inlet (1)	S73 - 1	(None)	No Restriction
	Inlet (2)	S73 - HIGHWAYS	(None)	No Restriction
	Inlet (5)	S73 - PLOT 161	(None)	No Restriction
	Inlet (6)	S73 - PLOT 160	(None)	No Restriction
	Inlet (7)	S73 - PLOT 159	(None)	No Restriction
	Inlet	11.001	(None)	No Restriction
	Inlet (1)	S72 - 2	(None)	No Restriction
	Inlet (13)	S72 - PLOT 162	(None)	No Restriction

225-205 : HARESHILL ROAD NORTH SOUTH HEYWOOD		Date: 11/11/2025			
		Designed by: JPR	Checked by: JCM		Approved By: JCM
Report Details: Type: Junctions Storm Phase: 224-162 S.W NETWORK REV		AJP : 1 DALE STREET L2 2ET			

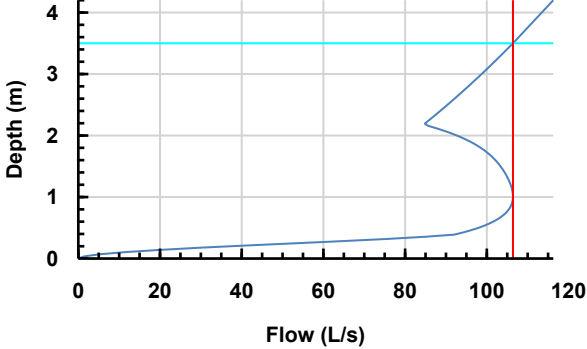
Junction	Inlet Name	Incoming Item(s)	Bypass Destination	Capacity Type
72	Inlet (14)	S72 - PLOT 163-164	(None)	No Restriction
	Inlet (15)	S72 - PLOT 171	(None)	No Restriction
	Inlet (16)	S72 - PLOT 169-170	(None)	No Restriction
	Inlet (17)	S72 - PLOT 168	(None)	No Restriction
	Inlet (2)	S72- HIGHWAYS	(None)	No Restriction
	Inlet (3)	S72 - 3	(None)	No Restriction
	Inlet (4)	S72 - 4	(None)	No Restriction
	Inlet (5)	S72 - 5	(None)	No Restriction
	Inlet (6)	S72 - 6	(None)	No Restriction
71	Inlet (7)	S72 - 1	(None)	No Restriction
	Inlet	11.002	(None)	No Restriction
	Inlet (2)	S71 - HIGHWAY	(None)	No Restriction
	Inlet (3)	S71 - 2	(None)	No Restriction
	Inlet (4)	S71 - 1	(None)	No Restriction
	Inlet (5)	S71 - PLOT 166-167	(None)	No Restriction
70	Inlet (6)	S71 - PLOT 165	(None)	No Restriction
	Inlet	11.003	(None)	No Restriction
	Inlet (1)	S70 - 1	(None)	No Restriction
	Inlet (2)	S70 - HIGHWAY	(None)	No Restriction
	Inlet (8)	S70 - PLOT 173-174	(None)	No Restriction
69	Inlet (9)	S70 - PLOT 172	(None)	No Restriction
	Inlet	11.004	(None)	No Restriction
	Inlet (1)	S69 - PLOTS 175-176	(None)	No Restriction
	Inlet (10)	S69 - PLOT 177-178	(None)	No Restriction
	Inlet (2)	S69 - HIGHWAY	(None)	No Restriction
68	Inlet (3)	S69 - 1	(None)	No Restriction
	Inlet (9)	S69 - PLOT 179	(None)	No Restriction
	Inlet	11.005	(None)	No Restriction
	Inlet (2)	S68 - HIGHWAY	(None)	No Restriction
67	Inlet	11.006	(None)	No Restriction
	Inlet (1)	S67 - 3	(None)	No Restriction
	Inlet (11)	S67 - PLOT 180	(None)	No Restriction
	Inlet (12)	S67 - PLOT 186	(None)	No Restriction
	Inlet (13)	S67 - PLOT 184	(None)	No Restriction
	Inlet (14)	S67 - PLOT 185	(None)	No Restriction
	Inlet (15)	S67 - PLOT 183	(None)	No Restriction
	Inlet (16)	S67 - PLOT 182	(None)	No Restriction
	Inlet (2)	S67 - 3	(None)	No Restriction
	Inlet (3)	S67 - 2	(None)	No Restriction
60	Inlet (8)	S67 - PLOT 181	(None)	No Restriction
	Inlet	10.005	(None)	No Restriction
	Inlet (1)	S60 - HIGHWAY	(None)	No Restriction
	Inlet (2)	S60 - PLOT 69	(None)	No Restriction
	Inlet (3)	S60 - PLOT 70	(None)	No Restriction
	Inlet (4)	S60 - PLOT 72	(None)	No Restriction
	Inlet (5)	S60 - PLOT 71	(None)	No Restriction
	Inlet (6)	S60 - 1	(None)	No Restriction
	Inlet (7)	S60 - 2	(None)	No Restriction
59	Inlet (8)	S60 - 3	(None)	No Restriction
2	Inlet	10.006	(None)	No Restriction
1	Inlet (1)	1.014	(None)	No Restriction
S24	Inlet	1.015	(None)	No Restriction
	Inlet	3.002	(None)	No Restriction

Outlets			
Junction	Outlet Name	Outgoing Connection	Outlet Type
18	Outlet	1.000	Free Discharge
17	Outlet	1.001	Free Discharge

225-205 : HARESHILL ROAD NORTH SOUTH HEYWOOD	Date: 11/11/2025		
	Designed by: JPR	Checked by: JCM	Approved By: JCM
Report Details: Type: Junctions Storm Phase: 224-162 S.W NETWORK REV	AJP : 1 DALE STREET L2 2ET		



Junction	Outlet Name	Outgoing Connection	Outlet Type
16	Outlet	1.002	Free Discharge
15	Outlet	1.003	Free Discharge
14	Outlet	1.004	Free Discharge
13	Outlet	1.005	Free Discharge
12	Outlet	1.006	Free Discharge
11	Outlet	1.007	Free Discharge
10	Outlet	1.008	Free Discharge
9	Outlet	1.009	Free Discharge
27	Outlet	3.000	Free Discharge
26	Outlet	3.001	Free Discharge
25	Outlet	3.002	Free Discharge
22	Outlet	3.005	Free Discharge
21	Outlet	3.006	Free Discharge
38	Outlet	4.000	Free Discharge
37	Outlet	4.001	Free Discharge
36	Outlet	4.002	Free Discharge
35	Outlet	4.003	Free Discharge
34	Outlet	4.004	Free Discharge
33	Outlet	4.005	Free Discharge
32	Outlet	4.006	Free Discharge
31	Outlet	4.007	Free Discharge
39	Outlet	5.000	Free Discharge
30	Outlet	4.008	Free Discharge
29	Outlet	4.009	Free Discharge
48	Outlet	6.000	Free Discharge
47	Outlet	6.001	Free Discharge
46	Outlet	6.002	Free Discharge
45	Outlet	6.003	Free Discharge
44	Outlet	6.004	Free Discharge
43	Outlet	6.005	Free Discharge
49	Outlet	7.000	Free Discharge
42	Outlet	6.006	Free Discharge
41	Outlet	6.007	Free Discharge
40	Outlet	6.008	Free Discharge
28	Outlet	4.010	Free Discharge
55	Outlet	8.000	Free Discharge
54	Outlet	8.001	Free Discharge
53	Outlet	8.002	Free Discharge
52	Outlet	8.003	Free Discharge
58	Outlet	9.000	Free Discharge
57	Outlet	9.001	Free Discharge
56	Outlet	9.002	Free Discharge
51	Outlet	8.004	Free Discharge
50	Outlet	8.005	Free Discharge
20	Outlet	3.007	Free Discharge
8	Outlet	1.010	Free Discharge
7	Outlet	1.011	Free Discharge
6	Outlet	1.012	Free Discharge
5	Outlet	1.013	Free Discharge
66	Outlet	10.000	Free Discharge
65	Outlet	10.001	Free Discharge
64	Outlet	10.002	Free Discharge
63	Outlet	10.003	Free Discharge
62	Outlet	10.004	Free Discharge
61	Outlet	10.005	Free Discharge
74	Outlet	11.000	Free Discharge
73	Outlet	11.001	Free Discharge
72	Outlet	11.002	Free Discharge
71	Outlet	11.003	Free Discharge
70	Outlet	11.004	Free Discharge
69	Outlet	11.005	Free Discharge
68	Outlet	11.006	Free Discharge
67	Outlet	11.007	Free Discharge
60	Outlet	10.006	Free Discharge
59	Outlet	10.007	Free Discharge
	Outlet	1.015	Hydro-Brake®

225-205 : HARESHILL ROAD NORTH SOUTH HEYWOOD		Date: 11/11/2025			
		Designed by: JPR	Checked by: JCM		Approved By: JCM
Report Details: Type: Junctions Storm Phase: 224-162 S.W NETWORK REV		AJP : 1 DALE STREET L2 2ET			
2	Junction	Outlet Name	Outgoing Connection	Outlet Type	
		Invert Level (m)	122.229		
		Design Depth (m)	3.500		
		Design Flow (L/s)	106.4		
		Objective	Minimise Upstream Storage Requirements		
		Application	Surface Water Only		
		Sump Available	☒		
		Unit Reference	SHE-0371-1064-3500-1064		
					
S24	Outlet	3.003	Free Discharge		

225-205 : HARESHILL ROAD NORTH SOUTH HEYWOOD	Date: 11/11/2025		
	Designed by: JPR	Checked by: JCM	Approved By: JCM
Report Details: Type: Stormwater Controls Storm Phase: 224-162 S.W NETWORK REV	AJP : 1 DALE STREET L2 2ET		





Pond

Type : Pond

Dimensions

Exceedance Level (m)	123.702
Depth (m)	1.450
Base Level (m)	122.252
Freeboard (mm)	400
Initial Depth (m)	0.000
Porosity (%)	100
Average Slope (1:X)	4.016
Total Volume (m³)	2657.947

Depth (m)	Area (m²)	Volume (m³)
0.000	2165.00	0.000
1.450	3232.00	3887.081

Inlets

Inlet (1)

Inlet Type	Point Inflow
Incoming Item(s)	1.013
Bypass Destination	(None)
Capacity Type	No Restriction

Outlets

Outlet

Outgoing Connection	1.014
Outlet Type	Free Discharge

Advanced

Perimeter	Circular
Length (m)	41.500
Friction Scheme	Manning's n
n	0.024

225-205 : HARESHILL ROAD NORTH SOUTH HEYWOOD	Date: 11/11/2025		
	Designed by: JPR	Checked by: JCM	Approved By: JCM
Report Details: Type: Stormwater Controls Storm Phase: 224-162 S.W NETWORK REV	AJP : 1 DALE STREET L2 2ET		



Dry Swale

Type : Swale

Swale

Exceedance Level (m)	128.086
Depth (m)	0.300
Base Level (m)	127.786
Top Width (m)	5.000
Side Slope (1:X)	5.00
Base Width (m)	2.000
Freeboard (mm)	0
Length (m)	104.427
Long. Slope (1:X)	35.00
Filtration Rate (m/hr)	2.0
Friction Scheme	Manning's n
n	0.024
Total Volume (m³)	189.871

Trench

Trench Depth (m)	1.250
Trench Porosity (%)	30

Under Drain

Height Above Base (m)	0.000
Diameter (mm)	300
No. of Barrels	1
Release Height (m)	0.000
Friction Scheme	Manning's n
n	0.015

Inlets

Inlet

Inlet Type	Point Inflow
Incoming Item(s)	3.003
Bypass Destination	(None)
Inlet Destination	Ponding Area
Capacity Type	No Restriction

Outlets

Outlet

Outgoing Connection	3.004
Outlet Type	Free Discharge

Advanced

Swale

Porosity (%)	100
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Trench

Trench Conductivity (m/hr)	0.3
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225-205 : HARESHILL ROAD NORTH SOUTH HEYWOOD	Date: 11/11/2025		
	Designed by: JPR	Checked by: JCM	Approved By: JCM
Report Details: Type: Connections Storm Phase: 224-162 S.W NETWORK REV	AJP : 1 DALE STREET L2 2ET		



Name	Length (m)	Connection Type	Slope (1:X)	Manning's n	Colebrook-White Roughness (mm)	Diameter / Base Width (mm)	Upstream Cover Level (m)	Upstream Invert Level (m)
1.000	19.260	Pipe	401.260		0.6	900	124.860	123.060
1.001	16.326	Pipe	398.207		0.6	900	125.057	123.012
1.002	46.252	Pipe	398.724		0.6	900	125.219	122.971
1.003	13.871	Pipe	396.314		0.6	900	125.041	122.855
1.004	9.806	Pipe	392.240		0.6	900	124.903	122.820
1.005	10.453	Pipe	402.038		0.6	900	124.800	122.795
1.006	18.023	Pipe	400.508		0.6	900	124.639	122.769
1.007	26.388	Pipe	399.814		0.6	900	124.911	122.724
1.008	29.832	Pipe	397.760		0.6	900	125.253	122.658
3.000	16.238	Pipe	100.235		0.6	300	131.867	130.250
3.001	27.072	Pipe	99.897		0.6	300	131.678	130.088
3.002	10.886	Pipe	49.938		0.6	300	131.387	129.817
3.005	8.997	Pipe	100.000		0.6	375	127.650	125.012
4.000	8.910	Pipe	50.056		0.6	225	131.008	129.450
4.001	10.163	Pipe	50.064		0.6	225	130.836	129.272
4.002	13.054	Pipe	38.851		0.6	225	130.633	129.069
4.003	54.451	Pipe	50.001		0.6	300	130.369	128.733
4.004	10.471	Pipe	50.100		0.6	300	129.276	127.644
4.005	11.650	Pipe	37.825		0.6	300	129.120	127.435
4.006	41.139	Pipe	84.474		0.6	375	129.002	127.127
5.000	36.665	Pipe	61.935		0.6	225	129.277	127.232
4.007	59.596	Pipe	99.993		0.6	450	128.492	126.640
4.008	42.662	Pipe	84.815		0.6	450	127.894	126.044
6.000	20.793	Pipe	99.966		0.6	225	131.696	130.000
6.001	15.860	Pipe	67.778		0.6	225	131.535	129.792
6.002	38.911	Pipe	100.028		0.6	300	131.374	129.558
6.003	19.568	Pipe	72.207		0.6	300	130.983	129.169
6.004	19.575	Pipe	99.872		0.6	375	130.808	128.898
7.000	30.225	Pipe	66.722		0.6	225	131.298	129.155
6.005	36.500	Pipe	82.955		0.6	375	130.902	128.702
6.006	58.218	Pipe	150.046		0.6	450	129.915	128.262
6.007	42.929	Pipe	150.101		0.6	450	130.136	127.874
6.008	60.906	Pipe	29.754		0.6	450	129.691	127.588
4.009	21.762	Pipe	150.083		0.6	525	127.723	125.541
4.010	25.473	Pipe	53.741		0.6	525	127.836	125.396
8.000	24.025	Pipe	20.309		0.6	225	130.404	128.700
8.001	16.295	Pipe	79.875		0.6	225	129.169	127.517
8.002	31.562	Pipe	67.153		0.6	300	128.770	127.238
9.000	19.102	Pipe	25.989		0.6	225	130.790	129.000
9.001	11.826	Pipe	25.990		0.6	225	129.910	128.265
9.002	26.280	Pipe	25.221		0.6	225	129.423	127.810
8.003	32.691	Pipe	136.452		0.6	375	128.545	125.268
8.004	17.029	Pipe	116.639		0.6	375	128.187	123.528
8.005	38.490	Pipe	312.929		0.6	900	128.036	122.857
3.006	31.732	Pipe	401.671		0.6	900	127.589	122.734
3.007	28.775	Pipe	399.653		0.6	900	126.414	122.655
1.009	32.673	Pipe	398.457		0.6	900	125.555	122.583
1.010	37.476	Pipe	398.681		0.6	900	125.136	122.501
1.011	11.762	Pipe	392.067		0.6	900	124.620	122.407
1.012	35.332	Pipe	396.989		0.6	900	124.466	122.377
10.000	33.601	Pipe	60.002		0.6	225	131.945	130.600
10.001	13.690	Pipe	60.044		0.6	300	131.596	129.965
10.002	70.895	Pipe	59.979		0.6	300	131.434	129.737
10.003	48.105	Pipe	25.452		0.6	300	130.666	128.555
10.004	57.493	Pipe	26.361		0.6	375	129.300	126.665
11.000	27.207	Pipe	80.021		0.6	225	130.566	129.000

