



402-404 Wilmslow Road

Withington

Manchester M20 3BN

Proposed Residential Rear Extension/Conversion

Flood Risk Assessment

For: Concorde No.1 Ltd.

Integra Consulting
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By: NS

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Environmental

Geotechnical

Highways

Structural

Civil

CONTENTS

- 1.0 INTRODUCTION**
- 2.0 EXECUTIVE SUMMARY**
- 3.0 STANDARDS AND LIMITATIONS**
- 4.0 EXISTING SITE, FLOOD RISK, EXISTING DRAINAGE MODE**
- 5.0 PROPOSALS, NEW DRAINAGE**
- 6.0 SURFACE WATER RUNOFF**
- 7.0 NATIONAL PLANNING POLICY FRAMEWORK, TECHNICAL GUIDANCE AND EA MAPPING**
- 8.0 RESPONSE TO EA / LLFA CONSULTATION COMMENTS**
- 9.0 MANAGEMENT AND MAINTENANCE OF SUDS**

APPENDICES

Appendix 1	Site Location Plan & Aerial View of Building
Appendix 2	Topographical Survey
Appendix 3	Environment Agency Flood Data / Maps / Risk Levels
Appendix 4	United Utilities Sewer Plan
Appendix 5	Existing Plans
Appendix 6	Proposed Site Drawings
Appendix 7	Groundwater Flood Mapping
Appendix 8	Statutory Flood Risk and Drainage Consultee Correspondence
Appendix 9	Site Photographs – Rear of Building
Appendix 10	Defra / Environment Agency: Flood Risks to People – Phase 2
Appendix 11	Schematic Surface Water Drainage Strategy Layout
Appendix 12	Surface Water Attenuation Calculations
Appendix 13	Micro Drainage Simulations
Appendix 14	Existing Drainage Survey

1.0 INTRODUCTION

- 1.1 Integra Consulting has been commissioned by Mr. Stuart Wall of Concorde No.1 Ltd to undertake a Flood Risk Assessment (FRA) for the site at 402-404 Wilmslow Road, Withington, Manchester M20 3BN (refer to Appendix 1 for details). This document has been prepared to accompany the full planning application for the extension and re-modelling, from 7 No flats and a large 11 No bedroom house of multiple occupation to 18 No flats and associated infrastructure.
- 1.2 The objective of the FRA is to identify potential flooding issues and any consequent implications on the proposed site development. This report covers flood risk from the local Cringle Brook to the new lower ground floor accommodation and also new lower ground floor drainage.
- 1.3 The FRA has been undertaken in accordance with the pro-forma guidance contained in:
- Department for Communities and Local Government document 'National Planning Practice Guidance: Flood Risk and Coastal Change'
 - Manchester City, Salford City and Trafford Councils Level 2 Strategic Flood Risk Assessment by JBA Consulting dated March 2011
 - DEFRA / Environment Agency publication SC030219 'Rainfall Runoff Management for Developments' dated October 2013.
- 1.4 To date, consultations have been undertaken with the Environment Agency (EA).

2.0 EXECUTIVE SUMMARY

The proposals are to convert 7 No flats and a large 11 No bedroom house of multiple occupation into private flats with a minor extension (90m² on plan) to the rear of the site. It is noted that the existing lower ground floor houses two of the flats together with habitable spaces of the large house of multiple occupancy.

The flats generally lie in Flood Zone 1 except for 2 No lower ground floor flats located at the front of the property which lie in defended Flood Zone 3a due to flood risk from the local culverted Cringle Brook. Cringle Brook has been modelled by the Environment Agency and risk level data supplied to us.

The flats that lie in Flood Zone 1 are evidently not at risk from a critical fluvial flood event. The 2 No lower ground floor flats located at the front of the property will have separate drainage systems to the main building and will utilise pumped drainage to ensure that 1 in 1000 year Cringle Brook storm flows cannot affect them and that their standard of defence against flooding is the same as a normal Flood Zone 1 dwelling.

Flood risk handbooks issued to the front two basement dwellings will identify that these dwellings are at an increased risk of flooding due to their finished floor level and will clearly indicate the flood risks and safety procedures which are to be followed during a critical storm event.

The existing building already connects to the adjacent adopted combined sewer system however there will be a new roof extension area of circa 90m². It has been agreed with the LLFA to adopt a pragmatic post-development surface water drainage strategy maintaining the existing adopted sewer network connection from the site and introducing underground crate attenuation and a downstream hydrobrake to limit surface water flows to 2 litres per second and provide a degree of betterment to the UU sewer network.

3.0 STANDARDS AND LIMITATIONS

This report has been prepared solely for use by Concorde No.1 Ltd.

It shall not be relied upon or transferred to any other party without the prior written authorisation of Integra Consulting.

The findings and opinions in the report are based on information derived from a variety of different sources. Integra Consulting do not accept any liability for the accuracy or otherwise of any information provided by third parties.

It should be noted that some of the aspects considered in this study may be subject to change with time. Therefore, if the development is delayed or postponed, consideration may need to be given to reviewing such issues to confirm that no changes have taken place, either at the site or within relevant legislation.

Further consultations with statutory bodies are likely as the scheme progresses. It should be noted that even where responses have been received from Regulators, these could be subject to change at a later date.

4.0 EXISTING SITE, FLOOD RISK, EXISTING DRAINAGE MODE

The existing site includes 7 No flats and a large 11 No bedroom house of multiple occupation and Cringle Brook is a nearby culverted 'main river' brook which gives rise to flooding risk to the existing building lower ground floor during heavy storms (refer to Appendix 2 for topographical survey details).

We are in receipt of Environment Agency (EA) data for Cringle Brook and modelled risk levels for river nodes around the site (refer to Appendix 3 for details).

Node 1	Node 2	Node 3	Node 4	
35.49	35.37	35.03	34.97	1 in 100 year
35.52	35.41	35.06	35.03	1 in 100 year +35% cc
35.59	35.58	35.22	35.20	1 in 1000 year

Wilmslow	Wilmslow	Wellington	Wellington
Rd E	Rd W	Rd-south	Rd-north
			of site

We understand from the site owner that the building has had no flood history for at least the past twenty years and it is therefore considered reasonable to assume it is 'defended' and therefore the existing lower ground floor flats sit in defended Flood Zone 3a.

It is also noted that the local area has underground river culverts and combined sewers plus highway drains. The anticipated flood mode is therefore one of reverse flow out of river culvert highway drain connections. Accordingly, the pattern is slow velocity road ponding with the 'degree of flood hazard' as low as per Table 3.2 of the DEFRA / EA methodology ref: FD2321/TR1 (refer to Appendix 10 for details).

The existing building drainage mode is a combined system with the roof having a central dished area which drains through the internal areas of the building.

5.0 PROPOSALS, NEW DRAINAGE

The proposals are to convert the building into private flats with 4 No lower ground floor units – the front two lower ground floor units are to have an FFL of 34.85m AOD whilst the rear two lower ground floor units are to have an FFL of 36.12m AOD (refer to Appendix 6 for these details together with ground floor flat FFL's and threshold levels). It is noted that the building is currently in operation with permitted use as 7 No flats and a large 11 No bedroom house of multiple occupation (refer to Appendix 5 for existing site plan details).

In relation to the two lower ground floor flats at the front of the existing building where the finished floor levels cannot pragmatically be raised above 34.85m AOD, it is noted that the lower ground floor level flats will have pumped drainage arrangements (separate from the remainder of the building) to ensure that 1 in 1000 year Cringle Brook storm flows cannot affect them, that their standard of defence against flooding will be the same as a normal Flood Zone 1 dwelling and also that no backflow from existing drains and public sewers can occur.

The lower ground finished floor level of 36.12m AOD which applies for the two rear lower ground floor flats corresponds to the 1 in 100 year + 35% climate change level (35.52m AOD) plus 600mm freeboard. This FFL also compares favourably with the risk level average of the relevant nodes for the 1 in 1000 plus 30% climate change risk level of 35.5m AOD.

The proposed site drawings contained in Appendix 6 outline the flood evacuation plan identifying the safe access and egress routes from the lower ground floor level flats to a safe external level.

The ground floor building entrances lie at a minimum level of 37.23m AOD which is 1640mm above the 1 in 1000 year risk level and 1710mm above the EA 1 in 100 year + 35% climate change levels respectively (refer to Appendix 3 for details).

The proposals have entrance thresholds significantly higher than the published 1 in 1000 year + climate change risk levels (refer to Appendix 3).

The proposed lower ground floor flats at the front of the property will have pumped drainage systems with no backflow that are completely separate to the main building. On this basis, all proposed accommodation either lies in Flood Zone 1 or defended Flood Zone 3. The lower ground floor flats at the front of the development are defended as this situation will be 'engineered' by there being no internal drains that could be subject to flooding – all surface water drainage will remain external and all foul drainage will be pumped.

Flood risk related proposals are therefore summarised below:

1. All existing building drainage from above the 2 No lower ground floor units at the front of the building will be connected to the new sewers either side of the building using new drainage under the ground floor plus any existing drainage just beneath the ground floor.
2. The 2 No lower ground floor flats at the front of the building will have waterproof floors and wall linings plus all window sills to be above 35.5m AOD.
3. To waterproof the existing building basement areas, we advise an internal waterproof concrete tanking system. For the new basements, we advise integrated waterproof concrete floors and walls with hydrophilic water bars at joints.
4. The building footprint will increase at the north (rear) end of the site and a compensatory Flood Zone 3a storage volume of 65m³ will be provided by lowering the existing 25m x 15m rear car park area by circa 160mm (refer to Appendix 9 for site photographs at the rear of the property). No flood water will therefore displace onto third party land.

Details and calculations of how the above noted compensatory storage volume has been calculated are set out below:

- This storage volume is provided by lowering the existing 25m x 15m rear car park by circa 160mm.
 - The replacement volume of $25 \times 15 \times 0.16 = 65\text{m}^3$ compensates for top of Flood Zone 3a + climate change level of 35.25m AOD (average of the 4 No applicable nodes) providing a degree of betterment.
 - The volume taken up by the new extension is $90\text{m}^2 \times 0.55\text{m} = 50\text{m}^3$. The 0.55m figure is derived from the difference between 35.25m AOD (average of the 4 No applicable nodes) and 34.7m AOD (average level of existing ground in the extension area).
5. Toilets to the 2 No lower ground floor units at the front of the property will be Saniflo (pumped) units. Showers and washbasins, sinks and kitchen appliances will drain to small manholes with submersible pumps which will pump up into the underground floor drainage.
6. The 2 No lower ground floor flats at the front of the property will have flood risk handbooks describing the safety measures and stating that these dwellings are at an increased risk of flooding due to their finished floor level and will highlight the flood risks and the safety procedures that should be followed during a critical storm event.
7. All power points will be set at a minimum of 35.5m AOD and will be fed from above. No electrical items such as the incoming supply box or feeder cables will be set lower than 35.5m AOD.

8. In terms of emergency planning, the building occupants will sign up to receive flood warnings from the Environment Agency flood warning service which can be accessed on www.gov.uk.

In addition, a private flood warning system is to be installed at the development incorporating an echo sounder unit to be fixed to an external face of the building at high level that is linked to a telemetry unit which will in turn send an automated voice message to the building manager and all occupants when water levels reach 34.85m AOD i.e. the lowest finished floor level of the lower ground floor flats.

Should the roads next to the site start to shallow flood in an extreme storm event, building occupants can decant to the south towards Withington village which is generally higher ground and lies in Flood Zone 1 as evidenced by the Flood Map for Planning.

6.0 SURFACE WATER RUNOFF

The issue of surface water drainage to the proposed development has been considered with reference to the hierarchy of surface water disposal as noted in the Building Regulations H3:

- i) Sustainable Urban Drainage Systems (SUDS)
- ii) Discharge of surface water off site direct to watercourse
- iii) Discharge to adopted sewer

SUDS are made up of one or more structures built to manage surface water runoff. They are used in conjunction with good management of the site to prevent flooding and pollution. There are four general methods of control:

- Filter strips and swales
- Filter drains and permeable surfaces
- Infiltration devices
- Basins and Ponds

In this specific case, an existing drainage survey has been undertaken which has shown that the existing site building and associated hard surfaced external areas drain freely to the local adopted United Utilities combined sewer network beneath Wilmslow Road (refer to Appendices 4 and 14 respectively for adopted sewer plan and existing drainage survey details).

The additional building footprint area is circa 90m² and pragmatically we propose that the existing drainage connections to the adopted sewer network are maintained and surface water underground crate attenuation is provided in relation to this additional footprint area based on greenfield runoff rates (subject to a reasonable minimum discharge rate of 2 litres per second) as opposed to undertaking BRE 365 soakaway testing and following the above noted surface water drainage hierarchy in this specific instance given the overall nature of the project i.e. refurbishment.

The above proposed drainage methodology has been discussed at length and subsequently agreed with Oliver Timmins from the LLFA (refer to Appendix 8 for details). As agreed with Oliver, a flow control (hydrobrake) device has been specified and located directly downstream of the underground crate attenuation to limit surface water flows to 2 litres per second @ 1.1m head and provide a degree of betterment to the UU sewer network (refer to Appendix 11 for details).

On the above basis and following detailed liaison with Oliver Timmins from the Manchester City Council Flood Risk Management Team, the hydraulic design has been finalised in order to ensure that manhole SWIC 06 (refer to Appendix 11 for details) that is located adjacent to the lower basement dwellings will not flood in the design event. Accordingly, underground crate storage will accommodate circa 33m³ with the circa 3m³ additional storage requirement to meet the 1 in 100 year plus 40% climate change figure accommodated between kerb faces in the rear car park area, remote from the lower basement dwellings (refer to Appendix 11 for details).

The above noted post-development surface water drainage strategy has been agreed in principle with the LLFA officer.

Discharge of post-development surface water into the adjacent adopted combined sewer system will also naturally require a formal S104 application to be made to United Utilities.

Ultimately the final design of the drainage system will be subject to the finalised site arrangement, further targeted site investigation and subsequent development of a detailed drainage scheme.

7.0 NATIONAL PLANNING POLICY FRAMEWORK, TECHNICAL GUIDANCE AND EA MAPPING

The proposed residential conversion is classed as 'more vulnerable' in Table 2 and is 'appropriate' in Flood Zone 1 as per Table 3 of the Technical Guidance to the NPPF. There is no need for the exception test or the sequential test. The two lower ground floor flats at the front of the existing building are different as they are 'defended' development with a defence standard of 1 in 1000 year.

Types of flooding that could affect the site are:

1. River - the site is mainly Flood Zone 1 above any local 1 in 1000 year risk levels next to Wilmslow Rd. The two lower ground floor flats at the front of the property are defended Flood Zone 3a, defended to a 1 in 1000 year risk standard whilst the lower ground floor flats at the rear of the property lies in Flood Zone 1.
2. Sea - no tidal influence.
3. Land - no undrained land slopes towards the site.
4. Groundwater – negligible risk (refer to Appendix 7).
5. Sewers - there are no local internet reports of sewer surcharge.
6. Reservoirs & canals - none nearby. All public reservoirs are maintained to a 1 in 10,000 year standard.

