



Land North of The Rise, Littleworth Lane,
Partridge Green

Foul and Surface Water Drainage Statement

For

Macar Homes

Document Control Sheet

Land North of The Rise, Littleworth Lane,
Partridge Green
Macar Homes

This document has been issued and amended as follows:

Date	Issue	Prepared by	Approved by
17 th April 2026	Final	Chris Gray	Neil Jaques MCIWEM MCIHT
22 nd April 2026	Final B	Chris Gray	Neil Jaques MCIWEM MCIHT
24 th April 2026	Final C	Chris Gray	Neil Jaques MCIWEM MCIHT



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1.0 Introduction

- 1.1 Motion has been commissioned by Macar Homes to prepare this Foul and Surface Water Drainage Statement for a reserved matters application for Land North of The Rise, Littleworth Lane, Partridge Green ("the Site"). It presents information about the Drainage Strategy for an *Application for the approval of reserved matters (appearance, layout, scale and landscaping) for the development of 55 dwellings, all of which are to be delivered as 100% affordable housing, together with associated access, landscaping, open space and drainage infrastructure, pursuant to outline permission DC/22/0301.*
- 1.2 The approximately 4.24 hectares (ha) Site is located on the northern edge of the village of Partridge Green - within the administrative area of Horsham District in West Sussex - and comprises of an area of open land located north of The Rise and accessed from Littleworth Lane. A Site Location Plan is included in **Appendix A**. The proposed development Site Layout Plan is included in **Appendix B**.
- 1.3 The Drainage Strategy builds on the work prepared by *Stuart Michael Associates*¹ for Horsham District Council outline planning application Ref DC/22/0301 and provides a more detailed analysis of the Site with respect to the foul and surface water drainage.
- 1.4 The Appeal Decision Notice for outline planning application DC/22/0301 Referenced APP/Z3825/W/23/3324144 and Dated 27 May 2025 includes the conditions below.

Condition 13

No development shall commence until a detailed foul and surface water drainage scheme including a foul and Surface Water Drainage Statement, informed by Flood Risk Assessment and Drainage Statement Doc Issue 05 by Stuart Michael Associates SMA Ref: 6338.FRA&DS Jan 2022 based on sustainable drainage principles and an assessment of the hydrological and hydrogeological context of the development has been submitted to and approved in writing by the Local Planning Authority. The submitted details shall be fully coordinated with the landscape scheme. The development shall subsequently be implemented prior to first occupation in accordance with the approved details and thereafter retained as such.

Condition 21

No part of the development hereby permitted shall be occupied until a verification report demonstrating that the SuDS drainage system has been constructed in accordance with the approved design drawings and that report has been submitted to and approved by the Local Planning Authority. The development shall be maintained in accordance with the approved report.

- 1.5 This Drainage Strategy follows the guidance set out in:
- National Planning Policy Framework² (NPPF)
 - Planning Practice Guidance (PPG) to the NPPF
 - Relevant policies of the Horsham District Council Local Plan (2015 - 2031)
 - CIRIA C753 The SuDS Manual 2015
 - Environment Agency Rainfall Runoff Management for Developments
 - National standards for sustainable drainage systems (SuDS) Guidance Updated 30 July 2025

¹ *Stuart Michael Associates, Flood Risk Assessment and Drainage Statement, Land North of The Rise, Partridge Green, Prepared for Rydon Homes Ltd, Job No 6338, Document Issue 05, Dated 27.01.2022*

² <https://www.gov.uk/government/publications/national-planning-policy-framework--2>

- 1.6 This drainage strategy report pertains only to the design of the drainage system for the built Site. It does not provide details of how the Site will be drained during the construction phase. This is considered to be temporary works and can only be prescribed and provided by the eventual appointed contractor.
- 1.7 Similarly, this report does not provide information on how the drainage infrastructure will be protected during the construction phase of the project. The provision of this information will be the responsibility of the appointed contractor.

2.0 Condition 13 Foul Drainage Scheme

- 2.1 The Foul Drainage Scheme is shown in *Motion drawing number 2510074-0502-P02 [Drainage Strategy]* in **Appendix C**.
- 2.2 The Site will drain by gravity to the existing Southern Water 150mm diameter pitch fibre public foul water sewer in Littleworth Lane downstream of existing manhole 2601.
- 2.3 The Southern Water consultation response for outline planning application DC/22/0301 Referenced DSA000010928 and Dated 10/05/2022 stated "*Our investigations indicate that Southern Water can facilitate foul sewerage disposal to service the proposed development. Southern Water requires a formal application for a connection to the public sewer to be made by the applicant or developer*".

3.0 Condition 13 Surface Water Drainage Scheme

- 3.1 The Site will drain to 2 no. surface water attenuation basins as shown in *Motion drawing number 2510074-0502-P02 [Drainage Strategy]* in **Appendix C**.
- 3.2 With reference to the proposed exceedance flow routes in the Drainage Strategy in **Appendix C**, it is possible for the Site to drain to the attenuation basins.
- 3.3 The *Stuart Michael Associates* Flood Risk Assessment and Drainage Statement for Horsham District Council outline planning application Ref DC/22/0301 proposed to discharge to the existing ditch running along the northern Boundary of the Site at a rate of 3.5 l/s for up to the 1 in 100 + 40% cc year critical rainfall event based on the 2008 QMED Method and an impermeable area of 1 ha.
- 3.4 With reference to the Greenfield Runoff Rate Estimation in **Appendix C**, based on using the most up to date FEH Statistical 2025 Method, it is now proposed to discharge to the existing ditch running along the northern Boundary of the Site at a rate of 7.7 l/s for up to the 1 in 100 + 45% cc year critical rainfall event for an impermeable area of 1 ha using a HydroBrake Flow Control.
- 3.5 Hydraulic calculations for 1 in 2, 1 in 30 + 40% and 1 in 100 + 45% critical rainfall events³ using FEH 2022 data, **and including a 10% allowance for Urban Creep**, are included in **Appendix D**.
- 3.6 The InfoDrainage model pdf output for the 1 in 2, 1 in 30 + 40% and 1 in 100 + 45% critical rainfall events using the updated FEH 2022 data shows no surcharge for the 1 in 2 year critical event (except for the flow control manhole); no flooding for the 1 in 30 + 40% critical event; and negligible flooding at a single manhole (S11) for the 1 in 100 + 45% critical event. It is also important to note that the 0.238 ha area of proposed pervious pavements will provide around 214m³ additional long term storage that has not been included in the InfoDrainage model.
- 3.7 The Coefficient for Volumetric Runoff (Cv) for calculating surface water runoff from the proposed impermeable surfaces has been set to 1.0, except for the proposed pervious pavement areas. The Interpave document Guide to the Design, Construction and Maintenance of Concrete Block Permeable Pavements edition 6 states "Concrete block permeable pavements reduce the volume of rainfall that flows out from them significantly and the time it takes for the water to flow out is much longer than for conventional drainage systems. Studies reported in CIRIA report C 582 (CIRIA, 2001) have shown that some 11% to 45% of rainfall flows out from the pavement during a rainfall event. Subsequently over the 2 to 4 days after an event, more water flows out to give a total outfall of between 55% and 100%". On this basis, it is concluded that the long-term storage volumes provided by the 0.238 ha area of proposed pervious pavements are likely to be more than what is indicated by the half drain times in the hydraulic calculations, and volumetric runoff coefficients of 0.75 and 0.84 for the summer and winter scenarios have been used in the model to more accurately reflect this.
- 3.8 Please see *Motion drawing numbers 2510074-9001-P05 [Proposed Site Levels]* and *2510074-9002-P02 [Indicative Pond Sections]* in **Appendix E**.
- 3.9 Areas of proposed hardstanding will be designed to comply with building regulations and divert water away from the proposed buildings and a minimum of 300mm freeboard will be provided between the design event water level in the low point of the proposed surface water drainage system and the finished ground floor levels.
- 3.10 Please see the Drainage Strategy in **Appendix C** showing the estimated Surface Water Flood Zone Extent based on the Risk of Flooding from Surface Water - Climate Change 1 Dataset published by the EA (Revision date 17 September 2025) downloaded from the Defra Data Services Platform⁴. This dataset shows the overall risk, rather than the risk associated with a specific event or scenario, and includes the 'Central' climate change allowance for the 2050s epoch (2040-2060) for the risk of flooding from surface

³ <https://environment.data.gov.uk/hydrology/climate-change-allowances/rainfall>

⁴ <https://environment.data.gov.uk/dataset/e5b38de2-99b3-44ee-b10c-b244926878ef>

water. The Low surface water flood risk extent (between 0.1% and 1% chance of flooding each year) encroaches slightly on both the Basin A and B top of banks. However, on the basis the maximum water depth in Basin A is only around 200mm during the 1 in 100 + 45% critical event, and Basin B has 150mm freeboard over and above the calculated 818m³ volume in *Motion drawing number 2510074-9001-P05 [Proposed Site Levels]* in **Appendix E**, it is assessed that both Basins have sufficient additional capacity should the Low surface water flood risk extent encroach on the Basins.

- 3.11 The Desk Study, Site Investigation & Risk Assessment Report⁵ prepared for the Site encountered low permeability clay soils and has been submitted for the reserved matters application.
- 3.12 Gully and linear drainage channels are required to convey surface water for up to the 100 year + 45% climate change critical flow rate. Construction details and supporting calculations are to be provided at the detailed design stage.
- 3.13 The top surface of the pervious pavement should finish at least 150mm below any adjoining DPC level. Advice should always be sought from the manufacturer. Construction details for the Source Control SuDS are to be provided at the detailed design stage. The Source Control SuDS have been located to integrate with and not compromise the function of the natural drainage systems and will also receive exceedance flows.
- 3.14 Whilst the drainage strategy for the Site has been designed to current standards, there would remain a small residual risk of flooding due to blockage or failure of on-site infrastructure in the future. Therefore, appropriate and regular maintenance of the drainage infrastructure should be undertaken.
- 3.15 To assist with this process, *Motions Drainage Management and Maintenance Plan*⁶ has been submitted for the reserved matters application, which sets out the principles for the long-term management and maintenance of the proposed surface water drainage system on the development. The purpose of this document is to ensure that those responsible for Site maintenance have a robust inspection and maintenance plan going forwards. This will help ensure the optimum operation of the surface water drainage system and that it will be regularly maintained for the lifetime of the development. This will contribute to reducing the risk of surface water flooding both on and off-site.

⁵ Southern Testing Laboratories Ltd, *Desk Study, Site Investigation & Risk Assessment Report*, Project ID: J15783, Report Date: 16 April 2025, Report Issue: 2

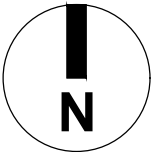
⁶ Motion, *Drainage Management and Maintenance Plan*, Referenced mapart 2510074, Dated 17/04/2026

4.0 Conclusions

- 4.1 This Foul and Surface Water Drainage Statement presents information for a Reserved Matters Planning Application following the Outline Approval (ref: APP/Z3825/W/23/3324144).
- 4.2 Notwithstanding that areas of proposed hardstanding will be designed to comply with building regulations and divert water away from the proposed buildings, it is a requirement of the drainage strategy that Site levels integrate with and not compromise the function of the natural drainage systems; 0.238 ha of hard landscaping areas will be constructed as pervious; and overall the SuDS system will have capacity that can accommodate rainfall for the 100 year + 45% allowance for climate change critical rainfall event with negligible flooding.
- 4.3 The drainage strategy will use pervious pavements and 2 no. surface water attenuation basins for the attenuation of surface water runoff from the development. A HydroBrake Flow control chamber will control discharge from Basin B to the existing ditch running along the northern Boundary of the Site.
- 4.4 The results of the hydraulic modelling show that the drainage strategy can attenuate and discharge surface water generated in the 1 in 100-year + 45% cc critical rainfall event with a 10% allowance for urban creep with negligible flooding. This manages flood risk on and off-site and reduces overall local flood risk.
- 4.5 Residual risk has been addressed through the development of a drainage management and maintenance plan that provides a framework through which the Site's drainage system should be managed in perpetuity.
- 4.6 In conclusion, this report presents information about the Foul and Surface Water Drainage Statement for a reserved matters application. The foul and surface water drainage scheme has been demonstrated to meet the requirements of the Flood Risk Assessment approved as part of the outline planning permission, the LLFA and NPPF.

Appendix A

Site Location Plan and Topographical Survey



Client's Name
Macar

Drawing Title
Location Plan

Drawn
MC

Checked
KE

Date
19.03.26

Rev	Date	Revision Details	Dr	Ch
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Job Title
**Land North of The Rise,
Partridge Green**

Scale
1:1250 @ A3

metres 10 20 30 40 50

Job No
7668

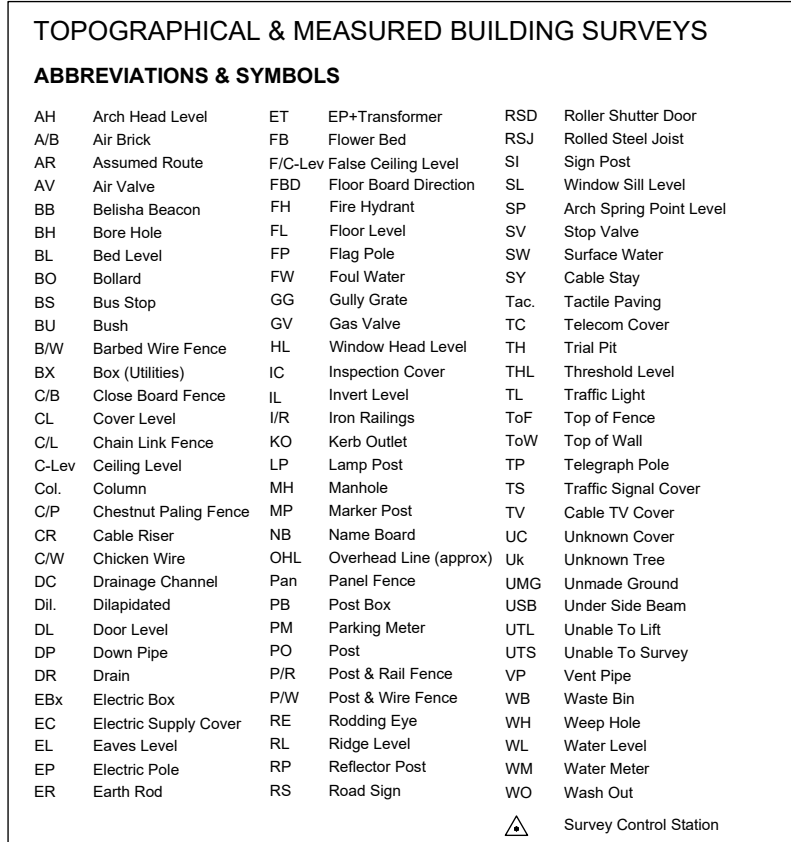
Drawing No
PL-01

Rev

Status

INFORMATION





Topographical Surveys

Trees are drawn to scale showing the average canopy spread. Descriptions and heights should be used as a guide only.