225-205 : HARESHILL ROAD NORTH SOUTH HEYWOOD		Date: 11/11/2025			
		Designed by: JPR	Checked by: JCM		Approved By: JCM
Report Details: Type: Connections Storm Phase: 224-162 S.W NETWORK REV		AJP : 1 DALE STREET L2 2ET			

11.001	36.562	Pipe	80.004		0.6	225	130.270	128.660
11.002	24.402	Pipe	100.008		0.6	300	129.872	128.128
11.003	19.259	Pipe	27.993		0.6	300	129.662	127.884
11.004	58.209	Pipe	14.625		0.6	300	129.207	127.196
11.005	11.045	Pipe	394.464		0.6	900	127.796	122.616
11.006	16.808	Pipe	400.185		0.6	900	127.522	122.588
11.007	16.677	Pipe	397.062		0.6	900	127.097	122.546
10.005	29.772	Pipe	391.733		0.6	900	126.697	122.504
10.006	10.163	Pipe	267.440		0.6	900	125.750	122.428
10.007	44.640	Pipe	437.646		0.6	900	125.400	122.390
1.013	10.371	Pipe	288.084		0.6	900	124.093	122.288
1.014	6.962	Pipe	131.358		0.6	900	123.702	122.252
1.015	12.876	Pipe	12.045		0.6	525	124.472	122.199
3.003	1.603	Pipe	20.199		0.6	300	131.250	129.599
3.004	2.018	Pipe	84.099		0.6	300	131.070	126.536

Name	Downstream Cover Level (m)	Downstream Invert Level (m)	Part Family	Lock	Flow Restriction (L/s)	Culvert Type	Culvert Entrance	Wall Thickness (mm)
1.000	125.057	123.012		None		(None)	(None)	0
1.001	125.219	122.971		None		(None)	(None)	0
1.002	125.041	122.855		None		(None)	(None)	0
1.003	124.903	122.820		None		(None)	(None)	0
1.004	124.800	122.795		None		(None)	(None)	0
1.005	124.639	122.769		None		(None)	(None)	0
1.006	124.911	122.724		None		(None)	(None)	0
1.007	125.253	122.658		None		(None)	(None)	0
1.008	125.555	122.583		None		(None)	(None)	0
3.000	131.678	130.088		None		(None)	(None)	0
3.001	131.387	129.817		None		(None)	(None)	0
3.002	131.250	129.599		None		(None)	(None)	0
3.005	127.589	124.922		Levels		(None)	(None)	0
4.000	130.836	129.272		None		(None)	(None)	0
4.001	130.633	129.069		None		(None)	(None)	0
4.002	130.369	128.733		None		(None)	(None)	0
4.003	129.276	127.644		None		(None)	(None)	0
4.004	129.120	127.435		None		(None)	(None)	0
4.005	129.002	127.127		None		(None)	(None)	0
4.006	128.492	126.640		None		(None)	(None)	0
5.000	128.492	126.640		None		(None)	(None)	0
4.007	127.894	126.044		None		(None)	(None)	0
4.008	127.723	125.541		None		(None)	(None)	0
6.000	131.535	129.792		None		(None)	(None)	0
6.001	131.374	129.558		None		(None)	(None)	0
6.002	130.983	129.169		None		(None)	(None)	0
6.003	130.808	128.898		None		(None)	(None)	0
6.004	130.902	128.702		None		(None)	(None)	0
7.000	130.902	128.702		None		(None)	(None)	0
6.005	129.915	128.262		None		(None)	(None)	0
6.006	130.136	127.874		None		(None)	(None)	0
6.007	129.691	127.588		None		(None)	(None)	0
6.008	127.723	125.541		None		(None)	(None)	0
4.009	127.836	125.396		None		(None)	(None)	0
4.010	127.589	124.922		Levels		(None)	(None)	0
8.000	129.169	127.517		None		(None)	(None)	0
8.001	128.770	127.313		Levels		(None)	(None)	0
8.002	128.545	126.768		Levels		(None)	(None)	0
9.000	129.910	128.265		None		(None)	(None)	0
9.001	129.423	127.810		None		(None)	(None)	0
9.002	128.545	126.768		Levels		(None)	(None)	0
8.003	128.187	125.028		Levels		(None)	(None)	0

225-205 : HARESHILL ROAD NORTH SOUTH HEYWOOD	Date: 11/11/2025		
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Report Details: Type: Connections Storm Phase: 224-162 S.W NETWORK REV	AJP : 1 DALE STREET L2 2ET		



8.004	128.036	123.382	Levels	(None)	(None)	0
8.005	127.589	122.734	None	(None)	(None)	0
3.006	126.414	122.655	None	(None)	(None)	0
3.007	125.555	122.583	None	(None)	(None)	0
1.009	125.136	122.501	None	(None)	(None)	0
1.010	124.620	122.407	None	(None)	(None)	0
1.011	124.466	122.377	None	(None)	(None)	0
1.012	124.093	122.288	None	(None)	(None)	0
10.000	131.596	130.040	Levels	(None)	(None)	0
10.001	131.434	129.737	None	(None)	(None)	0
10.002	130.666	128.555	None	(None)	(None)	0
10.003	129.300	126.665	None	(None)	(None)	0
10.004	126.697	124.484	Levels	(None)	(None)	0
11.000	130.270	128.660	None	(None)	(None)	0
11.001	129.872	128.203	Levels	(None)	(None)	0
11.002	129.662	127.884	None	(None)	(None)	0
11.003	129.207	127.196	None	(None)	(None)	0
11.004	127.796	123.216	Levels	(None)	(None)	0
11.005	127.522	122.588	None	(None)	(None)	0
11.006	127.097	122.546	None	(None)	(None)	0
11.007	126.697	122.504	None	(None)	(None)	0
10.005	125.750	122.428	None	(None)	(None)	0
10.006	125.400	122.390	None	(None)	(None)	0
10.007	124.093	122.288	None	(None)	(None)	0
1.013	123.702	122.252	None	(None)	(None)	0
1.014	124.472	122.199	None	(None)	(None)	0
1.015	124.290	121.130	Levels	85.7	(None)	0
3.003	131.070	129.520	None	(None)	(None)	0
3.004	127.650	126.512	Levels	(None)	(None)	0

Name	Material	Trench Width (mm)	Bedding Material	Surrounding Material
1.000		0		
1.001		0		
1.002		0		
1.003		0		
1.004		0		
1.005		0		
1.006		0		
1.007		0		
1.008		0		
3.000		0		
3.001		0		
3.002		0		
3.005		0		
4.000		0		
4.001		0		
4.002		0		
4.003		0		
4.004		0		
4.005		0		
4.006		0		
5.000		0		
4.007		0		
4.008		0		
6.000		0		
6.001		0		
6.002		0		
6.003		0		
6.004		0		
7.000		0		

225-205 : HARESHILL ROAD NORTH SOUTH HEYWOOD	Date: 11/11/2025		
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Report Details: Type: Connections Storm Phase: 224-162 S.W NETWORK REV	AJP : 1 DALE STREET L2 2ET		



6.005	0		
6.006	0		
6.007	0		
6.008	0		
4.009	0		
4.010	0		
8.000	0		
8.001	0		
8.002	0		
9.000	0		
9.001	0		
9.002	0		
8.003	0		
8.004	0		
8.005	0		
3.006	0		
3.007	0		
1.009	0		
1.010	0		
1.011	0		
1.012	0		
10.000	0		
10.001	0		
10.002	0		
10.003	0		
10.004	0		
11.000	0		
11.001	0		
11.002	0		
11.003	0		
11.004	0		
11.005	0		
11.006	0		
11.007	0		
10.005	0		
10.006	0		
10.007	0		
1.013	0		
1.014	0		
1.015	0		
3.003	0		
3.004	0		

225-205 : HARESHILL ROAD NORTH SOUTH HEYWOOD	Date: 11/11/2025		
	Designed by: JPR	Checked by: JCM	Approved By: JCM
Report Details: Type: Network Design Criteria Storm Phase: 224-162 S.W NETWORK REV	AJP : 1 DALE STREET L2 2ET		



Flow Options

Peak Flow Calculation	(UK) Modified Rational Method
Min. Time of Entry (mins)	4
Max. Travel Time (mins)	30

Design Criteria FSR

Type: FSR

Return Period (years)	2.0
Region	England And Wales
M5-60 (mm)	18.0
Ratio R	0.376

Pipe Options

Lock Slope Options	None
Design Options	Minimise Excavation
Design Level	Level Soffits
Min. Cover Depth (m)	0.900
Min. Slope (1:X)	400.00
Max. Slope (1:X)	12.00
Min. Backdrop (m)	0.000
Max. Backdrop (m)	10.000
Min. Velocity (m/s)	1.0
Max. Velocity (m/s)	4.0
Use Flow Restriction	☒
Reduce Channel Depths	☒

Pipe Size Library

224-162 S.W Network

Add. Increment (mm)	75
Max. Diameter (mm)	0

Diameter (mm)	Min. Slope (1:X)	Max. Slope (1:X)
100	0.00	0.00
150	0.00	0.00

225-205 : HARESHILL ROAD NORTH SOUTH HEYWOOD	Date: 11/11/2025		
	Designed by: JPR	Checked by: JCM	Approved By: JCM
Report Details: Type: Network Design Criteria Storm Phase: 224-162 S.W NETWORK REV	AJP : 1 DALE STREET L2 2ET		



Manhole Options

Apply Offset

☐

Manhole Size Library

224-162 S.W Network

Diameter / Width

Connection (mm)	Diameter / Length (m)	Width (m)
0	1.200	0.000
375	1.350	0.000
500	1.500	0.000
750	1.800	0.000

Depth

Depth (m)	Diameter / Length (m)	Width (m)
0.000	1.050	0.000
1.500	1.200	0.000

Access

Depth (m)	Ladder Protrusion (mm)
0.000	130
3.000	230

Benching Requirements

Landing Width (mm)	500
Benching Width (mm)	225

225-205 : HARESHILL ROAD NORTH SOUTH HEYWOOD	Date: 11/11/2025			
	Designed by: JPR	Checked by: JCM	Approved By: JCM	
Report Details: Type: Outfall Details Storm Phase: 224-162 S.W NETWORK REV	AJP : 1 DALE STREET L2 2ET			

Outfalls

Outfall	Outfall Type	Gated	Fixed Surcharged Level (m)	Level Curve
1	Free Discharge			

225-205 : HARESHILL ROAD NORTH SOUTH HEYWOOD	Date: 11/11/2025		
	Designed by: JPR	Checked by: JCM	Approved By: JCM
Report Details: Type: Rainfall Analysis Criteria	AJP : 1 DALE STREET L2 2ET		



Runoff Type	Dynamic
Output Interval (mins)	5
Time Step	Shortest
Urban Creep	Apply Global Value
Urban Creep Global Value (%)	0
Junction Flood Risk Margin (mm)	0
Perform No Discharge Analysis	☐

225-205 : HARESHILL ROAD NORTH SOUTH HEYWOOD		Date: 11/11/2025			
		Designed by: JPR	Checked by: JCM		Approved By: JCM
Report Details: Type: Junctions Summary Storm Phase: 224-162 S.W NETWORK REV		AJP : 1 DALE STREET L2 2ET			



Sim Criteria FSR: 1 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Depth

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
18	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	124.860	123.060	123.137	0.077	15.1	0.268	0.000	14.3	6.990	OK
17	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	125.057	123.012	123.090	0.078	15.9	0.270	0.000	14.3	7.695	OK
16	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	125.219	122.971	123.061	0.090	24.6	0.311	0.000	21.6	12.429	OK
15	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	125.041	122.855	123.021	0.166	32.9	0.576	0.000	28.4	17.520	OK
14	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	124.903	122.820	123.017	0.197	29.9	0.684	0.000	26.8	18.152	OK
13	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	124.800	122.795	123.015	0.220	29.6	0.761	0.000	29.3	19.331	OK
12	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	124.639	122.769	123.012	0.243	30.8	0.840	0.000	34.9	21.824	OK
11	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	124.911	122.724	123.007	0.283	38.1	0.980	0.000	44.3	27.101	OK
10	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	125.253	122.658	123.001	0.343	49.3	1.188	0.000	57.2	35.328	OK
9	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	125.555	122.583	122.995	0.412	308.2	1.862	0.000	320.6	223.962	OK
27	Sim Criteria FSR: 1 years: +0 %: 30 mins: Winter	131.867	130.250	130.802	0.552	4.7	0.790	0.000	7.8	3.252	Surcharged
26	Sim Criteria FSR: 1 years: +0 %: 30 mins: Winter	131.678	130.088	130.804	0.716	14.3	1.264	0.000	15.2	6.848	Surcharged
25	Sim Criteria FSR: 1 years: +0 %: 30 mins: Winter	131.387	129.817	130.793	0.976	20.8	1.725	0.000	20.4	8.444	Surcharged
22	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	127.650	125.012	125.105	0.093	23.5	0.165	0.000	22.9	12.319	OK
21	Sim Criteria FSR: 1 years: +0 %: 30 mins: Winter	127.589	122.734	123.091	0.357	251.8	1.615	0.000	249.7	238.555	OK
38	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	131.008	129.450	129.506	0.056	9.0	0.080	0.000	8.8	4.170	OK
37	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	130.836	129.272	129.326	0.054	8.8	0.077	0.000	8.6	4.166	OK
36	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	130.633	129.069	129.134	0.065	15.0	0.094	0.000	14.7	7.133	OK
35	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	130.369	128.733	128.816	0.083	27.8	0.147	0.000	26.6	13.189	OK
34	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	129.276	127.644	127.744	0.100	33.3	0.177	0.000	31.6	16.305	OK

225-205 : HARESHILL ROAD NORTH SOUTH HEYWOOD				Date: 11/11/2025							
				Designed by:	Checked by:	Approved By:					
Report Details: Type: Junctions Summary Storm Phase: 224-162 S.W NETWORK REV				JPR	JCM	JCM					
				AJP : 1 DALE STREET L2 2ET							

33	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	129.120	127.435	127.545	0.110	44.7	0.157	0.000	43.8	22.353	OK
32	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	129.002	127.127	127.264	0.137	59.9	0.348	0.000	57.3	29.770	OK
31	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	128.492	126.640	126.787	0.147	75.8	0.509	0.000	69.0	38.404	OK
39	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	129.277	127.232	127.296	0.064	12.6	0.114	0.000	12.1	5.842	OK
30	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	127.894	126.044	126.190	0.146	87.2	0.506	0.000	80.8	46.701	OK
29	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	127.723	125.541	125.809	0.268	198.3	0.928	0.000	178.9	114.440	OK
48	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	131.696	130.000	130.088	0.088	15.7	0.126	0.000	15.2	7.260	OK
47	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	131.535	129.792	129.868	0.076	15.2	0.109	0.000	14.6	7.249	OK
46	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	131.374	129.558	129.663	0.105	28.2	0.186	0.000	26.8	13.542	OK
45	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	130.983	129.169	129.262	0.093	26.8	0.165	0.000	25.3	13.503	OK
44	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	130.808	128.898	129.023	0.125	42.8	0.318	0.000	40.9	21.592	OK
43	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	130.902	128.702	128.848	0.146	68.2	0.372	0.000	64.3	34.414	OK
49	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	131.298	129.155	129.219	0.064	12.1	0.163	0.000	11.6	5.606	OK
42	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	129.915	128.262	128.424	0.162	73.3	0.560	0.000	66.7	38.472	OK
41	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	130.136	127.874	128.052	0.178	84.5	0.615	0.000	75.9	46.527	OK
40	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	129.691	127.588	127.700	0.112	86.4	0.387	0.000	81.1	51.237	OK
28	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	127.836	125.396	125.597	0.201	180.5	0.696	0.000	169.9	114.973	OK
55	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	130.404	128.700	128.739	0.039	8.0	0.056	0.000	7.8	3.707	OK
54	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	129.169	127.517	127.590	0.073	12.7	0.104	0.000	11.9	5.958	OK
53	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	128.770	127.238	127.343	0.105	34.3	0.150	0.000	32.7	16.326	OK
52	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	128.545	125.268	125.442	0.174	70.3	0.442	0.000	66.1	34.374	OK
58	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	130.790	129.000	129.053	0.053	12.9	0.076	0.000	12.7	5.979	OK
57	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	129.910	128.265	128.330	0.065	17.9	0.093	0.000	17.4	8.368	OK

225-205 : HARESHILL ROAD NORTH SOUTH HEYWOOD				Date: 11/11/2025							
				Designed by:	Checked by:	Approved By:					
Report Details: Type: Junctions Summary Storm Phase: 224-162 S.W NETWORK REV				JPR	JCM	JCM					
				AJP : 1 DALE STREET L2 2ET							