Environment Agency mapping is as follows:-

Flood Map for Planning - the site lies Flood Zone 1, 2, and 3a.

Risk of flooding from rivers and sea - this shows the effect of any flood defences.

Flood warning service - this is available for the site.

Groundwater – negligible risk (refer to Appendix 7 for details).

Risk of flooding from reservoirs - this shows reservoir risk - all utility company reservoirs are maintained to a 1 in 10,000 year risk standard under the Reservoirs Act legislation and this is a very rare and unlikely risk.

Risk of flooding from surface water - this mapping shows surface water flood risk. Pluvial mapping is the subject of a separate Environment Agency paper and is useful in locating possible ground low points and depressions. We quote - 'the conveyance effect of ordinary watercourses or drainage channels is not explicitly modelled' - so whilst the EA mapping shows pathways and confirms the stream paths the mapping generally takes little account of any existing drainage and in practice there is a very low risk.

The mapping is based on JFlow software and the EA paper 'National Scale Surface Water Flood Mapping Methodology' states that the method does not take account of existing drainage systems except by subtracting an average rain depth from storm profiles.

8.0 RESPONSE TO EA / LLFA CONSULTATION COMMENTS

The Environment Agency consultation response letter dated 6 September 2021 (refer to Appendix 8) sets out five specific reasons for objecting to the granting of planning permission – responses to each of these reasons is set out below using the same numbering system as the Agency letter:

1. The ground floor building entrances lie at a minimum level of 37.23m AOD which is 1640mm above 1 in 1000 year risk level and 1710mm above the EA 1 in 100 year + 35% climate change data supplied to us (refer to Appendix 3).
2. Compensatory flood storage has been proposed by lowering the rear car park by 160mm (refer to section 5 of this report).
3. The area has underground river culverts and combined sewers plus highway drains. The flood mode is therefore one of reverse flow out of river culvert highway drain connections. Accordingly, the pattern is slow velocity road ponding with the 'degree of flood hazard' as 'low' as per page 8 of FD2321/TR1 (refer to Appendix 10).
4. The proposal has entrance threshold levels significantly higher than the 1 in 1000 year + climate change risk levels and the proposed basements with pumped drainage are completely separate with no backflow - all the proposals are therefore Flood Zone 1 or defended Flood Zone 1. The basement is defended as we are effectively 'engineering' it to be so by having no internal drains that could be subject to flooding – all surface water drainage will remain external and all foul drainage is to be pumped.
5. In terms of emergency planning, the building occupants will sign up to receive flood warnings from the Environment Agency and should the roads next to the site start to shallow flood, they can walk south into Withington village which is higher and in Flood Zone 1 as per the flood map for planning.

The Manchester LLFA consultation response commentary dated 18 August 2021 (refer to Appendix 8) details proposed two planning conditions in relation to the application – responses to each of these proposed conditions is set out below:

Condition 1

Bullet point 1: All forms of flooding are considered in this report including data to confirm that groundwater flood risk at the site is negligible

Bullet point 2: The proposed scheme ‘reduces’ 1 in 100 year plus climate change volume at the site which equates to circa 65m³ – lowering the circa 25m x 15m rear car park area by 160mm will cater for the required storage volume.

Bullet point 3: The Architect has issued updated plans (refer to Appendix 6) to show finished floor levels for the ground floor and basement levels together with estimated flood levels.

Bullet point 4: To waterproof the existing building basement areas, we advise an internal waterproof concrete tanking system. For the new basements, we advise integrated waterproof concrete floors and walls with hydrophilic water bars at joints.

Bullet point 5: If we lower the rear car park by circa 160mm, this will prevent any displacement of floodwater

Bullet point 6: The Architect has issued updated plans (refer to Appendix 6) to describe the proposed flood evacuation plan.

Condition 2

This condition relates to the surface water drainage design for the project

Bullet point 1: It has been agreed, through later correspondence with the LLFA that, in this specific case, no soakaway testing or soakaway drainage is required due to pragmatic / spatial related considerations.

Bullet point 2: An existing drainage survey has been undertaken to address this item - we propose to utilise the existing surface and foul water discharge points to the adopted sewerage system in the post-development situation. As agreed with Oliver Timmins of the LLFA, a flow restriction is to be installed for post-development surface water runoff to ensure a degree of betterment to the UU network.

Bullet point 3: This point has now been removed from the latest LLFA proposed drainage related planning conditions.

Bullet point 4: This point has now been removed from the latest LLFA proposed drainage related planning conditions.

Bullet point 5: Agreed - provided with this report, refer to Appendices 11 to 13 inclusive.

Bullet point 6: Agreed - provided with this report, refer to section 9.

Integra Consulting e-mail dated 19 November 2021 addressed to the LPA officer (refer to Appendix 8) covers the following points as agreed with the LLFA:

- Proposed lower ground floor plan illustrating all the finished floor levels of the new and existing basement dwelling required - *The Architect has issued updated plans (refer to Appendix 6) to show finished floor levels for the ground floor and basement levels together with estimated flood levels.*
- Sight of the EA correspondence which stipulates that a finished floor level of 36.12mAOD is an appropriate minimum floor level – *it is understood that this level has been discussed and agreed by a previous flood risk consultant with the statutory flood risk authorities in relation to this development. This agreed basement FFL of 36.12m AOD corresponds to the 1 in 100 year + 35% cc (35.52m AOD) plus 600mm freeboard level. Based on the current EA modelling data provided for this site, this proposed FFL of 36.12m AOD compares favourably with a risk level average of the relevant nodes for 1 in 1000 plus 30% climate change risk of 35.5m AOD which demonstrates the adequacy of the proposed FFL in flood risk terms.*
- Why are some basement floor levels are being raised to 36.12mAOD and others are only being raised to 34.85mAOD – *given that we understand that an FFL of 36.12m AOD had previously been discussed and agreed with the statutory flood risk authorities, this has been proposed as the basement FFL to the whole floor area of the new flats. This proposed FFL lies above the risk level average of the relevant nodes for 1 in 1000 plus 30% climate change risk of 35.5m AOD which demonstrates the adequacy of this proposed FFL in flood risk terms. It is also noted that all areas within the existing building and the proposed extension are guarded against the 1 in 1000 year plus climate change event either by the proposed drainage measures and/or by the proposed FFL's.*

- Details and calculations of how the compensatory storage volumes have been calculated – *as stated in item 4 of section 5.0 of our FRA, this storage volume is provided by lowering the existing 25m x 15m rear car park by circa 160mm. The replacement volume of 25 x 15 x 0.16 = 61m³ compensates for top of Flood Zone 3a + climate change level of 35.25m AOD (average of the 4 No applicable nodes). The volume taken up by the new extension is 90m² x 0.55m = 50m³. The 0.55m figure is derived from the difference between 35.25m AOD (average of the 4 No applicable nodes) and 34.7m AOD (average level of existing ground in the extension area).*

The Manchester LLFA consultation response commentary dated 14 December 2021 (refer to Appendix 8) details proposed two updated planning conditions in relation to the application – responses to each of these proposed conditions is set out below:

Condition 1

Bullet point 1: It has been agreed, through later correspondence with the LLFA (refer to Appendix 8) that, in this specific case, no soakaway testing or soakaway drainage is required due to pragmatic / spatial related considerations.

An existing drainage survey has been undertaken as we propose to utilise the existing surface and foul water discharge points to the adopted sewerage system in the post-development situation. As agreed with the LLFA in our e-mail exchange dated 22 December 2021, a flow restriction is to be installed for post-development surface water runoff to ensure a degree of betterment to the UU network.

The existing drainage survey that has been undertaken (refer to Appendix 14 for details) has been used as a basis for developing a schematic drainage drawing and associated design calculations – refer to Appendices 11 to 13 inclusive for details.

All other bullet points agreed.

Condition 2

Agreed.

9.0 MANAGEMENT AND MAINTENANCE OF SUDS

The management and maintenance of the SuDS measures to serve the proposed development will be undertaken by a maintenance management company to be appointed for the project. The appointment of the maintenance and management company is to be confirmed at the completion of the build phase. All parts of the drainage network are to be accessible and are to be constructed from materials that are suitable and robust for the lifetime of the development.

The maintenance activities required for the drainage network are as follows:

Cellular Storage Structure

The maintenance for the cellular storage structure is as follows:

Operation	Frequency
Inspect and identify any areas that are not operating correctly and if required take remedial actions	Monthly for three months then six monthly intervals
Debris caused from catchment surface (where it may cause risk to performance)	Monthly
Where rainfall infiltration into cellular storage from above, check surface or filter for blockage or silt, algae or other matter by jetting	As required but at least twice a year
Remove sediment from upstream surface water network by jetting	Annually or as required
Repair / check all inlets, outlets, overflows and vents	As required
Inspect / check all inlets, outlets, vents and overflows to ensure that they are in good condition and operating as designed	Annually and after severe storms

Flow Control

The maintenance for the flow control is as follows:

Operation	Frequency
Inspect and identify any areas that are not operating correctly, if required take remedial actions	Monthly for three months then at six monthly intervals
Debris removal from catchment surface (where it may cause risk to performance)	Monthly
Check control chamber for blockage or silt, algae or other matter by jetting	As required, but at least four times a year
Remove sediment from upstream drainage network and sediment from within manhole by jetting	As required, but at least twice a year
Repair / check all inlets and control mechanics	As required
Inspect / check all inlets and control mechanics to ensure that they are operating as designed	Twice a year as a minimum and after severe storm events

Flow Control Chamber Design Criteria

In addition to the above maintenance methods, the flow control chamber will be designed so it works effectively throughout the lifespan of the development and will have precautionary features to ensure maintenance work can be carried out promptly and efficiently to ensure no control failure which may otherwise subsequently lead to flooding.

Details of the flow control chamber are as follows:

High Water Level Alarm: Alarm installed and directed to site maintenance team

Spares: Control spares to be kept on site for efficient maintenance

Linear (ACO) Drainage

The maintenance for the ACO drainage channel is as follows strictly in line with the manufacturers published details:

Operation	Frequency
Gain access to the sump or access unit and remove the silt bucket. Dispose of contents responsibly and clean the silt bucket.	Monthly
Position jetting unit near the access unit, introduce a suction hose into the sump area to remove the silt / detritus that the jetting hose flushes out.	Monthly
Clean linear slot drain grating using a pressure jet through the slot with a standard hand held attachment and repeat flushing of the channel Examine slot drain for damage. Grating slot and exposed edges of channel are to be examined to ensure that locking mechanisms and bolts are all tight.	Monthly Every six months

Flood Routes

A visual monthly inspection of flood routes should be made in order to check that routes are not blocked by new fences, walls, soil or other rubbish with removal undertaken as necessary.

Spillage – Emergency Action

Most spillages on development sites are of compounds that do not pose a serious risk to the environment as they enter the drainage system in a slow and controlled manner with time available for natural breakdown in a treatment system. Therefore, small spillages of oil, milk or other known organic substances should be removed where possible using soak mats as recommend by the Environment Agency with residual spillage allowed to bio-remediate in the drainage system.

In the event of a serious spillage, either by volume or of unknown or toxic compounds, then the spillage should be isolated using soil, turf or fabric and outlet pipes from chambers downstream of the spillage blocked with bungs. Bungs for blocking pipes may be made by wrapping soil or turf in a plastic sheet or close woven fabric. The Environment Agency should be contacted immediately.

Linked and Further Maintenance

The maintenance of the drainage network and SuDS features is to be linked with the landscape maintenance plan for the proposed development.

Maintenance Activities

A log of all maintenance activities is to be kept and made available to the Local Planning Authority (LPA) and / or the Lead Local Flood Authority (LLFA) on request.

APPENDIX

APPENDIX 1

SITE LOCATION PLAN & AERIAL VIEW OF BUILDING



PROJECT		Refurbishment and Extension 402 and 404 Willow Rd, Wlthington Manchester.	
SCALE	1 : 1000 @ A3	CLIENT	Concorde No.1 Ltd
DWG NO.	131-2-PL- OS1	DRAWING TITLE	OS Location plan.
CONTRACT NO.	131-2	ISSUE CODE	planning
ISSUED	15/04/21	REV.	-
		 simon james architects UK: 120 Grosvenor St, 8th Floor, Manchester, M1 7PL	

M20 3BN

Write a description for your map.

Legend

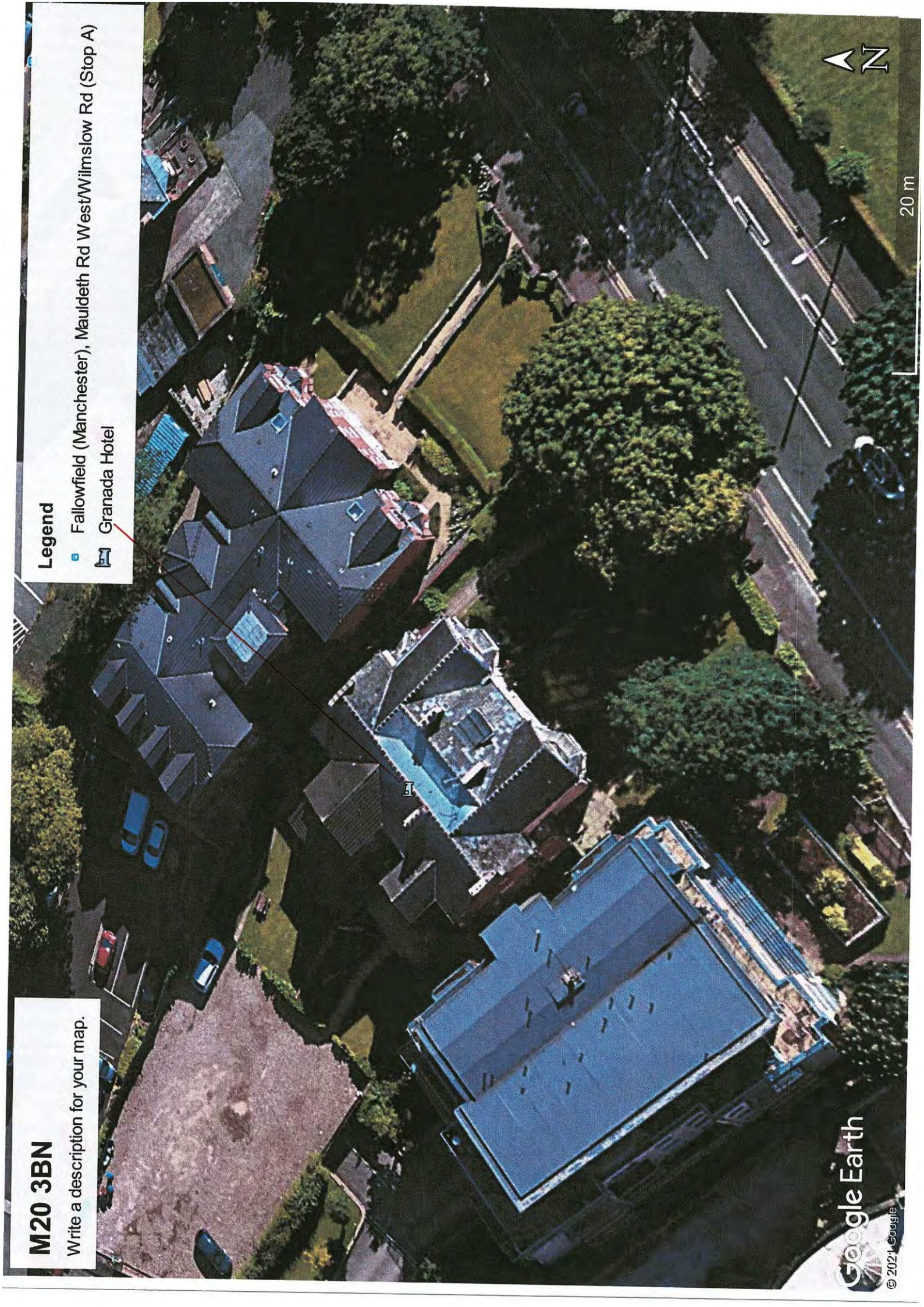
-  Fallowfield (Manchester), Mauldeth Rd West/Wilmslow Rd (Stop A)
-  Granada Hotel