All building names, descriptions, number of storeys, construction type including roof line details are indicative only and taken externally from ground level.

All below ground details including drainage, voids and services have been identified from above ground and therefore all details relating to these features including; sizes, depth, description etc will be approximate only. All critical dimensions and connections should be checked and verified prior to starting work.

Detail, services and features may not have been surveyed if obstructed or not reasonably visible at the time of the survey.

Surveyed physical features may not necessarily represent the legal boundary line.

Measured Building Surveys

Measurements to internal walls are taken to the wall finishes at approx 1m above the floor level and the wall assumed to be vertical.

General

The contractor must check and verify all site and building dimensions, levels, utilities and drainage details and connections prior to commencing work. Any errors or discrepancies must be notified to Survey Solutions immediately.

The accuracy of the digital data is the same as the plotting scale implies. All dimensions are in metres unless otherwise stated.

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This drawing should only be scaled using digital methods.

SURVEY CONTROL CO-ORDINATES				
STATIONS	EASTINGS	NORTHINGS	LEVEL	DESCRIPTION
ST01	519313.006	119545.993	14.486	PK Nail
ST02	519365.915	119655.320	16.715	PK Nail
ST03	519412.795	119726.716	17.276	PK Nail
ST04	519455.976	119754.751	16.888	PK Nail
ST05	519511.150	119806.507	16.726	PK Nail
ST10	519246.908	119758.785	14.841	PK Nail
ST11	519240.871	119813.841	13.923	PK Nail
ST12	519238.738	119844.631	12.636	PK Nail

SURVEY GRID AND LEVEL DATUM

The coordinate system established for this survey is related to Ordnance Survey (OS) National Grid at multiple points using GNSS with a scale factor of 1.000.

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REV	DESCRIPTION	DRAWN	APPR	DATE
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PROJECT TITLE
LAND NORTH OF THE RISE, PARTRIDGE GREEN

WEST SUSSEX

DRAWING DETAIL
TOPOGRAPHICAL SURVEY
Sheet 1 of 5

CLIENT	SCALE
B. MONTAGNER	1.000

B.YOND HOMES LTD				1:200
SURVEYOR	SURVEY DATE	CHECKED BY	APPROVED BY	DWG STATUS

JGA	02/09/2025	AK	SB	FINAL
DRAWING NUMBER			REVISION	ISSUE DATE

80824BWLS-01		09/09/2025
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SURVEY CONTROL CO-ORDINATES				
STATIONS	EASTINGS	NORTHINGS	LEVEL	DESCRIPTION
ST01	519313.006	195645.693	14.486	PK Nail
ST02	519365.915	195655.320	16.715	PK Nail
ST03	519412.798	195663.316	17.276	PK Nail
ST04	519455.976	195674.751	16.888	PK Nail
ST05	519511.150	195686.507	16.726	PK Nail
ST10	519246.908	195758.785	14.841	PK Nail
ST11	519240.871	195813.441	13.923	PK Nail
ST12	519238.738	195844.631	12.636	PK Nail

The level datum established for this survey is related to Ordnance Survey (OS) National Grid at multiple points using GNSS with a scale factor of 1.000.

V	DESCRIPTION	DRAWN	APPR	DATE
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PROJECT TITLE
LAND NORTH OF THE RISE, PARTRIDGE GREEN

WEST SUSSEX

TOPOGRAPHICAL SURVEY
Sheet 2 of 5

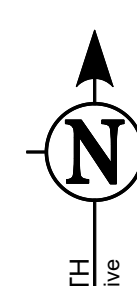
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IGA	02/09/2025	AK	SB	FINAL
DRAWING NUMBER			REVISION	ISSUE DATE

00824BWLS-02		09/09/2025
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Topographical Surveys

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Measurements to internal wall

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10. *Journal of the American Medical Association*, 2000; 283: 2689-2694.

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Year	Geography	Country	Age	Unit
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PROJECT TITLE
LAND NORTH OF THE RISE, PARTRIDGE GREEN

WEST SUSSEX

DRAWING DETAIL
TOPOGRAPHIC

Sheet 3 of 5

CLIENT
B.YOND HOMES LTD

SURVEYOR	SURVEY DATE
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JGA	02/09/2025
DRAWING NUMBER	

80824BWLS-03



**CARTOGRAPHIC
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ABBREVIATIONS & SYMBOLS

AA	Arch Neck Line	ET	ET/Transformer	RSD	Roller Shoulder Dots
AB	Arm Back	FL	Flower Back	RSB	Roller Side Back
AC	Arm Cap	FL	Flower Front	SS	Shawl
AK	Arm Hole	FLD	Flow Direction	SL	Shawl Side Line
AL	Arm Line	FL	Flow Line	SLV	Skirt
AM	Arm Value	FL	Flow Direction	SV	Skirt Value
AN	Arm Neck	FL	Flow Neck	SVL	Skirt Value Line
BO	Bodice	FL	Flow Value	SY	Skirt Yoke
BS	Bus Stop	FL	Flow Value	TC	Tailor's Cut
BS	Bus Stop	FL	Flow Value	TC	Tailor's Cut
BW	Belted Waist Flare	FL	Waistline Neck	TH	Throat
CA	Cape	FL	Cape	TH	Throat
CB	Cape	FL	Cape	TH	Throat
CC	Cape	FL	Cape	TH	Throat
CD	Cape	FL	Cape	TH	Throat
CE	Cape	FL	Cape	TH	Throat
CF	Cape	FL	Cape	TH	Throat
CG	Cape	FL	Cape	TH	Throat
CH	Cape	FL	Cape	TH	Throat
CI	Cape	FL	Cape	TH	Throat
CJ	Cape	FL	Cape	TH	Throat
CK	Cape	FL	Cape	TH	Throat
CL	Cape	FL	Cape	TH	Throat
CM	Cape	FL	Cape	TH	Throat
CN	Cape	FL	Cape	TH	Throat
CO	Cape	FL	Cape	TH	Throat
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CV	Cape	FL	Cape	TH	Throat
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EM	Elastic	FL	Elastic	TH	Throat
EN	Elastic	FL	Elastic	TH	Throat
EO	Elastic	FL	Elastic	TH	Throat
EP	Elastic	FL	Elastic	TH	Throat
EQ	Elastic	FL	Elastic	TH	Throat

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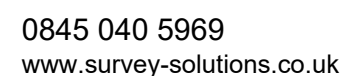
SURVEY CONTROL CO-ORDINATES				
STATIONS	EASTINGS	NORTHINGS	LEVEL	DESCRIPTION
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ST11	519240.871	119813.841	13.923	PK Nail
ST12	519238.738	119844.632	12.636	PK Nail

The coordinate system established for this survey is related to Ordnance Survey (OS) National Grid at multiple points using GNSS with a scale factor of 1.000.

The level datum established for this survey is related to Ordnance Survey (OS) using GPS Smartnet.

To avoid discrepancies within the survey, adding to the survey or setting out point from the survey, any coordinated data must be directly derived from the original survey control. Survey Solutions are not responsible for any third-party adding survey data to the existing information.

REV	DESCRIPTION	DRAWN	APPR	DATE
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PROJECT TITLE
LAND NORTH OF THE RISE, PARTRIDGE GREEN

WEST SUSSEX

Sheet 3 of 5

CLIENT B.YOND HOMES LTD				SCALE 1:200
SURVEYOR JGA	SURVEY DATE 02/09/2025	CHECKED BY AK	APPROVED BY SB	DWG STATUS FINAL
DRAWING NUMBER 80824BWLS-04			REVISION	ISSUE DATE 09/09/2025

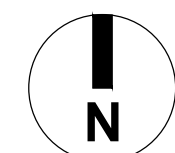


Appendix B

Proposed Site Layout

CDM 2015 Health & Safety Information

This information relates only to 'Significant Hazards' identified on this drawing and is to be read in conjunction with the Designer's Hazard Register.



Accommodation Schedule

2no. FT01 1 Bedroom Maisonettes
2no. FT02 1 Bedroom Maisonettes
3no. BT01 2 Bedroom Bungalows
3no. BT02 2 Bedroom Bungalows
6no. HT01 2 Bedroom Houses
5no. HT02 2 Bedroom Houses
8no. HT03 2 Bedroom Houses
9no. HT04 3 Bedroom Houses
7no. HT05 3 Bedroom Houses
4no. HT06 4 Bedroom Houses
4no. HT07 4 Bedroom Houses
2no. HT08 4 Bedroom Houses

55no. Total Dwellings

2m wide service zone
shown to north of primary
access road

Access to adjoining site

Power lines to be grounded and
routed through development

Proposed sub-station
position

Grounding Point

G	17.04.26	HT02, HT07, HT08 Amended. Plot 18-19 Detached	MC	KE
F	01.04.26	Attenuation Basins Amended	MC	KE
E	30.03.26	Landscape Updated	MC	KE
D	27.03.26	Existing Garden Boundaries Added	MC	KE
C	26.03.26	Landscape Updated	MC	KE
B	25.03.26	Plots 25 and 30-32 Amended	MC	KE
A	23.02.26	Annotations Amended	MC	KE
Rev	Date	Revision Details	Dr	Ch



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Client's Name

Macar

Job Title

Land North of The Rise
Partridge Green

Drawing Title

Site Layout

Scale
1:500 @ A1 / 1:1000 @ A3

metres 10 20 30 40 50

Drawn	Checked	Date
KE	AK	16.01.26

Job No	Drawing No	Rev
7668	PL-03	G

Status

APPROVAL

CAD Plot date: 17/04/2026 - 11:57:17

7668 - site.dwg

Self-Binding Gravel

Informal
Open Space

Attenuation
Basin

Informal
Open Space

Pedestrian footpath from
site to join to existing
footpath at The Rise

Informal
Open Space

Natural Play
Space & Trim
Trail

Attenuation
Basin

Informal
Open Space

Appendix C

Drainage Strategy Drawing



Glass reinforced cement headwall outfall for 150mmØ pipe installed in accordance with manufacturers requirements

CL 10.780
IL 10.430

Flow Control chamber - Hydro-Brake

CL 11.85
IL 10.61
restricting flows to:

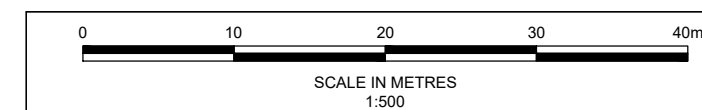
7.7 l/s for the 2 year flow rate
7.7 l/s for the 30 year + 40% cc flow rate
7.7 l/s for the 100 year + 45% cc flow rate

EX SW MH 2601
Cover Level: 12.40m AOD
Invert Level: 10.15m AOD

Option for Public Foul Sewer Connection

90 Degree Angle Curved Square Junction Connection to the Public Sewer

Invert Level of the Public Sewer at the Point of Connection to be Confirmed Before Works Commence



- Notes
- All levels and dimensions are to be checked on site before any work commences. All dimensions are in metres unless stated otherwise.
 - Any discrepancies shall be reported to the engineer immediately, so that clarification can be sought prior to the commencement of works.
 - This drawing shall be read in conjunction with all other relevant engineering details, drawings and specification.
 - The contractor is to keep a record of any variations made on site, including the relocation of sewers or drains, for their 'as built' drawings to be prepared upon project completion.
 - All works to adopted systems are to be carried out in accordance with Sewerage Sector Guidance Appendix C, Approved Version 2.1, 25 May 2021. All works to private drainage systems are to be in accordance with the Building Regulations Approved Document Part 'H' 2015 edition.
 - 900mm min cover to be provided for private pipes laid beneath agricultural land and public open space unless not practicable. 1200mm min cover to be provided for highways and parking areas with unrestricted access to vehicles with a gross vehicle weight in excess of 7.5 tonnes unless not practicable. Where unachievable, shallow private drains may require protection using ductile iron pipe, concrete surround or concrete slabs bridging the trench, subject to the NIRC Inspector's requirements.
 - All pipes shall be laid soffit to soffit with outgoing pipes unless otherwise stated.
 - Manholes situated within areas accessible to motor vehicles are to be fitted with suitable strength covers and frames. Please refer to the manhole schedule for guidance on this.
 - Areas of proposed handstanding will be designed to comply with building regulations and divert water away from the proposed buildings and a minimum of 300mm freeboard will be provided between the design event water levels in the low points of the proposed surface water drainage systems and the finished floor levels.
 - The top surface of the pervious pavements should finish at least 150mm below any adjoining DPC level. Advice should always be sought from the manufacturer. Construction details for the Source Control SuDS are to be provided at the detailed design stage.
 - Gully and linear drainage channels are required to convey surface water for up to the 100 year + 45% climate change critical flow rate. Construction details and supporting calculations are to be provided at the detailed design stage.