56	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	129.423	127.810	127.883	0.073	23.1	0.105	0.000	22.3	11.003	OK
51	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	128.187	123.528	123.717	0.189	81.1	0.482	0.000	78.2	41.312	OK
50	Sim Criteria FSR: 1 years: +0 %: 30 mins: Winter	128.036	122.857	123.103	0.246	67.3	1.112	0.000	66.2	62.215	OK
20	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	126.414	122.655	123.033	0.378	259.3	1.711	0.000	247.1	183.289	OK
8	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	125.136	122.501	122.920	0.419	322.6	1.897	0.000	330.3	226.192	OK
7	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	124.620	122.407	122.843	0.436	336.3	1.972	0.000	341.7	235.242	OK
6	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	124.466	122.377	122.785	0.408	341.7	1.846	0.000	346.5	234.128	OK
5	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	124.093	122.288	122.676	0.388	447.3	2.222	0.000	455.3	323.092	OK
66	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	131.945	130.600	130.681	0.081	18.4	0.115	0.000	17.4	8.499	OK
65	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	131.596	129.965	130.063	0.098	29.2	0.173	0.000	28.7	13.987	OK
64	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	131.434	129.737	129.842	0.105	38.4	0.186	0.000	36.2	18.454	OK
63	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	130.666	128.555	128.657	0.102	55.4	0.181	0.000	52.4	27.291	OK
62	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	129.300	126.665	126.764	0.099	62.0	0.253	0.000	57.4	31.645	OK
61	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	126.697	122.504	122.726	0.222	121.3	1.003	0.000	111.7	70.459	OK
74	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	130.566	129.000	129.040	0.040	4.3	0.057	0.000	4.1	1.971	OK
73	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	130.270	128.660	128.730	0.070	12.7	0.100	0.000	11.5	5.953	OK
72	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	129.872	128.128	128.234	0.106	27.1	0.187	0.000	26.3	13.188	OK
71	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	129.662	127.884	127.970	0.086	34.7	0.152	0.000	33.8	17.077	OK
70	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	129.207	127.196	127.271	0.075	40.9	0.132	0.000	38.8	20.378	OK
69	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	127.796	122.616	122.778	0.162	52.7	0.561	0.000	50.1	26.791	OK
68	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	127.522	122.588	122.759	0.171	52.1	0.593	0.000	46.2	27.646	OK
67	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	127.097	122.546	122.742	0.196	66.5	0.680	0.000	59.7	36.996	OK
60	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	125.750	122.428	122.698	0.270	126.2	1.221	0.000	114.1	76.923	OK

225-205 : HARESHILL ROAD NORTH SOUTH HEYWOOD		Date: 11/11/2025			
		Designed by: JPR	Checked by: JCM	Approved By: JCM	
Report Details: Type: Junctions Summary Storm Phase: 224-162 S.W NETWORK REV		AJP : 1 DALE STREET L2 2ET			

59	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	125.4 00	122.3 90	122.68 8	0.298	114.1	1.348	0.000	94.0	76.736	OK
2	Sim Criteria FSR: 1 years: +0 %: 360 mins: Winter	124.4 72	122.1 99	122.52 2	0.323	45.7	1.462	0.000	45.7	822.152	OK
1	Sim Criteria FSR: 1 years: +0 %: 360 mins: Winter	124.2 90	121.1 30	121.19 4	0.064	45.7	0.000	0.000	45.7	822.119	OK
S24	Sim Criteria FSR: 1 years: +0 %: 30 mins: Winter	131.2 50	129.5 99	130.78 4	1.185	20.4	1.695	0.000	19.8	5.865	Surcharged

225-205 : HARESHILL ROAD NORTH SOUTH HEYWOOD	Date: 11/11/2025			
	Designed by:	Checked by:	Approved By:	
Report Details: Type: Junctions Summary Storm Phase: 224-162 S.W NETWORK REV	JPR	JCM	JCM	
AJP : 1 DALE STREET L2 2ET				



Sim Criteria FSR: 2 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Depth

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
18	Sim Criteria FSR: 2 years: +0 %: 15 mins: Winter	124.860	123.060	123.148	0.088	19.5	0.306	0.000	18.5	9.048	OK
17	Sim Criteria FSR: 2 years: +0 %: 15 mins: Winter	125.057	123.012	123.106	0.094	20.6	0.325	0.000	18.7	9.968	OK
16	Sim Criteria FSR: 2 years: +0 %: 15 mins: Winter	125.219	122.971	123.100	0.129	32.0	0.447	0.000	28.6	16.118	OK
15	Sim Criteria FSR: 2 years: +0 %: 15 mins: Winter	125.041	122.855	123.088	0.233	43.2	0.807	0.000	37.0	22.743	OK
14	Sim Criteria FSR: 2 years: +0 %: 15 mins: Winter	124.903	122.820	123.084	0.264	39.0	0.916	0.000	30.2	23.584	OK
13	Sim Criteria FSR: 2 years: +0 %: 15 mins: Winter	124.800	122.795	123.082	0.287	32.7	0.993	0.000	34.3	25.128	OK
12	Sim Criteria FSR: 2 years: +0 %: 15 mins: Winter	124.639	122.769	123.079	0.310	36.3	1.073	0.000	40.6	28.378	OK
11	Sim Criteria FSR: 2 years: +0 %: 15 mins: Winter	124.911	122.724	123.074	0.350	44.8	1.213	0.000	52.2	35.409	OK
10	Sim Criteria FSR: 2 years: +0 %: 15 mins: Winter	125.253	122.658	123.069	0.411	58.7	1.424	0.000	69.2	46.351	OK
9	Sim Criteria FSR: 2 years: +0 %: 15 mins: Winter	125.555	122.583	123.063	0.480	384.3	2.174	0.000	402.2	294.337	OK
27	Sim Criteria FSR: 2 years: +0 %: 30 mins: Winter	131.867	130.250	130.809	0.559	9.2	0.800	0.000	5.9	4.541	Surcharged
26	Sim Criteria FSR: 2 years: +0 %: 30 mins: Winter	131.678	130.088	130.809	0.721	14.3	1.273	0.000	14.3	9.841	Surcharged
25	Sim Criteria FSR: 2 years: +0 %: 30 mins: Winter	131.387	129.817	130.803	0.986	21.4	1.742	0.000	21.3	12.893	Surcharged
22	Sim Criteria FSR: 2 years: +0 %: 15 mins: Winter	127.650	125.012	125.119	0.107	30.4	0.190	0.000	29.7	18.965	OK
21	Sim Criteria FSR: 2 years: +0 %: 30 mins: Winter	127.589	122.734	123.155	0.421	324.9	1.904	0.000	321.9	310.833	OK
38	Sim Criteria FSR: 2 years: +0 %: 15 mins: Winter	131.008	129.450	129.514	0.064	11.7	0.092	0.000	11.5	5.400	OK
37	Sim Criteria FSR: 2 years: +0 %: 15 mins: Winter	130.836	129.272	129.334	0.062	11.5	0.089	0.000	11.2	5.396	OK
36	Sim Criteria FSR: 2 years: +0 %: 15 mins: Winter	130.633	129.069	129.145	0.076	19.5	0.109	0.000	19.0	9.236	OK
35	Sim Criteria FSR: 2 years: +0 %: 15 mins: Winter	130.369	128.733	128.828	0.095	36.0	0.168	0.000	34.5	17.074	OK
34	Sim Criteria FSR: 2 years: +0 %: 15 mins: Winter	129.276	127.644	127.761	0.117	43.3	0.208	0.000	41.1	21.112	OK

225-205 : HARESHILL ROAD NORTH SOUTH HEYWOOD				Date: 11/11/2025							
				Designed by:	Checked by:	Approved By:					
Report Details: Type: Junctions Summary Storm Phase: 224-162 S.W NETWORK REV				JPR	JCM	JCM					
				AJP : 1 DALE STREET L2 2ET							

33	Sim Criteria FSR: 2 years: +0 %: 15 mins: Winter	129.120	127.435	127.565	0.130	58.0	0.186	0.000	57.0	28.942	OK
32	Sim Criteria FSR: 2 years: +0 %: 15 mins: Winter	129.002	127.127	127.286	0.159	77.7	0.406	0.000	74.7	38.549	OK
31	Sim Criteria FSR: 2 years: +0 %: 15 mins: Winter	128.492	126.640	126.811	0.171	98.5	0.591	0.000	90.5	49.747	OK
39	Sim Criteria FSR: 2 years: +0 %: 15 mins: Winter	129.277	127.232	127.306	0.074	16.3	0.130	0.000	15.7	7.557	OK
30	Sim Criteria FSR: 2 years: +0 %: 15 mins: Winter	127.894	126.044	126.213	0.169	114.0	0.586	0.000	106.4	60.508	OK
29	Sim Criteria FSR: 2 years: +0 %: 15 mins: Winter	127.723	125.541	125.860	0.319	261.4	1.105	0.000	238.4	148.417	OK
48	Sim Criteria FSR: 2 years: +0 %: 15 mins: Winter	131.696	130.000	130.102	0.102	20.3	0.146	0.000	19.7	9.396	OK
47	Sim Criteria FSR: 2 years: +0 %: 15 mins: Winter	131.535	129.792	129.881	0.089	19.7	0.128	0.000	19.0	9.385	OK
46	Sim Criteria FSR: 2 years: +0 %: 15 mins: Winter	131.374	129.558	129.680	0.122	36.5	0.215	0.000	34.9	17.530	OK
45	Sim Criteria FSR: 2 years: +0 %: 15 mins: Winter	130.983	129.169	129.278	0.109	34.9	0.193	0.000	32.9	17.488	OK
44	Sim Criteria FSR: 2 years: +0 %: 15 mins: Winter	130.808	128.898	129.045	0.147	55.6	0.374	0.000	53.3	27.969	OK
43	Sim Criteria FSR: 2 years: +0 %: 15 mins: Winter	130.902	128.702	128.873	0.171	88.7	0.436	0.000	83.9	44.571	OK
49	Sim Criteria FSR: 2 years: +0 %: 15 mins: Winter	131.298	129.155	129.228	0.073	15.7	0.187	0.000	15.1	7.251	OK
42	Sim Criteria FSR: 2 years: +0 %: 15 mins: Winter	129.915	128.262	128.451	0.189	95.5	0.655	0.000	87.5	49.855	OK
41	Sim Criteria FSR: 2 years: +0 %: 15 mins: Winter	130.136	127.874	128.081	0.207	110.5	0.717	0.000	100.4	60.323	OK
40	Sim Criteria FSR: 2 years: +0 %: 15 mins: Winter	129.691	127.588	127.717	0.129	114.0	0.448	0.000	107.8	66.457	OK
28	Sim Criteria FSR: 2 years: +0 %: 15 mins: Winter	127.836	125.396	125.635	0.239	240.5	0.829	0.000	227.8	149.173	OK
55	Sim Criteria FSR: 2 years: +0 %: 15 mins: Winter	130.404	128.700	128.745	0.045	10.3	0.064	0.000	10.1	4.793	OK
54	Sim Criteria FSR: 2 years: +0 %: 15 mins: Winter	129.169	127.517	127.601	0.084	16.5	0.120	0.000	15.5	7.710	OK
53	Sim Criteria FSR: 2 years: +0 %: 15 mins: Winter	128.770	127.238	127.360	0.122	44.6	0.174	0.000	42.6	21.143	OK
52	Sim Criteria FSR: 2 years: +0 %: 15 mins: Winter	128.545	125.268	125.472	0.204	91.3	0.520	0.000	86.1	44.520	OK
58	Sim Criteria FSR: 2 years: +0 %: 15 mins: Winter	130.790	129.000	129.061	0.061	16.7	0.087	0.000	16.5	7.749	OK
57	Sim Criteria FSR: 2 years: +0 %: 15 mins: Winter	129.910	128.265	128.341	0.076	23.1	0.108	0.000	22.6	10.837	OK

225-205 : HARESHILL ROAD NORTH SOUTH HEYWOOD				Date: 11/11/2025							
				Designed by:	Checked by:	Approved By:					
Report Details: Type: Junctions Summary Storm Phase: 224-162 S.W NETWORK REV				JPR	JCM	JCM					
				AJP : 1 DALE STREET L2 2ET							

56	Sim Criteria FSR: 2 years: +0 %: 15 mins: Winter	129.423	127.810	127.895	0.085	30.0	0.121	0.000	29.0	14.252	OK
51	Sim Criteria FSR: 2 years: +0 %: 15 mins: Winter	128.187	123.528	123.752	0.224	105.6	0.570	0.000	102.0	53.521	OK
50	Sim Criteria FSR: 2 years: +0 %: 30 mins: Winter	128.036	122.857	123.165	0.308	86.8	1.394	0.000	85.1	80.156	OK
20	Sim Criteria FSR: 2 years: +0 %: 15 mins: Winter	126.414	122.655	123.101	0.446	346.7	2.020	0.000	313.6	241.005	OK
8	Sim Criteria FSR: 2 years: +0 %: 15 mins: Winter	125.136	122.501	122.990	0.489	404.8	2.213	0.000	417.1	297.190	OK
7	Sim Criteria FSR: 2 years: +0 %: 15 mins: Winter	124.620	122.407	122.912	0.505	424.8	2.283	0.000	432.9	309.080	OK
6	Sim Criteria FSR: 2 years: +0 %: 15 mins: Winter	124.466	122.377	122.849	0.472	432.9	2.135	0.000	439.7	307.847	OK
5	Sim Criteria FSR: 2 years: +0 %: 15 mins: Winter	124.093	122.288	122.735	0.447	569.3	2.558	0.000	579.9	422.540	OK
66	Sim Criteria FSR: 2 years: +0 %: 15 mins: Winter	131.945	130.600	130.693	0.093	23.8	0.134	0.000	22.6	10.995	OK
65	Sim Criteria FSR: 2 years: +0 %: 15 mins: Winter	131.596	129.965	130.079	0.114	37.9	0.201	0.000	37.3	18.106	OK
64	Sim Criteria FSR: 2 years: +0 %: 15 mins: Winter	131.434	129.737	129.859	0.122	49.8	0.215	0.000	47.2	23.884	OK
63	Sim Criteria FSR: 2 years: +0 %: 15 mins: Winter	130.666	128.555	128.674	0.119	72.0	0.210	0.000	68.4	35.343	OK
62	Sim Criteria FSR: 2 years: +0 %: 15 mins: Winter	129.300	126.665	126.780	0.115	80.7	0.292	0.000	75.3	40.981	OK
61	Sim Criteria FSR: 2 years: +0 %: 15 mins: Winter	126.697	122.504	122.772	0.268	158.6	1.212	0.000	146.6	91.317	OK
74	Sim Criteria FSR: 2 years: +0 %: 15 mins: Winter	130.566	129.000	129.046	0.046	5.5	0.065	0.000	5.3	2.550	OK
73	Sim Criteria FSR: 2 years: +0 %: 15 mins: Winter	130.270	128.660	128.740	0.080	16.4	0.115	0.000	14.9	7.698	OK
72	Sim Criteria FSR: 2 years: +0 %: 15 mins: Winter	129.872	128.128	128.250	0.122	35.3	0.216	0.000	34.3	17.087	OK
71	Sim Criteria FSR: 2 years: +0 %: 15 mins: Winter	129.662	127.884	127.984	0.100	45.2	0.176	0.000	44.0	22.125	OK
70	Sim Criteria FSR: 2 years: +0 %: 15 mins: Winter	129.207	127.196	127.282	0.086	53.3	0.152	0.000	50.7	26.409	OK
69	Sim Criteria FSR: 2 years: +0 %: 15 mins: Winter	127.796	122.616	122.811	0.195	68.6	0.676	0.000	65.3	34.704	OK
68	Sim Criteria FSR: 2 years: +0 %: 15 mins: Winter	127.522	122.588	122.796	0.208	67.8	0.722	0.000	60.3	35.824	OK
67	Sim Criteria FSR: 2 years: +0 %: 15 mins: Winter	127.097	122.546	122.780	0.234	86.6	0.809	0.000	78.0	47.936	OK
60	Sim Criteria FSR: 2 years: +0 %: 15 mins: Winter	125.750	122.428	122.755	0.327	165.3	1.481	0.000	148.6	99.722	OK