Google Earth

© 2021 Google



20 m

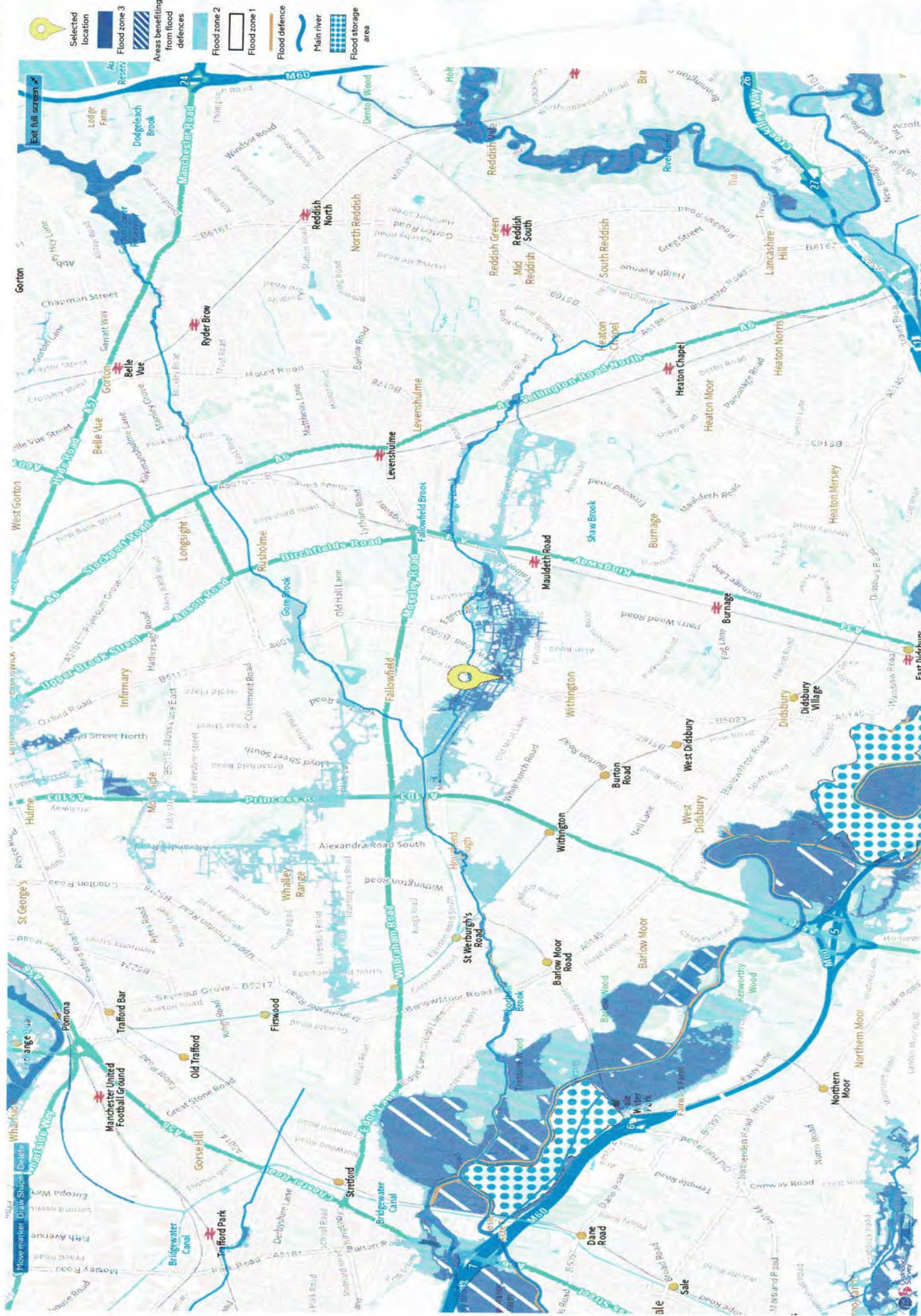


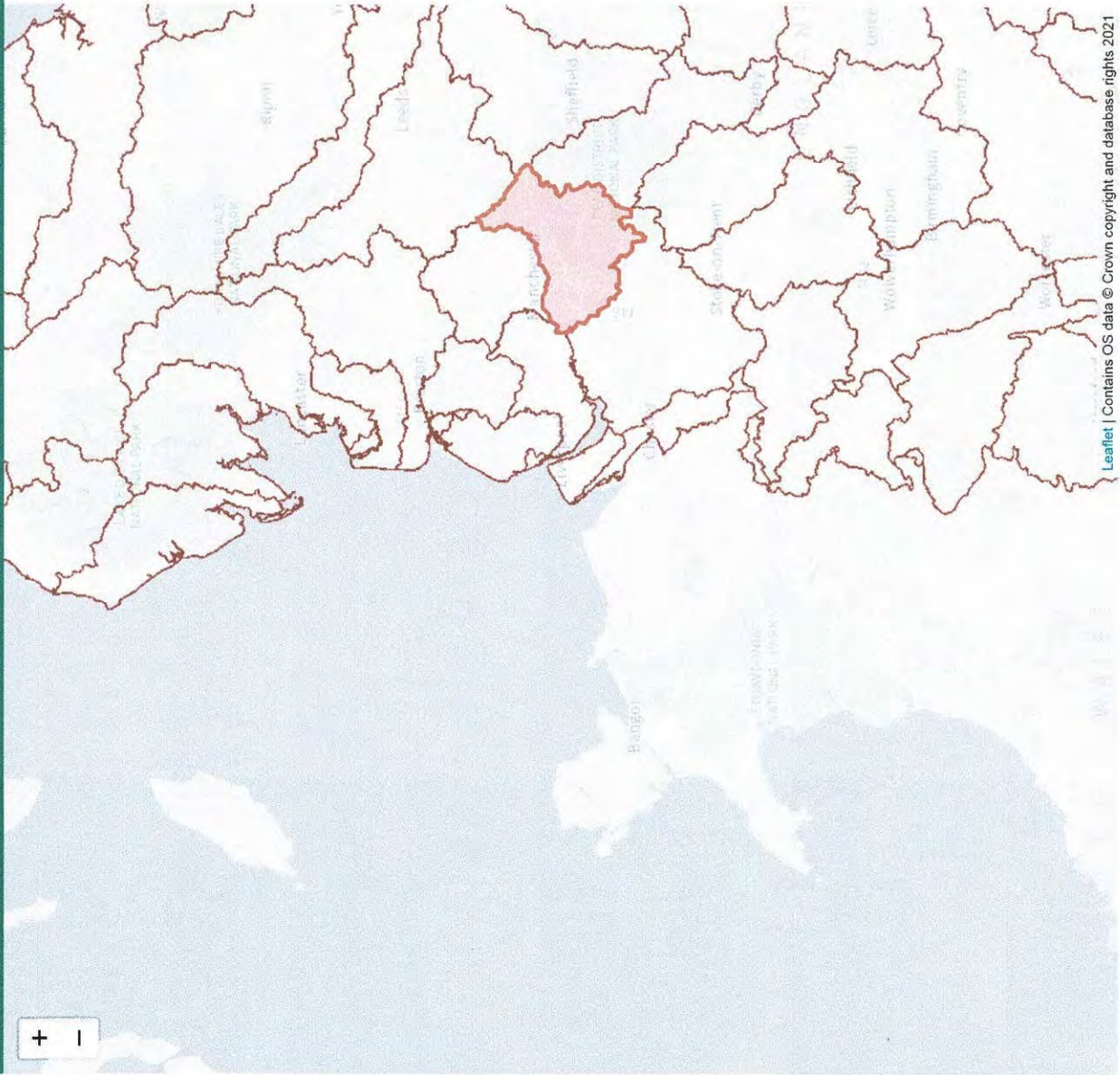
APPENDIX 2

TOPOGRAPHICAL SURVEY

APPENDIX 3

ENVIRONMENT AGENCY FLOOD DATA / MAPS / RISK LEVELS





Upper Mersey Management Catchment peak river flow allowances

	Central	Higher	Upper
2020s	13%	17%	27%
2050s	22%	31%	51%
2080s	41%	53%	85%

This map contains information generated by [UK Centre for Ecology and Hydrology](#), using UK Climate projections.

Leaflet | Contains OS data © Crown copyright and database rights 2021



Flood map for planning

BETA

This is a new service – your [feedback \(/feedback\)](#) will help us to improve it.

Likelihood of flooding in this area

This location is in an area with a low probability of flooding

FLOOD ZONE 1

Land and property in flood zone 1 have a low probability of flooding

[More information about flood zones](#)

<http://planningguidance.communities.gov.uk/blog/guidance/flood-risk-and-coastal-change/flood-zone-and-flood-risk-tables/table-1-flood-zones>

1

You don't need to do a [flood risk assessment](#)

([https://www.gov.uk/guidance/flood-risk-](https://www.gov.uk/guidance/flood-risk-assessment-for-planning-applications)

[assessment-for-planning-applications](https://www.gov.uk/guidance/flood-risk-assessment-for-planning-applications)) if your

development is in flood zone 1 and:

- smaller than one hectare

- is not affected by sources of flooding other than rivers and the sea, for example surface water drains

2

If your development is in flood zone 1 and:

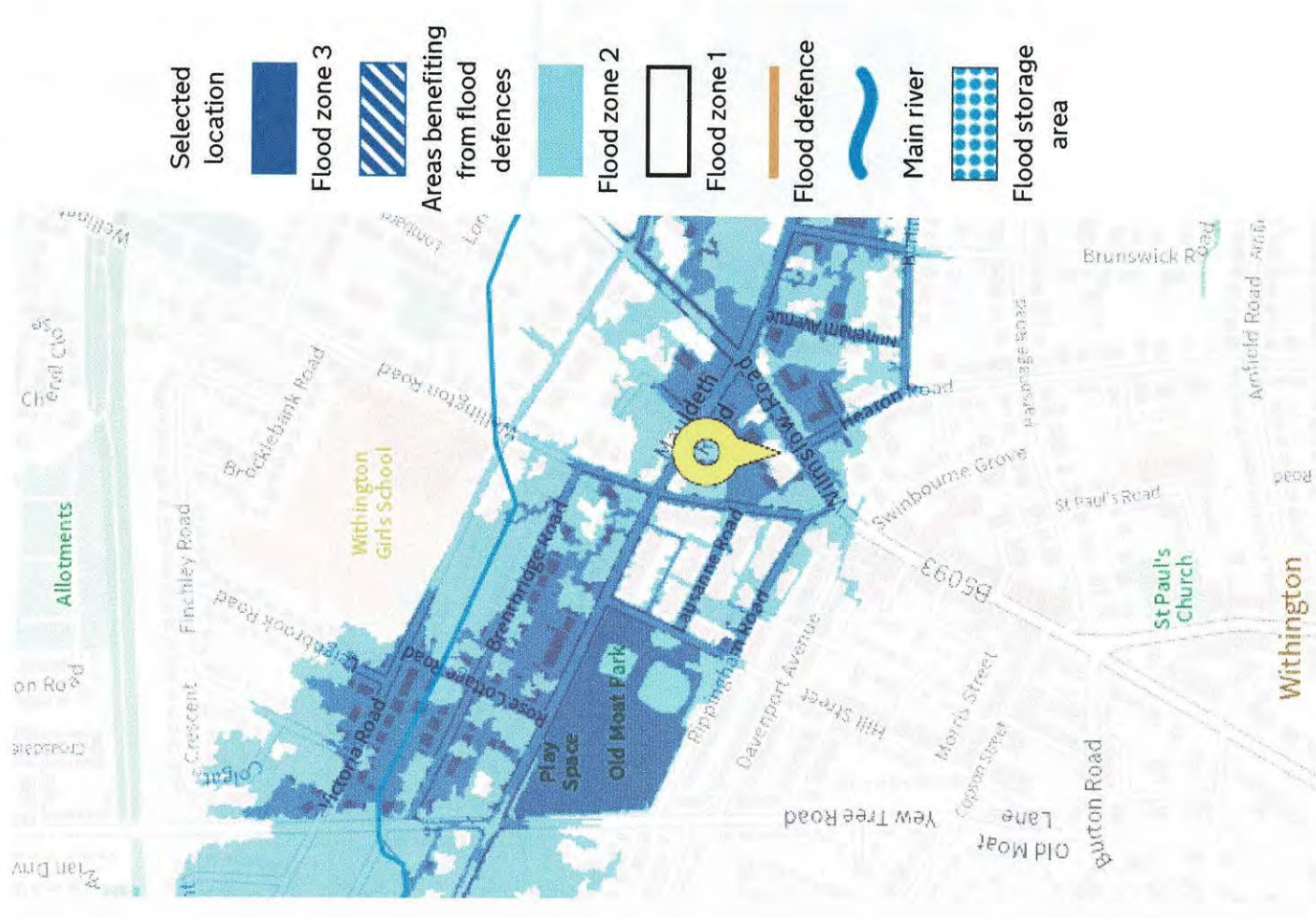
- larger than one hectare
- is affected by sources of flooding other than rivers and the sea, for example surface water drains

you can learn more about flood risk assessment in flood zone 1 (<https://www.gov.uk/guidance/flood-risk-assessment-in-flood-zone-1-and-critical-drainage-areas>)

3

You can also read more about flood risk assessments for planning applications (<https://www.gov.uk/guidance/flood-risk-assessment-for-planning-applications>)