Legend

- Site Boundary
- Indicative Existing Southern Water Foul Sewer and Manhole
- Exceedance Flow Route
- Proposed Surface Water Gravity Pipe
- Proposed Surface Water Manhole (1200Ø Unless Otherwise Stated)
- Proposed Headwall
- EA Risk of Flooding from Surface Water - Climate Change 1 - shows the overall risk, rather than the risk associated with a specific event or scenario - includes the 'Central' climate change allowance for the 2050s epoch (2040-2060) for risk of flooding from surface water - Revision Date 17 September 2023
- Surface Water Attenuation Basin
- Proposed Foul Water Gravity Pipe
- Proposed Foul Water Manhole (1200Ø Unless Otherwise Stated)
- New Surface Water HydroBrake Flow Control Chamber - Refer to InfoDrainage Calculations for 100 + 45% climate change critical flow rate
- Pervious Pavement
- 3m Surface Water Attenuation Basin Easement
- Indicative Surface Water Gully Location

P02 Updated Site Layout	ST	CG	N3	22/04/2026
P01 First Issue	ST	CG	N3	17/04/2026
Rev. Description	Drm	Chk	App	Date

Drawing Status:

FOR PLANNING
NOT FOR CONSTRUCTION

motion
Guldford - Reading - London
www.motion.co.uk

Client:

Macar

Project:

Land to the North of The Rise,
Littleworth Lane, Partridge Green

Title:

Drainage Strategy

Scale: 1:500 (@ A1)

Drawing:
2510074-0502

Revision:
P02

Appendix D

Greenfield Runoff Rate Estimation Based on FEH Statistical 2025 and Hydraulic Calculations

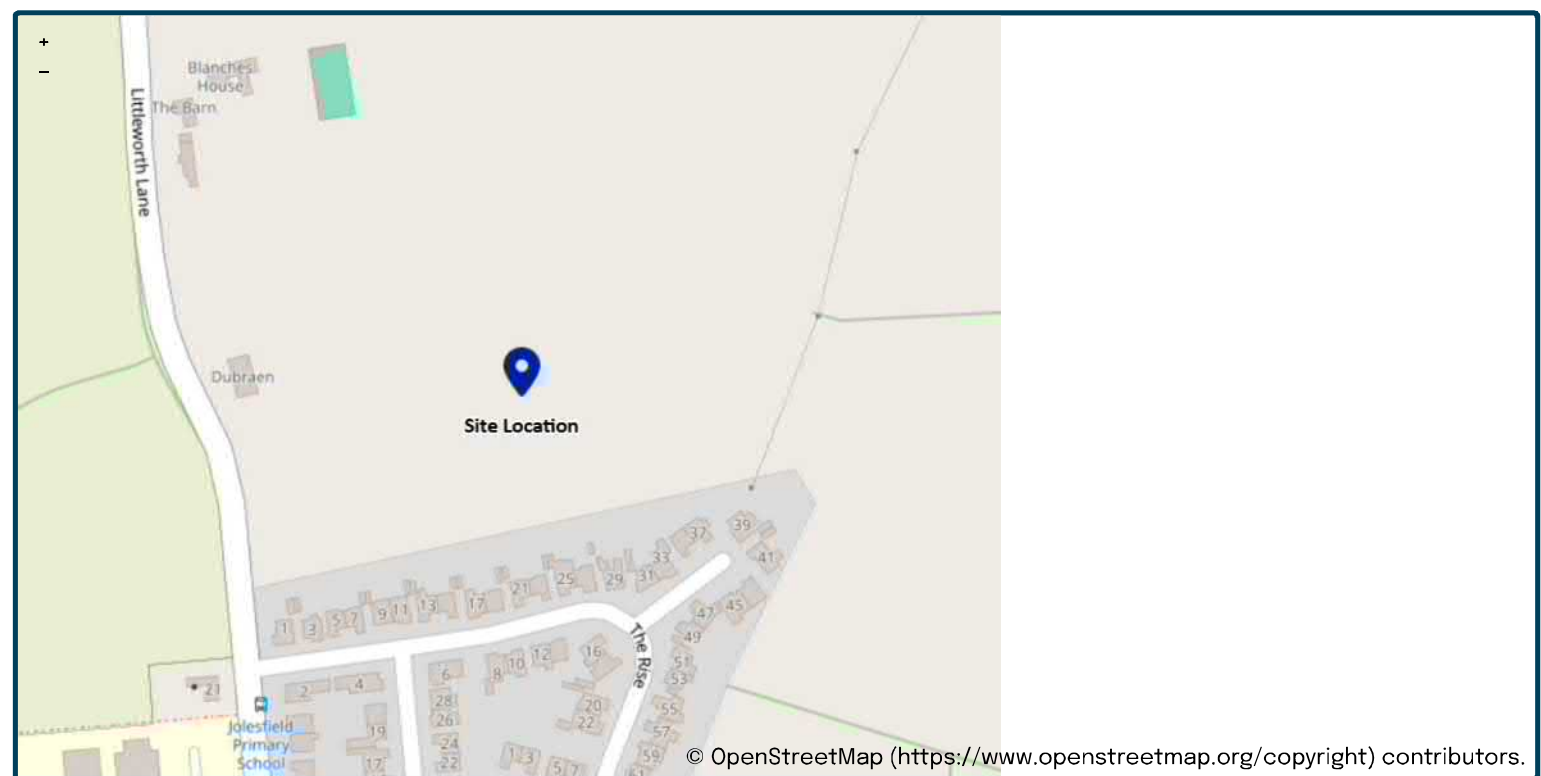
This is an estimation of the greenfield runoff rates that are used to meet normal best practice criteria in line with Environment Agency guidance “Rainfall runoff management for developments”, SC030219 (2013), the SuDS Manual C753 (CIRIA, 2015) and the non-statutory standards for SuDS (Defra, 2015). This information on greenfield runoff rates may be the basis for setting consents for the drainage of surface water runoff from sites.

Project details

Date	17/04/2026
Calculated by	Chris Gray
Reference	mapart 2510074
Model version	2.2.3

Location

Site name	Land to the North of The Rise,
Site location	Littleworth Lane, Partridge Green



Site easting (British National Grid)	519435
Site northing (British National Grid)	119674

Site details

Total site area (ha)	1	ha
----------------------	--------------------------------	----

Greenfield runoff

Method

Method	FEH statistical (2025)
--------	-----------------------------------

FEH statistical (2025)

	My value		Map value
SAAR9120 (mm)	824		mm
BFIHOST19scaled	0.236		
QMed-QBar conversion	1.136		1.136
QMed (l/s)	7.7	l/s	
QBar (FEH statistical 2025) (l/s)	8.7	l/s	

Growth curve factors

	My value		Map value
Hydrological region	7		7
1 year growth factor	0.85		
2 year growth factor	0.88		
10 year growth factor	1.62		
30 year growth factor	2.3		
100 year growth factor	3.19		
200 year growth factor	3.74		

Results

Method	FEH statistical (2025)	
Flow rate 1 year (l/s)	7.4	l/s
Flow rate 2 year (l/s)	7.7	l/s
Flow rate 10 years (l/s)	14.2	l/s
Flow rate 30 years (l/s)	20.1	l/s
Flow rate 100 years (l/s)	27.9	l/s
Flow rate 200 years (l/s)	32.7	l/s

Please note runoff estimation is subject to significant uncertainty. Results are therefore normally reported to only 1 decimal place. Where 2 decimal places are provided, this does not indicate accuracy to this level, it has been adopted to prevent ‘zero’ figures from being reported. Outputs less than 0.01 l/s are reported as 0.01 l/s.

Disclaimer

This report was produced using the Greenfield runoff rate estimation tool (2.2.3) developed by HR Wallingford and available at uksuds.com (<https://www.uksuds.com/>). The use of this tool is subject to the UK SuDS terms and conditions and licence agreement, which can both be found at uksuds.com/terms-conditions (<https://www.uksuds.com/terms-conditions>). The outputs from this tool have been used to estimate Greenfield runoff rates. The use of these results is the responsibility of the users of this tool. No liability will be accepted by HR Wallingford, the Environment Agency, Centre for Ecology and Hydrology, Wallingford Hydrosolutions or any other organisation for the use of these data in the design or operational characteristics of any drainage scheme.

Land to the North of The Rise,: Littleworth Lane, Partridge Green	Date: 24/04/2026		
	Designed by: Chris Gray	Checked by:	Approved By:
Report Details: Type: Junctions Storm Phase: Phase	Motion: 84 North Street Guildford Gu1 4AU		



Name	Junction Type	Easting (m)	Northing (m)	Cover Level (m)	Depth (m)	Invert Level (m)	Chamber Shape	Diameter (m)	Lock
S1	Manhole	519304.871	119625.494	12.860	1.500	11.360	Circular	1.200	None
S2	Manhole	519316.387	119629.604	12.900	1.705	11.195	Circular	1.200	None
S3	Manhole	519314.811	119634.759	12.900	1.750	11.150	Circular	1.200	None
S6 (FC)	Manhole	519355.999	119707.580	11.850	1.240	10.610	Circular	1.200	None
S7 (HW Outfall)	Simple Junction	519343.047	119730.869						
S17	Manhole	519332.045	119630.458	13.400	1.760	11.640	Circular	1.200	None
S16	Manhole	519340.004	119643.377	13.500	1.750	11.750	Circular	1.200	None
S15	Manhole	519358.813	119639.637	14.200	2.255	11.945	Circular	1.200	None
S14	Manhole	519367.737	119639.282	14.640	2.605	12.035	Circular	1.200	None
S13	Manhole	519384.503	119649.837	15.180	2.945	12.235	Circular	1.200	None
S12	Manhole	519434.699	119683.078	14.460	1.780	12.680	Circular	1.200	None
S11	Manhole	519448.823	119687.290	14.360	1.580	12.780	Circular	1.200	None
S10	Manhole	519470.282	119687.335	14.660	1.575	13.085	Circular	1.200	None
S9	Manhole	519486.549	119687.933	14.980	1.575	13.405	Circular	1.200	None
S8	Manhole	519542.559	119702.390	15.960	1.350	14.610	Circular	1.200	None
S18	Manhole	519541.698	119715.597	15.600	1.200	14.400	Circular	1.200	None
S19	Manhole	519540.007	119728.341	15.500	1.200	14.300	Circular	1.200	None
S20	Manhole	519545.256	119735.553	14.900	1.200	13.700	Circular	1.200	None
S21	Manhole	519535.936	119743.832	14.100	1.200	12.900	Circular	1.200	None
S24	Manhole	519459.588	119734.164	12.400	1.000	11.400	Circular	1.200	None
S25	Manhole	519457.864	119730.508	12.500	1.165	11.335	Circular	1.200	None
S26	Manhole	519440.252	119725.761	12.300	0.980	11.320	Circular	1.200	None
S27	Manhole	519430.899	119732.335	12.000	0.820	11.180	Circular	1.200	None
S28	Manhole	519384.669	119718.338	12.100	1.315	10.785	Circular	1.200	None
S29	Manhole	519489.547	119732.395	13.050	0.650	12.400	Circular	1.200	None
S30	Manhole	519487.346	119733.856	12.900	0.650	12.250	Circular	1.200	None
S31	Manhole	519454.316	119727.503	12.550	0.650	11.900	Circular	0.600	None
Simple Junction 1	Simple Junction	519452.128	119728.962						
Simple Junction 2	Simple Junction	519422.255	119729.718						
S32	Manhole	519428.147	119720.863	12.400	0.650	11.750	Circular	0.600	None
S33	Manhole	519372.645	119696.165	12.900	1.750	11.150	Circular	1.200	None
S34	Manhole	519373.104	119707.413	12.400	1.350	11.050	Circular	1.200	None

Land to the North of The Rise,: Littleworth Lane, Partridge Green	Date: 24/04/2026		
	Designed by: Chris Gray	Checked by:	Approved By:
	Report Details: Type: Junctions Storm Phase: Phase		
Motion: 84 North Street Guildford Gu1 4AU			



Simple Junction 3	Simple Junction	519368.690	119708.287						
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Inlets

Junction	Inlet Name	Incoming Item(s)	Bypass Destination	Capacity Type
S1	Inlet	Catchment Area (34)	(None)	No Restriction
S2	Inlet	1.000	(None)	No Restriction
	Inlet (1)	2.009	(None)	No Restriction
S3	Inlet	1.001	(None)	No Restriction
S6 (FC)	Inlet	1.003	(None)	No Restriction
S7 (HW Outfall)	Inlet	1.004	(None)	No Restriction
S17	Inlet	2.008	(None)	No Restriction
S16	Inlet	2.007 Catchment Area (33)	(None)	No Restriction
	Inlet (1)	Catchment Area (6)	(None)	No Restriction
S15	Inlet	2.006 Catchment Area (51)	(None)	No Restriction
S14	Inlet	2.005	(None)	No Restriction
	Inlet (1)	Catchment Area (5) Catchment Area (52)	(None)	No Restriction
S13	Inlet	2.004 Catchment Area (24) Catchment Area (25)	(None)	No Restriction
		Catchment Area (7) Catchment Area (30) Catchment Area (31) Catchment Area (53) Catchment Area (54) Catchment Area (55)	(None)	No Restriction
	Inlet (2)	Catchment Area (29)	(None)	No Restriction
	S12	Inlet	2.003	(None)
Inlet (1)		Catchment Area (8) Catchment Area (28) Catchment Area (56) Catchment Area (57)	(None)	No Restriction

Land to the North of The Rise,: Littleworth Lane, Partridge Green	Date: 24/04/2026		
	Designed by: Chris Gray	Checked by:	Approved By:
Report Details: Type: Junctions Storm Phase: Phase	Motion: 84 North Street Guildford Gu1 4AU		



Junction	Inlet Name	Incoming Item(s)	Bypass Destination	Capacity Type
	Inlet (2)	Catchment Area (9)	(None)	No Restriction
	Inlet (3)	Catchment Area (10)	(None)	No Restriction
S11	Inlet	2.002 Catchment Area (21) Catchment Area (23) Catchment Area (11)	(None)	No Restriction
	Inlet (1)	Catchment Area (58)	(None)	No Restriction
S10	Inlet	2.001	(None)	No Restriction
	Inlet (1)	Catchment Area (15) Catchment Area (17) Catchment Area (16) Catchment Area (59)	(None)	No Restriction
	Inlet (2)	Catchment Area (22)	(None)	No Restriction
S9	Inlet	2.000 Catchment Area (20)	(None)	No Restriction
	Inlet (1)	Catchment Area (4) Catchment Area (18) Catchment Area (12) Catchment Area (14) Catchment Area (32) Catchment Area (60) Catchment Area (61) Catchment Area (62) Catchment Area (63)	(None)	No Restriction
S8	Inlet	Catchment Area (64) Catchment Area (19) Catchment Area (65)	(None)	No Restriction
S18	Inlet	Catchment Area (13) Catchment Area (67) Catchment Area (66)	(None)	No Restriction
S19	Inlet	3.000 Catchment Area (49) Catchment Area (50)	(None)	No Restriction
S20	Inlet	3.001	(None)	No Restriction
S21	Inlet	3.002	(None)	No Restriction

Land to the North of The Rise,: Littleworth Lane, Partridge Green	Date: 24/04/2026		
	Designed by: Chris Gray	Checked by:	Approved By:
	Report Details: Type: Junctions Storm Phase: Phase		
		Motion: 84 North Street Guildford Gu1 4AU	