225-205 : HARESHILL ROAD NORTH SOUTH HEYWOOD			Date: 11/11/2025								
			Designed by:	Checked by:	Approved By:						
			JPR	JCM	JCM						
Report Details: Type: Junctions Summary Storm Phase: 224-162 S.W NETWORK REV			AJP : 1 DALE STREET L2 2ET								
59	Sim Criteria FSR: 2 years: +0 %: 15 mins: Winter	125.4 00	122.3 90	122.74 7	0.357	148.6	1.614	0.000	120.5	99.282	OK
2	Sim Criteria FSR: 2 years: +0 %: 360 mins: Winter	124.4 72	122.1 99	122.57 1	0.372	58.6	1.682	0.000	58.6	1033.244	OK
1	Sim Criteria FSR: 2 years: +0 %: 360 mins: Winter	124.2 90	121.1 30	121.20 2	0.072	58.6	0.000	0.000	58.6	1033.209	OK
S24	Sim Criteria FSR: 2 years: +0 %: 30 mins: Winter	131.2 50	129.5 99	130.79 7	1.198	21.3	1.714	0.000	21.3	10.347	Surcharged

225-205 : HARESHILL ROAD NORTH SOUTH HEYWOOD	Date: 11/11/2025			
	Designed by:	Checked by:	Approved By:	
Report Details: Type: Junctions Summary Storm Phase: 224-162 S.W NETWORK REV	JPR	JCM	JCM	
AJP : 1 DALE STREET L2 2ET				



Sim Criteria FSR: 30 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Depth

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
18	Sim Criteria FSR: 30 years: +0 %: 15 mins: Winter	124.860	123.060	123.396	0.336	36.9	1.165	0.000	35.6	17.107	OK
17	Sim Criteria FSR: 30 years: +0 %: 15 mins: Winter	125.057	123.012	123.396	0.384	39.5	1.331	0.000	29.8	20.569	OK
16	Sim Criteria FSR: 30 years: +0 %: 15 mins: Winter	125.219	122.971	123.396	0.425	55.0	1.471	0.000	55.0	36.887	OK
15	Sim Criteria FSR: 30 years: +0 %: 15 mins: Winter	125.041	122.855	123.384	0.529	62.5	1.834	0.000	68.0	54.817	OK
14	Sim Criteria FSR: 30 years: +0 %: 15 mins: Winter	124.903	122.820	123.380	0.560	69.1	1.941	0.000	78.7	61.399	OK
13	Sim Criteria FSR: 30 years: +0 %: 15 mins: Winter	124.800	122.795	123.378	0.583	78.7	2.018	0.000	90.4	69.204	OK
12	Sim Criteria FSR: 30 years: +0 %: 15 mins: Winter	124.639	122.769	123.375	0.606	90.4	2.098	0.000	105.7	79.784	OK
11	Sim Criteria FSR: 30 years: +0 %: 15 mins: Winter	124.911	122.724	123.370	0.646	105.8	2.238	0.000	128.5	96.156	OK
10	Sim Criteria FSR: 30 years: +0 %: 15 mins: Winter	125.253	122.658	123.364	0.706	128.5	2.446	0.000	157.1	116.508	OK
9	Sim Criteria FSR: 30 years: +0 %: 15 mins: Winter	125.555	122.583	123.357	0.774	745.6	3.500	0.000	762.7	582.191	OK
27	Sim Criteria FSR: 30 years: +0 %: 15 mins: Winter	131.867	130.250	130.975	0.725	17.5	1.037	0.000	15.7	7.161	Surcharged
26	Sim Criteria FSR: 30 years: +0 %: 15 mins: Winter	131.678	130.088	130.971	0.883	39.8	1.561	0.000	38.1	16.064	Surcharged
25	Sim Criteria FSR: 30 years: +0 %: 15 mins: Winter	131.387	129.817	130.927	1.110	58.7	1.962	0.000	56.8	21.990	Surcharged
22	Sim Criteria FSR: 30 years: +0 %: 30 mins: Winter	127.650	125.012	125.199	0.187	78.7	0.330	0.000	78.6	62.929	OK
21	Sim Criteria FSR: 30 years: +0 %: 15 mins: Winter	127.589	122.734	123.444	0.710	708.4	3.211	0.000	658.8	451.987	OK
38	Sim Criteria FSR: 30 years: +0 %: 15 mins: Winter	131.008	129.450	129.542	0.092	22.1	0.132	0.000	21.7	10.210	OK
37	Sim Criteria FSR: 30 years: +0 %: 15 mins: Winter	130.836	129.272	129.362	0.090	21.7	0.129	0.000	21.2	10.205	OK
36	Sim Criteria FSR: 30 years: +0 %: 15 mins: Winter	130.633	129.069	129.182	0.113	37.0	0.161	0.000	36.2	17.473	OK
35	Sim Criteria FSR: 30 years: +0 %: 15 mins: Winter	130.369	128.733	128.869	0.136	68.2	0.240	0.000	65.9	32.296	OK
34	Sim Criteria FSR: 30 years: +0 %: 15 mins: Winter	129.276	127.644	127.827	0.183	82.6	0.323	0.000	78.2	39.959	OK

225-205 : HARESHILL ROAD NORTH SOUTH HEYWOOD				Date: 11/11/2025							
				Designed by:	Checked by:	Approved By:					
Report Details: Type: Junctions Summary Storm Phase: 224-162 S.W NETWORK REV				JPR	JCM	JCM					
				AJP : 1 DALE STREET L2 2ET							

33	Sim Criteria FSR: 30 years: +0 %: 15 mins: Winter	129.1 20	127.4 35	127.64 1	0.206	110.3	0.295	0.000	108.2	54.773	OK
32	Sim Criteria FSR: 30 years: +0 %: 15 mins: Winter	129.0 02	127.1 27	127.37 0	0.243	147.5	0.618	0.000	142.2	72.949	OK
31	Sim Criteria FSR: 30 years: +0 %: 15 mins: Winter	128.4 92	126.6 40	126.89 5	0.255	187.6	0.882	0.000	175.4	94.160	OK
39	Sim Criteria FSR: 30 years: +0 %: 15 mins: Winter	129.2 77	127.2 32	127.33 7	0.105	30.8	0.186	0.000	30.0	14.278	OK
30	Sim Criteria FSR: 30 years: +0 %: 15 mins: Winter	127.8 94	126.0 44	126.29 3	0.249	219.8	0.862	0.000	207.9	114.685	OK
29	Sim Criteria FSR: 30 years: +0 %: 15 mins: Winter	127.7 23	125.5 41	126.12 4	0.583	512.8	2.020	0.000	459.7	281.602	Surcharged
48	Sim Criteria FSR: 30 years: +0 %: 15 mins: Winter	131.6 96	130.0 00	130.15 4	0.154	38.4	0.221	0.000	37.4	17.760	OK
47	Sim Criteria FSR: 30 years: +0 %: 15 mins: Winter	131.5 35	129.7 92	129.93 0	0.138	37.4	0.197	0.000	35.9	17.747	OK
46	Sim Criteria FSR: 30 years: +0 %: 15 mins: Winter	131.3 74	129.5 58	129.73 7	0.179	69.2	0.317	0.000	66.3	33.135	OK
45	Sim Criteria FSR: 30 years: +0 %: 15 mins: Winter	130.9 83	129.1 69	129.33 7	0.168	66.3	0.297	0.000	63.1	33.086	OK
44	Sim Criteria FSR: 30 years: +0 %: 15 mins: Winter	130.8 08	128.8 98	129.12 3	0.225	106.0	0.574	0.000	102.1	52.917	OK
43	Sim Criteria FSR: 30 years: +0 %: 15 mins: Winter	130.9 02	128.7 02	128.97 1	0.269	169.2	0.686	0.000	160.9	84.333	OK
49	Sim Criteria FSR: 30 years: +0 %: 15 mins: Winter	131.2 98	129.1 55	129.26 0	0.105	29.6	0.267	0.000	28.8	13.703	OK
42	Sim Criteria FSR: 30 years: +0 %: 15 mins: Winter	129.9 15	128.2 62	128.55 2	0.290	183.0	1.003	0.000	170.3	94.419	OK
41	Sim Criteria FSR: 30 years: +0 %: 15 mins: Winter	130.1 36	127.8 74	128.18 5	0.311	213.8	1.076	0.000	197.7	114.365	OK
40	Sim Criteria FSR: 30 years: +0 %: 15 mins: Winter	129.6 91	127.5 88	127.77 3	0.185	223.4	0.641	0.000	215.7	126.023	OK
28	Sim Criteria FSR: 30 years: +0 %: 15 mins: Winter	127.8 36	125.3 96	125.77 0	0.374	463.7	1.297	0.000	448.6	283.213	OK
55	Sim Criteria FSR: 30 years: +0 %: 15 mins: Winter	130.4 04	128.7 00	128.76 2	0.062	19.6	0.089	0.000	19.3	9.059	OK
54	Sim Criteria FSR: 30 years: +0 %: 15 mins: Winter	129.1 69	127.5 17	127.64 1	0.124	31.2	0.177	0.000	29.6	14.570	OK
53	Sim Criteria FSR: 30 years: +0 %: 15 mins: Winter	128.7 70	127.2 38	127.42 0	0.182	84.5	0.260	0.000	81.1	39.962	OK
52	Sim Criteria FSR: 30 years: +0 %: 15 mins: Winter	128.5 45	125.2 68	125.60 3	0.335	173.7	0.852	0.000	162.1	84.158	OK
58	Sim Criteria FSR: 30 years: +0 %: 15 mins: Winter	130.7 90	129.0 00	129.08 7	0.087	31.7	0.124	0.000	31.2	14.634	OK
57	Sim Criteria FSR: 30 years: +0 %: 15 mins: Winter	129.9 10	128.2 65	128.37 6	0.111	43.9	0.159	0.000	43.0	20.474	OK

225-205 : HARESHILL ROAD NORTH SOUTH HEYWOOD				Date: 11/11/2025							
				Designed by:	Checked by:	Approved By:					
Report Details: Type: Junctions Summary Storm Phase: 224-162 S.W NETWORK REV				JPR	JCM	JCM					
				AJP : 1 DALE STREET L2 2ET							

56	Sim Criteria FSR: 30 years: +0 %: 15 mins: Winter	129.4 23	127.8 10	127.93 4	0.124	57.0	0.178	0.000	55.2	26.930	OK
51	Sim Criteria FSR: 30 years: +0 %: 15 mins: Winter	128.1 87	123.5 28	123.93 6	0.408	199.0	1.038	0.000	188.8	101.184	Surcharged
50	Sim Criteria FSR: 30 years: +0 %: 15 mins: Winter	128.0 36	122.8 57	123.44 8	0.591	220.2	2.675	0.000	184.6	115.761	OK
20	Sim Criteria FSR: 30 years: +0 %: 15 mins: Winter	126.4 14	122.6 55	123.40 1	0.746	692.7	3.376	0.000	645.9	466.874	OK
8	Sim Criteria FSR: 30 years: +0 %: 15 mins: Winter	125.1 36	122.5 01	123.26 6	0.765	767.6	3.459	0.000	776.6	574.200	OK
7	Sim Criteria FSR: 30 years: +0 %: 15 mins: Winter	124.6 20	122.4 07	123.16 0	0.753	791.1	3.408	0.000	797.0	595.998	OK
6	Sim Criteria FSR: 30 years: +0 %: 15 mins: Winter	124.4 66	122.3 77	123.07 3	0.696	797.0	3.150	0.000	802.7	592.479	OK
5	Sim Criteria FSR: 30 years: +0 %: 15 mins: Winter	124.0 93	122.2 88	122.92 1	0.633	1037.2	3.623	0.000	1100.4	801.815	OK
66	Sim Criteria FSR: 30 years: +0 %: 15 mins: Winter	131.9 45	130.6 00	130.73 9	0.139	45.0	0.199	0.000	42.8	20.797	OK
65	Sim Criteria FSR: 30 years: +0 %: 15 mins: Winter	131.5 96	129.9 65	130.13 6	0.171	71.9	0.303	0.000	70.7	34.216	OK
64	Sim Criteria FSR: 30 years: +0 %: 15 mins: Winter	131.4 34	129.7 37	129.91 7	0.180	94.4	0.319	0.000	89.9	45.149	OK
63	Sim Criteria FSR: 30 years: +0 %: 15 mins: Winter	130.6 66	128.5 55	128.73 1	0.176	136.7	0.312	0.000	130.6	66.803	OK
62	Sim Criteria FSR: 30 years: +0 %: 15 mins: Winter	129.3 00	126.6 65	126.83 1	0.166	153.9	0.422	0.000	145.2	77.521	OK
61	Sim Criteria FSR: 30 years: +0 %: 30 mins: Winter	126.6 97	122.5 04	122.95 8	0.454	237.4	2.053	0.000	232.0	226.125	OK
74	Sim Criteria FSR: 30 years: +0 %: 15 mins: Winter	130.5 66	129.0 00	129.06 3	0.063	10.4	0.090	0.000	10.1	4.824	OK
73	Sim Criteria FSR: 30 years: +0 %: 15 mins: Winter	130.2 70	128.6 60	128.77 7	0.117	31.2	0.168	0.000	28.7	14.576	OK
72	Sim Criteria FSR: 30 years: +0 %: 15 mins: Winter	129.8 72	128.1 28	128.30 8	0.180	67.1	0.319	0.000	65.5	32.322	OK
71	Sim Criteria FSR: 30 years: +0 %: 15 mins: Winter	129.6 62	127.8 84	128.02 9	0.145	86.1	0.257	0.000	84.1	41.849	OK
70	Sim Criteria FSR: 30 years: +0 %: 15 mins: Winter	129.2 07	127.1 96	127.31 9	0.123	101.7	0.218	0.000	97.5	49.954	OK
69	Sim Criteria FSR: 30 years: +0 %: 30 mins: Winter	127.7 96	122.6 16	122.97 5	0.359	93.7	1.245	0.000	91.9	86.551	OK
68	Sim Criteria FSR: 30 years: +0 %: 30 mins: Winter	127.5 22	122.5 88	122.97 0	0.382	95.1	1.322	0.000	91.5	89.506	OK
67	Sim Criteria FSR: 30 years: +0 %: 30 mins: Winter	127.0 97	122.5 46	122.96 4	0.418	124.3	1.450	0.000	120.0	119.398	OK
60	Sim Criteria FSR: 30 years: +0 %: 15 mins: Winter	125.7 50	122.4 28	122.93 3	0.505	307.4	2.284	0.000	275.4	186.225	OK

225-205 :

HARESHILL ROAD NORTH

SOUTH HEYWOOD

Date:

11/11/2025

Designed by:

JPR

Checked by:

JCM

Approved By:

JCM

Report Details:

Type: Junctions Summary

Storm Phase: 224-162 S.W NETWORK REV

AJP :

1 DALE STREET

L2 2ET

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DRN

59	Sim Criteria FSR: 30 years: +0 %: 15 mins: Winter	125.400	122.390	122.926	0.536	275.4	2.423	0.000	233.2	182.584	OK
2	Sim Criteria FSR: 30 years: +0 %: 240 mins: Winter	124.472	122.199	122.805	0.606	96.9	2.741	0.000	96.9	1607.254	Surcharged
1	Sim Criteria FSR: 30 years: +0 %: 240 mins: Winter	124.290	121.130	121.223	0.093	96.9	0.000	0.000	96.9	1607.175	OK
S24	Sim Criteria FSR: 30 years: +0 %: 15 mins: Winter	131.250	129.599	130.882	1.283	56.8	1.836	0.000	56.0	19.287	Surcharged

225-205 : HARESHILL ROAD NORTH SOUTH HEYWOOD	Date: 11/11/2025			
	Designed by:	Checked by:	Approved By:	
Report Details: Type: Junctions Summary Storm Phase: 224-162 S.W NETWORK REV	JPR	JCM	JCM	
AJP : 1 DALE STREET L2 2ET				



Sim Criteria FSR: 100 years: Increase Rainfall (%): +45: Critical Storm Per Item: Rank By: Max. Depth