Learn more about the potential sources of flood risk in this area (<https://flood-warning-information.service.gov.uk/long-term-flood-risk/map?easting=385067&northing=393252>)



Download this information (PDF)

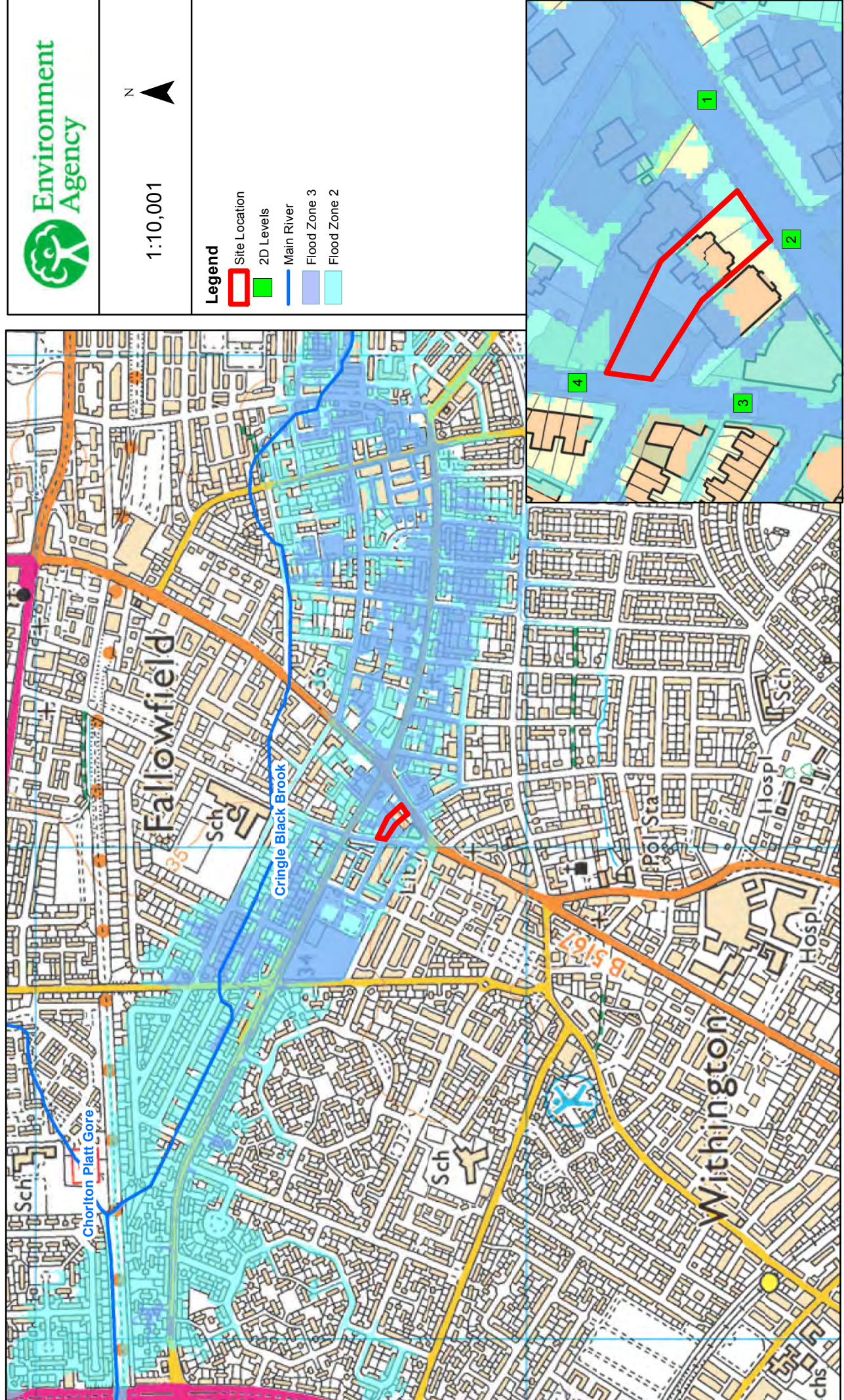
[Refine this search \(/confirm-location?easting=385067&northing=393252\)](#)

[Find out the flood probability for another location \(/\)](#)

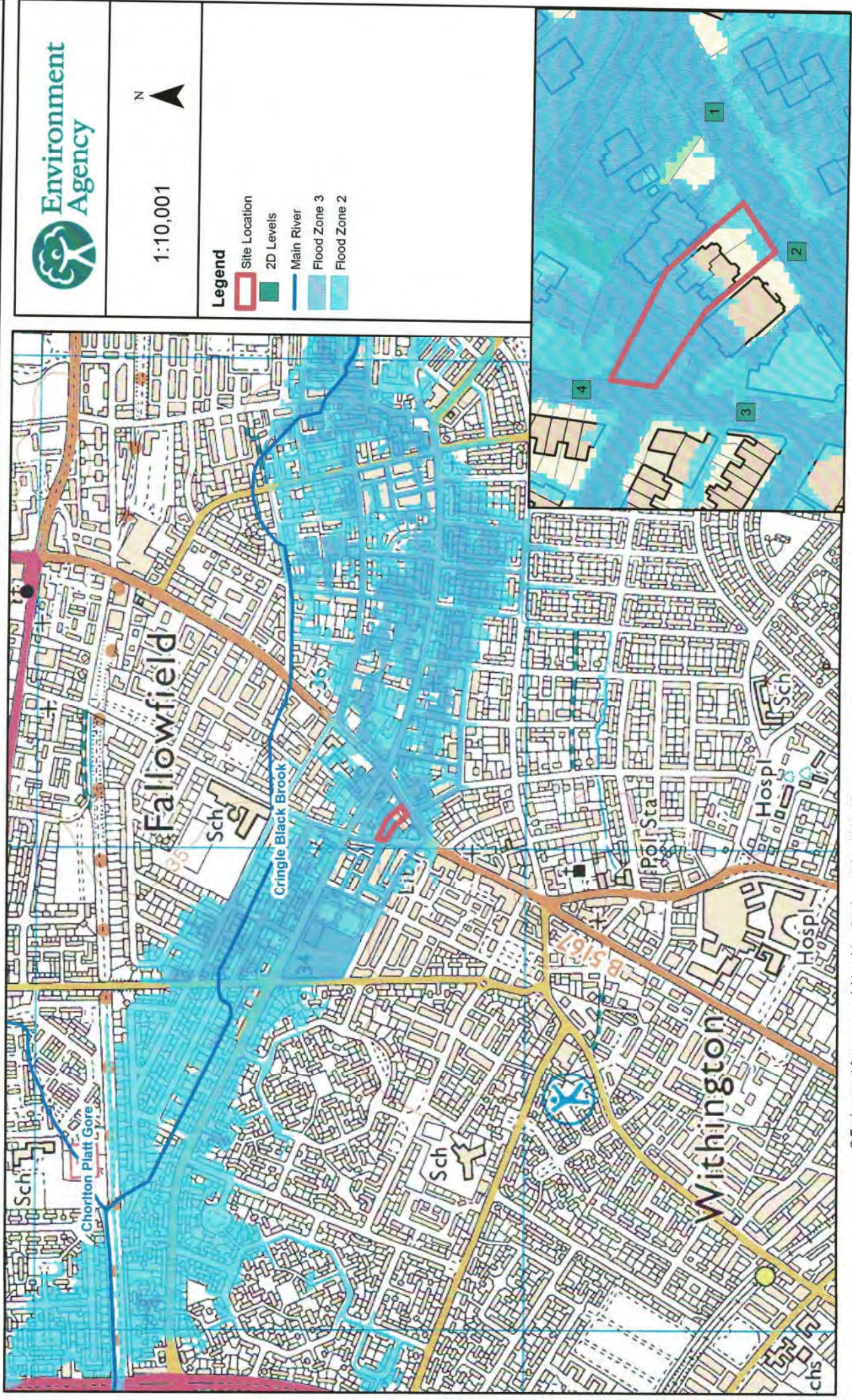
[You can use this information as part of a flood risk assessment for a planning application \(https://www.gov.uk/guidance/flood-risk-assessment-for-planning-applications#when-you-need-an-assessment\)](#)

▶ [Terms of use](#)

**Detailed Flood Map centred on Wilmslow Road, Withington, Manchester, M20 3BN.
Created on 13/11/2019 [GMMC149866AB]**



**Detailed Flood Map centred on Wilmslow Road, Withington, Manchester, M20 3BN.
Created on 13/11/2019 [GMMC149866AB]**



Sheet 1

sheet 2

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	900	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	940	941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	960	961	962	963	964	965	966	967	968	969	970	971	972	973	974	975	976	977	978	979	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000
MP 1	0.0000	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																

13th November 2019

Sheet 1

V100

Model Node Name	Building	Node ID	Class	10% AEP (1 in 10 year)	5% AEP (1 in 20 year)	4% AEP (1 in 25 year)	2% AEP (1 in 50 year)	1.33% AEP (1 in 75 year)	1% AEP (1 in 100 year)	% AEP (1 in 100 years) - 25% increase in flow	% AEP (1 in 100 years) - 50% increase in flow	% AEP (1 in 100 years) - 75% increase in flow	0.2% AEP (1 in 500 year)	0.1% AEP (1 in 1000 year)
2D Lane	345120	362208	Modelled Water Level (m aodfl)	35.43	35.48	35.48	35.48	35.48	35.50	35.51	35.52	35.53	35.50	35.49
	345059	362206	Modelled Water Level (m aodfl)	35.30	35.36	35.36	35.37	35.37	35.38	35.41	35.42	35.49	35.40	35.38
	345098	362202	Modelled Water Level (m aodfl)	35.03	35.02	35.04	35.04	35.04	35.04	35.06	35.07	35.10	35.05	35.05
	345016	362314	Modelled Water Level (m aodfl)	34.82	34.84	34.85	34.85	34.87	34.88	35.03	35.04	35.08	35.01	35.20

Model data taken from Cragg Brook 2017 Study

AEP - Annual Exceedance Probability

m aodfl - metres above ordnance datum (NNyr)

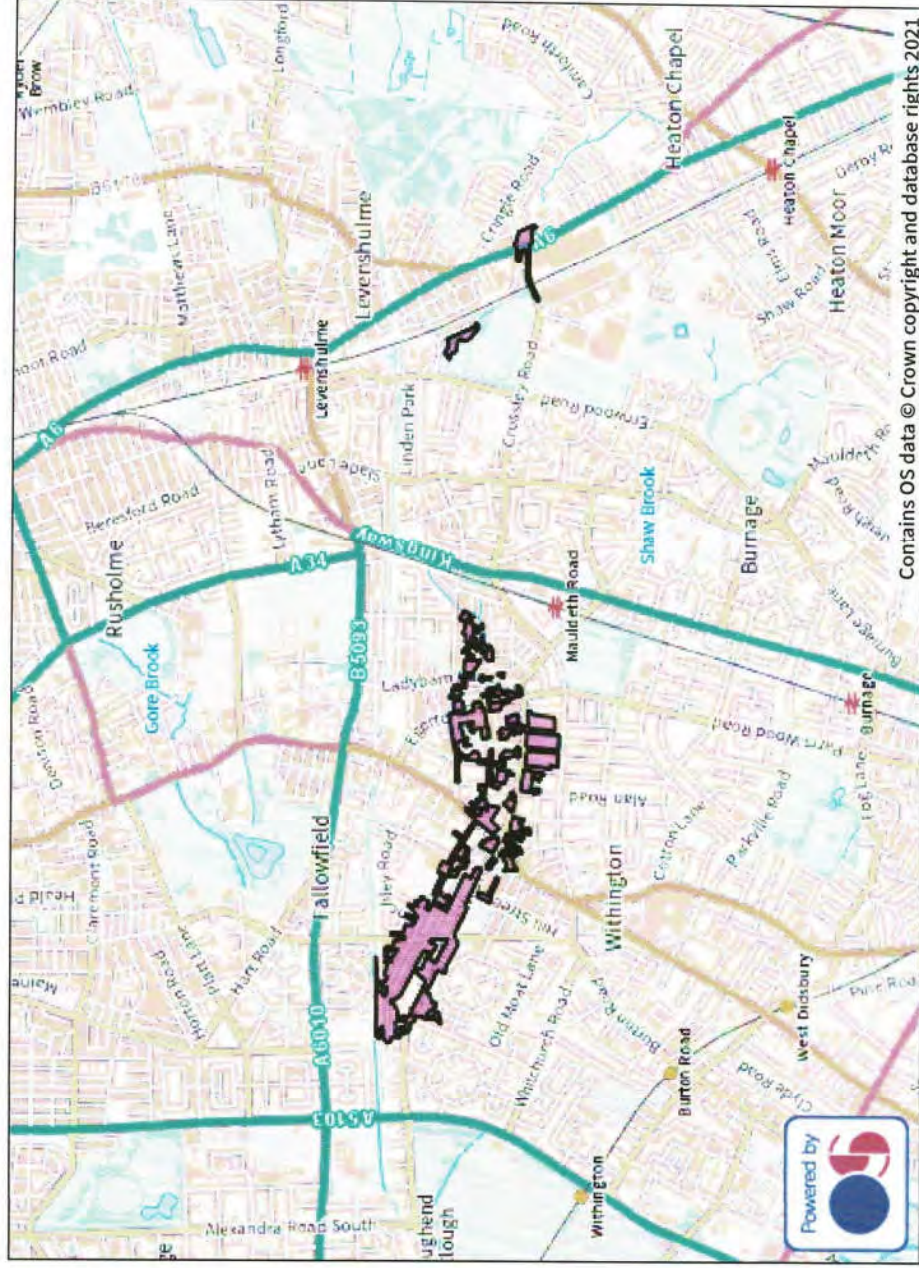
Note:

*Climate Change Scenario - 30%, 35% and 70% increases in flow calculated for the 2080s (2070 - 2115). Please see <https://www.gov.uk/guidance/food-risk-assessments-climate-change-allowance> for more information regarding the new climate change guidance. The location of the site and the type (vulnerability) of development determine the climate change allowances to consider in any food risk assessment.