Junction	Inlet Name	Incoming Item(s)	Bypass Destination	Capacity Type
S24	Inlet	3.004	(None)	No Restriction
S25	Inlet	3.005 Catchment Area (45)	(None)	No Restriction
	Inlet (1)	4.001	(None)	No Restriction
S26	Inlet	3.006 (1)	(None)	No Restriction
S27	Inlet	3.007	(None)	No Restriction
S28	Inlet	3.008 (1)	(None)	No Restriction
S29	Inlet	Catchment Area (3) Catchment Area (47) Catchment Area (48) Catchment Area (68) Catchment Area (69)	(None)	No Restriction
S30	Inlet	4.000	(None)	No Restriction
S31	Inlet	Catchment Area (2) Catchment Area (46) Catchment Area (70)	(None)	No Restriction
	Inlet (1)	Catchment Area (26)	(None)	No Restriction
Simple Junction 1	Inlet	3.006	(None)	No Restriction
	Inlet (1)	5.000	(None)	No Restriction
Simple Junction 2	Inlet	3.008	(None)	No Restriction
	Inlet (1)	6.000	(None)	No Restriction
S32	Inlet	Catchment Area (1) Catchment Area (27) Catchment Area (43) Catchment Area (44)	(None)	No Restriction
	Inlet (1)	Catchment Area (71)	(None)	No Restriction

Land to the North of The Rise,: Littleworth Lane, Partridge Green	Date: 24/04/2026		
	Designed by: Chris Gray	Checked by:	Approved By:
	Report Details: Type: Junctions Storm Phase: Phase		
		Motion: 84 North Street Guildford GU1 4AU	



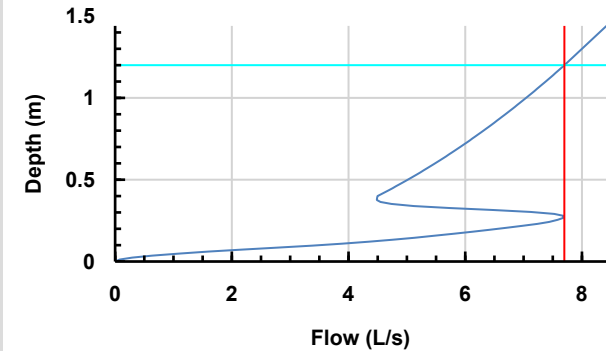
Junction	Inlet Name	Incoming Item(s)	Bypass Destination	Capacity Type
S33	Inlet	Catchment Area Catchment Area (35) Catchment Area (36) Catchment Area (37) Catchment Area (38) Catchment Area (40) Catchment Area (72) Catchment Area (73) Catchment Area (39) Catchment Area (74)	(None)	No Restriction
	Inlet (1)	Catchment Area (41) Catchment Area (42)	(None)	No Restriction
S34	Inlet	7.000	(None)	No Restriction
Simple Junction 3	Inlet	3.009	(None)	No Restriction
	Inlet (1)	7.001	(None)	No Restriction

Outlets

Junction	Outlet Name	Outgoing Connection	Outlet Type
S1	Outlet	1.000	Free Discharge
S2	Outlet	1.001	Free Discharge
S3	Outlet	1.002	Free Discharge
	Outlet	1.004	Hydro-Brake®

Land to the North of The Rise,: Littleworth Lane, Partridge Green	Date: 24/04/2026		
	Designed by: Chris Gray	Checked by:	Approved By:
Report Details: Type: Junctions Storm Phase: Phase	Motion: 84 North Street Guildford Gu1 4AU		



Junction	Outlet Name	Outgoing Connection	Outlet Type
S6 (FC)	Invert Level (m)	10.610	
	Design Depth (m)	1.200	
	Design Flow (L/s)	7.7	
	Objective	Minimise Upstream Storage Requirements	
	Application	Surface Water Only	
	Sump Available	☐	
	Unit Reference	CHE-0120-7700-1200-7700	
			
S17	Outlet	2.009	Free Discharge
S16	Outlet	2.008	Free Discharge
S15	Outlet	2.007	Free Discharge
S14	Outlet	2.006	Free Discharge
S13	Outlet	2.005	Free Discharge
S12	Outlet	2.004	Free Discharge
S11	Outlet	2.003	Free Discharge
S10	Outlet	2.002	Free Discharge
S9	Outlet	2.001	Free Discharge
S8	Outlet	2.000	Free Discharge
S18	Outlet	3.000	Free Discharge
S19	Outlet	3.001	Free Discharge
S20	Outlet	3.002	Free Discharge
S21	Outlet	3.003	Free Discharge
S24	Outlet	3.005	Free Discharge

Land to the North of The Rise,: Littleworth Lane, Partridge Green	Date: 24/04/2026		
	Designed by: Chris Gray	Checked by:	Approved By:
Report Details: Type: Junctions Storm Phase: Phase	Motion: 84 North Street Guildford Gu1 4AU		



Junction	Outlet Name	Outgoing Connection	Outlet Type
S25	Outlet	3.006	Free Discharge
S26	Outlet	3.007	Free Discharge
S27	Outlet	3.008	Free Discharge
S28	Outlet	3.009	Free Discharge
S29	Outlet	4.000	Free Discharge
S30	Outlet	4.001	Free Discharge
S31	Outlet	5.000	Free Discharge
Simple Junction 1	Outlet	3.006 (1)	Free Discharge
Simple Junction 2	Outlet	3.008 (1)	Free Discharge
S32	Outlet	6.000	Free Discharge
S33	Outlet	7.000	Free Discharge
S34	Outlet	7.001	Free Discharge
Simple Junction 3	Outlet	3.009 (1)	Free Discharge

Land to the North of The Rise,: Littleworth Lane, Partridge Green	Date: 24/04/2026			
	Designed by: Chris Gray	Checked by:	Approved By:	
Report Details: Type: Stormwater Controls Storm Phase: Phase	Motion: 84 North Street Guildford Gu1 4AU			



Basin B

Type : Pond

Dimensions

Exceedance Level (m)	11.850
Depth (m)	1.200
Base Level (m)	10.650
Freeboard (mm)	0
Initial Depth (m)	0.000
Porosity (%)	100
Average Slope (1:X)	4.855
Total Volume (m³)	979.229

Depth (m)		Area (m²)	Volume (m³)
	0.000	532.33	0.000
	0.100	576.71	55.437
	0.200	622.60	115.388
	0.300	669.11	179.960
	0.400	716.24	249.214
	0.500	763.99	323.212
	0.600	812.35	402.017
	0.700	861.34	485.690
	0.800	910.94	574.292
	0.900	961.15	667.885
	1.000	1011.99	766.531
	1.100	1063.44	870.292
	1.200	1115.51	979.229

Land to the North of The Rise,: Littleworth Lane, Partridge Green	Date: 24/04/2026			
	Designed by: Chris Gray	Checked by:	Approved By:	
Report Details: Type: Stormwater Controls Storm Phase: Phase	Motion: 84 North Street Guildford Gu1 4AU			

Inlets

Inlet

Inlet Type	Point Inflow
Incoming Item(s)	1.002
Bypass Destination	(None)
Capacity Type	No Restriction

Inlet (1)

Inlet Type	Point Inflow
Incoming Item(s)	3.009 (1)
Bypass Destination	(None)
Capacity Type	No Restriction

Inlet (2)

Inlet Type	Point Inflow
Incoming Item(s)	Catchment Area (75)
Bypass Destination	(None)
Capacity Type	No Restriction

Inlet (3)

Inlet Type	Point Inflow
Incoming Item(s)	Catchment Area (76)
Bypass Destination	(None)
Capacity Type	No Restriction

Outlets

Outlet

Outgoing Connection	1.003
Outlet Type	Free Discharge

Land to the North of The Rise,: Littleworth Lane, Partridge Green	Date: 24/04/2026			
	Designed by: Chris Gray	Checked by:	Approved By:	
Report Details: Type: Stormwater Controls Storm Phase: Phase	Motion: 84 North Street Guildford Gu1 4AU			

Advanced

Perimeter	Circular
Length (m)	77.755
Friction Scheme	Manning's n
n	0.1



Basin A

Type : Pond

Dimensions

Exceedance Level (m)	12.200
Depth (m)	0.750
Base Level (m)	11.450
Freeboard (mm)	0
Initial Depth (m)	0.000
Porosity (%)	100
Average Slope (1:X)	3.972
Total Volume (m³)	294.289

Depth (m)		Area (m²)	Volume (m³)
	0.000	291.25	0.000
	0.100	316.71	30.389
	0.200	343.25	63.378
	0.300	370.36	99.050
	0.400	398.03	137.461
	0.500	426.27	178.668
	0.600	455.07	222.727
	0.700	484.44	269.695
	0.750	499.33	294.289

Land to the North of The Rise,: Littleworth Lane, Partridge Green	Date: 24/04/2026			
	Designed by: Chris Gray	Checked by:	Approved By:	
Report Details: Type: Stormwater Controls Storm Phase: Phase	Motion: 84 North Street Guildford Gu1 4AU			

Inlets

Inlet

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

Inlet (2)

Inlet Type	Point Inflow
Incoming Item(s)	Catchment Area (77)
Bypass Destination	(None)
Capacity Type	No Restriction

Outlets

Outlet

Outgoing Connection	3.004
Outlet Type	Free Discharge

Advanced

Perimeter	Circular
Length (m)	43.572
Friction Scheme	Manning's n
n	0.1

Land to the North of The Rise,: Littleworth Lane, Partridge Green	Date: 24/04/2026			
	Designed by: Chris Gray	Checked by:	Approved By:	
Report Details: Type: Manhole Schedule Storm Phase: Phase	Motion: 84 North Street Guildford Gu1 4AU			

Name	Cover Level (m) Invert Level (m)	Manhole Size (m)	Connection Details				Type
Coordinates (m)	Depth (m)		Incoming Connections	Connection Type	Connection Invert (m)	Connection Size (mm)	Junction Type
			Outgoing Connections				Cover
S1	12.860 11.360	Diameter / Length: 1.200					Manhole
E:519304.871 N:119625.494	1.500		{a} 1.000	Pipe	11.360	Diam/Width:300	Not Applicable
S2	12.900 11.195	Diameter / Length: 1.200	{1} 1.000	Pipe	11.270	Diam/Width:300	Manhole
E:519316.387 N:119629.604	1.705		{2} 2.009	Pipe	11.195	Diam/Width:375	
			{a} 1.001	Pipe	11.195	Diam/Width:375	Not Applicable
S3	12.900 11.150	Diameter / Length: 1.200	{1} 1.001	Pipe	11.150	Diam/Width:375	Manhole
E:519314.811 N:119634.759	1.750		{a} 1.002	Pipe	11.150	Diam/Width:375	Not Applicable

Land to the North of The Rise,: Littleworth Lane, Partridge Green	Date: 24/04/2026		
	Designed by: Chris Gray	Checked by:	Approved By:
Report Details: Type: Manhole Schedule Storm Phase: Phase	Motion: 84 North Street Guildford Gu1 4AU		



Name	Cover Level (m) Invert Level (m)	Manhole Size (m)	Connection Details				Type
Coordinates (m)	Depth (m)		Incoming Connections	Connection Type	Connection Invert (m)	Connection Size (mm)	Junction Type
			Outgoing Connections				Cover
S6 (FC)	11.850 10.610	Diameter / Length: 1.200	{1} 1.003	Pipe	10.610	Diam/Width:150	Manhole
E:519355.999 N:119707.580	1.240		{a} 1.004	Pipe	10.610	Diam/Width:150	Not Applicable
S7 (HW Outfall)		Diameter / Length: 1.200	{1} 1.004	Pipe	10.430	Diam/Width:150	Simple Junction
E:519343.047 N:119730.869							Not Applicable
S17	13.400 11.640	Diameter / Length: 1.200	{1} 2.008	Pipe	11.640	Diam/Width:375	Manhole
E:519332.045 N:119630.458	1.760		{a} 2.009	Pipe	11.640	Diam/Width:375	Not Applicable

Land to the North of The Rise,: Littleworth Lane, Partridge Green	Date: 24/04/2026		
	Designed by: Chris Gray	Checked by:	Approved By:
Report Details: Type: Manhole Schedule Storm Phase: Phase	Motion: 84 North Street Guildford Gu1 4AU		



Name	Cover Level (m) Invert Level (m)	Manhole Size (m)	Connection Details				Type
Coordinates (m)	Depth (m)		Incoming Connections	Connection Type	Connection Invert (m)	Connection Size (mm)	Junction Type
			Outgoing Connections				Cover
S16	13.500 11.750	Diameter / Length: 1.200	{1} 2.007	Pipe	11.750	Diam/Width:375	Manhole
E:519340.004 N:119643.377	1.750		{a} 2.008	Pipe	11.750	Diam/Width:375	Not Applicable
S15	14.200 11.945	Diameter / Length: 1.200	{1} 2.006	Pipe	11.945	Diam/Width:375	Manhole
E:519358.813 N:119639.637	2.255		{a} 2.007	Pipe	11.945	Diam/Width:375	Not Applicable
S14	14.640 12.035	Diameter / Length: 1.200	{1} 2.005	Pipe	12.035	Diam/Width:375	Manhole
E:519367.737 N:119639.282	2.605		{a} 2.006	Pipe	12.035	Diam/Width:375	Not Applicable

Land to the North of The Rise,: Littleworth Lane, Partridge Green	Date: 24/04/2026		
	Designed by: Chris Gray	Checked by:	Approved By:
Report Details: Type: Manhole Schedule Storm Phase: Phase	Motion: 84 North Street Guildford Gu1 4AU		



Name	Cover Level (m) Invert Level (m)	Manhole Size (m)	Connection Details				Type
Coordinates (m)	Depth (m)		Incoming Connections	Connection Type	Connection Invert (m)	Connection Size (mm)	Junction Type
			Outgoing Connections				Cover
S13	15.180 12.235	Diameter / Length: 1.200	{1} 2.004	Pipe	12.235	Diam/Width:375	Manhole
E:519384.503 N:119649.837	2.945		{a} 2.005	Pipe	12.235	Diam/Width:375	Not Applicable
S12	14.460 12.680	Diameter / Length: 1.200	{1} 2.003	Pipe	12.680	Diam/Width:375	Manhole
E:519434.699 N:119683.078	1.780		{a} 2.004	Pipe	12.680	Diam/Width:375	Not Applicable
S11	14.360 12.780	Diameter / Length: 1.200	{1} 2.002	Pipe	12.780	Diam/Width:375	Manhole
E:519448.823 N:119687.290	1.580		{a} 2.003	Pipe	12.780	Diam/Width:375	Not Applicable