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
18	Sim Criteria FSR: 100 years: +45 %: 30 mins: Winter	124.860	123.060	124.283	1.223	46.1	4.238	0.000	37.7	42.998	Surcharged
17	Sim Criteria FSR: 100 years: +45 %: 30 mins: Winter	125.057	123.012	124.283	1.271	39.4	4.402	0.000	66.0	55.604	Surcharged
16	Sim Criteria FSR: 100 years: +45 %: 30 mins: Winter	125.219	122.971	124.280	1.309	77.1	4.536	0.000	99.3	102.987	Surcharged
15	Sim Criteria FSR: 100 years: +45 %: 30 mins: Winter	125.041	122.855	124.275	1.420	111.6	4.920	0.000	131.7	152.128	Surcharged
14	Sim Criteria FSR: 100 years: +45 %: 30 mins: Winter	124.903	122.820	124.273	1.453	133.4	5.035	0.000	145.4	170.497	Surcharged
13	Sim Criteria FSR: 100 years: +45 %: 30 mins: Winter	124.800	122.795	124.272	1.477	148.4	5.117	0.000	159.0	189.382	Surcharged
12	Sim Criteria FSR: 100 years: +45 %: 30 mins: Winter	124.639	122.769	124.271	1.502	165.2	5.202	0.000	176.0	212.914	Surcharged
11	Sim Criteria FSR: 100 years: +45 %: 30 mins: Winter	124.911	122.724	124.268	1.544	188.8	5.347	0.000	200.9	247.801	Surcharged
10	Sim Criteria FSR: 100 years: +45 %: 30 mins: Winter	125.253	122.658	124.262	1.604	220.8	5.555	0.000	236.3	289.576	Surcharged
9	Sim Criteria FSR: 100 years: +45 %: 30 mins: Winter	125.555	122.583	124.252	1.669	1382.4	7.549	0.000	1373.7	1455.406	Surcharged
27	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	131.867	130.250	131.360	1.110	32.9	1.589	0.000	29.0	14.246	Surcharged
26	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	131.678	130.088	131.344	1.256	74.2	2.219	0.000	69.5	32.942	Surcharged
25	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	131.387	129.817	131.216	1.399	108.0	2.471	0.000	104.4	47.222	Surcharged
22	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	127.650	125.012	125.286	0.274	144.6	0.483	0.000	135.7	91.448	OK
21	Sim Criteria FSR: 100 years: +45 %: 30 mins: Winter	127.589	122.734	124.636	1.902	1181.3	8.605	0.000	1171.0	1141.407	Surcharged
38	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	131.008	129.450	129.590	0.140	41.4	0.200	0.000	40.7	19.108	OK
37	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	130.836	129.272	129.414	0.142	40.7	0.203	0.000	39.6	19.105	OK
36	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	130.633	129.069	129.255	0.186	69.1	0.266	0.000	65.5	32.697	OK
35	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	130.369	128.733	129.063	0.330	125.6	0.583	0.000	94.7	60.183	Surcharged
34	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	129.276	127.644	128.713	1.069	120.9	1.889	0.000	115.2	74.874	Surcharged

225-205 : HARESHILL ROAD NORTH SOUTH HEYWOOD				Date: 11/11/2025							
				Designed by:	Checked by:	Approved By:					
Report Details: Type: Junctions Summary Storm Phase: 224-162 S.W NETWORK REV				JPR	JCM	JCM					
				AJP : 1 DALE STREET L2 2ET							

33	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	129.1 20	127.4 35	128.58 6	1.151	162.9	1.647	0.000	147.4	102.622	Surcharged
32	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	129.0 02	127.1 27	128.29 5	1.168	221.0	2.973	0.000	190.8	136.438	Surcharged
31	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	128.4 92	126.6 40	127.85 1	1.211	254.0	4.196	0.000	239.0	176.444	Surcharged
39	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	129.2 77	127.2 32	128.03 7	0.805	57.8	1.422	0.000	34.3	26.627	Surcharged
30	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	127.8 94	126.0 44	127.52 9	1.485	296.8	5.143	0.000	289.8	215.209	Surcharged
29	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	127.7 23	125.5 41	127.17 0	1.629	781.9	5.643	0.000	760.3	528.562	Surcharged
48	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	131.6 96	130.0 00	130.59 8	0.598	72.0	0.856	0.000	59.3	33.187	Surcharged
47	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	131.5 35	129.7 92	130.27 8	0.486	59.3	0.695	0.000	47.6	33.245	Surcharged
46	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	131.3 74	129.5 58	130.11 4	0.556	109.9	0.982	0.000	94.6	61.972	Surcharged
45	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	130.9 83	129.1 69	129.78 7	0.618	94.6	1.093	0.000	101.0	62.061	Surcharged
44	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	130.8 08	128.8 98	129.64 9	0.751	161.9	1.910	0.000	143.7	99.223	Surcharged
43	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	130.9 02	128.7 02	129.50 2	0.800	253.7	2.035	0.000	236.6	157.991	Surcharged
49	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	131.2 98	129.1 55	129.68 5	0.530	55.5	1.349	0.000	38.1	25.612	Surcharged
42	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	129.9 15	128.2 62	128.87 2	0.610	277.9	2.112	0.000	263.1	177.093	Surcharged
41	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	130.1 36	127.8 74	128.42 0	0.546	344.7	1.891	0.000	323.7	214.493	Surcharged
40	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	129.6 91	127.5 88	127.84 9	0.261	371.9	0.903	0.000	354.3	236.510	OK
28	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	127.8 36	125.3 96	126.34 1	0.945	767.8	3.274	0.000	753.3	531.807	Surcharged
55	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	130.4 04	128.7 00	128.78 6	0.086	36.7	0.123	0.000	36.6	16.948	OK
54	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	129.1 69	127.5 17	127.79 1	0.274	59.0	0.392	0.000	44.9	27.299	Surcharged
53	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	128.7 70	127.2 38	127.64 3	0.405	147.8	0.580	0.000	139.1	74.851	Surcharged
52	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	128.5 45	125.2 68	126.32 3	1.055	309.6	2.685	0.000	300.8	157.623	Surcharged
58	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	130.7 90	129.0 00	129.12 8	0.128	59.4	0.183	0.000	58.6	27.449	OK
57	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	129.9 10	128.2 65	128.44 5	0.180	82.3	0.258	0.000	80.1	38.372	OK

225-205 : HARESHILL ROAD NORTH SOUTH HEYWOOD				Date: 11/11/2025							
				Designed by:	Checked by:	Approved By:					
Report Details: Type: Junctions Summary Storm Phase: 224-162 S.W NETWORK REV				JPR	JCM	JCM					
				AJP : 1 DALE STREET L2 2ET							

56	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	129.4 23	127.8 10	128.02 4	0.214	106.3	0.306	0.000	100.4	50.485	OK
51	Sim Criteria FSR: 100 years: +45 %: 30 mins: Winter	128.1 87	123.5 28	125.07 6	1.548	273.3	3.940	0.000	269.2	251.384	Surcharged
50	Sim Criteria FSR: 100 years: +45 %: 30 mins: Winter	128.0 36	122.8 57	124.65 0	1.793	308.4	8.111	0.000	298.8	287.817	Surcharged
20	Sim Criteria FSR: 100 years: +45 %: 30 mins: Winter	126.4 14	122.6 55	124.44 5	1.790	1213.4	8.097	0.000	1204.7	1174.449	Surcharged
8	Sim Criteria FSR: 100 years: +45 %: 30 mins: Winter	125.1 36	122.5 01	123.97 4	1.473	1396.1	6.666	0.000	1386.7	1431.049	Surcharged
7	Sim Criteria FSR: 100 years: +45 %: 30 mins: Winter	124.6 20	122.4 07	123.67 3	1.266	1453.5	5.729	0.000	1454.4	1480.994	Surcharged
6	Sim Criteria FSR: 100 years: +45 %: 30 mins: Winter	124.4 66	122.3 77	123.48 6	1.109	1454.4	5.019	0.000	1439.4	1468.131	Surcharged
5	Sim Criteria FSR: 100 years: +45 %: 240 mins: Winter	124.0 93	122.2 88	123.29 3	1.005	637.6	5.755	0.000	630.9	3818.269	Surcharged
66	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	131.9 45	130.6 00	131.07 0	0.470	84.3	0.672	0.000	72.6	38.584	Surcharged
65	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	131.5 96	129.9 65	130.35 0	0.385	127.0	0.680	0.000	115.0	63.916	Surcharged
64	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	131.4 34	129.7 37	130.14 1	0.404	159.4	0.713	0.000	144.0	84.452	Surcharged
63	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	130.6 66	128.5 55	128.90 8	0.353	231.9	0.623	0.000	214.5	125.050	Surcharged
62	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	129.3 00	126.6 65	126.90 0	0.235	258.2	0.598	0.000	253.8	145.147	OK
61	Sim Criteria FSR: 100 years: +45 %: 240 mins: Winter	126.6 97	122.5 04	123.29 3	0.789	134.3	3.570	0.000	130.6	791.853	OK
74	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	130.5 66	129.0 00	129.08 8	0.088	19.5	0.125	0.000	19.0	9.031	OK
73	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	130.2 70	128.6 60	128.85 0	0.190	58.6	0.272	0.000	54.8	27.345	OK
72	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	129.8 72	128.1 28	128.46 4	0.336	126.8	0.594	0.000	116.6	60.529	Surcharged
71	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	129.6 62	127.8 84	128.10 2	0.218	155.3	0.384	0.000	151.6	78.386	OK
70	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	129.2 07	127.1 96	127.37 6	0.180	184.6	0.317	0.000	180.1	93.593	OK
69	Sim Criteria FSR: 100 years: +45 %: 240 mins: Winter	127.7 96	122.6 16	123.29 3	0.677	53.3	2.346	0.000	52.1	304.269	OK
68	Sim Criteria FSR: 100 years: +45 %: 240 mins: Winter	127.5 22	122.5 88	123.29 3	0.705	53.9	2.443	0.000	51.7	312.047	OK
67	Sim Criteria FSR: 100 years: +45 %: 240 mins: Winter	127.0 97	122.5 46	123.29 3	0.747	70.3	2.588	0.000	67.6	415.213	OK
60	Sim Criteria FSR: 100 years: +45 %: 240 mins: Winter	125.7 50	122.4 28	123.29 3	0.865	143.9	3.914	0.000	140.5	860.711	OK

225-205 : HARESHILL ROAD NORTH SOUTH HEYWOOD			Date: 11/11/2025								
			Designed by:	Checked by:	Approved By:						
			JPR	JCM	JCM						
Report Details: Type: Junctions Summary Storm Phase: 224-162 S.W NETWORK REV			AJP : 1 DALE STREET L2 2ET								
59	Sim Criteria FSR: 100 years: +45 %: 240 mins: Winter	125.4 00	122.3 90	123.29 3	0.903	140.5	4.086	0.000	136.1	850.160	Surcharged
2	Sim Criteria FSR: 100 years: +45 %: 240 mins: Winter	124.4 72	122.1 99	123.29 1	1.092	106.5	4.941	0.000	106.3	2455.486	Surcharged
1	Sim Criteria FSR: 100 years: +45 %: 240 mins: Winter	124.2 90	121.1 30	121.22 7	0.097	106.3	0.000	0.000	106.3	2455.286	OK
S24	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	131.2 50	129.5 99	131.07 3	1.474	104.4	2.109	0.000	102.5	44.471	Surcharged

225-205 : HARESHILL ROAD NORTH SOUTH HEYWOOD		Date: 11/11/2025			
		Designed by: JPR	Checked by: JCM		Approved By: JCM
Report Details: Type: Stormwater Controls Summary Storm Phase: 224-162 S.W NETWORK REV		AJP : 1 DALE STREET L2 2ET			



Sim Criteria FSR: 1 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank
By: Max. Avg. Depth

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Residant Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Velocity (m/s)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Percentage Available (%)
Dry Swale	Sim Criteria FSR: 1 years: +0 %: 60 mins: Summer	130.774	126.606	1.254	0.070	11.6	3.464	0.000	0.000	0.0	10.9	7.804	98.175
Pond	Sim Criteria FSR: 1 years: +0 %: 360 mins: Winter	122.525	122.525	0.273	0.273	116.9	615.085	0.000	0.000		45.7	822.958	76.859

225-205 : HARESHILL ROAD NORTH SOUTH HEYWOOD	Date: 11/11/2025			
	Designed by: JPR	Checked by: JCM	Approved By: JCM	
Report Details: Type: Stormwater Controls Summary Storm Phase: 224-162 S.W NETWORK REV	AJP : 1 DALE STREET L2 2ET			

Status
OK
OK

225-205 : HARESHILL ROAD NORTH SOUTH HEYWOOD		Date: 11/11/2025			
		Designed by: JPR	Checked by: JCM		Approved By: JCM
Report Details: Type: Stormwater Controls Summary Storm Phase: 224-162 S.W NETWORK REV		AJP : 1 DALE STREET L2 2ET			



Sim Criteria FSR: 2 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank
By: Max. Avg. Depth

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Residant Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Velocity (m/s)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Percentage Available (%)
Dry Swale	Sim Criteria FSR: 2 years: +0 %: 30 mins: Winter	130.785	126.622	1.265	0.086	21.3	4.277	0.000	0.000	0.6	16.0	9.984	97.748
Pond	Sim Criteria FSR: 2 years: +0 %: 360 mins: Winter	122.573	122.573	0.321	0.321	142.5	730.348	0.000	0.000		58.6	1034.098	72.522

225-205 : HARESHILL ROAD NORTH SOUTH HEYWOOD	Date: 11/11/2025			
	Designed by: JPR	Checked by: JCM	Approved By: JCM	
Report Details: Type: Stormwater Controls Summary Storm Phase: 224-162 S.W NETWORK REV	AJP : 1 DALE STREET L2 2ET			

Status
OK
OK

225-205 : HARESHILL ROAD NORTH SOUTH HEYWOOD		Date: 11/11/2025			
		Designed by: JPR	Checked by: JCM		Approved By: JCM
Report Details: Type: Stormwater Controls Summary Storm Phase: 224-162 S.W NETWORK REV		AJP : 1 DALE STREET L2 2ET			



Sim Criteria FSR: 30 years: Increase Rainfall (%): +0: Critical Storm Per Item:
Rank By: Max. Avg. Depth

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Residual Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Velocity (m/s)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Percentage Available (%)
Dry Swale	Sim Criteria FSR: 30 years: +0 %: 30 mins: Winter	130.795	126.682	1.275	0.146	41.0	8.709	0.000	0.000	0.7	40.8	27.965	95.413
Pond	Sim Criteria FSR: 30 years: +0 %: 240 mins: Winter	122.806	122.806	0.554	0.554	344.1	1305.192	0.000	0.000		96.9	1608.851	50.895

225-205 : HARESHILL ROAD NORTH SOUTH HEYWOOD	Date: 11/11/2025			
	Designed by: JPR	Checked by: JCM	Approved By: JCM	
Report Details: Type: Stormwater Controls Summary Storm Phase: 224-162 S.W NETWORK REV	AJP : 1 DALE STREET L2 2ET			

Status
OK
OK

225-205 : HARESHILL ROAD NORTH SOUTH HEYWOOD		Date: 11/11/2025			
		Designed by: JPR	Checked by: JCM		Approved By: JCM
Report Details: Type: Stormwater Controls Summary Storm Phase: 224-162 S.W NETWORK REV		AJP : 1 DALE STREET L2 2ET			



Sim Criteria FSR: 100 years: Increase Rainfall (%): +45: Critical Storm Per Item:
Rank By: Max. Avg. Depth

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Residant Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Velocity (m/s)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Percentage Available (%)
Dry Swale	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	130.817	127.961	1.297	1.425	102.5	21.452	0.000	0.000	0.9	58.0	41.916	88.702
Pond	Sim Criteria FSR: 100 years: +45 %: 240 mins: Winter	123.292	123.292	1.040	1.040	630.9	2629.299	0.000	0.000		106.5	2459.936	1.078

225-205 : HARESHILL ROAD NORTH SOUTH HEYWOOD	Date: 11/11/2025			
	Designed by: JPR	Checked by: JCM	Approved By: JCM	
Report Details: Type: Stormwater Controls Summary Storm Phase: 224-162 S.W NETWORK REV	AJP : 1 DALE STREET L2 2ET			

Status
OK
OK

225-205 : HARESHILL ROAD NORTH SOUTH HEYWOOD		Date: 11/11/2025			
		Designed by: JPR	Checked by: JCM		Approved By: JCM
Report Details: Type: Connections Summary Storm Phase: 224-162 S.W NETWORK REV		AJP : 1 DALE STREET L2 2ET			