	1. % AEP (1 in 100 year) 25% increase in flow	2.5 % AEP (1 in 250 year) 25% increase in flow	5 % AEP (1 in 500 year) 25% increase in flow	10 % AEP (1 in 1000 year) 25% increase in flow	15 % AEP (1 in 1500 year) 25% increase in flow	20 % AEP (1 in 2000 year) 25% increase in flow	25 % AEP (1 in 2500 year) 25% increase in flow	30 % AEP (1 in 3000 year) 25% increase in flow	35 % AEP (1 in 3500 year) 25% increase in flow	40 % AEP (1 in 4000 year) 25% increase in flow	45 % AEP (1 in 4500 year) 25% increase in flow	50 % AEP (1 in 5000 year) 25% increase in flow	55 % AEP (1 in 5500 year) 25% increase in flow	60 % AEP (1 in 6000 year) 25% increase in flow	65 % AEP (1 in 6500 year) 25% increase in flow	70 % AEP (1 in 7000 year) 25% increase in flow	75 % AEP (1 in 7500 year) 25% increase in flow	80 % AEP (1 in 8000 year) 25% increase in flow	85 % AEP (1 in 8500 year) 25% increase in flow	90 % AEP (1 in 9000 year) 25% increase in flow	95 % AEP (1 in 9500 year) 25% increase in flow	100 % AEP (1 in 10000 year) 25% increase in flow																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
1 in 100 + 35% cc	35.02	35.53	35.50	35.59	35.66	35.72	35.78	35.84	35.90	35.96	36.02	36.08	36.14	36.20	36.26	36.32	36.38	36.44	36.50	36.56	36.62	36.68	36.74	36.80	36.86	36.92	36.98	37.04	37.10	37.16	37.22	37.28	37.34	37.40	37.46	37.52	37.58	37.64	37.70	37.76	37.82	37.88	37.94	38.00	38.06	38.12	38.18	38.24	38.30	38.36	38.42	38.48	38.54	38.60	38.66	38.72	38.78	38.84	38.90	38.96	39.02	39.08	39.14	39.20	39.26	39.32	39.38	39.44	39.50	39.56	39.62	39.68	39.74	39.80	39.86	39.92	39.98	40.04	40.10	40.16	40.22	40.28	40.34	40.40	40.46	40.52	40.58	40.64	40.70	40.76	40.82	40.88	40.94	41.00	41.06	41.12	41.18	41.24	41.30	41.36	41.42	41.48	41.54	41.60	41.66	41.72	41.78	41.84	41.90	41.96	42.02	42.08	42.14	42.20	42.26	42.32	42.38	42.44	42.50	42.56	42.62	42.68	42.74	42.80	42.86	42.92	42.98	43.04	43.10	43.16	43.22	43.28	43.34	43.40	43.46	43.52	43.58	43.64	43.70	43.76	43.82	43.88	43.94	44.00	44.06	44.12	44.18	44.24	44.30	44.36	44.42	44.48	44.54	44.60	44.66	44.72	44.78	44.84	44.90	44.96	45.02	45.08	45.14	45.20	45.26	45.32	45.38	45.44	45.50	45.56	45.62	45.68	45.74	45.80	45.86	45.92	45.98	46.04	46.10	46.16	46.22	46.28	46.34	46.40	46.46	46.52	46.58	46.64	46.70	46.76	46.82	46.88	46.94	47.00	47.06	47.12	47.18	47.24	47.30	47.36	47.42	47.48	47.54	47.60	47.66	47.72	47.78	47.84	47.90	47.96	48.02	48.08	48.14	48.20	48.26	48.32	48.38	48.44	48.50	48.56	48.62	48.68	48.74	48.80	48.86	48.92	48.98	49.04	49.10	49.16	49.22	49.28	49.34	49.40	49.46	49.52	49.58	49.64	49.70	49.76	49.82	49.88	49.94	50.00	50.06	50.12	50.18	50.24	50.30	50.36	50.42	50.48	50.54	50.60	50.66	50.72	50.78	50.84	50.90	50.96	51.02	51.08	51.14	51.20	51.26	51.32	51.38	51.44	51.50	51.56	51.62	51.68	51.74	51.80	51.86	51.92	51.98	52.04	52.10	52.16	52.22	52.28	52.34	52.40	52.46	52.52	52.58	52.64	52.70	52.76	52.82	52.88	52.94	53.00	53.06	53.12	53.18	53.24	53.30	53.36	53.42	53.48	53.54	53.60	53.66	53.72	53.78	53.84	53.90	53.96	54.02	54.08	54.14	54.20	54.26	54.32	54.38	54.44	54.50	54.56	54.62	54.68	54.74	54.80	54.86	54.92	54.98	55.04	55.10	55.16	55.22	55.28	55.34	55.40	55.46	55.52	55.58	55.64	55.70	55.76	55.82	55.88	55.94	56.00	56.06	56.12	56.18	56.24	56.30	56.36	56.42	56.48	56.54	56.60	56.66	56.72	56.78	56.84	56.90	56.96	57.02	57.08	57.14	57.20	57.26	57.32	57.38	57.44	57.50	57.56	57.62	57.68	57.74	57.80	57.86	57.92	57.98	58.04	58.10	58.16	58.22	58.28	58.34	58.40	58.46	58.52	58.58	58.64	58.70	58.76	58.82	58.88	58.94	59.00	59.06	59.12	59.18	59.24	59.30	59.36	59.42	59.48	59.54	59.60	59.66	59.72	59.78	59.84	59.90	59.96	60.02	60.08	60.14	60.20	60.26	60.32	60.38	60.44	60.50	60.56	60.62	60.68	60.74	60.80	60.86	60.92	60.98	61.04	61.10	61.16	61.22	61.28	61.34	61.40	61.46	61.52	61.58	61.64	61.70	61.76	61.82	61.88	61.94	62.00	62.06	62.12	62.18	62.24	62.30	62.36	62.42	62.48	62.54	62.60	62.66	62.72	62.78	62.84	62.90	62.96	63.02	63.08	63.14	63.20	63.26	63.32	63.38	63.44	63.50	63.56	63.62	63.68	63.74	63.80	63.86	63.92	63.98	64.04	64.10	64.16	64.22	64.28	64.34	64.40	64.46	64.52	64.58	64.64	64.70	64.76	64.82	64.88	64.94	65.00	65.06	65.12	65.18	65.24	65.30	65.36	65.42	65.48	65.54	65.60	65.66	65.72	65.78	65.84	65.90	65.96	66.02	66.08	66.14	66.20	66.26	66.32	66.38	66.44	66.50	66.56	66.62	66.68	66.74	66.80	66.86	66.92	66.98	67.04	67.10	67.16	67.22	67.28	67.34	67.40	67.46	67.52	67.58	67.64	67.70	67.76	67.82	67.88	67.94	68.00	68.06	68.12	68.18	68.24	68.30	68.36	68.42	68.48	68.54	68.60	68.66	68.72	68.78	68.84	68.90	68.96	69.02	69.08	69.14	69.20	69.26	69.32	69.38	69.44	69.50	69.56	69.62	69.68	69.74	69.80	69.86	69.92	69.98	70.04	70.10	70.16	70.22	70.28	70.34	70.40	70.46	70.52	70.58	70.64	70.70	70.76	70.82	70.88	70.94	71.00	71.06	71.12	71.18	71.24	71.30	71.36	71.42	71.48	71.54	71.60	71.66	71.72	71.78	71.84	71.90	71.96	72.02	72.08	72.14	72.20	72.26	72.32	72.38	72.44	72.50	72.56	72.62	72.68	72.74	72.80	72.86	72.92	72.98	73.04	73.10	73.16	73.22	73.28	73.34	73.40	73.46	73.52	73.58	73.64	73.70	73.76	73.82	73.88	73.94	74.00	74.06	74.12	74.18	74.24	74.30	74.36	74.42	74.48	74.54	74.60	74.66	74.72	74.78	74.84	74.90	74.96	75.02	75.08	75.14	75.20	75.26	75.32	75.38	75.44	75.50	75.56	75.62	75.68	75.74	75.80	75.86	75.92	75.98	76.04	76.10	76.16	76.22	76.28	76.34	76.40	76.46	76.52	76.58	76.64	76.70	76.76	76.82	76.88	76.94	77.00	77.06	77.12	77.18	77.24	77.30	77.36	77.42	77.48	77.54	77.60	77.66	77.72	77.78	77.84	77.90	77.96	78.02	78.08	78.14	78.20	78.26	78.32	78.38	78.44	78.50	78.56	78.62	78.68	78.74	78.80	78.86	78.92	78.98	79.04	79.10	79.16	79.22	79.28	79.34	79.40	79.46	79.52	79.58	79.64	79.70	79.76	79.82	79.88	79.94	80.00	80.06	80.12	80.18	80.24	80.30	80.36	80.42	80.48	80.54	80.60	80.66	80.72	80.78	80.84	80.90	80.96	81.02	81.08	81.14	81.20	81.26	81.32	81.38	81.44	81.50	81.56	81.62	81.68	81.74	81.80	81.86	81.92	81.98	82.04	82.10	82.16	82.22	82.28	82.34	82.40	82.46	82.52	82.58	82.64	82.70	82.76	82.82	82.88	82.94	83.00	83.06	83.12	83.18	83.24	83.30	83.36	83.42	83.48	83.54	83.60	83.66	83.72	83.78	83.84	83.90	83.96	84.02	84.08	84.14	84.20	84.26	84.32	84.38	84.44	84.50	84.56	84.62	84.68	84.74	84.80	84.86	84.92	84.98	85.04	85.10	85.16	85.22	85.28	85.34	85.40	85.46	85.52	85.58	85.64	85.70	85.76	85.82	85.88	85.94	86.00	86.06	86.12	86.18	86.24	86.30	86.36	86.42	86.48	86.54	86.60	86.66	86.72	86.78	86.84	86.90	86.96	87.02	87.08	87.14	87.20	87.26	87.32	87.38	87.44	87.50	87.56	87.62	87.68	87.74	87.80	87.86	87.92	87.98	88.04	88.10	88.16	88.22	88.28	88.34	88.40	88.46	88.52	88.58	88.64	88.70	88.76	88.82	88.88	88.94	89.00	89.06	89.12	89.18	89.24	89.30	89.36	89.42	89.48	89.54	89.60	89.66	89.72	89.78	89.84	89.90	89.96	90.02	90.08	90.14	90.20	90.26	90.32	90.38	90.44	90.50	90.56	90.62	90.68	90.74	90.80	90.86	90.92	90.98	91.04	91.10	91.16	91.22	91.28	91.34	91.40	91.46	91.52	91.58	91.64	91.70	91.76	91.82	91.88	91.94	92.00	92.06	92.12	92.18	92.24	92.30	92.36	92.42	92.48	92.54	92.60	92.66	92.72	92.78	92.84	92.90	92.96	93.02	93.08	93.14	93.20	93.26	93.32	93.38	93.44	93.50	93.56	93.62	93.68	93.74	93.80	93.86	93.92	93.98	94.04	94.10	94.16	94.22	94.28	94.34	94.40	94.46	94.52	94.58	94.64	94.70	94.76	94.82	94.88	94.94	95.00	95.06	95.12	95.18	95.24	95.30	95.36	95.42	95.48	95.54	95.60	95.66	95.72	95.78	95.84	95.90	95.96	96.02	96.08	96.14	96.20	96.26	96.32	96.38	96.44	96.50	96.56	96.62	96.68	96.74	96.80	96.86	96.92	96.98	97.04	97.10	97.16	97.22	97.28	97.34	97.40	97.46	97.52	97.58	97.64	97.70	97.76	97.82	97.88	97.94	98.00	98.06	98.12	98.18	98.24	98.30	98.36	98.42	98.48	98.54	98.60	98.66	98.72	98.78	98.84	98.90	98.96	99.02	99.08	99.14	99.20	99.26	99.32	99.38	99.44	99.50	99.56	99.62	99.68	99.74	99.80	99.86	99.92	99.98	100.04	100.10	100.16	100.22	100.28	100.34	100.40	100.46	100.52	100.58	100.64	100.70	100.76	100.82	100.88	100.94	101.00	101.06	101.12	101.18	101.24	101.30	101.36	101.42	101.48	101.54	101.60	101.66	101.72	101.78	101.84	101.90	101.96	102.02	102.08	102.14	102.20	102.26	102.32	102.38	102.44	102.50	102.56	102.62	102.68	102.74	102.80	102.86	102.92	102.98	103.04	103.10	103.16	103.22	103.28	103.34	103.40	103.46	103.52	103.58	103.64	103.70	103.76	103.82	103.88	103.94	104.00	104.06	104.12	104.18	104.24	104.30	104.36	104.42	104.48	104.54	104.60	104.66	104.72	104.78	104.84	104.90	104.96	105.02	105.08	105.14	105.20	105.26

Flood warning or alert area map

Cringle Brook at Withington, Fallowfield and Burnage



River Levels (1)

<https://riverlevels.uk>

Cringle Brook at Wittington, Fallowfield and Burnage



No current or recent warnings.

Flood Warning Area Details

Areas in the locality of Mauldeth Road, Includes properties from Mornington Crescent to Edgeworth Drive and also properties in the vicinity of Cringle Fields Park.

Region: North West

Counties covered: Manchester, Stockport

Watercourses covered: Cringle Brook

Area covered by this alert location

The area bounded in blue on the map shows the area covered by flood alerts and warnings for Cringle Brook at Wittington, Fallowfield and Burnage.

Icons on the map show nearby level monitoring stations. They are not necessarily related to this particular flood warning area.



EA node 1-1 in 100 - 35.5

- Site plan**
- Main pedestrian accesses via the existing front garden gates to Wilmslow rd.
 - Main pedestrian access into the building uses the existing entrance to 404 Wilmslow rd.
 - The existing 402 Wilmslow rd entrance will be a private entrance to Flat 5.
 - Private shared bike storage pods for 36 bikes, two 4 bike pods for 2 flats.
 - Level/ramped access to rear flats 2, 402 and 2, 404.
 - Front soft landscaped areas. Trees, hedges and shrubs retained.
 - Rear car parking for 20 cars. Access from Wilmslow road through Automatic electronic secure gate.
 - Bin stores with separated recycling adjacent to rear gate.
 - New trees and planting to the rear landscape.
- Site area: 1453m²

Materials Key

Landscape

SOFT LANDSCAPE ELEMENTS

- PG: Private Garden area. Hard landscaped patio areas with border planting.
- SG: Shared garden seating area. Hard landscaped patio areas with border planting.
- PG/L: Private garden area and Full height Garden Lightwell. Porous soft landscaping with gravel.
- L: Half height lightwell. Porous paving system with gravel draining edge strips.
- SL: New and or Retained Soft permeable landscape areas.
- ET: Existing trees to be protected and retained.
- NT: 1. Fagus Sylvatica 12-14 cm girth
2. Tilia cordata 12-14 cm girth
3. Betula pendula 12-14 cm girth
4. Malus sylvestris 12-14 cm girth
5. Ilex aquifolium 12-14 cm girth
6. Taxus baccata 12-14 cm girth
- ESH: Existing shrubs and or hedges to be retained.
- LA: Lawn.
- BP: S1 to S6: New shrubs to be RSPB approved to be bird friendly.
- Shrub 01 (S1) Berberis (Barberry)
Shrub 02 (S2) Cotoneaster (C. horizontalis)
Shrub 03 (S3) Juniperus shrubs Amelanchier lamarckii
Shrub 04 (S4) Hedging rose, Rosa rugosa
Shrub 05 (S5) Cornus: Californian ilex
Shrub 06 (S6) Mahonia blanda
- HE: Hedge Prunus padus, or Bird Cherry. RSPB approved Bird Friendly.