Land to the North of The Rise,: Littleworth Lane, Partridge Green	Date: 24/04/2026		
	Designed by: Chris Gray	Checked by:	Approved By:
Report Details: Type: Manhole Schedule Storm Phase: Phase	Motion: 84 North Street Guildford Gu1 4AU		



Name	Cover Level (m) Invert Level (m)	Manhole Size (m)	Connection Details				Type
Coordinates (m)	Depth (m)		Incoming Connections	Connection Type	Connection Invert (m)	Connection Size (mm)	Junction Type
			Outgoing Connections				Cover
S10	14.660 13.085	Diameter / Length: 1.200	{1} 2.001	Pipe	13.085	Diam/Width:375	Manhole
E:519470.282 N:119687.335	1.575		{a} 2.002	Pipe	13.085	Diam/Width:375	Not Applicable
S9	14.980 13.405	Diameter / Length: 1.200	{1} 2.000	Pipe	13.630	Diam/Width:150	Manhole
E:519486.549 N:119687.933	1.575		{a} 2.001	Pipe	13.405	Diam/Width:375	Not Applicable
S8	15.960 14.610	Diameter / Length: 1.200					Manhole
E:519542.559 N:119702.390	1.350		{a} 2.000	Pipe	14.610	Diam/Width:150	Not Applicable

Land to the North of The Rise,: Littleworth Lane, Partridge Green	Date: 24/04/2026			
	Designed by: Chris Gray	Checked by:	Approved By:	
Report Details: Type: Manhole Schedule Storm Phase: Phase	Motion: 84 North Street Guildford Gu1 4AU			

Name	Cover Level (m) Invert Level (m)	Manhole Size (m)	Connection Details				Type
Coordinates (m)	Depth (m)		Incoming Connections	Connection Type	Connection Invert (m)	Connection Size (mm)	Junction Type
			Outgoing Connections				Cover
S18	15.600 14.400	Diameter / Length: 1.200					Manhole
E:519541.698 N:119715.597	1.200		{a} 3.000	Pipe	14.400	Diam/Width:150	Not Applicable
S19	15.500 14.300	Diameter / Length: 1.200	{1} 3.000	Pipe	14.300	Diam/Width:150	Manhole
E:519540.007 N:119728.341	1.200		{a} 3.001	Pipe	14.300	Diam/Width:150	Not Applicable
S20	14.900 13.700	Diameter / Length: 1.200	{1} 3.001	Pipe	13.700	Diam/Width:150	Manhole
E:519545.256 N:119735.553	1.200		{a} 3.002	Pipe	13.700	Diam/Width:150	Not Applicable

Land to the North of The Rise,: Littleworth Lane, Partridge Green	Date: 24/04/2026		
	Designed by: Chris Gray	Checked by:	Approved By:
Report Details: Type: Manhole Schedule Storm Phase: Phase	Motion: 84 North Street Guildford Gu1 4AU		



Name	Cover Level (m) Invert Level (m)	Manhole Size (m)	Connection Details				Type
Coordinates (m)	Depth (m)		Incoming Connections	Connection Type	Connection Invert (m)	Connection Size (mm)	Junction Type
			Outgoing Connections				Cover
S21	14.100 12.900	Diameter / Length: 1.200	{1} 3.002	Pipe	12.900	Diam/Width:150	Manhole
E:519535.936 N:119743.832	1.200		{a} 3.003	Pipe	12.900	Diam/Width:150	Not Applicable
S24	12.400 11.400	Diameter / Length: 1.200	{1} 3.004	Pipe	11.400	Diam/Width:300	Manhole
E:519459.588 N:119734.164	1.000		{a} 3.005	Pipe	11.400	Diam/Width:300	Not Applicable
S25	12.500 11.335	Diameter / Length: 1.200	{1} 3.005	Pipe	11.385	Diam/Width:300	Manhole
E:519457.864 N:119730.508	1.165		{2} 4.001	Pipe	11.335	Diam/Width:150	
			{a} 3.006	Pipe	11.385	Diam/Width:300	Not Applicable

Land to the North of The Rise,: Littleworth Lane, Partridge Green	Date: 24/04/2026		
	Designed by: Chris Gray	Checked by:	Approved By:
Report Details: Type: Manhole Schedule Storm Phase: Phase	Motion: 84 North Street Guildford Gu1 4AU		



Name	Cover Level (m) Invert Level (m)	Manhole Size (m)	Connection Details				Type
Coordinates (m)	Depth (m)		Incoming Connections	Connection Type	Connection Invert (m)	Connection Size (mm)	Junction Type
			Outgoing Connections				Cover
S26	12.300 11.320	Diameter / Length: 1.200	{1} 3.006 (1)	Pipe	11.320	Diam/Width:300	Manhole
E:519440.252 N:119725.761	0.980		{a} 3.007	Pipe	11.320	Diam/Width:300	Not Applicable
S27	12.000 11.180	Diameter / Length: 1.200	{1} 3.007	Pipe	11.180	Diam/Width:300	Manhole
E:519430.899 N:119732.335	0.820		{a} 3.008	Pipe	11.180	Diam/Width:300	Not Applicable
S28	12.100 10.785	Diameter / Length: 1.200	{1} 3.008 (1)	Pipe	10.785	Diam/Width:300	Manhole
E:519384.669 N:119718.338	1.315		{a} 3.009	Pipe	10.785	Diam/Width:300	Not Applicable

Land to the North of The Rise,: Littleworth Lane, Partridge Green	Date: 24/04/2026			
	Designed by: Chris Gray	Checked by:	Approved By:	
Report Details: Type: Manhole Schedule Storm Phase: Phase	Motion: 84 North Street Guildford Gu1 4AU			

Name	Cover Level (m) Invert Level (m)	Manhole Size (m)	Connection Details				Type
Coordinates (m)	Depth (m)		Incoming Connections	Connection Type	Connection Invert (m)	Connection Size (mm)	Junction Type
			Outgoing Connections				Cover
S29	13.050 12.400	Diameter / Length: 1.200					Manhole
E:519489.547 N:119732.395	0.650		{a} 4.000	Pipe	12.400	Diam/Width:150	Not Applicable
S30	12.900 12.250	Diameter / Length: 1.200	{1} 4.000	Pipe	12.250	Diam/Width:150	Manhole
E:519487.346 N:119733.856	0.650		{a} 4.001	Pipe	12.250	Diam/Width:150	Not Applicable
S31	12.550 11.900	Diameter / Length: 0.600					Manhole
E:519454.316 N:119727.503	0.650		{a} 5.000	Pipe	11.900	Diam/Width:150	Not Applicable

Land to the North of The Rise,: Littleworth Lane, Partridge Green	Date: 24/04/2026			
	Designed by: Chris Gray	Checked by:	Approved By:	
Report Details: Type: Manhole Schedule Storm Phase: Phase	Motion: 84 North Street Guildford Gu1 4AU			

Name	Cover Level (m) Invert Level (m)	Manhole Size (m)	Connection Details				Type
Coordinates (m)	Depth (m)		Incoming Connections	Connection Type	Connection Invert (m)	Connection Size (mm)	Junction Type
			Outgoing Connections				Cover
Simple Junction 1		Diameter / Length: 1.200	{1} 3.006	Pipe	11.364	Diam/Width:300	Simple Junction
E:519452.128 N:119728.962			{2} 5.000	Pipe	11.510	Diam/Width:150	
			{a} 3.006 (1)	Pipe	11.364	Diam/Width:300	Not Applicable
Simple Junction 2		Diameter / Length: 1.200	{1} 3.008	Pipe	11.106	Diam/Width:300	Simple Junction
E:519422.255 N:119729.718			{2} 6.000	Pipe	11.255	Diam/Width:150	
			{a} 3.008 (1)	Pipe	11.106	Diam/Width:300	Not Applicable

Land to the North of The Rise,: Littleworth Lane, Partridge Green	Date: 24/04/2026			
	Designed by: Chris Gray	Checked by:	Approved By:	
Report Details: Type: Manhole Schedule Storm Phase: Phase	Motion: 84 North Street Guildford Gu1 4AU			

Name	Cover Level (m) Invert Level (m)	Manhole Size (m)	Connection Details				Type
Coordinates (m)	Depth (m)		Incoming Connections	Connection Type	Connection Invert (m)	Connection Size (mm)	Junction Type
			Outgoing Connections				Cover
S32	12.400 11.750	Diameter / Length: 0.600					Manhole
E:519428.147 N:119720.863	0.650		{a} 6.000	Pipe	11.750	Diam/Width:150	Not Applicable
S33	12.900 11.150	Diameter / Length: 1.200					Manhole
E:519372.645 N:119696.165	1.750		{a} 7.000	Pipe	11.150	Diam/Width:300	Not Applicable
S34	12.400 11.050	Diameter / Length: 1.200	{1} 7.000	Pipe	11.050	Diam/Width:300	Manhole
E:519373.104 N:119707.413	1.350		{a} 7.001	Pipe	11.050	Diam/Width:300	Not Applicable

Land to the North of The Rise,: Littleworth Lane, Partridge Green	Date: 24/04/2026			
	Designed by: Chris Gray	Checked by:	Approved By:	
	Report Details: Type: Manhole Schedule Storm Phase: Phase			
Motion: 84 North Street Guildford Gu1 4AU				

Name	Cover Level (m) Invert Level (m)	Manhole Size (m)	Connection Details				Type
Coordinates (m)	Depth (m)		Incoming Connections	Connection Type	Connection Invert (m)	Connection Size (mm)	Junction Type
			Outgoing Connections				Cover
Simple Junction 3		Diameter / Length: 1.200	{1} 3.009	Pipe	10.699	Diam/Width:300	Simple Junction
E:519368.690 N:119708.287			{2} 7.001	Pipe	10.700	Diam/Width:300	
			{a} 3.009 (1)	Pipe	10.699	Diam/Width:300	Not Applicable

Land to the North of The Rise,: Littleworth Lane, Partridge Green	Date: 24/04/2026		
	Designed by: Chris Gray	Checked by:	Approved By:
Report Details: Type: Inflow Summary Storm Phase: Phase	Motion: 84 North Street Guildford Gu1 4AU		



Inflow Label	Connected To	Flow (L/s)	Runoff Method	Area (ha)	Percentage Impervious (%)	Urban Creep (%)	Adjusted Percentage Impervious (%)	Area Analysed (ha)
Catchment Area	S33		Time of Concentration	0.027	100	0	100	0.027
Catchment Area (1)	S32		Time of Concentration	0.021	100	0	100	0.021
Catchment Area (2)	S31		Time of Concentration	0.015	100	0	100	0.015
Catchment Area (3)	S29		Time of Concentration	0.031	100	0	100	0.031
Catchment Area (4)	S9		Time of Concentration	0.079	100	0	100	0.079
Catchment Area (5)	S14		Time of Concentration	0.030	100	0	100	0.030
Catchment Area (6)	S16		Time of Concentration	0.002	100	0	100	0.002
Catchment Area (7)	S13		Time of Concentration	0.013	100	0	100	0.013
Catchment Area (8)	S12		Time of Concentration	0.014	100	0	100	0.014
Catchment Area (9)	S12		Time of Concentration	0.002	100	0	100	0.002
Catchment Area (10)	S12		Time of Concentration	0.002	100	0	100	0.002
Catchment Area (11)	S11		Time of Concentration	0.002	100	0	100	0.002
Catchment Area (12)	S9		Time of Concentration	0.002	100	0	100	0.002
Catchment Area (13)	S18		Time of Concentration	0.038	100	0	100	0.038
Catchment Area (14)	S9		Time of Concentration	0.008	100	0	100	0.008
Catchment Area (15)	S10		Time of Concentration	0.008	100	0	100	0.008
Catchment Area (16)	S10		Time of Concentration	0.004	100	0	100	0.004
Catchment Area (17)	S10		Time of Concentration	0.011	100	0	100	0.011
Catchment Area (18)	S9		Time of Concentration	0.004	100	0	100	0.004
Catchment Area (19)	S8		Time of Concentration	0.008	100	0	100	0.008

Land to the North of The Rise,: Littleworth Lane, Partridge Green	Date: 24/04/2026		
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Report Details: Type: Inflow Summary Storm Phase: Phase	Motion: 84 North Street Guildford Gu1 4AU		



Catchment Area (20)	S9		Time of Concentration	0.032	100	0	100	0.032
Catchment Area (21)	S11		Time of Concentration	0.039	100	0	100	0.039
Catchment Area (22)	S10		Time of Concentration	0.002	100	0	100	0.002
Catchment Area (23)	S11		Time of Concentration	0.003	100	0	100	0.003
Catchment Area (24)	S13		Time of Concentration	0.024	100	0	100	0.024
Catchment Area (25)	S13		Time of Concentration	0.006	100	0	100	0.006
Catchment Area (26)	S31		Time of Concentration	0.008	100	0	100	0.008
Catchment Area (27)	S32		Time of Concentration	0.011	100	0	100	0.011
Catchment Area (28)	S12		Time of Concentration	0.008	100	0	100	0.008
Catchment Area (29)	S13		Time of Concentration	0.042	100	0	100	0.042
Catchment Area (30)	S13		Time of Concentration	0.008	100	0	100	0.008
Catchment Area (31)	S13		Time of Concentration	0.004	100	0	100	0.004
Catchment Area (32)	S9		Time of Concentration	0.005	100	0	100	0.005
Catchment Area (33)	S16		Time of Concentration	0.034	100	0	100	0.034
Catchment Area (34)	S1		Time of Concentration	0.031	100	0	100	0.031
Catchment Area (35)	S33		Time of Concentration	0.002	100	0	100	0.002
Catchment Area (36)	S33		Time of Concentration	0.003	100	0	100	0.003
Catchment Area (37)	S33		Time of Concentration	0.005	100	0	100	0.005
Catchment Area (38)	S33		Time of Concentration	0.006	100	10	110	0.007
Catchment Area (39)	S33		Time of Concentration	0.011	100	10	110	0.012
Catchment Area (40)	S33		Time of Concentration	0.011	100	10	110	0.012

Land to the North of The Rise,: Littleworth Lane, Partridge Green	Date: 24/04/2026		
	Designed by: Chris Gray	Checked by:	Approved By:
Report Details: Type: Inflow Summary Storm Phase: Phase	Motion: 84 North Street Guildford Gu1 4AU		