Sim Criteria FSR: 1 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Flow

Connection	Storm Event	Connection Type	From	To	Upstream Cover Level (m)	Max. US Water Level (m)	Max. Flow Depth (m)	Discharge Volume (m³)	Max. Velocity (m/s)	Flow / Capacity	Max. Flow (L/s)	Status
1.000	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	Pipe	18	17	124.860	123.137	0.078	6.990	0.5	0.01	14.3	OK
1.001	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	Pipe	17	16	125.057	123.090	0.084	7.695	0.5	0.01	14.3	OK
1.002	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	Pipe	16	15	125.219	123.061	0.118	12.429	0.6	0.02	21.6	OK
1.003	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	Pipe	15	14	125.041	123.021	0.182	17.520	0.6	0.03	28.4	OK
1.004	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	Pipe	14	13	124.903	123.017	0.209	18.152	0.6	0.03	26.8	OK
1.005	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	Pipe	13	12	124.800	123.015	0.231	19.331	0.4	0.03	29.3	OK
1.006	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	Pipe	12	11	124.639	123.012	0.263	21.824	0.4	0.04	34.9	OK
1.007	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	Pipe	11	10	124.911	123.007	0.313	27.101	0.4	0.04	44.3	OK
1.008	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	Pipe	10	9	125.253	123.001	0.377	35.328	0.4	0.06	57.2	OK
3.000	Sim Criteria FSR: 1 years: +0 %: 30 mins: Winter	Pipe	27	26	131.867	130.802	0.300	3.056	0.4	0.07	7.8	Surcharged
3.001	Sim Criteria FSR: 1 years: +0 %: 30 mins: Winter	Pipe	26	25	131.678	130.804	0.300	6.339	0.6	0.14	15.2	Surcharged
3.002	Sim Criteria FSR: 1 years: +0 %: 30 mins: Winter	Pipe	25	S24	131.387	130.793	0.300	8.121	0.3	0.13	20.4	Surcharged
3.005	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	Pipe	22	21	127.650	125.105	0.089	12.319	1.1	0.11	22.9	OK
4.000	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	Pipe	38	37	131.008	129.506	0.055	4.170	1.2	0.12	8.8	OK

225-205 : HARESHILL ROAD NORTH SOUTH HEYWOOD				Date: 11/11/2025					
				Designed by: JPR	Checked by: JCM	Approved By: JCM			
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4.001	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	Pipe	37	36	130.836	129.326	0.060	4.166	1.0	0.12	8.6	OK
4.002	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	Pipe	36	35	130.633	129.134	0.074	7.133	1.3	0.18	14.7	OK
4.003	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	Pipe	35	34	130.369	128.816	0.092	13.189	1.5	0.17	26.6	OK
4.004	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	Pipe	34	33	129.276	127.744	0.105	16.305	1.4	0.2	31.6	OK
4.005	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	Pipe	33	32	129.120	127.545	0.123	22.353	1.6	0.24	43.8	OK
4.006	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	Pipe	32	31	129.002	127.264	0.142	29.770	1.5	0.26	57.3	OK
5.000	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	Pipe	39	31	129.277	127.296	0.106	5.842	0.7	0.18	12.1	OK
4.007	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	Pipe	31	30	128.492	126.787	0.146	38.404	1.5	0.21	69.0	OK
4.008	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	Pipe	30	29	127.894	126.190	0.207	46.701	1.1	0.23	80.8	OK
6.000	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	Pipe	48	47	131.696	130.088	0.082	7.260	1.2	0.29	15.2	OK
6.001	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	Pipe	47	46	131.535	129.868	0.091	7.249	1.0	0.23	14.6	OK
6.002	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	Pipe	46	45	131.374	129.663	0.099	13.542	1.3	0.24	26.8	OK
6.003	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	Pipe	45	44	130.983	129.262	0.109	13.503	1.1	0.19	25.3	OK
6.004	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	Pipe	44	43	130.808	129.023	0.136	21.592	1.1	0.2	40.9	OK
7.000	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	Pipe	49	43	131.298	129.219	0.105	5.606	0.6	0.18	11.6	OK
6.005	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	Pipe	43	42	130.902	128.848	0.154	34.414	1.5	0.29	64.3	OK
6.006	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	Pipe	42	41	129.915	128.424	0.170	38.472	1.2	0.25	66.7	OK

225-205 : HARESHILL ROAD NORTH SOUTH HEYWOOD				Date: 11/11/2025								
				Designed by:	Checked by:	Approved By:						
Report Details: Type: Connections Summary Storm Phase: 224-162 S.W NETWORK REV				JPR	JCM	JCM						
				AJP : 1 DALE STREET L2 2ET								

6.007	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	Pipe	41	40	130.136	128.052	0.145	46.527	1.7	0.29	75.9	OK
6.008	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	Pipe	40	29	129.691	127.700	0.190	51.237	1.3	0.14	81.1	OK
4.009	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	Pipe	29	28	127.723	125.809	0.234	114.440	1.9	0.45	178.9	OK
4.010	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	Pipe	28	21	127.836	125.597	0.191	114.973	2.4	0.26	169.9	OK
8.000	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	Pipe	55	54	130.404	128.739	0.056	3.707	1.0	0.07	7.8	OK
8.001	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	Pipe	54	53	129.169	127.590	0.071	5.958	1.1	0.2	11.9	OK
8.002	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	Pipe	53	52	128.770	127.343	0.102	16.326	1.5	0.24	32.7	OK
9.000	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	Pipe	58	57	130.790	129.053	0.059	5.979	1.5	0.12	12.7	OK
9.001	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	Pipe	57	56	129.910	128.330	0.069	8.368	1.7	0.17	17.4	OK
9.002	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	Pipe	56	52	129.423	127.883	0.072	11.003	2.0	0.21	22.3	OK
8.003	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	Pipe	52	51	128.545	125.442	0.167	34.374	1.4	0.39	66.1	OK
8.004	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	Pipe	51	50	128.187	123.717	0.179	41.312	1.5	0.42	78.2	OK
8.005	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	Pipe	50	21	128.036	123.100	0.294	47.299	0.5	0.07	74.7	OK
3.006	Sim Criteria FSR: 1 years: +0 %: 30 mins: Winter	Pipe	21	20	127.589	123.091	0.363	238.555	1.0	0.25	249.7	OK
3.007	Sim Criteria FSR: 1 years: +0 %: 30 mins: Winter	Pipe	20	9	126.414	123.023	0.375	246.802	1.0	0.26	255.7	OK
1.009	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	Pipe	9	8	125.555	122.995	0.415	223.962	1.1	0.32	320.6	OK
1.010	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	Pipe	8	7	125.136	122.920	0.428	226.192	1.1	0.33	330.3	OK

225-205 : HARESHILL ROAD NORTH SOUTH HEYWOOD				Date: 11/11/2025								
				Designed by:	Checked by:	Approved By:						
Report Details: Type: Connections Summary Storm Phase: 224-162 S.W NETWORK REV				JPR	JCM	JCM						
				AJP : 1 DALE STREET L2 2ET								

1.011	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	Pipe	7	6	124.620	122.843	0.422	235.242	1.2	0.34	341.7	OK
1.012	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	Pipe	6	5	124.466	122.785	0.398	234.128	1.3	0.35	346.5	OK
10.000	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	Pipe	66	65	131.945	130.681	0.079	8.499	1.4	0.26	17.4	OK
10.001	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	Pipe	65	64	131.596	130.063	0.102	13.987	1.4	0.2	28.7	OK
10.002	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	Pipe	64	63	131.434	129.842	0.104	18.454	1.7	0.25	36.2	OK
10.003	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	Pipe	63	62	130.666	128.657	0.101	27.291	2.5	0.24	52.4	OK
10.004	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	Pipe	62	61	129.300	126.764	0.098	31.645	2.5	0.15	57.4	OK
11.000	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	Pipe	74	73	130.566	129.040	0.055	1.971	0.5	0.07	4.1	OK
11.001	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	Pipe	73	72	130.270	128.730	0.068	5.953	1.1	0.2	11.5	OK
11.002	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	Pipe	72	71	129.872	128.234	0.096	13.188	1.4	0.24	26.3	OK
11.003	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	Pipe	71	70	129.662	127.970	0.081	17.077	2.2	0.16	33.8	OK
11.004	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	Pipe	70	69	129.207	127.271	0.074	20.378	2.8	0.13	38.8	OK
11.005	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	Pipe	69	68	127.796	122.778	0.167	26.791	0.6	0.05	50.1	OK
11.006	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	Pipe	68	67	127.522	122.759	0.184	27.646	0.5	0.05	46.2	OK
11.007	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	Pipe	67	61	127.097	122.742	0.209	36.996	0.5	0.06	59.7	OK
10.005	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	Pipe	61	60	126.697	122.726	0.243	70.459	0.9	0.11	111.7	OK
10.006	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	Pipe	60	59	125.750	122.698	0.284	76.923	0.9	0.09	114.1	OK

225-205 : HARESHILL ROAD NORTH SOUTH HEYWOOD				Date: 11/11/2025								
				Designed by: JPR		Checked by: JCM				Approved By: JCM		
Report Details: Type: Connections Summary Storm Phase: 224-162 S.W NETWORK REV				AJP : 1 DALE STREET L2 2ET								

10.007	Sim Criteria FSR: 1 years: +0 %: 30 mins: Winter	Pipe	59	5	125.400	122.674	0.323	101.305	0.6	0.11	100.2	OK
1.013	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	Pipe	5	Pond	124.093	122.676	0.229	323.092	3.6	0.39	455.3	OK
1.014	Sim Criteria FSR: 1 years: +0 %: 360 mins: Winter	Pipe	Pond	2	123.702	122.525	0.298	822.958	0.3	0.03	45.7	OK
1.015	Sim Criteria FSR: 1 years: +0 %: 360 mins: Winter	Pipe	2	1	124.472	122.522	0.066	822.119	2.9	0.03	45.7	OK
3.003	Sim Criteria FSR: 1 years: +0 %: 30 mins: Winter	Pipe	S24	Dry Swale	131.250	130.784	0.300	0.000	0.3	0.08	19.8	Surch arged
3.004	Sim Criteria FSR: 1 years: +0 %: 60 mins: Winter	Pipe	Dry Swale	22	131.070	127.787	0.067	9.904	1.0	0.1	11.6	Surch arged

225-205 : HARESHILL ROAD NORTH SOUTH HEYWOOD		Date: 11/11/2025			
		Designed by: JPR	Checked by: JCM		Approved By: JCM
Report Details: Type: Connections Summary Storm Phase: 224-162 S.W NETWORK REV		AJP : 1 DALE STREET L2 2ET			



Sim Criteria FSR: 2 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Flow

Connection	Storm Event	Connection Type	From	To	Upstream Cover Level (m)	Max. US Water Level (m)	Max. Flow Depth (m)	Discharge Volume (m³)	Max. Velocity (m/s)	Flow / Capacity	Max. Flow (L/s)	Status
1.000	Sim Criteria FSR: 2 years: +0 %: 15 mins: Winter	Pipe	18	17	124.860	123.148	0.089	9.048	0.6	0.02	18.5	OK
1.001	Sim Criteria FSR: 2 years: +0 %: 15 mins: Winter	Pipe	17	16	125.057	123.106	0.111	9.968	0.5	0.02	18.7	OK
1.002	Sim Criteria FSR: 2 years: +0 %: 15 mins: Winter	Pipe	16	15	125.219	123.100	0.181	16.118	0.6	0.03	28.6	OK
1.003	Sim Criteria FSR: 2 years: +0 %: 15 mins: Winter	Pipe	15	14	125.041	123.088	0.249	22.743	0.6	0.04	37.0	OK
1.004	Sim Criteria FSR: 2 years: +0 %: 15 mins: Winter	Pipe	14	13	124.903	123.084	0.276	23.584	0.4	0.03	30.2	OK
1.005	Sim Criteria FSR: 2 years: +0 %: 15 mins: Winter	Pipe	13	12	124.800	123.082	0.298	25.128	0.4	0.03	34.3	OK
1.006	Sim Criteria FSR: 2 years: +0 %: 15 mins: Winter	Pipe	12	11	124.639	123.079	0.330	28.378	0.4	0.04	40.6	OK
1.007	Sim Criteria FSR: 2 years: +0 %: 15 mins: Winter	Pipe	11	10	124.911	123.074	0.381	35.240	0.4	0.05	52.2	OK
1.008	Sim Criteria FSR: 2 years: +0 %: 15 mins: Winter	Pipe	10	9	125.253	123.069	0.446	45.926	0.4	0.07	69.2	OK
3.000	Sim Criteria FSR: 2 years: +0 %: 60 mins: Winter	Pipe	27	26	131.867	130.806	0.300	5.811	0.4	0.06	6.8	Surcharged
3.001	Sim Criteria FSR: 2 years: +0 %: 30 mins: Winter	Pipe	26	25	131.678	130.809	0.300	9.351	0.6	0.13	14.3	Surcharged
3.002	Sim Criteria FSR: 2 years: +0 %: 30 mins: Winter	Pipe	25	S24	131.387	130.803	0.300	12.605	0.3	0.14	21.3	Surcharged
3.005	Sim Criteria FSR: 2 years: +0 %: 15 mins: Winter	Pipe	22	21	127.650	125.119	0.102	18.965	1.2	0.15	29.7	OK
4.000	Sim Criteria FSR: 2 years: +0 %: 15 mins: Winter	Pipe	38	37	131.008	129.514	0.063	5.400	1.3	0.16	11.5	OK

225-205 : HARESHILL ROAD NORTH SOUTH HEYWOOD				Date: 11/11/2025								
				Designed by:	Checked by:	Approved By:						
Report Details: Type: Connections Summary Storm Phase: 224-162 S.W NETWORK REV				JPR	JCM	JCM						
				AJP : 1 DALE STREET L2 2ET								

4.001	Sim Criteria FSR: 2 years: +0 %: 15 mins: Winter	Pipe	37	36	130.836	129.334	0.069	5.396	1.1	0.15	11.2	OK
4.002	Sim Criteria FSR: 2 years: +0 %: 15 mins: Winter	Pipe	36	35	130.633	129.145	0.086	9.236	1.4	0.23	19.0	OK
4.003	Sim Criteria FSR: 2 years: +0 %: 15 mins: Winter	Pipe	35	34	130.369	128.828	0.106	17.074	1.5	0.22	34.5	OK
4.004	Sim Criteria FSR: 2 years: +0 %: 15 mins: Winter	Pipe	34	33	129.276	127.761	0.124	21.112	1.5	0.26	41.1	OK
4.005	Sim Criteria FSR: 2 years: +0 %: 15 mins: Winter	Pipe	33	32	129.120	127.565	0.145	28.942	1.7	0.31	57.0	OK
4.006	Sim Criteria FSR: 2 years: +0 %: 15 mins: Winter	Pipe	32	31	129.002	127.286	0.165	38.549	1.6	0.34	74.7	OK
5.000	Sim Criteria FSR: 2 years: +0 %: 15 mins: Winter	Pipe	39	31	129.277	127.306	0.122	7.557	0.7	0.24	15.7	OK
4.007	Sim Criteria FSR: 2 years: +0 %: 15 mins: Winter	Pipe	31	30	128.492	126.811	0.170	49.747	1.6	0.28	90.5	OK
4.008	Sim Criteria FSR: 2 years: +0 %: 15 mins: Winter	Pipe	30	29	127.894	126.213	0.244	60.508	1.2	0.3	106.4	OK
6.000	Sim Criteria FSR: 2 years: +0 %: 15 mins: Winter	Pipe	48	47	131.696	130.102	0.096	9.396	1.2	0.38	19.7	OK
6.001	Sim Criteria FSR: 2 years: +0 %: 15 mins: Winter	Pipe	47	46	131.535	129.881	0.105	9.385	1.0	0.3	19.0	OK
6.002	Sim Criteria FSR: 2 years: +0 %: 15 mins: Winter	Pipe	46	45	131.374	129.680	0.115	17.530	1.4	0.31	34.9	OK
6.003	Sim Criteria FSR: 2 years: +0 %: 15 mins: Winter	Pipe	45	44	130.983	129.278	0.128	17.488	1.1	0.25	32.9	OK
6.004	Sim Criteria FSR: 2 years: +0 %: 15 mins: Winter	Pipe	44	43	130.808	129.045	0.159	27.969	1.2	0.27	53.3	OK
7.000	Sim Criteria FSR: 2 years: +0 %: 15 mins: Winter	Pipe	49	43	131.298	129.228	0.122	7.251	0.7	0.24	15.1	OK
6.005	Sim Criteria FSR: 2 years: +0 %: 15 mins: Winter	Pipe	43	42	130.902	128.873	0.180	44.571	1.6	0.38	83.9	OK
6.006	Sim Criteria FSR: 2 years: +0 %: 15 mins: Winter	Pipe	42	41	129.915	128.451	0.198	49.855	1.3	0.33	87.5	OK

225-205 : HARESHILL ROAD NORTH SOUTH HEYWOOD				Date: 11/11/2025								
				Designed by:	Checked by:	Approved By:						
Report Details: Type: Connections Summary Storm Phase: 224-162 S.W NETWORK REV				JPR	JCM	JCM						
				AJP : 1 DALE STREET L2 2ET								