HARD LANDSCAPE ELEMENTS

- EHL: Existing gravelled car park area to be resurfaced with a porous tar-mac. Cemex Vistalux Asphalt with a new Reduced fine sub base in the drive areas and a fully porous decorative gravel parking bays demarcated with cobblestones.
- GP: New footpaths to be grey gravel with a central stone paving pathway.
- BN: Open Bin storage sheds.
- GW: General Waste.
- PR: Recyclable recycling.
- MR: Mixed recycling.
- FW: Food Waste.
- CP: Bin collection point.
- BK: Secure Bike storage room.
- P: Pedestrian access.
- V: Vehicular access.
- MH: Existing Man holes/inspection chambers.
- NMH: New Man hole.

Materials Key

Boundaries

- BA - Side Brickwall - Existing Brick wall to be retained.
- BB - Front Brickwall - Low Brick wall to be cleaned, repaired and repointed, existing gateways closed with matching brick, new opening made re-use existing stone post and re-estate missing post.
- BC - Rear brick wall - 0.6m tall new brick wall using site reclaimed bricks with a steel framed timber clad automated vehicle sliding gate and self closing locked pedestrian gate.
- BD - Timber fence - Repair and overclad existing fence internally with matching timber planks.
- BE - Timber fence - Remove concrete panel fence. Repair and overclad existing fence internally with matching timber planks.
- BF - Bin Store - 2.0m tall Timber fencing to match existing fence panels with vertical timber planks.
- BG - New Timber fence - Remove and replace timber fence to match existing.
- BH - Hedge - Retain existing hedge.
- BI - Dwarf reclaimed brick retaining wall with a stone coping.
- TP - Area with tactile pavement.

Materials Key

Exterior Lighting

- Ⓛ Low level Led low energy bollard light
- ⓁEW Low level Led low energy wall down light

- ⓈCCP 4m(25%) 7KW CAR CHARGING POINTS.
EV BOX BUSINESSLINE WITH DOUBLE SOCKET
- DUCT WITH EV CHARGING POINT SUPPLY CABLES.

EA node 1-1 in 1000 - 35.59

PROJECT			
Refurbishment and Extension 402 and 404 Wilmslow Rd, Withington Manchester.			
SCALE		CLIENT	
1:200 @ A3		Concorde No.1 Ltd	
DRAWING		DRAWING TITLE	
131-2-PL-GL1 revA		Proposed Site Plan	
CONTRACT NO.		DATE	
131.2		15/04/21	
ISSUED		DATE	
		12/07/21	
		a	
			
simon james arch architects 100 RANDELL ST, 10th FLOOR, MANCHESTER, M1 1PG			

APPENDIX 4

UNITED UTILITIES SEWER PLAN

Integra Consulting

**14-32
Hewitt Street,
Manchester,
M15 4GB**

FAO:

How to contact us:

**United Utilities Water Limited
Property Searches
Haweswater House
Lingley Mere Business Park
Great Sankey
Warrington
WA5 3LP**

Telephone: 0370 7510101

E-mail: propertysearches@uu plc.co.uk

**Your Ref: Withington
Our Ref: UUPS-ORD-307474
Date: 20/07/2021**

Dear Sirs

Location: FLAT 1 402 WILMSLOW ROAD, MANCHESTER, M20 3BN

I acknowledge with thanks your request dated 14/07/2021 for information on the location of our services.

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

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

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

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

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

Yours Faithfully,



Karen McCormack
Property Searches Manager

TERMS AND CONDITIONS - WASTEWATER AND WATER DISTRIBUTION PLANS

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

TERMS AND CONDITIONS:

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



Year	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	2101	2102	2103	2104	2105	2106	2107	2108	2109	2110	2111	2112	2113	2114	2115	2116	2117	2118	2119	2120	2121	2122	2123	2124	2125	2126	2127	2128	2129	2130	2131	2132	2133	2134	2135	2136	2137	2138	2139	2140	2141	2142	2143	2144	2145	2146	2147	2148	2149	2150	2151	2152	2153	2154	2155	2156	2157	2158	2159	2160	2161	2162	2163	2164	2165	2166	2167	2168	2169	2170	2171	2172	2173	2174	2175	2176	2177	2178	2179	2180	2181	2182	2183	2184	2185	2186	2187	2188	2189	2190	2191	2192	2193	2194	2195	2196	2197	2198	2199	2200	2201	2202	2203	2204	2205	2206	2207	2208	2209	2210	2211	2212	2213	2214	2215	2216	2217	2218	2219	2220	2221	2222	2223	2224	2225	2226	2227	2228	2229	2230	2231	2232	2233	2234	2235	2236	2237	2238	2239	2240	2241	2242	2243	2244	2245	2246	2247	2248	2249	2250	2251	2252	2253	2254	2255	2256	2257	2258	2259	2260	2261	2262	2263	2264	2265	2266	2267	2268	2269	2270	2271	2272	2273	2274	2275	2276	2277	2278	2279	2280	2281	2282	2283	2284	2285	2286	2287	2288	2289	2290	2291	2292	2293	2294	2295	2296	2297	2298	2299	2300	2301	2302	2303	2304	2305	2306	2307	2308	2309	2310	2311	2312	2313	2314	2315	2316	2317	2318	2319	2320	2321	2322	2323	2324	2325	2326	2327	2328	2329	2330	2331	2332	2333	2334	2335	2336	2337	2338	2339	2340	2341	2342	2343	2344	2345	2346	2347	2348	2349	2350	2351	2352	2353	2354	2355	2356	2357	2358	2359	2360	2361	2362	2363	2364	2365	2366	2367	2368	2369	2370	2371	2372	2373	2374	2375	2376	2377	2378	2379	2380	2381	2382	2383	2384	2385	2386	2387	2388	2389	2390	2391	2392	2393	2394	2395	2396	2397	2398	2399	2400	2401	2402	2403	2404	2405	2406	2407	2408	2409	2410	2411	2412	2413	2414	2415	2416	2417	2418	2419	2420	2421	2422	2423	2424	2425	2426	2427	2428	2429	2430	2431	2432	2433	2434	2435	2436	2437	2438	2439	2440	2441	2442	2443	2444	2445	2446	2447	2448	2449	2450	2451	2452
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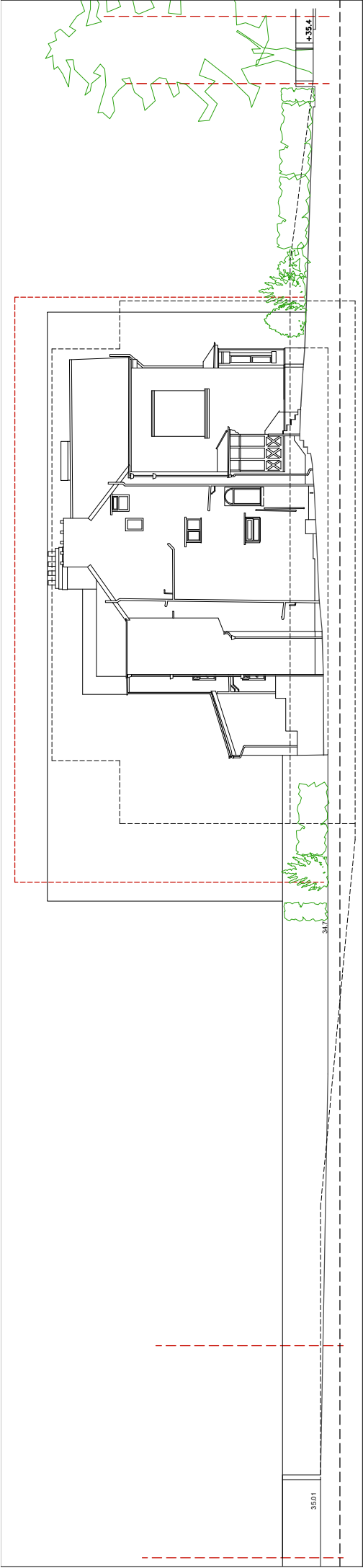
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The position of the underground apparatus shown on this plan is approximate only and is given in accordance with the best information currently available. United Utilities Water will not accept liability for any loss or damage caused by the actual position being different from those shown.

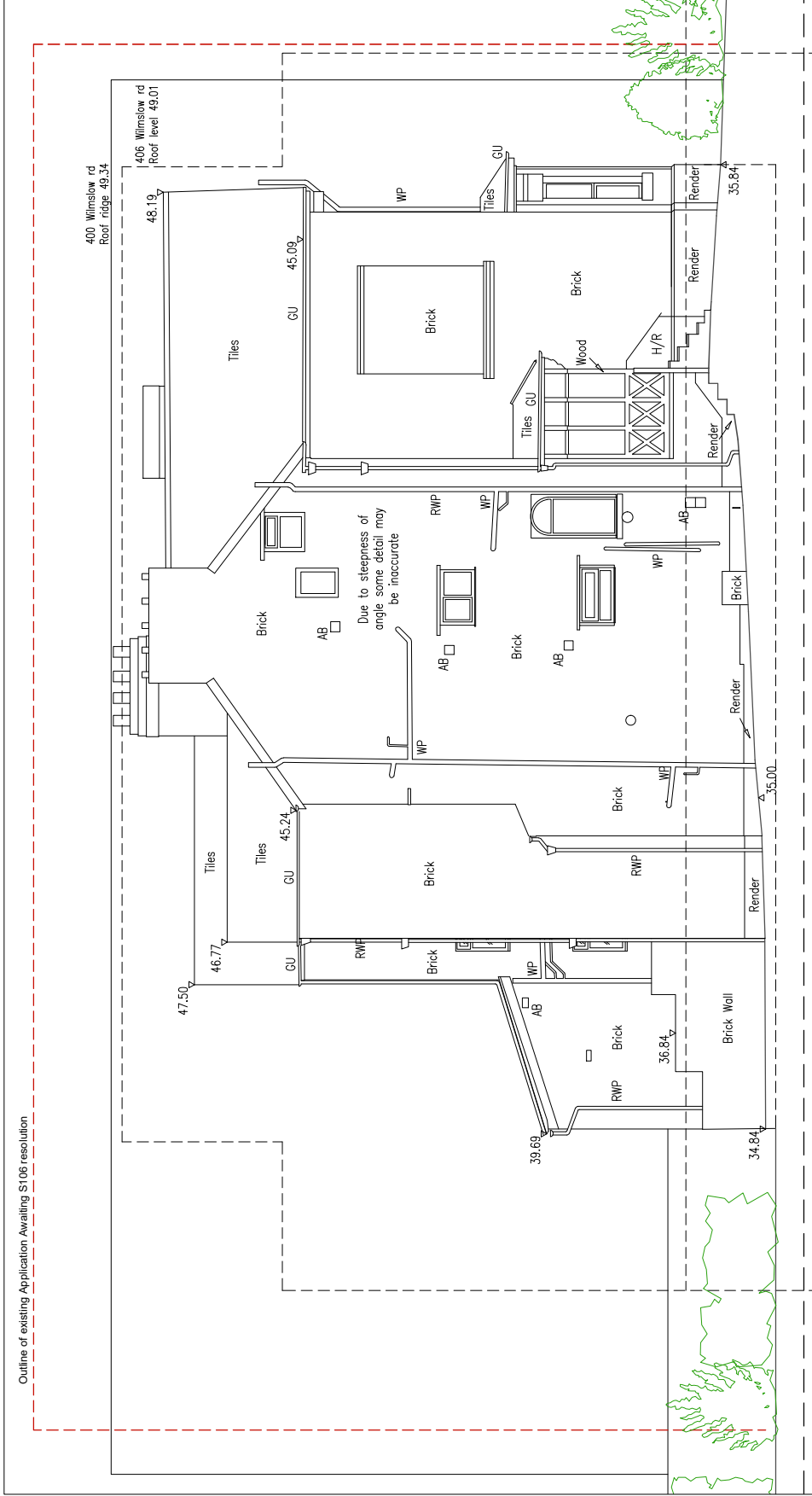
Crown copyright and database rights 2017 Ordnance Survey 100022432. Unauthorised reproduction will infringe these copyrights.

APPENDIX 5

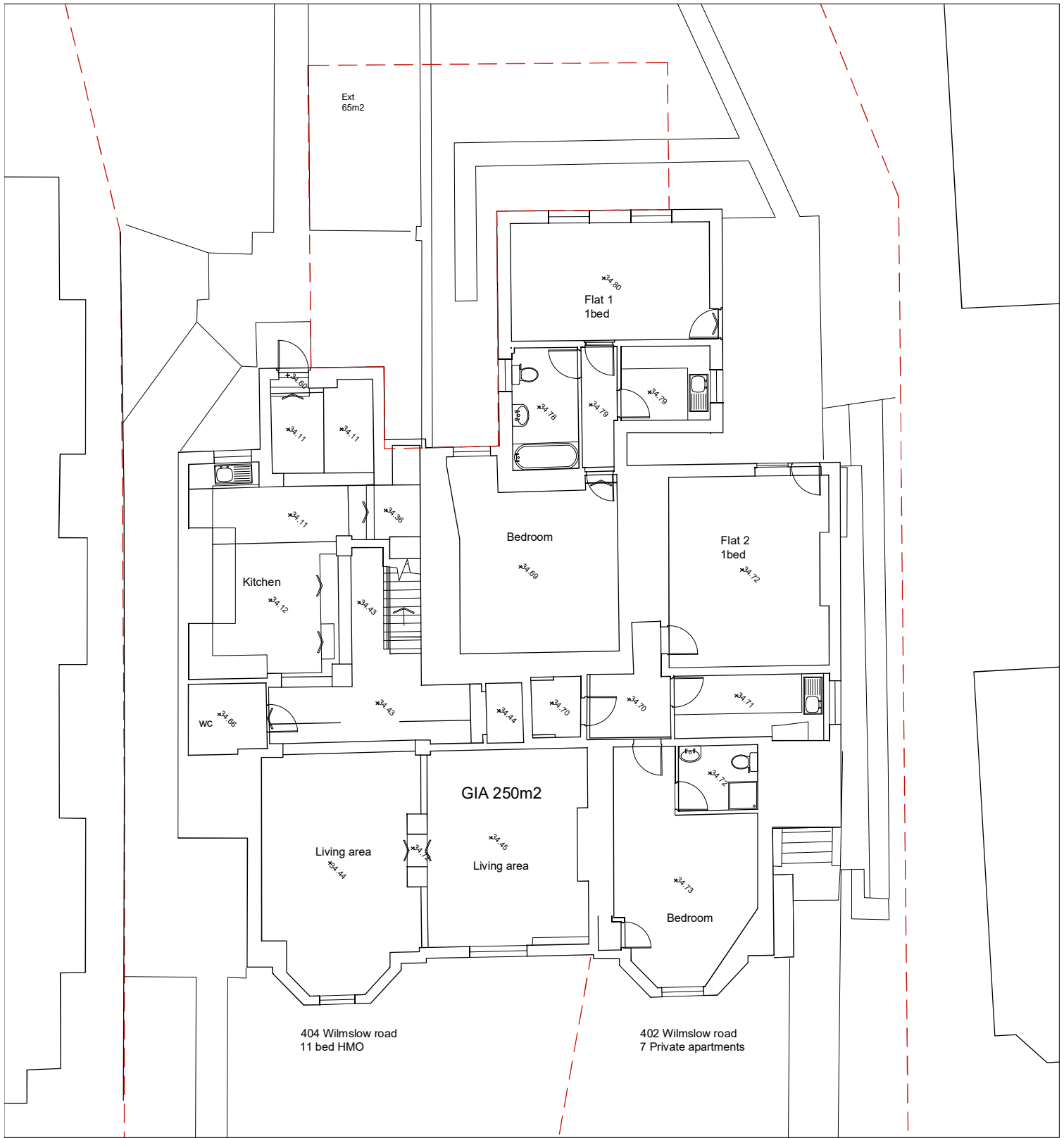
EXISTING PLANS



Street scene 1 : 200
Elevation 1 : 100



PROJECT		Refurbishment and Extension 402 and 404 Wimslow Rd. Withington Manchester.	
SCALE		CLIENT	
1:100&200 @ A3		Concorde No. 1 Ltd	
DRAWING NO.		DRAWING TITLE	
131-2-PL-ELSS rev D		Existing South elevation	
CONTRACT NO.		REV	
131-2		1	
DATE		REV	
15/04/21		D	
27/1/21		D	
ISSUED		ISSUED	
sj		sj	
simon james architects		simon james architects	
UK: 135 Grosvenor St. At. Manchester M1 7TL		UK: 135 Grosvenor St. At. Manchester M1 7TL	