Catchment Area (41)	S33		Time of Concentration	0.013	100	10	110	0.015
Catchment Area (42)	S33		Time of Concentration	0.015	100	0	100	0.015
Catchment Area (43)	S32		Time of Concentration	0.013	100	10	110	0.015
Catchment Area (44)	S32		Time of Concentration	0.011	100	10	110	0.012
Catchment Area (45)	S25		Time of Concentration	0.009	100	10	110	0.009
Catchment Area (46)	S31		Time of Concentration	0.011	100	10	110	0.012
Catchment Area (47)	S29		Time of Concentration	0.015	100	10	110	0.017
Catchment Area (48)	S29		Time of Concentration	0.012	100	10	110	0.013
Catchment Area (49)	S19		Time of Concentration	0.010	100	10	110	0.011
Catchment Area (50)	S19		Time of Concentration	0.007	100	10	110	0.007
Catchment Area (51)	S15		Time of Concentration	0.014	100	10	110	0.015
Catchment Area (52)	S14		Time of Concentration	0.015	100	10	110	0.016
Catchment Area (53)	S13		Time of Concentration	0.009	100	10	110	0.009
Catchment Area (54)	S13		Time of Concentration	0.009	100	10	110	0.009
Catchment Area (55)	S13		Time of Concentration	0.011	100	10	110	0.012
Catchment Area (56)	S12		Time of Concentration	0.011	100	10	110	0.012
Catchment Area (57)	S12		Time of Concentration	0.010	100	10	110	0.011
Catchment Area (58)	S11		Time of Concentration	0.011	100	10	110	0.012
Catchment Area (59)	S10		Time of Concentration	0.011	100	10	110	0.012
Catchment Area (60)	S9		Time of Concentration	0.010	100	10	110	0.011
Catchment Area (61)	S9		Time of Concentration	0.011	100	0	100	0.011

Land to the North of The Rise,: Littleworth Lane, Partridge Green	Date: 24/04/2026		
	Designed by: Chris Gray	Checked by:	Approved By:
Report Details: Type: Inflow Summary Storm Phase: Phase	Motion: 84 North Street Guildford Gu1 4AU		



Catchment Area (62)	S9		Time of Concentration	0.025	100	10	110	0.027
Catchment Area (63)	S9		Time of Concentration	0.010	100	10	110	0.011
Catchment Area (64)	S8		Time of Concentration	0.010	100	10	110	0.011
Catchment Area (65)	S8		Time of Concentration	0.007	100	10	110	0.007
Catchment Area (66)	S18		Time of Concentration	0.003	100	0	100	0.003
Catchment Area (67)	S18		Time of Concentration	0.005	100	0	100	0.005
Catchment Area (68)	S29		Time of Concentration	0.006	100	0	100	0.006
Catchment Area (69)	S29		Time of Concentration	0.003	100	0	100	0.003
Catchment Area (70)	S31		Time of Concentration	0.003	100	0	100	0.003
Catchment Area (71)	S32		Time of Concentration	0.012	100	0	100	0.012
Catchment Area (72)	S33		Time of Concentration	0.004	100	0	100	0.004
Catchment Area (73)	S33		Time of Concentration	0.004	100	0	100	0.004
Catchment Area (74)	S33		Time of Concentration	0.008	100	0	100	0.008
Catchment Area (75)	Basin B		Time of Concentration	0.011	100	0	100	0.011
Catchment Area (76)	Basin B		Time of Concentration	0.025	100	0	100	0.025
Catchment Area (77)	Basin A		Time of Concentration	0.015	100	0	100	0.015
TOTAL		0.0		1.000				1.029

Land to the North of The Rise,: Littleworth Lane, Partridge Green	Date: 24/04/2026			
	Designed by: Chris Gray	Checked by:	Approved By:	
Report Details: Type: Network Design Criteria Storm Phase: Phase	Motion: 84 North Street Guildford Gu1 4AU			

Flow Options

Peak Flow Calculation	(UK) Modified Rational Method
Min. Time of Entry (mins)	5
Max. Travel Time (mins)	30

Pipe Options

Lock Slope Options	None
Design Options	Minimise Excavation
Design Level	Level Soffits
Min. Cover Depth (m)	1.200
Min. Slope (1:X)	500.00
Max. Slope (1:X)	40.00
Min. Velocity (m/s)	1.0
Max. Velocity (m/s)	3.0
Use Flow Restriction	☐
Reduce Channel Depths	☐

Pipe Size Library

Default

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

Manhole Options

Apply Offset	☐
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Land to the North of The Rise,: Littleworth Lane, Partridge Green	Date: 24/04/2026		
	Designed by: Chris Gray	Checked by:	Approved By:
	Report Details: Type: Network Design Criteria Storm Phase: Phase		
Motion: 84 North Street Guildford Gu1 4AU			

Manhole Size Library

Default

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

Additional Sizing

Connection (mm)	900
Diameter / Length (m)	0.900
Width (m)	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

Land to the North of The Rise,: Littleworth Lane, Partridge Green	Date: 24/04/2026			
	Designed by: Chris Gray	Checked by:	Approved By:	
	Report Details: Type: Outfall Details Storm Phase: Phase			
Motion: 84 North Street Guildford Gu1 4AU				

Outfalls

Outfall	Outfall Type	Fixed Surcharged Level (m)	Level Curve
S7 (HW Outfall)	Free Discharge		

Land to the North of The Rise,: Littleworth Lane, Partridge Green	Date: 24/04/2026			
	Designed by: Chris Gray	Checked by:	Approved By:	
Report Title: Rainfall Analysis Criteria	Motion: 84 North Street Guildford Gu1 4AU			

Runoff Type	Dynamic
Output Interval (mins)	5
Time Step	Shortest
Urban Creep	Use Catchment Values
Junction Flood Risk Margin (mm)	300
Perform No Discharge Analysis	☐

Rainfall

Land to the North of The Rise,: Littleworth Lane, Partridge Green	Date: 24/04/2026			
	Designed by: Chris Gray	Checked by:	Approved By:	
Report Title: Rainfall Analysis Criteria	Motion: 84 North Street Guildford Gu1 4AU			

FEH (2)

Type: FEH

Site Location	GB 519250 119700 TQ 19250 19700	
Rainfall Version		2022
Summer	☒	
Winter	☒	

Return Period

Return Period (years)	Increase Rainfall (%)
2.0	0.000
30.0	40.000
100.0	45.000

Storm Durations

Duration (mins)	Run Time (mins)
15	30
30	60
60	120
120	240
180	360
240	480
360	720
480	960
600	1200
720	1440
960	1920
1440	2880

Land to the North of The Rise, Littleworth Lane, Partridge Green	Date: 24/04/2026		
	Designed by: Chris Gray	Checked by:	Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase	Motion: 84 North Street Guildford Gu1 4AU		



FEH (2): 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
S1	FEH (2): 2 years: +0 %: 15 mins: Summer	12.860	11.360	11.411	0.051	6.5	0.057	0.000	6.2	2.797	OK
S2	FEH (2): 2 years: +0 %: 15 mins: Summer	12.900	11.195	11.399	0.204	93.9	0.230	0.000	91.0	52.155	OK
S3	FEH (2): 2 years: +0 %: 15 mins: Summer	12.900	11.150	11.298	0.148	91.0	0.168	0.000	89.3	52.186	OK
S6 (FC)	FEH (2): 2 years: +0 %: 480 mins: Winter	11.850	10.610	10.969	0.359	7.7	0.406	0.000	7.7	279.933	Surcharged
S7 (HW Outfall)	FEH (2): 2 years: +0 %: 480 mins: Winter		10.430	10.507	0.077	7.7			7.7	279.871	OK
S17	FEH (2): 2 years: +0 %: 15 mins: Summer	13.400	11.640	11.783	0.143	89.8	0.162	0.000	87.6	49.371	OK
S16	FEH (2): 2 years: +0 %: 15 mins: Summer	13.500	11.750	11.956	0.206	93.0	0.233	0.000	89.8	49.399	OK
S15	FEH (2): 2 years: +0 %: 15 mins: Summer	14.200	11.945	12.140	0.195	88.2	0.221	0.000	85.5	46.173	OK
S14	FEH (2): 2 years: +0 %: 15 mins: Summer	14.640	12.035	12.241	0.206	87.9	0.233	0.000	85.0	44.827	OK
S13	FEH (2): 2 years: +0 %: 15 mins: Summer	15.180	12.235	12.423	0.188	86.2	0.212	0.000	79.9	41.354	OK
S12	FEH (2): 2 years: +0 %: 15 mins: Summer	14.460	12.680	12.839	0.159	64.3	0.180	0.000	60.0	30.032	OK
S11	FEH (2): 2 years: +0 %: 15 mins: Summer	14.360	12.780	12.947	0.167	57.2	0.189	0.000	55.0	26.036	OK
S10	FEH (2): 2 years: +0 %: 15 mins: Summer	14.660	13.085	13.203	0.118	47.2	0.133	0.000	45.7	21.040	OK
S9	FEH (2): 2 years: +0 %: 15 mins: Summer	14.980	13.405	13.505	0.100	40.0	0.113	0.000	39.4	17.658	OK
S8	FEH (2): 2 years: +0 %: 15 mins: Summer	15.960	14.610	14.656	0.046	5.4	0.052	0.000	4.7	2.316	OK
S18	FEH (2): 2 years: +0 %: 15 mins: Summer	15.600	14.400	14.488	0.088	9.6	0.099	0.000	9.3	4.174	OK
S19	FEH (2): 2 years: +0 %: 15 mins: Summer	15.500	14.300	14.357	0.057	13.1	0.065	0.000	12.9	5.820	OK

Land to the North of The Rise,: Littleworth Lane, Partridge Green	Date: 24/04/2026		
	Designed by: Chris Gray	Checked by:	Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase	Motion: 84 North Street Guildford Gu1 4AU		



S20	FEH (2): 2 years: +0 %: 15 mins: Summer	14.900	13.700	13.756	0.056	12.9	0.063	0.000	12.6	5.818	OK
S21	FEH (2): 2 years: +0 %: 15 mins: Summer	14.100	12.900	12.962	0.062	12.6	0.070	0.000	12.3	5.826	OK
S24	FEH (2): 2 years: +0 %: 15 mins: Summer	12.400	11.400	11.492	0.092	1.2	0.104	0.000	0.7	0.590	OK
S25	FEH (2): 2 years: +0 %: 15 mins: Summer	12.500	11.335	11.492	0.157	14.5	0.178	0.000	12.6	6.672	OK
S26	FEH (2): 2 years: +0 %: 15 mins: Summer	12.300	11.320	11.406	0.086	19.4	0.097	0.000	18.7	9.389	OK
S27	FEH (2): 2 years: +0 %: 15 mins: Summer	12.000	11.180	11.278	0.098	18.7	0.111	0.000	18.0	9.351	OK
S28	FEH (2): 2 years: +0 %: 480 mins: Winter	12.100	10.785	10.985	0.200	6.6	0.226	0.000	6.4	83.735	OK
S29	FEH (2): 2 years: +0 %: 15 mins: Summer	13.050	12.400	12.468	0.068	13.1	0.077	0.000	12.9	5.666	OK
S30	FEH (2): 2 years: +0 %: 15 mins: Summer	12.900	12.250	12.316	0.066	12.9	0.075	0.000	12.6	5.672	OK
S31	FEH (2): 2 years: +0 %: 15 mins: Summer	12.550	11.900	11.937	0.037	7.3	0.010	0.000	7.2	3.170	OK
Simple Junction 1	FEH (2): 2 years: +0 %: 15 mins: Summer		11.364	11.476	0.112	19.9			19.4	9.424	OK
Simple Junction 2	FEH (2): 2 years: +0 %: 15 mins: Summer		11.106	11.223	0.117	31.8			30.2	15.409	OK
S32	FEH (2): 2 years: +0 %: 15 mins: Summer	12.400	11.750	11.816	0.066	14.0	0.019	0.000	13.8	6.071	OK
S33	FEH (2): 2 years: +0 %: 15 mins: Summer	12.900	11.150	11.248	0.098	22.0	0.111	0.000	21.6	9.543	OK
S34	FEH (2): 2 years: +0 %: 15 mins: Summer	12.400	11.050	11.103	0.053	21.6	0.060	0.000	21.6	9.541	OK
Simple Junction 3	FEH (2): 2 years: +0 %: 480 mins: Winter		10.699	10.985	0.286	9.5			9.4	119.695	OK

Land to the North of The Rise,: Littleworth Lane, Partridge Green	Date: 24/04/2026		
	Designed by: Chris Gray	Checked by:	Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase	Motion: 84 North Street Guildford Gu1 4AU		



FEH (2): 30 years: Increase Rainfall (%): +40: 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
S1	FEH (2): 30 years: +40 %: 15 mins: Winter	12.860	11.360	11.733	0.373	18.9	0.422	0.000	25.8	8.699	Surcharged
S2	FEH (2): 30 years: +40 %: 15 mins: Summer	12.900	11.195	11.742	0.547	253.9	0.619	0.000	252.2	162.186	Surcharged
S3	FEH (2): 30 years: +40 %: 600 mins: Winter	12.900	11.150	11.532	0.382	36.0	0.432	0.000	36.0	511.353	Surcharged
S6 (FC)	FEH (2): 30 years: +40 %: 600 mins: Winter	11.850	10.610	11.522	0.912	7.8	1.031	0.000	7.7	390.205	Surcharged
S7 (HW Outfall)	FEH (2): 30 years: +40 %: 1440 mins: Winter		10.430	10.507	0.077	7.7			7.7	894.992	OK
S17	FEH (2): 30 years: +40 %: 15 mins: Summer	13.400	11.640	12.082	0.442	239.3	0.500	0.000	232.6	153.455	Surcharged
S16	FEH (2): 30 years: +40 %: 15 mins: Summer	13.500	11.750	12.393	0.643	252.2	0.727	0.000	239.3	153.525	Surcharged
S15	FEH (2): 30 years: +40 %: 15 mins: Summer	14.200	11.945	12.747	0.802	238.4	0.907	0.000	229.0	143.457	Surcharged
S14	FEH (2): 30 years: +40 %: 15 mins: Summer	14.640	12.035	12.973	0.938	238.4	1.061	0.000	228.6	139.221	Surcharged
S13	FEH (2): 30 years: +40 %: 15 mins: Summer	15.180	12.235	13.301	1.066	222.8	1.205	0.000	213.5	128.394	Surcharged
S12	FEH (2): 30 years: +40 %: 15 mins: Summer	14.460	12.680	13.620	0.940	139.8	1.063	0.000	141.7	93.263	Surcharged
S11	FEH (2): 30 years: +40 %: 15 mins: Summer	14.360	12.780	13.720	0.940	126.2	1.063	0.000	111.0	80.753	Surcharged
S10	FEH (2): 30 years: +40 %: 15 mins: Summer	14.660	13.085	13.810	0.725	103.1	0.820	0.000	90.4	65.224	Surcharged
S9	FEH (2): 30 years: +40 %: 15 mins: Summer	14.980	13.405	13.808	0.403	125.3	0.456	0.000	78.9	54.724	Surcharged
S8	FEH (2): 30 years: +40 %: 15 mins: Summer	15.960	14.610	14.701	0.091	16.6	0.103	0.000	15.7	6.998	OK
S18	FEH (2): 30 years: +40 %: 15 mins: Summer	15.600	14.400	14.820	0.420	29.8	0.475	0.000	27.3	12.936	Surcharged
S19	FEH (2): 30 years: +40 %: 15 mins: Summer	15.500	14.300	14.421	0.121	39.0	0.137	0.000	38.3	18.031	OK