6.007	Sim Criteria FSR: 2 years: +0 %: 15 mins: Winter	Pipe	41	40	130.136	128.081	0.168	60.323	1.9	0.38	100.4	OK
6.008	Sim Criteria FSR: 2 years: +0 %: 15 mins: Winter	Pipe	40	29	129.691	127.717	0.224	66.457	1.4	0.18	107.8	OK
4.009	Sim Criteria FSR: 2 years: +0 %: 15 mins: Winter	Pipe	29	28	127.723	125.860	0.279	148.417	2.0	0.6	238.4	OK
4.010	Sim Criteria FSR: 2 years: +0 %: 15 mins: Winter	Pipe	28	21	127.836	125.635	0.226	149.173	2.6	0.34	227.8	OK
8.000	Sim Criteria FSR: 2 years: +0 %: 15 mins: Winter	Pipe	55	54	130.404	128.745	0.064	4.793	1.1	0.09	10.1	OK
8.001	Sim Criteria FSR: 2 years: +0 %: 15 mins: Winter	Pipe	54	53	129.169	127.601	0.082	7.710	1.2	0.27	15.5	OK
8.002	Sim Criteria FSR: 2 years: +0 %: 15 mins: Winter	Pipe	53	52	128.770	127.360	0.118	21.143	1.6	0.31	42.6	OK
9.000	Sim Criteria FSR: 2 years: +0 %: 15 mins: Winter	Pipe	58	57	130.790	129.061	0.068	7.749	1.6	0.16	16.5	OK
9.001	Sim Criteria FSR: 2 years: +0 %: 15 mins: Winter	Pipe	57	56	129.910	128.341	0.080	10.837	1.8	0.22	22.6	OK
9.002	Sim Criteria FSR: 2 years: +0 %: 15 mins: Winter	Pipe	56	52	129.423	127.895	0.083	14.252	2.2	0.28	29.0	OK
8.003	Sim Criteria FSR: 2 years: +0 %: 15 mins: Winter	Pipe	52	51	128.545	125.472	0.196	44.520	1.5	0.5	86.1	OK
8.004	Sim Criteria FSR: 2 years: +0 %: 15 mins: Winter	Pipe	51	50	128.187	123.752	0.211	53.521	1.6	0.55	102.0	OK
8.005	Sim Criteria FSR: 2 years: +0 %: 15 mins: Winter	Pipe	50	21	128.036	123.164	0.358	61.268	0.6	0.09	98.1	OK
3.006	Sim Criteria FSR: 2 years: +0 %: 15 mins: Winter	Pipe	21	20	127.589	123.147	0.430	233.341	1.2	0.33	328.7	OK
3.007	Sim Criteria FSR: 2 years: +0 %: 30 mins: Winter	Pipe	20	9	126.414	123.089	0.441	321.497	1.1	0.33	329.0	OK
1.009	Sim Criteria FSR: 2 years: +0 %: 15 mins: Winter	Pipe	9	8	125.555	123.063	0.485	294.082	1.2	0.4	402.2	OK
1.010	Sim Criteria FSR: 2 years: +0 %: 15 mins: Winter	Pipe	8	7	125.136	122.990	0.497	297.190	1.2	0.42	417.1	OK

225-205 : HARESHILL ROAD NORTH SOUTH HEYWOOD					Date: 11/11/2025									
					Designed by: JPR		Checked by: JCM		Approved By: JCM					
Report Details: Type: Connections Summary Storm Phase: 224-162 S.W NETWORK REV					AJP : 1 DALE STREET L2 2ET									

1.011	Sim Criteria FSR: 2 years: +0 %: 15 mins: Winter	Pipe	7	6	124.620	122.912	0.488	309.080	1.2	0.43	432.9	OK
1.012	Sim Criteria FSR: 2 years: +0 %: 15 mins: Winter	Pipe	6	5	124.466	122.849	0.459	307.847	1.3	0.44	439.7	OK
10.000	Sim Criteria FSR: 2 years: +0 %: 15 mins: Winter	Pipe	66	65	131.945	130.693	0.091	10.995	1.5	0.34	22.6	OK
10.001	Sim Criteria FSR: 2 years: +0 %: 15 mins: Winter	Pipe	65	64	131.596	130.079	0.118	18.106	1.4	0.26	37.3	OK
10.002	Sim Criteria FSR: 2 years: +0 %: 15 mins: Winter	Pipe	64	63	131.434	129.859	0.120	23.884	1.8	0.33	47.2	OK
10.003	Sim Criteria FSR: 2 years: +0 %: 15 mins: Winter	Pipe	63	62	130.666	128.674	0.117	35.343	2.7	0.31	68.4	OK
10.004	Sim Criteria FSR: 2 years: +0 %: 15 mins: Winter	Pipe	62	61	129.300	126.780	0.113	40.981	2.7	0.19	75.3	OK
11.000	Sim Criteria FSR: 2 years: +0 %: 15 mins: Winter	Pipe	74	73	130.566	129.046	0.063	2.550	0.6	0.09	5.3	OK
11.001	Sim Criteria FSR: 2 years: +0 %: 15 mins: Winter	Pipe	73	72	130.270	128.740	0.079	7.698	1.2	0.26	14.9	OK
11.002	Sim Criteria FSR: 2 years: +0 %: 15 mins: Winter	Pipe	72	71	129.872	128.250	0.111	17.087	1.4	0.31	34.3	OK
11.003	Sim Criteria FSR: 2 years: +0 %: 15 mins: Winter	Pipe	71	70	129.662	127.984	0.093	22.125	2.4	0.21	44.0	OK
11.004	Sim Criteria FSR: 2 years: +0 %: 15 mins: Winter	Pipe	70	69	129.207	127.282	0.085	26.409	3.1	0.17	50.7	OK
11.005	Sim Criteria FSR: 2 years: +0 %: 15 mins: Winter	Pipe	69	68	127.796	122.811	0.202	34.704	0.6	0.07	65.3	OK
11.006	Sim Criteria FSR: 2 years: +0 %: 15 mins: Winter	Pipe	68	67	127.522	122.796	0.221	35.824	0.5	0.06	60.3	OK
11.007	Sim Criteria FSR: 2 years: +0 %: 15 mins: Winter	Pipe	67	61	127.097	122.780	0.250	47.936	0.6	0.08	78.0	OK
10.005	Sim Criteria FSR: 2 years: +0 %: 15 mins: Winter	Pipe	61	60	126.697	122.772	0.298	91.317	0.9	0.15	146.6	OK
10.006	Sim Criteria FSR: 2 years: +0 %: 15 mins: Winter	Pipe	60	59	125.750	122.755	0.342	99.722	0.9	0.12	148.6	OK

225-205 : HARESHILL ROAD NORTH SOUTH HEYWOOD				Date: 11/11/2025											
				Designed by: JPR		Checked by: JCM							Approved By: JCM		
Report Details: Type: Connections Summary Storm Phase: 224-162 S.W NETWORK REV				AJP : 1 DALE STREET L2 2ET											

10.007	Sim Criteria FSR: 2 years: +0 %: 30 mins: Winter	Pipe	59	5	125.400	122.727	0.377	129.574	0.6	0.13	125.4	OK
1.013	Sim Criteria FSR: 2 years: +0 %: 15 mins: Winter	Pipe	5	Pond	124.093	122.735	0.270	422.540	3.6	0.5	579.9	OK
1.014	Sim Criteria FSR: 2 years: +0 %: 360 mins: Winter	Pipe	Pond	2	123.702	122.573	0.347	1034.098	0.3	0.03	58.6	OK
1.015	Sim Criteria FSR: 2 years: +0 %: 360 mins: Winter	Pipe	2	1	124.472	122.571	0.074	1033.209	3.1	0.04	58.6	OK
3.003	Sim Criteria FSR: 2 years: +0 %: 30 mins: Winter	Pipe	S24	Dry Swale	131.250	130.797	0.300	0.000	0.3	0.09	21.3	Surch arged
3.004	Sim Criteria FSR: 2 years: +0 %: 30 mins: Winter	Pipe	Dry Swale	22	131.070	127.789	0.080	9.984	1.1	0.13	16.0	Surch arged

225-205 : HARESHILL ROAD NORTH SOUTH HEYWOOD	Date: 11/11/2025			
	Designed by:	Checked by:	Approved By:	
Report Details: Type: Connections Summary Storm Phase: 224-162 S.W NETWORK REV	JPR	JCM	JCM	
AJP : 1 DALE STREET L2 2ET				



Sim Criteria FSR: 30 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Flow

Connection	Storm Event	Connection Type	From	To	Upstream Cover Level (m)	Max. US Water Level (m)	Max. Flow Depth (m)	Discharge Volume (m³)	Max. Velocity (m/s)	Flow / Capacity	Max. Flow (L/s)	Status
1.000	Sim Criteria FSR: 30 years: +0 %: 15 mins: Winter	Pipe	18	17	124.860	123.396	0.360	17.107	0.6	0.04	35.6	OK
1.001	Sim Criteria FSR: 30 years: +0 %: 15 mins: Summer	Pipe	17	16	125.057	123.345	0.352	16.812	0.6	0.03	34.3	OK
1.002	Sim Criteria FSR: 30 years: +0 %: 15 mins: Winter	Pipe	16	15	125.219	123.396	0.477	30.402	0.5	0.06	55.0	OK
1.003	Sim Criteria FSR: 30 years: +0 %: 30 mins: Winter	Pipe	15	14	125.041	123.298	0.459	56.995	0.5	0.08	75.6	OK
1.004	Sim Criteria FSR: 30 years: +0 %: 30 mins: Winter	Pipe	14	13	124.903	123.296	0.488	59.283	0.5	0.08	84.9	OK
1.005	Sim Criteria FSR: 30 years: +0 %: 30 mins: Winter	Pipe	13	12	124.800	123.295	0.512	63.347	0.5	0.09	94.0	OK
1.006	Sim Criteria FSR: 30 years: +0 %: 30 mins: Winter	Pipe	12	11	124.639	123.293	0.545	71.710	0.4	0.11	107.0	OK
1.007	Sim Criteria FSR: 30 years: +0 %: 15 mins: Winter	Pipe	11	10	124.911	123.370	0.676	66.747	0.5	0.13	128.5	OK
1.008	Sim Criteria FSR: 30 years: +0 %: 15 mins: Winter	Pipe	10	9	125.253	123.364	0.740	86.935	0.5	0.16	157.1	OK
3.000	Sim Criteria FSR: 30 years: +0 %: 15 mins: Winter	Pipe	27	26	131.867	130.975	0.300	6.854	0.6	0.14	15.7	Surcharged
3.001	Sim Criteria FSR: 30 years: +0 %: 15 mins: Winter	Pipe	26	25	131.678	130.971	0.300	15.325	0.5	0.34	38.1	Surcharged

225-205 : HARESHILL ROAD NORTH SOUTH HEYWOOD					Date: 11/11/2025							
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Report Details: Type: Connections Summary Storm Phase: 224-162 S.W NETWORK REV					JPR	JCM	JCM					
					AJP : 1 DALE STREET L2 2ET							

3.002	Sim Criteria FSR: 30 years: +0 %: 15 mins: Winter	Pipe	25	S24	131.387	130.927	0.300	21.503	0.8	0.36	56.8	Surcharged
3.005	Sim Criteria FSR: 30 years: +0 %: 30 mins: Winter	Pipe	22	21	127.650	125.199	0.175	62.929	1.6	0.39	78.6	OK
4.000	Sim Criteria FSR: 30 years: +0 %: 15 mins: Winter	Pipe	38	37	131.008	129.542	0.091	10.210	1.4	0.3	21.7	OK
4.001	Sim Criteria FSR: 30 years: +0 %: 15 mins: Winter	Pipe	37	36	130.836	129.362	0.102	10.205	1.2	0.29	21.2	OK
4.002	Sim Criteria FSR: 30 years: +0 %: 15 mins: Winter	Pipe	36	35	130.633	129.182	0.124	17.473	1.6	0.43	36.2	OK
4.003	Sim Criteria FSR: 30 years: +0 %: 15 mins: Winter	Pipe	35	34	130.369	128.869	0.159	32.296	1.7	0.42	65.9	OK
4.004	Sim Criteria FSR: 30 years: +0 %: 15 mins: Winter	Pipe	34	33	129.276	127.827	0.194	39.959	1.6	0.5	78.2	OK
4.005	Sim Criteria FSR: 30 years: +0 %: 15 mins: Winter	Pipe	33	32	129.120	127.641	0.224	54.773	1.9	0.6	108.2	OK
4.006	Sim Criteria FSR: 30 years: +0 %: 15 mins: Winter	Pipe	32	31	129.002	127.370	0.249	72.949	1.8	0.65	142.2	OK
5.000	Sim Criteria FSR: 30 years: +0 %: 15 mins: Winter	Pipe	39	31	129.277	127.337	0.180	14.278	0.9	0.45	30.0	OK
4.007	Sim Criteria FSR: 30 years: +0 %: 15 mins: Winter	Pipe	31	30	128.492	126.895	0.252	94.160	1.9	0.54	175.4	OK
4.008	Sim Criteria FSR: 30 years: +0 %: 15 mins: Winter	Pipe	30	29	127.894	126.293	0.416	114.685	1.4	0.59	207.9	OK
6.000	Sim Criteria FSR: 30 years: +0 %: 15 mins: Winter	Pipe	48	47	131.696	130.154	0.146	17.760	1.4	0.72	37.4	OK
6.001	Sim Criteria FSR: 30 years: +0 %: 15 mins: Winter	Pipe	47	46	131.535	129.930	0.159	17.747	1.2	0.57	35.9	OK

225-205 : HARESHILL ROAD NORTH SOUTH HEYWOOD				Date: 11/11/2025								
				Designed by:	Checked by:	Approved By:						
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				AJP : 1 DALE STREET L2 2ET								

6.002	Sim Criteria FSR: 30 years: +0 %: 15 mins: Winter	Pipe	46	45	131.374	129.737	0.174	33.135	1.6	0.6	66.3	OK
6.003	Sim Criteria FSR: 30 years: +0 %: 15 mins: Winter	Pipe	45	44	130.983	129.337	0.197	33.086	1.3	0.48	63.1	OK
6.004	Sim Criteria FSR: 30 years: +0 %: 15 mins: Winter	Pipe	44	43	130.808	129.123	0.247	52.917	1.3	0.51	102.1	OK
7.000	Sim Criteria FSR: 30 years: +0 %: 15 mins: Winter	Pipe	49	43	131.298	129.260	0.187	13.703	0.8	0.45	28.8	OK
6.005	Sim Criteria FSR: 30 years: +0 %: 15 mins: Winter	Pipe	43	42	130.902	128.971	0.279	84.333	1.8	0.73	160.9	OK
6.006	Sim Criteria FSR: 30 years: +0 %: 15 mins: Winter	Pipe	42	41	129.915	128.552	0.300	94.419	1.5	0.65	170.3	OK
6.007	Sim Criteria FSR: 30 years: +0 %: 15 mins: Winter	Pipe	41	40	130.136	128.185	0.248	114.365	2.2	0.75	197.7	OK
6.008	Sim Criteria FSR: 30 years: +0 %: 15 mins: Winter	Pipe	40	29	129.691	127.773	0.384	126.023	1.5	0.36	215.7	OK
4.009	Sim Criteria FSR: 30 years: +0 %: 15 mins: Winter	Pipe	29	28	127.723	126.124	0.479	281.602	2.2	1.16	459.7	Surchar
4.010	Sim Criteria FSR: 30 years: +0 %: 15 mins: Winter	Pipe	28	21	127.836	125.770	0.345	283.213	3.0	0.68	448.6	OK
8.000	Sim Criteria FSR: 30 years: +0 %: 15 mins: Winter	Pipe	55	54	130.404	128.762	0.093	9.059	1.2	0.17	19.3	OK
8.001	Sim Criteria FSR: 30 years: +0 %: 15 mins: Winter	Pipe	54	53	129.169	127.641	0.118	14.570	1.4	0.51	29.6	OK
8.002	Sim Criteria FSR: 30 years: +0 %: 15 mins: Winter	Pipe	53	52	128.770	127.420	0.174	39.962	1.9	0.6	81.1	OK
9.000	Sim Criteria FSR: 30 years: +0 %: 15 mins: Winter	Pipe	58	57	130.790	129.087	0.099	14.634	1.9	0.3	31.2	OK