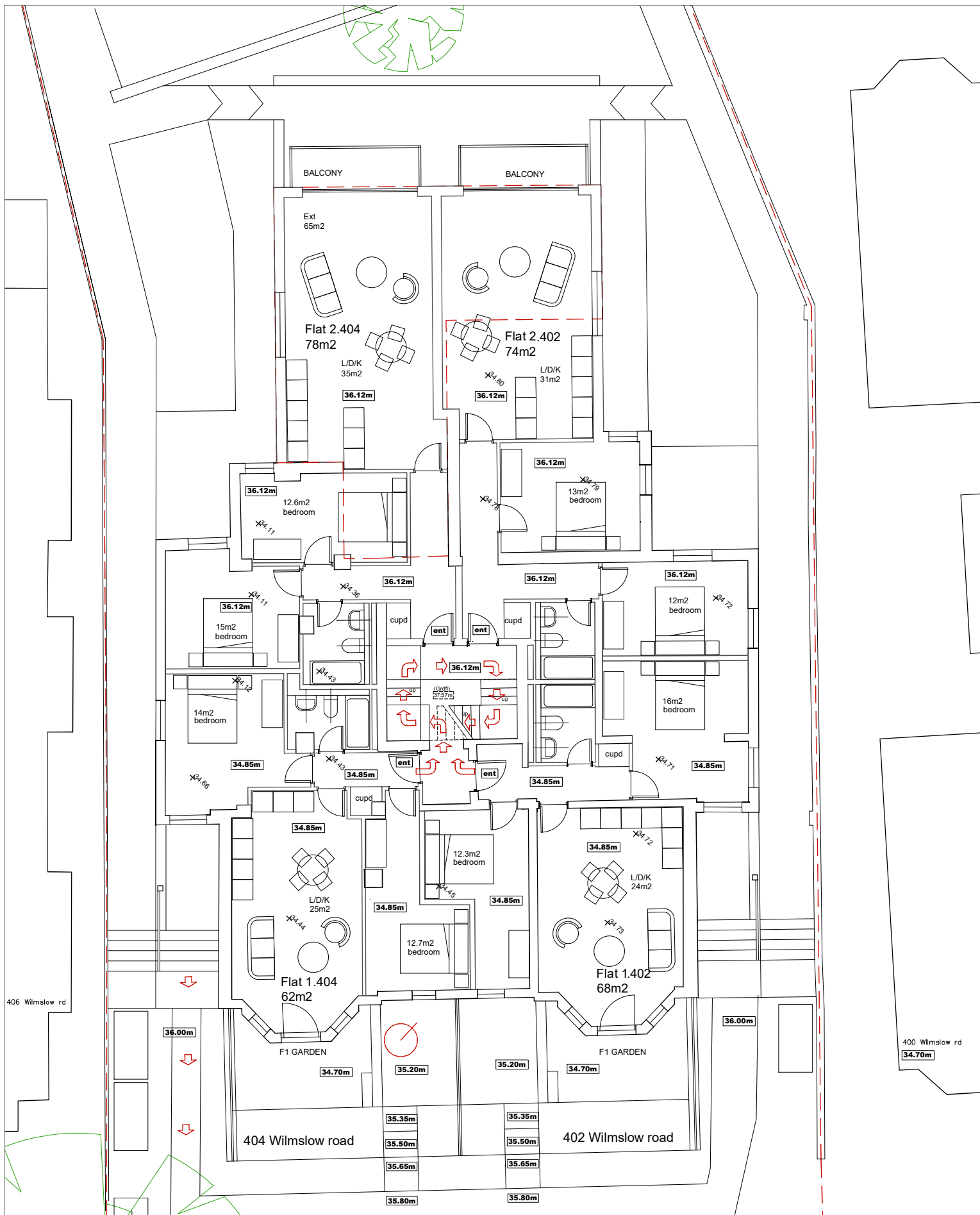
PROJECT			
Refurbishment and Extension 402 and 404 Wilmslow Rd, Withington Manchester.			
SCALE		CLIENT	
1:100 @ A3		Concorde No.1 Ltd	
DRAWING		REV	
131-2-PL-GS1		revD	
CONTRACT NO		STAGE CODE	
131.2		planning	
		REV	
		-	
		DRAWING TITLE	
		Existing Lower Ground floor plan	
ISSUED	15/04/21		-
	27/12/21		D
sj simon james arq ltd/architects UK: 120 Grosvenor st, A8 Salford, Manchester, M1 7TL			



PROJECT		Refurbishment and Extension 402 and 404 Wilmslow Rd, Withington Manchester.	
SCALE	1:200 @ A3	CLIENT	Concorde No.1 Ltd
DWG NO.	131-2-PL-GSL1 revD	DRAWING TITLE	Existing Site Plan
CONTRACT NO.	131.2	STAGE CODE	planning
ISSUED	15/04/21	REV	-
	27/12/21	D	
		 simon james arq ltd/architects UK: 120 Grosvenor St, 4th Floor, Manchester, M1 7PL	

APPENDIX 6

PROPOSED SITE DRAWINGS



KEY  Flood safe access and egress route to safe outside level.

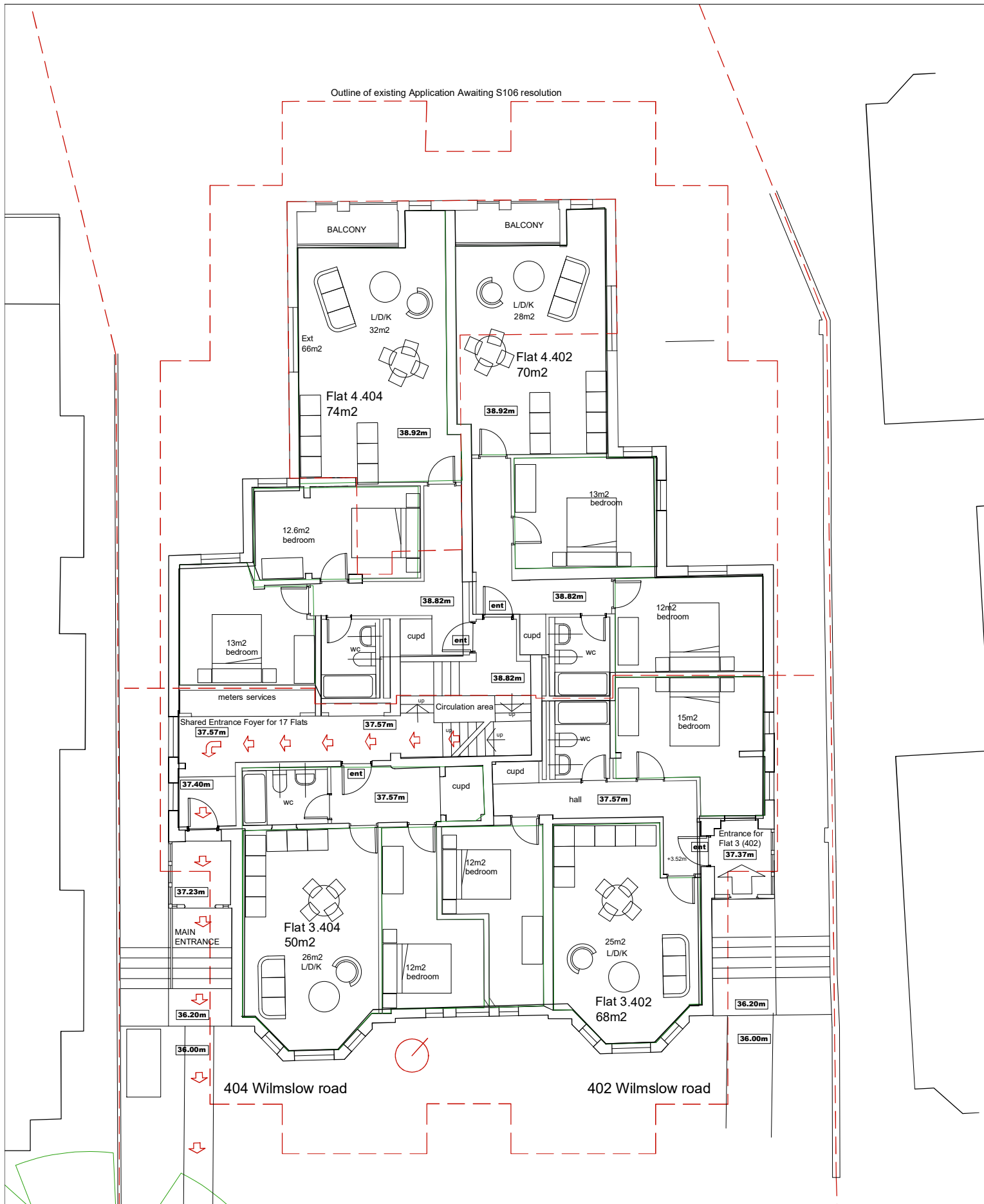
In terms of emergency planning, building occupants will sign up to receive flood warnings from the Environment Agency. In addition, a private flood warning system is to be installed at the development incorporating an echo sounder unit to be fixed to external face of building at high level that is linked to a telemetry unit which will send an automated voice message to the building manager and all occupants when water levels reach 34.85m AOD (lowest existing basement flat FFL).

LOWER GROUND LEVEL.

- Existing GIA 250m2
- Existing GBA 275m2
- Extension 65m2
- Proposed total GBA 340m2
- Existing levels 34.11m to 34.7m (Road 35.5m)
- Proposed levels 34.85m & 36.12m
- 2no 2 bed apartments with private gardens
- 2no 2 bed apartments with balconies.

Total 4 Apartments

PROJECT			
Refurbishment and Extension 402 and 404 Wilmslow Rd, Withington Manchester.			
SCALE		CLIENT	
1:100 @ A3		Concorde No.1 Ltd	
DRAWING NO.		DRAWING TITLE	
131-2-PL-GA1 revD		Proposed Lower Ground floor	
CONTRACT NO.	STAGE CODE	REV.	
131.2	planning	-	
ISSUED	15/04/21	-	
	27/12/21	D	
	 simon james arq ltd/architects UK: 120 Grosvenor st, All Saints, Manchester, M1 7PL		



KEY  Flood safe access and egress route to safe outside level.

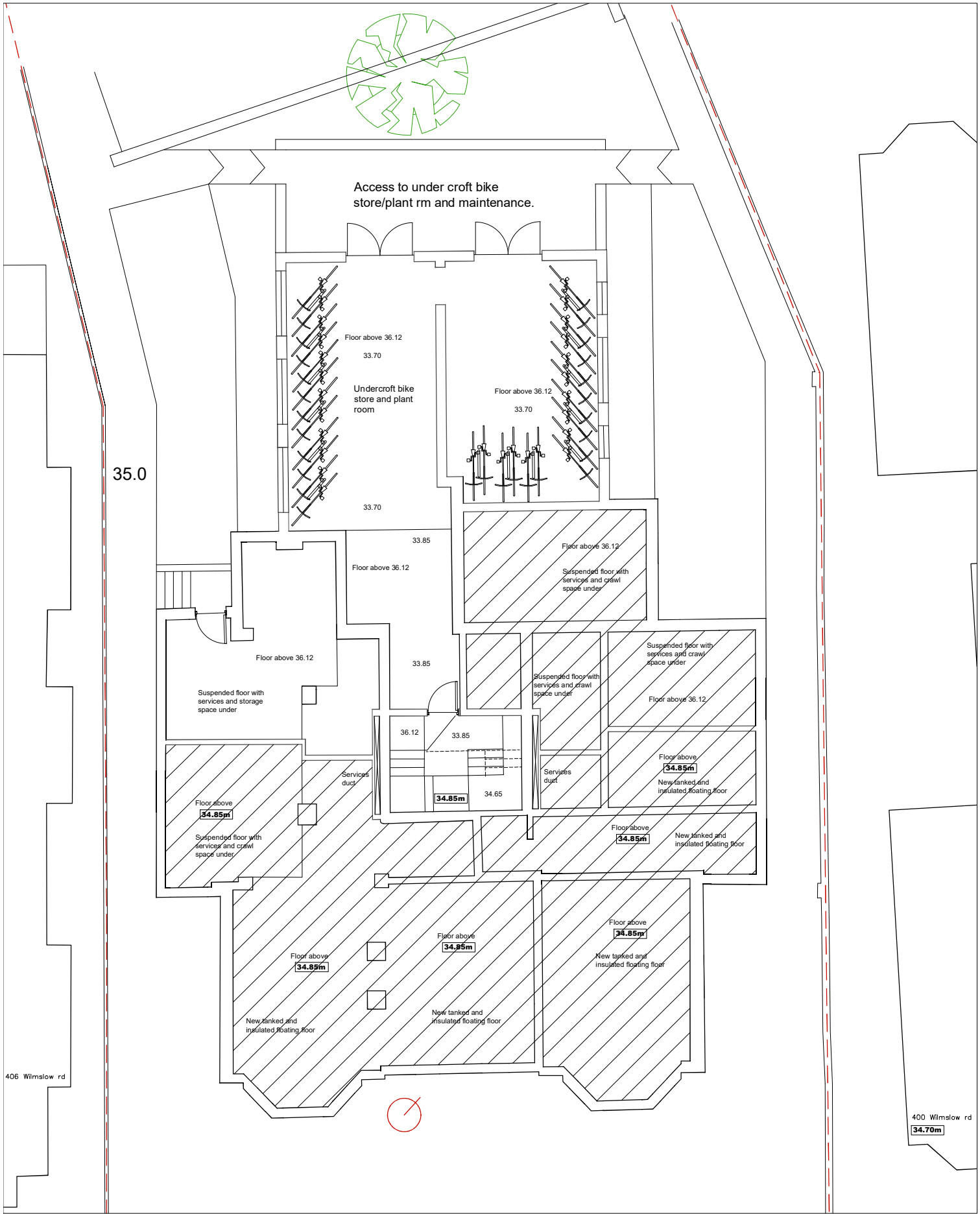
In terms of emergency planning, building occupants will sign up to receive flood warnings from the Environment Agency. In addition, a private flood warning system is to be installed at the development incorporating an echo sounder unit to be fixed to external face of building at high level that is linked to a telemetry unit which will send an automated voice message to the building manager and all occupants when water levels reach 34.85m AOD (lowest existing basement flat FFL).