Land to the North of The Rise,: Littleworth Lane, Partridge Green	Date: 24/04/2026		
	Designed by: Chris Gray	Checked by:	Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase	Motion: 84 North Street Guildford Gu1 4AU		



S20	FEH (2): 30 years: +40 %: 15 mins: Summer	14.900	13.700	13.815	0.115	38.3	0.130	0.000	37.6	18.028	OK
S21	FEH (2): 30 years: +40 %: 15 mins: Summer	14.100	12.900	13.029	0.129	37.6	0.146	0.000	36.3	18.042	OK
S24	FEH (2): 30 years: +40 %: 15 mins: Summer	12.400	11.400	11.576	0.176	8.4	0.199	0.000	8.7	10.615	OK
S25	FEH (2): 30 years: +40 %: 15 mins: Summer	12.500	11.335	11.579	0.244	37.4	0.276	0.000	28.3	26.699	OK
S26	FEH (2): 30 years: +40 %: 600 mins: Winter	12.300	11.320	11.532	0.212	10.9	0.240	0.000	10.9	162.366	OK
S27	FEH (2): 30 years: +40 %: 600 mins: Winter	12.000	11.180	11.532	0.352	10.9	0.398	0.000	10.9	161.874	Surcharged
S28	FEH (2): 30 years: +40 %: 600 mins: Winter	12.100	10.785	11.532	0.747	14.7	0.845	0.000	14.5	217.304	Surcharged
S29	FEH (2): 30 years: +40 %: 15 mins: Summer	13.050	12.400	12.759	0.359	40.5	0.406	0.000	35.4	17.564	Flood Risk
S30	FEH (2): 30 years: +40 %: 15 mins: Summer	12.900	12.250	12.557	0.307	35.4	0.347	0.000	31.2	17.569	Surcharged
S31	FEH (2): 30 years: +40 %: 15 mins: Summer	12.550	11.900	11.972	0.072	22.6	0.020	0.000	22.5	9.804	OK
Simple Junction 1	FEH (2): 30 years: +40 %: 15 mins: Summer		11.364	11.571	0.207	50.8			48.7	32.335	OK
Simple Junction 2	FEH (2): 30 years: +40 %: 600 mins: Winter		11.106	11.532	0.426	15.1			14.7	220.482	Surcharged
S32	FEH (2): 30 years: +40 %: 15 mins: Summer	12.400	11.750	12.068	0.318	43.4	0.090	0.000	38.0	18.785	Surcharged
S33	FEH (2): 30 years: +40 %: 600 mins: Winter	12.900	11.150	11.532	0.382	6.6	0.432	0.000	6.6	93.888	Surcharged
S34	FEH (2): 30 years: +40 %: 600 mins: Winter	12.400	11.050	11.532	0.482	6.6	0.545	0.000	6.4	93.089	Surcharged
Simple Junction 3	FEH (2): 30 years: +40 %: 600 mins: Winter		10.699	11.532	0.833	20.7			20.6	308.783	Surcharged

Land to the North of The Rise,: Littleworth Lane, Partridge Green	Date: 24/04/2026		
	Designed by: Chris Gray	Checked by:	Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase	Motion: 84 North Street Guildford Gu1 4AU		



FEH (2): 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
S1	FEH (2): 100 years: +45 %: 30 mins: Summer	12.860	11.360	11.919	0.559	17.5	0.633	0.000	17.7	15.179	Surcharged
S2	FEH (2): 100 years: +45 %: 30 mins: Summer	12.900	11.195	11.917	0.722	298.5	0.817	0.000	298.7	282.679	Surcharged
S3	FEH (2): 100 years: +45 %: 720 mins: Winter	12.900	11.150	11.710	0.560	40.1	0.633	0.000	39.8	686.097	Surcharged
S6 (FC)	FEH (2): 100 years: +45 %: 720 mins: Winter	11.850	10.610	11.698	1.088	7.7	1.231	0.000	7.7	517.497	Flood Risk
S7 (HW Outfall)	FEH (2): 100 years: +45 %: 720 mins: Summer		10.430	10.507	0.077	7.7			7.7	514.195	OK
S17	FEH (2): 100 years: +45 %: 15 mins: Summer	13.400	11.640	12.406	0.766	298.1	0.867	0.000	292.3	199.194	Surcharged
S16	FEH (2): 100 years: +45 %: 15 mins: Summer	13.500	11.750	12.910	1.160	304.8	1.312	0.000	298.1	199.255	Surcharged
S15	FEH (2): 100 years: +45 %: 15 mins: Summer	14.200	11.945	13.396	1.451	280.6	1.641	0.000	274.5	186.176	Surcharged
S14	FEH (2): 100 years: +45 %: 15 mins: Summer	14.640	12.035	13.681	1.646	273.5	1.861	0.000	267.8	180.673	Surcharged
S13	FEH (2): 100 years: +45 %: 15 mins: Summer	15.180	12.235	14.049	1.814	246.1	2.052	0.000	241.0	166.614	Surcharged
S12	FEH (2): 100 years: +45 %: 15 mins: Summer	14.460	12.680	14.320	1.640	201.0	1.855	0.000	202.1	121.010	Flood Risk
S11	FEH (2): 100 years: +45 %: 15 mins: Summer	14.360	12.780	14.368	1.588	229.7	9.569	7.782	192.6	104.769	Flood
S10	FEH (2): 100 years: +45 %: 15 mins: Summer	14.660	13.085	14.593	1.508	184.0	1.706	0.000	183.3	84.680	Flood Risk
S9	FEH (2): 100 years: +45 %: 15 mins: Summer	14.980	13.405	14.731	1.326	153.0	1.499	0.000	152.6	71.019	Flood Risk
S8	FEH (2): 100 years: +45 %: 15 mins: Summer	15.960	14.610	15.019	0.409	21.5	0.463	0.000	10.7	9.000	Surcharged
S18	FEH (2): 100 years: +45 %: 15 mins: Summer	15.600	14.400	15.086	0.686	38.7	0.775	0.000	33.3	16.805	Surcharged
S19	FEH (2): 100 years: +45 %: 15 mins: Summer	15.500	14.300	14.571	0.271	48.6	0.306	0.000	44.9	23.399	Surcharged

Land to the North of The Rise,: Littleworth Lane, Partridge Green	Date: 24/04/2026		
	Designed by: Chris Gray	Checked by:	Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase	Motion: 84 North Street Guildford Gu1 4AU		



S20	FEH (2): 100 years: +45 %: 15 mins: Summer	14.900	13.700	13.877	0.177	44.9	0.201	0.000	41.6	23.399	Surcharged
S21	FEH (2): 100 years: +45 %: 15 mins: Summer	14.100	12.900	13.105	0.205	41.6	0.231	0.000	40.6	23.412	Surcharged
S24	FEH (2): 100 years: +45 %: 720 mins: Winter	12.400	11.400	11.710	0.310	7.2	0.351	0.000	5.1	147.082	Surcharged
S25	FEH (2): 100 years: +45 %: 720 mins: Winter	12.500	11.335	11.710	0.375	10.0	0.424	0.000	10.0	211.684	Surcharged
S26	FEH (2): 100 years: +45 %: 720 mins: Winter	12.300	11.320	11.710	0.390	12.5	0.441	0.000	12.4	215.818	Surcharged
S27	FEH (2): 100 years: +45 %: 720 mins: Winter	12.000	11.180	11.710	0.530	12.4	0.600	0.000	12.2	215.160	Flood Risk
S28	FEH (2): 100 years: +45 %: 720 mins: Winter	12.100	10.785	11.710	0.925	16.6	1.046	0.000	16.5	280.247	Surcharged
S29	FEH (2): 100 years: +45 %: 15 mins: Summer	13.050	12.400	13.050	0.650	52.6	1.107	0.372	35.7	22.815	Flood
S30	FEH (2): 100 years: +45 %: 15 mins: Summer	12.900	12.250	12.858	0.608	35.7	0.688	0.000	34.9	22.815	Flood Risk
S31	FEH (2): 100 years: +45 %: 15 mins: Summer	12.550	11.900	11.987	0.087	29.3	0.025	0.000	29.0	12.729	OK
Simple Junction 1	FEH (2): 100 years: +45 %: 720 mins: Winter		11.364	11.710	0.346	12.5			12.5	223.615	Surcharged
Simple Junction 2	FEH (2): 100 years: +45 %: 720 mins: Winter		11.106	11.710	0.604	16.9			16.6	288.846	Surcharged
S32	FEH (2): 100 years: +45 %: 15 mins: Summer	12.400	11.750	12.400	0.650	56.3	0.416	0.232	44.7	24.407	Flood
S33	FEH (2): 100 years: +45 %: 720 mins: Winter	12.900	11.150	11.710	0.560	7.4	0.633	0.000	7.2	126.084	Surcharged
S34	FEH (2): 100 years: +45 %: 720 mins: Winter	12.400	11.050	11.710	0.660	7.2	0.746	0.000	7.1	125.005	Surcharged
Simple Junction 3	FEH (2): 100 years: +45 %: 720 mins: Winter		10.699	11.710	1.011	23.6			23.5	403.443	Surcharged

Land to the North of The Rise,: Littleworth Lane, Partridge Green	Date: 24/04/2026		
	Designed by: Chris Gray	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase	Motion: 84 North Street Guildford Gu1 4AU		





FEH (2): 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. Resident Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Half Drain Down Time (mins)	Percentage Available (%)
Basin B	FEH (2): 2 years: +0 %: 480 mins: Winter	10.985	10.985	0.335	0.335	27.6	203.395	0.000	0.000	7.7	280.114		79.229
Basin A	FEH (2): 2 years: +0 %: 240 mins: Summer	11.493	11.491	0.043	0.041	5.6	12.477	0.000	0.000	2.6	18.414		95.760

Land to the North of The Rise,: Littleworth Lane, Partridge Green	Date: 24/04/2026			
	Designed by: Chris Gray	Checked by:	Approved By:	
	Report Details: Type: Stormwater Controls Summary Storm Phase: Phase			
Motion: 84 North Street Guildford Gu1 4AU				

Status
OK
OK

Land to the North of The Rise,: Littleworth Lane, Partridge Green	Date: 24/04/2026		
	Designed by: Chris Gray	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase	Motion: 84 North Street Guildford Gu1 4AU		





FEH (2): 30 years: Increase Rainfall (%): +40: 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. Resident Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Half Drain Down Time (mins)	Percentage Available (%)
Basin B	FEH (2): 30 years: +40 %: 600 mins: Winter	11.532	11.532	0.882	0.882	58.7	650.562	0.000	0.000	7.8	391.073	525	33.564
Basin A	FEH (2): 30 years: +40 %: 60 mins: Summer	11.554	11.550	0.104	0.100	35.4	30.987	0.000	0.000	12.7	30.168		89.470

Land to the North of The Rise,: Littleworth Lane, Partridge Green	Date: 24/04/2026			
	Designed by: Chris Gray	Checked by:	Approved By:	
	Report Details: Type: Stormwater Controls Summary Storm Phase: Phase			
Motion: 84 North Street Guildford Gu1 4AU				

Status
OK
OK

Land to the North of The Rise,: Littleworth Lane, Partridge Green	Date: 24/04/2026		
	Designed by: Chris Gray	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase	Motion: 84 North Street Guildford Gu1 4AU		





FEH (2): 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. Resident Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Half Drain Down Time (mins)	Percentage Available (%)
Basin B	FEH (2): 100 years: +45 %: 720 mins: Winter	11.710	11.710	1.060	1.060	65.7	828.009	0.000	0.000	7.7	518.563		15.443
Basin A	FEH (2): 100 years: +45 %: 720 mins: Winter	11.710	11.710	0.260	0.260	10.8	84.583	0.000	0.000	5.1	112.583		71.259

Land to the North of The Rise,: Littleworth Lane, Partridge Green	Date: 24/04/2026			
	Designed by: Chris Gray	Checked by:	Approved By:	
	Report Details: Type: Stormwater Controls Summary Storm Phase: Phase			
			Motion: 84 North Street Guildford Gu1 4AU	

Status
OK
OK

Appendix E

Proposed Site Levels and Indicative Pond Sections



- Notes
1. All levels and dimensions to be checked on site before any work commences. All dimensions in metres unless stated otherwise.
 2. This drawing is based on survey information supplied by Macar, and Motion cannot guarantee the accuracy of the data provided.
 3. This drawing is based on OS mapping and Motion cannot guarantee the accuracy of the data.
 4. Highway boundary information obtained from West Sussex County Council and based on OS mapping, Motion cannot guarantee the accuracy of the data provided.