225-205 : HARESHILL ROAD NORTH SOUTH HEYWOOD				Date: 11/11/2025								
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9.001	Sim Criteria FSR: 30 years: +0 %: 15 mins: Winter	Pipe	57	56	129.910	128.376	0.118	20.474	2.0	0.42	43.0	OK
9.002	Sim Criteria FSR: 30 years: +0 %: 15 mins: Winter	Pipe	56	52	129.423	127.934	0.120	26.930	2.5	0.53	55.2	OK
8.003	Sim Criteria FSR: 30 years: +0 %: 15 mins: Winter	Pipe	52	51	128.545	125.603	0.312	84.158	1.7	0.95	162.1	OK
8.004	Sim Criteria FSR: 30 years: +0 %: 15 mins: Winter	Pipe	51	50	128.187	123.936	0.362	101.184	1.7	1.02	188.8	Surcharged
8.005	Sim Criteria FSR: 30 years: +0 %: 15 mins: Winter	Pipe	50	21	128.036	123.448	0.651	115.761	0.6	0.16	184.6	OK
3.006	Sim Criteria FSR: 30 years: +0 %: 15 mins: Winter	Pipe	21	20	127.589	123.444	0.728	451.987	1.4	0.67	658.8	OK
3.007	Sim Criteria FSR: 30 years: +0 %: 30 mins: Winter	Pipe	20	9	126.414	123.354	0.699	621.607	1.2	0.66	660.0	OK
1.009	Sim Criteria FSR: 30 years: +0 %: 15 mins: Winter	Pipe	9	8	125.555	123.357	0.769	567.910	1.3	0.77	762.7	OK
1.010	Sim Criteria FSR: 30 years: +0 %: 15 mins: Winter	Pipe	8	7	125.136	123.266	0.759	574.200	1.4	0.78	776.6	OK
1.011	Sim Criteria FSR: 30 years: +0 %: 15 mins: Winter	Pipe	7	6	124.620	123.160	0.725	595.998	1.5	0.79	797.0	OK
1.012	Sim Criteria FSR: 30 years: +0 %: 15 mins: Winter	Pipe	6	5	124.466	123.073	0.664	592.479	1.6	0.81	802.7	OK
10.000	Sim Criteria FSR: 30 years: +0 %: 15 mins: Winter	Pipe	66	65	131.945	130.739	0.135	20.797	1.7	0.64	42.8	OK
10.001	Sim Criteria FSR: 30 years: +0 %: 15 mins: Winter	Pipe	65	64	131.596	130.136	0.176	34.216	1.6	0.49	70.7	OK
10.002	Sim Criteria FSR: 30 years: +0 %: 15 mins: Winter	Pipe	64	63	131.434	129.917	0.178	45.149	2.1	0.63	89.9	OK

225-205 : HARESHILL ROAD NORTH SOUTH HEYWOOD				Date: 11/11/2025								
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10.003	Sim Criteria FSR: 30 years: +0 %: 15 mins: Winter	Pipe	63	62	130.666	128.731	0.171	66.803	3.1	0.59	130.6	OK
10.004	Sim Criteria FSR: 30 years: +0 %: 15 mins: Winter	Pipe	62	61	129.300	126.831	0.162	77.521	3.2	0.37	145.2	OK
11.000	Sim Criteria FSR: 30 years: +0 %: 15 mins: Winter	Pipe	74	73	130.566	129.063	0.090	4.824	0.7	0.17	10.1	OK
11.001	Sim Criteria FSR: 30 years: +0 %: 15 mins: Winter	Pipe	73	72	130.270	128.777	0.114	14.576	1.4	0.49	28.7	OK
11.002	Sim Criteria FSR: 30 years: +0 %: 15 mins: Winter	Pipe	72	71	129.872	128.308	0.163	32.322	1.7	0.59	65.5	OK
11.003	Sim Criteria FSR: 30 years: +0 %: 15 mins: Winter	Pipe	71	70	129.662	128.029	0.134	41.849	2.7	0.4	84.1	OK
11.004	Sim Criteria FSR: 30 years: +0 %: 15 mins: Winter	Pipe	70	69	129.207	127.319	0.121	49.954	3.6	0.33	97.5	OK
11.005	Sim Criteria FSR: 30 years: +0 %: 15 mins: Winter	Pipe	69	68	127.796	122.945	0.343	65.668	0.7	0.12	123.8	OK
11.006	Sim Criteria FSR: 30 years: +0 %: 15 mins: Winter	Pipe	68	67	127.522	122.944	0.377	67.832	0.5	0.11	112.4	OK
11.007	Sim Criteria FSR: 30 years: +0 %: 15 mins: Winter	Pipe	67	61	127.097	122.943	0.417	90.609	0.6	0.14	143.2	OK
10.005	Sim Criteria FSR: 30 years: +0 %: 15 mins: Winter	Pipe	61	60	126.697	122.941	0.471	172.004	0.9	0.27	272.0	OK
10.006	Sim Criteria FSR: 30 years: +0 %: 15 mins: Winter	Pipe	60	59	125.750	122.933	0.520	186.212	0.9	0.23	275.4	OK
10.007	Sim Criteria FSR: 30 years: +0 %: 30 mins: Winter	Pipe	59	5	125.400	122.920	0.569	238.190	0.6	0.25	241.3	OK
1.013	Sim Criteria FSR: 30 years: +0 %: 15 mins: Winter	Pipe	5	Pond	124.093	122.921	0.405	801.815	4.1	0.94	1100. 4	OK

225-205 : HARESHILL ROAD NORTH SOUTH HEYWOOD				Date: 11/11/2025									
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1.014	Sim Criteria FSR: 30 years: +0 %: 240 mins: Winter	Pipe	Pond	2	123.702	122.806	0.580	1608.851	0.4	0.06	96.9	OK
1.015	Sim Criteria FSR: 30 years: +0 %: 240 mins: Winter	Pipe	2	1	124.472	122.805	0.096	1607.175	3.6	0.07	96.9	Surcharged
3.003	Sim Criteria FSR: 30 years: +0 %: 15 mins: Winter	Pipe	S24	Dry Swale	131.250	130.882	0.300	0.000	0.8	0.23	56.0	Surcharged
3.004	Sim Criteria FSR: 30 years: +0 %: 15 mins: Winter	Pipe	Dry Swale	22	131.070	127.795	0.138	18.471	1.4	0.36	43.9	Surcharged

225-205 : HARESHILL ROAD NORTH SOUTH HEYWOOD		Date: 11/11/2025			
		Designed by: JPR	Checked by: JCM		Approved By: JCM
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Sim Criteria FSR: 100 years: Increase Rainfall (%): +45: Critical Storm Per Item: Rank By: Max. Flow

Connection	Storm Event	Connection Type	From	To	Upstream Cover Level (m)	Max. US Water Level (m)	Max. Flow Depth (m)	Discharge Volume (m³)	Max. Velocity (m/s)	Flow / Capacity	Max. Flow (L/s)	Status
1.000	Sim Criteria FSR: 100 years: +45 %: 60 mins: Summer	Pipe	18	17	124.860	123.858	0.823	48.250	0.5	0.04	39.4	OK
1.001	Sim Criteria FSR: 100 years: +45 %: 30 mins: Summer	Pipe	17	16	125.057	124.052	0.900	41.983	0.5	0.08	75.8	Surcharged
1.002	Sim Criteria FSR: 100 years: +45 %: 30 mins: Summer	Pipe	16	15	125.219	124.053	0.900	67.908	0.5	0.13	134.0	Surcharged
1.003	Sim Criteria FSR: 100 years: +45 %: 30 mins: Summer	Pipe	15	14	125.041	124.060	0.900	95.994	0.5	0.17	173.5	Surcharged
1.004	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	Pipe	14	13	124.903	124.215	0.900	83.635	0.6	0.19	192.6	Surcharged
1.005	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	Pipe	13	12	124.800	124.214	0.900	89.141	0.6	0.22	215.0	Surcharged
1.006	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	Pipe	12	11	124.639	124.212	0.900	100.643	0.6	0.25	244.4	Surcharged
1.007	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	Pipe	11	10	124.911	124.210	0.900	124.514	0.6	0.29	287.0	Surcharged
1.008	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	Pipe	10	9	125.253	124.206	0.900	160.538	0.6	0.34	336.7	Surcharged
3.000	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	Pipe	27	26	131.867	131.360	0.300	13.938	0.6	0.26	29.0	Surcharged
3.001	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	Pipe	26	25	131.678	131.344	0.300	32.156	1.0	0.63	69.5	Surcharged

225-205 : HARESHILL ROAD NORTH SOUTH HEYWOOD					Date: 11/11/2025							
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3.002	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	Pipe	25	S24	131.387	131.216	0.300	46.623	1.5	0.66	104.4	Surcharged
3.005	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	Pipe	22	21	127.650	125.286	0.249	91.448	1.7	0.68	135.7	OK
4.000	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	Pipe	38	37	131.008	129.590	0.141	19.108	1.6	0.55	40.7	OK
4.001	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	Pipe	37	36	130.836	129.414	0.164	19.105	1.3	0.54	39.6	OK
4.002	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	Pipe	36	35	130.633	129.255	0.225	32.697	1.6	0.78	65.5	OK
4.003	Sim Criteria FSR: 100 years: +45 %: 15 mins: Summer	Pipe	35	34	130.369	128.938	0.300	53.701	1.5	0.68	107.8	OK
4.004	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	Pipe	34	33	129.276	128.713	0.300	74.874	1.6	0.73	115.2	Surcharged
4.005	Sim Criteria FSR: 100 years: +45 %: 15 mins: Summer	Pipe	33	32	129.120	128.320	0.300	91.591	2.1	0.82	148.6	Surcharged
4.006	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	Pipe	32	31	129.002	128.295	0.375	136.438	1.7	0.88	190.8	Surcharged
5.000	Sim Criteria FSR: 100 years: +45 %: 30 mins: Winter	Pipe	39	31	129.277	127.984	0.225	35.446	1.0	0.57	37.6	Surcharged
4.007	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	Pipe	31	30	128.492	127.851	0.450	176.444	1.6	0.74	239.0	Surcharged
4.008	Sim Criteria FSR: 100 years: +45 %: 30 mins: Winter	Pipe	30	29	127.894	127.426	0.450	286.263	1.8	0.83	290.1	Surcharged
6.000	Sim Criteria FSR: 100 years: +45 %: 15 mins: Summer	Pipe	48	47	131.696	130.444	0.225	29.629	1.5	1.15	59.9	Surcharged
6.001	Sim Criteria FSR: 100 years: +45 %: 15 mins: Summer	Pipe	47	46	131.535	130.121	0.225	29.679	1.3	0.79	50.0	Surcharged

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6.002	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	Pipe	46	45	131.374	130.114	0.300	61.972	1.4	0.85	94.6	Surcharged
6.003	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	Pipe	45	44	130.983	129.787	0.300	62.061	1.4	0.77	101.0	Surcharged
6.004	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	Pipe	44	43	130.808	129.649	0.375	99.223	1.3	0.72	143.7	Surcharged
7.000	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	Pipe	49	43	131.298	129.685	0.225	25.612	1.0	0.6	38.1	Surcharged
6.005	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	Pipe	43	42	130.902	129.502	0.375	157.991	2.1	1.08	236.6	Surcharged
6.006	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	Pipe	42	41	129.915	128.872	0.450	177.093	1.7	1	263.1	Surcharged
6.007	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	Pipe	41	40	130.136	128.420	0.403	214.493	2.3	1.23	323.7	Surcharged
6.008	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	Pipe	40	29	129.691	127.849	0.450	236.510	2.2	0.6	354.3	OK
4.009	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	Pipe	29	28	127.723	127.170	0.525	528.562	3.5	1.92	760.3	Surcharged
4.010	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	Pipe	28	21	127.836	126.341	0.525	531.807	3.5	1.14	753.3	Surcharged
8.000	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	Pipe	55	54	130.404	128.786	0.180	16.948	1.1	0.32	36.6	OK
8.001	Sim Criteria FSR: 100 years: +45 %: 15 mins: Summer	Pipe	54	53	129.169	127.722	0.225	24.366	1.2	0.85	49.2	OK
8.002	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	Pipe	53	52	128.770	127.643	0.300	74.851	2.0	1.02	139.1	Surcharged
9.000	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	Pipe	58	57	130.790	129.128	0.154	27.449	2.0	0.57	58.6	OK

225-205 : HARESHILL ROAD NORTH SOUTH HEYWOOD				Date: 11/11/2025								
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9.001	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	Pipe	57	56	129.910	128.445	0.197	38.372	2.2	0.78	80.1	OK
9.002	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	Pipe	56	52	129.423	128.024	0.195	50.485	2.7	0.96	100.4	OK
8.003	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	Pipe	52	51	128.545	126.323	0.375	157.623	2.7	1.76	300.8	Surcharged
8.004	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	Pipe	51	50	128.187	124.789	0.375	188.580	3.1	1.85	342.0	Surcharged
8.005	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	Pipe	50	21	128.036	124.501	0.900	216.489	0.6	0.32	353.9	Surcharged
3.006	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	Pipe	21	20	127.589	124.499	0.900	853.996	1.9	1.24	1223.9	Surcharged
3.007	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	Pipe	20	9	126.414	124.353	0.900	880.099	2.0	1.25	1242.8	Surcharged
1.009	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	Pipe	9	8	125.555	124.199	0.900	1063.758	2.2	1.39	1379.8	Surcharged
1.010	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	Pipe	8	7	125.136	123.940	0.900	1070.667	2.2	1.42	1408.2	Surcharged
1.011	Sim Criteria FSR: 100 years: +45 %: 30 mins: Winter	Pipe	7	6	124.620	123.673	0.900	1462.602	2.3	1.45	1454.4	Surcharged
1.012	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	Pipe	6	5	124.466	123.475	0.900	1098.568	2.3	1.46	1458.5	Surcharged
10.000	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	Pipe	66	65	131.945	131.070	0.225	38.584	1.8	1.08	72.6	Surcharged
10.001	Sim Criteria FSR: 100 years: +45 %: 15 mins: Summer	Pipe	65	64	131.596	130.245	0.300	57.039	1.6	0.81	115.9	OK
10.002	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	Pipe	64	63	131.434	130.141	0.300	84.452	2.0	1	144.0	Surcharged

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10.003	Sim Criteria FSR: 100 years: +45 %: 15 mins: Summer	Pipe	63	62	130.666	128.847	0.263	111.598	3.3	0.97	215.6	OK
10.004	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	Pipe	62	61	129.300	126.900	0.227	145.147	3.6	0.65	253.8	OK
11.000	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	Pipe	74	73	130.566	129.088	0.139	9.031	0.7	0.33	19.0	OK
11.001	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	Pipe	73	72	130.270	128.850	0.225	27.345	1.4	0.94	54.8	OK
11.002	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	Pipe	72	71	129.872	128.464	0.277	60.529	1.7	1.05	116.6	Surchar ged
11.003	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	Pipe	71	70	129.662	128.102	0.199	78.386	3.1	0.72	151.6	OK
11.004	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	Pipe	70	69	129.207	127.376	0.175	93.593	4.2	0.62	180.1	OK
11.005	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	Pipe	69	68	127.796	123.211	0.605	121.631	0.7	0.23	227.1	OK
11.006	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	Pipe	68	67	127.522	123.202	0.632	122.972	0.5	0.2	200.7	OK
11.007	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	Pipe	67	61	127.097	123.195	0.664	162.154	0.5	0.26	255.1	OK
10.005	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	Pipe	61	60	126.697	123.182	0.705	309.799	1.0	0.48	478.3	OK
10.006	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	Pipe	60	59	125.750	123.171	0.759	333.081	1.0	0.42	511.8	OK
10.007	Sim Criteria FSR: 100 years: +45 %: 30 mins: Winter	Pipe	59	5	125.400	123.203	0.853	425.727	0.8	0.51	484.1	OK
1.013	Sim Criteria FSR: 100 years: +45 %: 30 mins: Winter	Pipe	5	Pond	124.093	123.181	0.721	1939.621	4.9	1.9	2219. 9	OK

225-205 : HARESHILL ROAD NORTH SOUTH HEYWOOD				Date: 11/11/2025									
				Designed by: JPR		Checked by: JCM						Approved By: JCM	
Report Details: Type: Connections Summary Storm Phase: 224-162 S.W NETWORK REV				AJP : 1 DALE STREET L2 2ET									

1.014	Sim Criteria FSR: 100 years: +45 %: 240 mins: Winter	Pipe	Pond	2	123.702	123.292	0.900	2459.936	0.5	0.06	106.5	Surcharged
1.015	Sim Criteria FSR: 100 years: +45 %: 240 mins: Winter	Pipe	2	1	124.472	123.291	0.101	2455.286	3.6	0.08	106.3	Surcharged
3.003	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	Pipe	S24	Dry Swale	131.250	131.073	0.300	0.000	1.5	0.41	102.5	Surcharged
3.004	Sim Criteria FSR: 100 years: +45 %: 30 mins: Summer	Pipe	Dry Swale	22	131.070	127.825	0.163	54.033	1.5	0.48	58.0	Surcharged