P05	Amended Development Site Layout	MH	MH	NJ	21/04/2026
P04	F.F.L.'s added	EH	NJ	NJ	13/04/2026
P03	Amended Development Site Layout	ST	MH	NJ	09/04/2026
P02	Indicative basin extents added	MH	CG	NJ	03/12/2026
P01	First Issue	MH	MH	NJ	06/03/2026
Rev.	Description	Drn	Chk	App	Date

Drawing Status: **FOR PLANNING**
NOT FOR CONSTRUCTION



Client: **Macar**

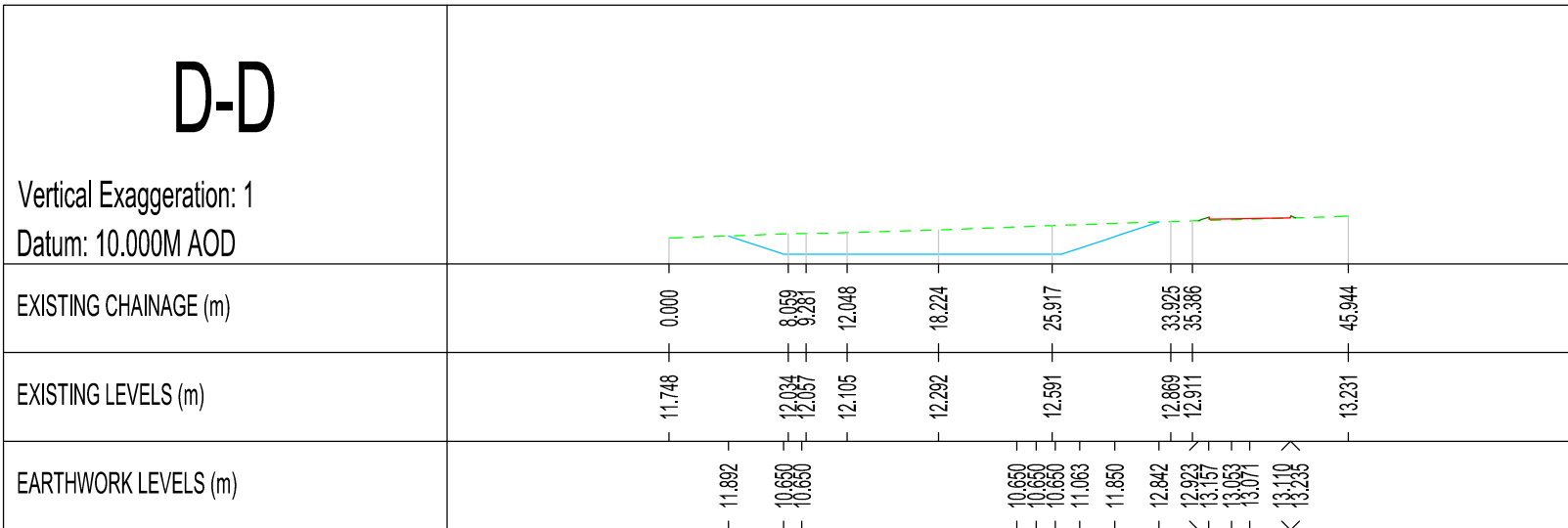
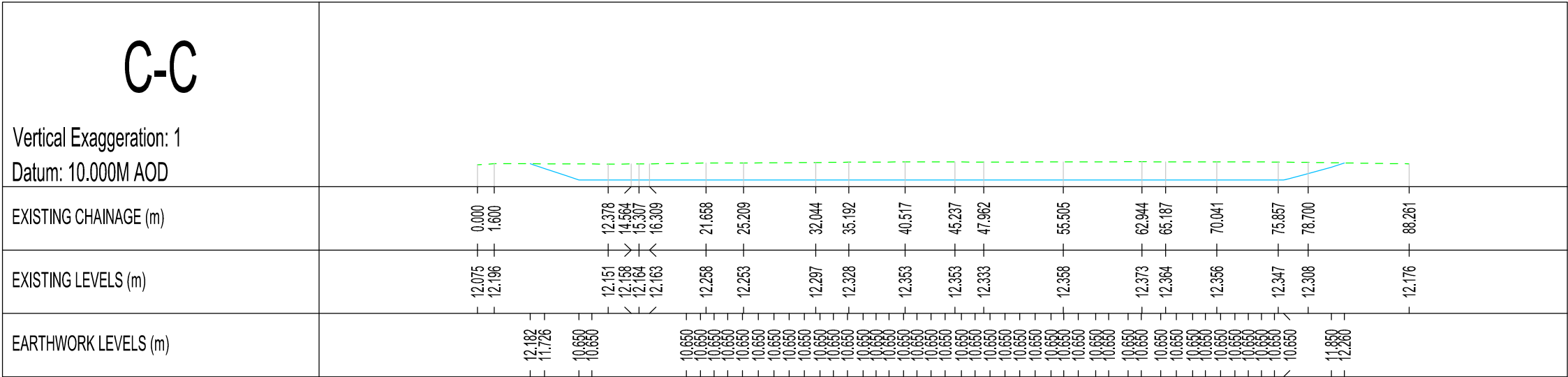
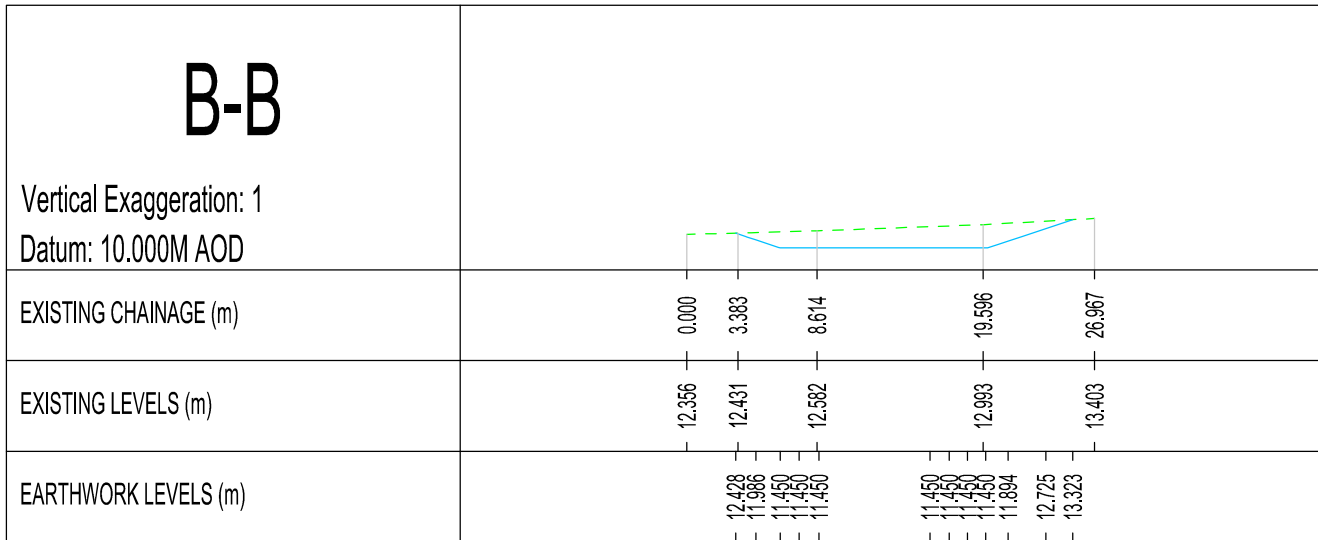
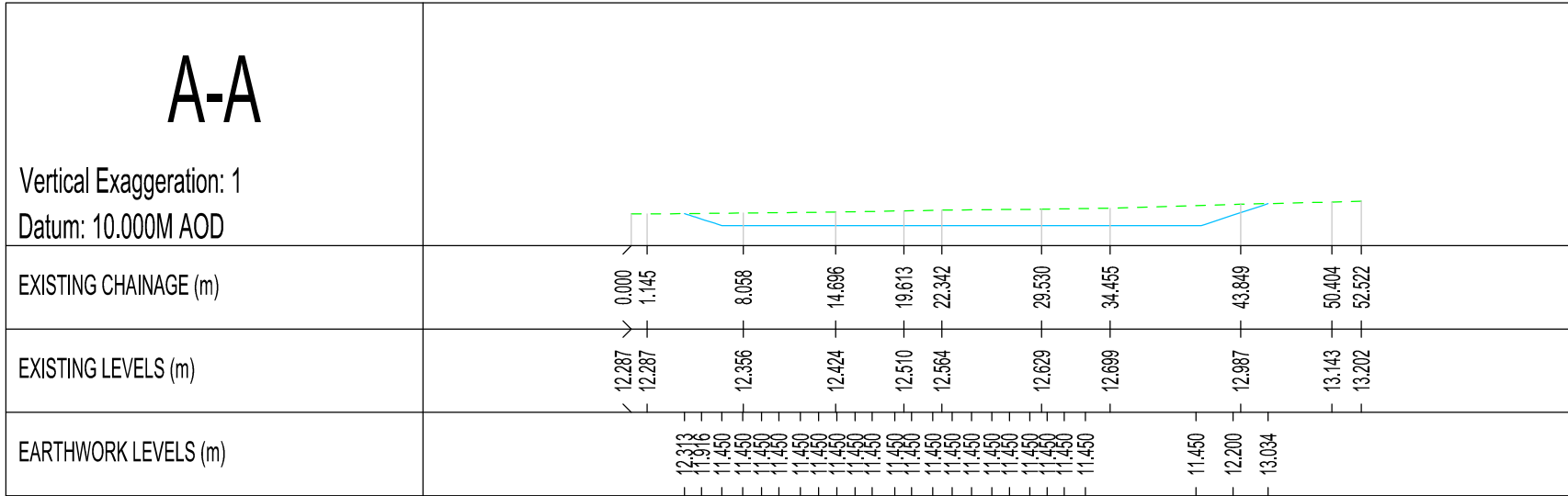
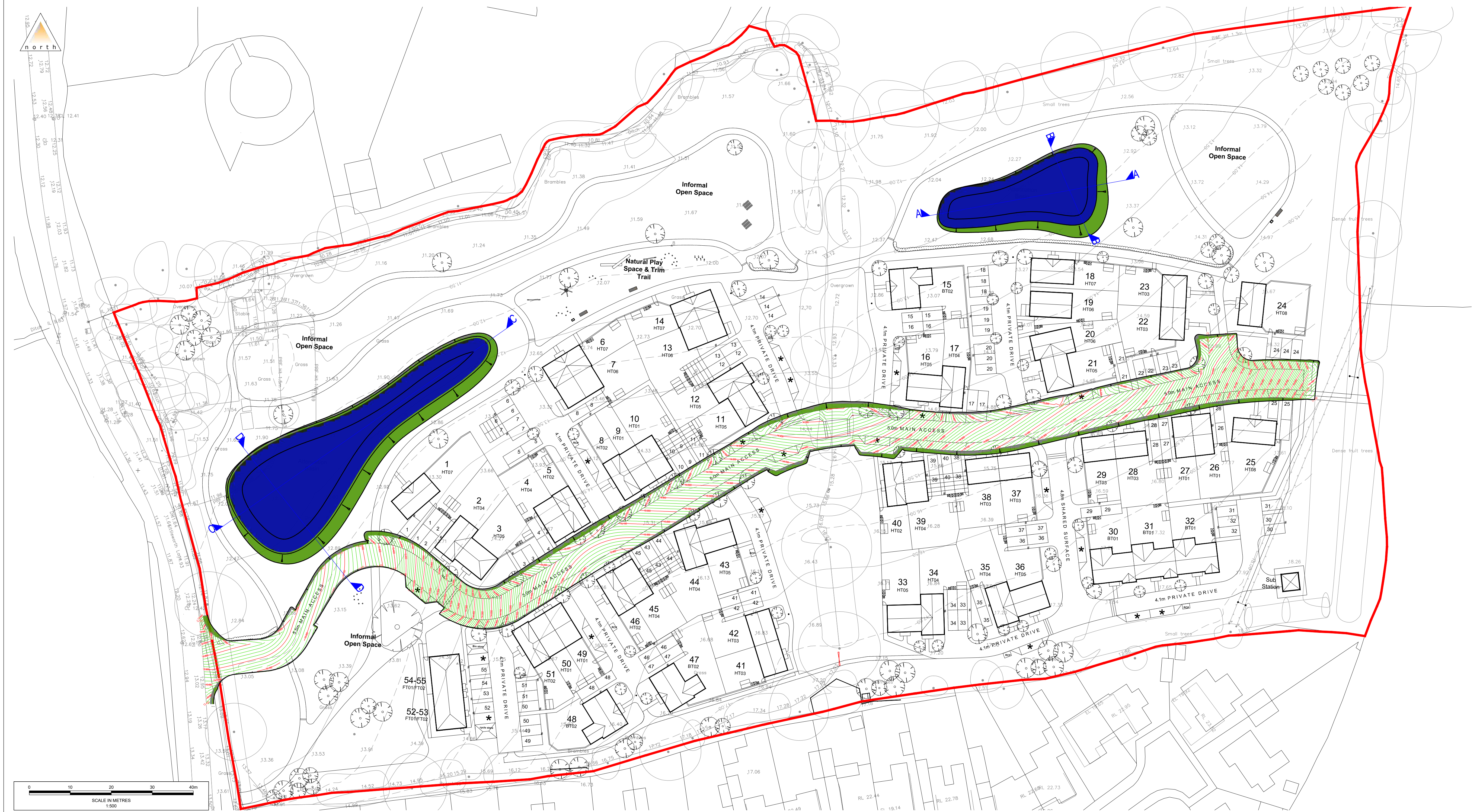
Project: **Land to the North of The Rise**
Littleworth Lane, Partridge Green

Title: **Proposed Site Levels**

Scale: 1:500 (@ A1)

Drawing: **2510074-9001**

Revision: **P05**



- Notes**
1. All levels and dimensions to be checked on site before any work commences. All dimensions in metres unless stated otherwise.
 2. This drawing is based on survey information supplied by Macar, and Motion cannot guarantee the accuracy of the data provided.
 3. This drawing is based on OS mapping and Motion cannot guarantee the accuracy of the data.
 4. Highway boundary information obtained from West Sussex County Council and based on OS mapping, Motion cannot guarantee the accuracy of the data provided.

P02 Amended Development Site Layout	MH	CG	NJ	22/04/2026
P01 First Issue	MH	MH	NJ	16/03/2026
Rev. Description	Drm	Chk	App	Date

Drawing Status:

FOR PLANNING
NOT FOR CONSTRUCTION



Client:
Macar

Project:
Land to the North of The Rise
Littleworth Lane, Partridge Green

Title:
Indicative Basin Sections

Scale: 1:500 (@ A1)

Drawing:
2510074-9002

Revision:
P02

C:\Users\matthew.motion\Documents\Barfette - Mipart 2510074\Drawings\2510074-9002-P02 [Indicative Pond Sections].dwg