GROUND LEVEL. (ENTRANCE LEVEL)

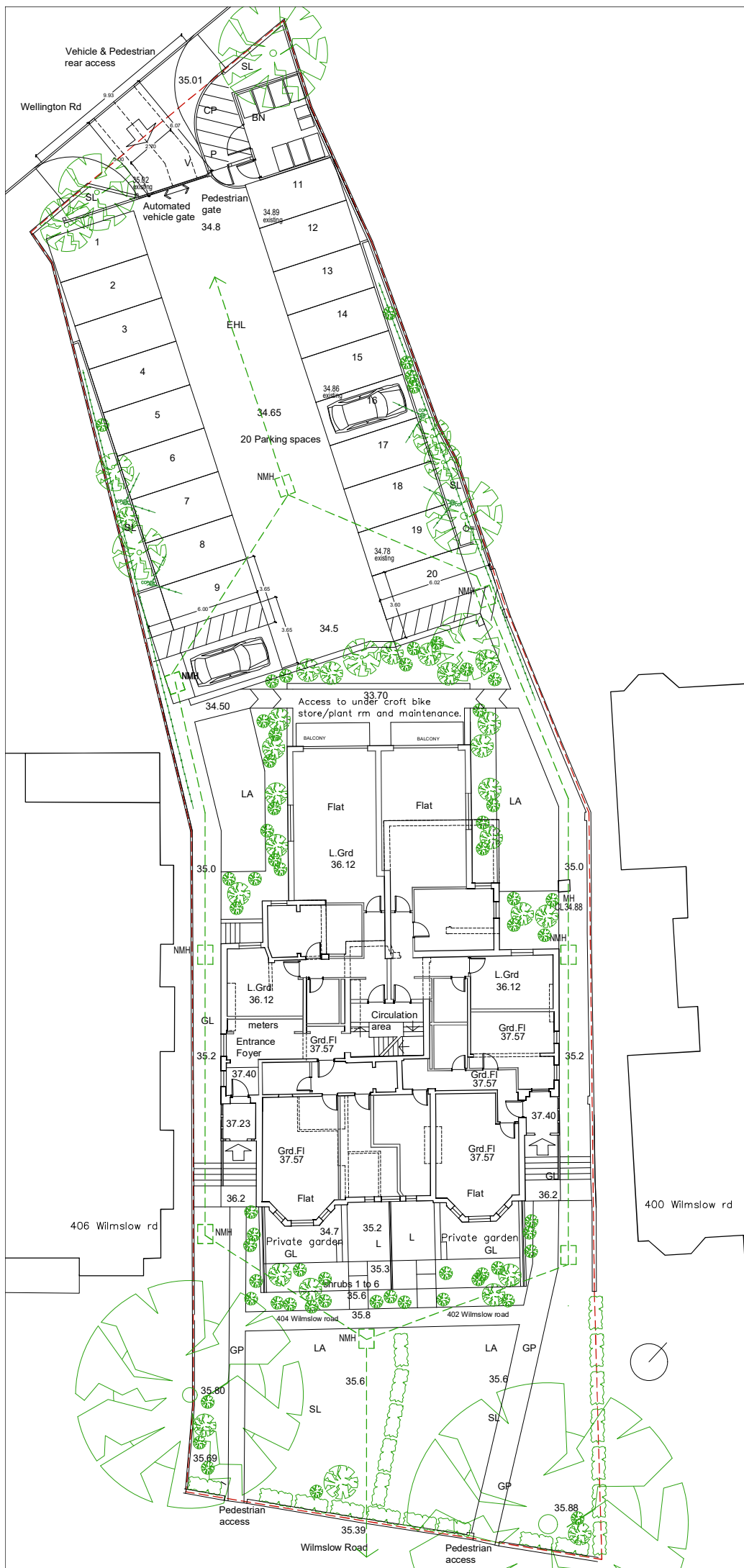
- Existing GIA 250m2
- Existing GBA 275m2
- Extension 66m2
- Proposed total GBA 341m2
- Existing levels 36.75m&37.15m (Road 35.5m)
- Proposed levels 37.57m&38.82m
- 3no 2 bed Flats. 1no 1 bed Flat.
- 2no West facing flats with 3.5m2 balconies.
- 1 Flat with private entrance.

Total 4 Apartments

PROJECT		Refurbishment and Extension 402 and 404 Wilmslow Rd, Withington Manchester.	
SCALE		1:100 @ A3	
DRAWING NO.		131-2-PL- GA2 revD	
CONTRACT NO.		131.2	
STAGE CODE		planning	
REV		-	
DATE		15/04/21	
DATE		27/12/21	
ISSUED		-	
CLIENT		Concorde No.1 Ltd	
DRAWING TITLE		Proposed Ground Floor	
sj		simon james arq ltd/architects	
UK: 120 Grosvenor St, 4th Floor, Manchester M1 7PL			



PROJECT			
Refurbishment and Extension 402 and 404 Wilmslow Rd, Withington Manchester.			
SCALE		CLIENT	
1:100 @ A3		Concorde No.1 Ltd	
DWG No.		DRAWING TITLE	
131-2-PL- GA7		Proposed undercroft storage space	
CONTRACT NO		REV	
131.2		-	
		27/12/21	
ISSUED			
sj simon james arq ltd/architects UK 120 Grosvenor st. All Saints, Manchester. M1 7JL			



Site plan

- Main pedestrian accesses via the existing front garden gates to Wilmslow rd.
- Main pedestrian access into the building uses the existing entrance to 404 Wilmslow rd.
- The existing 402 Wilmslow rd entrance will be a private entrance to Flat 3
- Private shared Bike storage pods for 36 bikes. 1no 4 bike pods for 2 flats.
- Level/ramped access to rear flats 2.402 and 2.404.
- Front soft landscaped area. Trees, Hedges and shrubs retained.
- Rear car parking for 20 cars. Access from Wellington road through Automatic electronic secure gate.
- Bin stores with separated recycling adjacent to rear gate.
- New trees and planting to the rear landscape.

Site area: 1463m²

Materials Key

Landscape

SOFT LANDSCAPE ELEMENTS

PG: Private Garden area. Hard landscaped patio areas with border planting

SG: Shared garden seating area. Hard landscaped patio areas with border planting.

PG/GL: Private garden area and Full height Garden Lightwell.

Porous soft landscaping with gravel.

L: Half height lightwell. Porous paving system with gravel draining edge strips

SL: New and or Refurbished Soft permeable landscape areas.

ET: Existing tree to be protected and retained.

NT: 1. Fagus Sylvatica 12-14 cm girth
2. Tilia cordata 12-14 cm girth
3. Betula pendula 12-14 cm girth
4. Malus sylvestris 12-14 cm girth
5. Ilex aquifolium 12-14 cm girth
6. Taxus baccata 12-14 cm girth

ESH: Existing shrubs and or hedges to be retained.

LA: Lawn.

BP: S1 to S6: New shrubs to be RSPB approved to be bird friendly.

Shrub 01 (S1) Berberis (Barberry)
Shrub 02 (S2) Cotoneaster (C. horizontalis)
Shrub 03 (S3) Junberry shrubs Amelanchier lamarckii
Shrub 04 (S4) Hedging rose, Rosa rugosa,
Shrub 05 (S5) Ceanothus, Californian lilac
Shrub 06 (S6) Mahonia tikushiensis

HE: Hedge Prunus padus, or Bird Cherry. RSPB approved Bird Friendly

HARD LANDSCAPE ELEMENTS

EHL: Existing gravelled car park area to be resurfaced with a porous tar-mac. Cornex Vialflow Asphalt with a new Reduced fine sub base in the drive areas and a fully porous decorative gravel parking bays demarcated with cobbles.

GP: New footpaths to be grey gravel with a central stone paving pathway.

BN: Open Bin storage sheds.

- GW: General Waste
- PR: Palpable recycling
- MR: Mixed recycling
- FW: Food Waste
- CP: Bin collection point
- BK: Secure Bike storage room
- P: Pedestrian access.
- V: Vehicular access.
- MH: Existing Man holes/Inspection chambers
- NMH: New Man hole

Materials Key

Boundaries

BA - Side Brickwall - Existing Brick wall to be retained

BB - Front Brickwall - Low Brick wall to be cleaned, repaired and repointed, existing gateways closed with matching brick, new opening made re-use existing stone post and re-instate missing post.

BC - Rear brick wall - 0.6m tall new Brick wall using site reclaimed bricks with a steel framed timber clad automated vehicle sliding gate and self closing locked pedestrian gate..

BD - Timber fence - Repair and overlaid existing fence internally with matching timber planks

BE - Timber fence - Remove concrete panel fence. Repair and overlaid existing fence internally with matching timber planks.

BF - Bin Store - 2.0m tall Timber fencing to match existing fence panels with vertical timber planks.

BG - New Timber fence - Remove and replace timber fence to match existing.

BH - Hedge - Retain existing hedge

BI - Dwarf reclaimed brick retaining wall with a stone coping.

TP - Area with tactile pavement

Materials Key

Exterior Lighting

Ⓡ Low level Led low energy bollard light

ⓁEW Low level Led low energy wall down light

ⓈCCP 4no(25%) 7KW CAR CHARGING POINTS.
EV BOX BUSINESSLINE WITH DOUBLE SOCKET

DUCT WITH EV CHARGING POINT SUPPLY CABLES.

PROJECT			
Refurbishment and Extension 402 and 404 Wilmslow Rd, Withington Manchester.			
SCALE		CLIENT	
1:200 @ A3		Concorde No.1 Ltd	
DWG NO.			
131-2-PL-GL1revD		DRAWING TITLE	
CONTRACT NO		STAGE CODE	
131.2	planning	REV.	
		-	
		Proposed Site Plan	
ISSUED	15/04/21	-	 simon james arq ltd/architects UK: 120 Grosvenor St, 4th Floor, Manchester, M1 7PL
	12/07/21	a	
	06/09/21	b	
	22/09/21	c	
	27/12/21	d	



PROJECT			
Refurbishment and Extension 402 and 404 Wilmslow Rd, Withington Manchester.			
SCALE		CLIENT	
1:100 @ A3		Concorde No.1 Ltd	
DWG No.		DRAWING TITLE	
131-2-PL-GL3 revD		Rear Landscape & boundary detail	
CONTRACT NO		REV	
131.2		-	
ISSUED		DATE	
		15/04/21	
		12/07/21	
		06/09/21	
		22/09/21	
		27/12/21	

Materials Key	
Exterior Lighting	
BL	Low level Led low energy bollard light
EW	Low level Led low energy wall down light
CCP	4no(25%) 7KW CAR CHARGING POINTS. EV BOX BUSINESSLINE WITH DOUBLE SOCKET
	DUCT WITH EV CHARGING POINT SUPPLY CABLES.

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- PR: Palpable recycling
- MR: Mixed recycling
- FW: Food Waste
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- BE - Timber fence - Remove concrete panel fence. Repair and overclad existing fence internally with matching timber planks.
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- BG - New Timber fence - Remove and replace timber fence to match existing.
- BH - Hedge - Retain existing hedge
- BI - Dwarf reclaimed brick retaining wall with a stone coping.
- TP - Area with tactile pavement

Access to undercroft bike store/plant rm and maintenance.

APPENDIX 7

GROUNDWATER FLOOD MAPPING

[illegible]

Contains British Geological Survey (BGS) materials © NERC 2021



COPSO
ASSOCIATE MEMBER



Registered office: Suite 9-11, Old Bank Buildings, Bellstone, Shrewsbury, SY1 1HU. Registered in England and Wales, number 5475394.

APPENDIX 8

STATUTORY FLOOD RISK AND DRAINAGE CONSULTEE CORRESPONDENCE

Manchester City Council
Development Control
PO Box 488
Manchester
Lancashire
M60 2JT

Our ref: SO/2021/121487/01-L01
Your ref: 130100/FO/2021

Date: 06 September 2021

FAO Jennifer Connor

Dear Jennifer

**ERECTION OF FIVE STOREY REAR EXTENSION TOGETHER WITH ASSOCIATED
ELEVATION ALTERATIONS INCLUDING REAR ROOF EXTENSION IN
ASSOCIATION WITH THE CONVERSION OF THE PROPERTY TO FORM 18 NO.
SELF CONTAINED APARTMENTS TOGETHER WITH CAR PARKING,
LANDSCAPING, BIN AND CYCLE STORES
402 WILMSLOW ROAD, MANCHESTER, M20 3BN**

Thank you for consulting us with the above planning application which was received in this office 23rd August 2021.

Environment Agency position

In the absence of an acceptable Flood Risk Assessment (FRA) we object to the grant of planning permission and recommend refusal on this basis for the following reasons:

Reason

The FRA from Integra Consulting (Ref 3301-FRA dated July 2021) submitted with this application does not comply with the requirements set out National Planning Policy Framework and associated guidance. In particular, the submitted FRA fails to:

1. Take the impacts of climate change into account in setting finished floor levels, new climate change allowances have been published on 20th July 2021, see <https://www.gov.uk/guidance/flood-risk-assessments-climate-change-allowances> for full details. We would recommend that additional 2D levels are requested adjacent to the proposed rear extension.
2. Provide compensatory flood storage for the proposed rear extension which would push flood volume to the surrounding area.
3. Consider how people will be kept safe from the identified flood hazards. Depth

Environment Agency
Richard Fairclough House Knutsford Road, Warrington, WA4 1HT.
Customer services line: 03708 506 506
www.gov.uk/environment-agency
Cont/d..

and velocities should be checked against the Flood Hazard Equation from "Flood Risks to People" - R&D Report FD2321/TR. Also, discussions should be held with the emergency services, emergency planner and/or Greater Manchester Civil Contingency Resilience Unit.

4. Consider how a range of flooding events (including extreme events) will affect people and property.
5. Consider the requirement for flood emergency planning including flood warning and evacuation of people for a range of flooding events up to and including the extreme event.

Overcoming our objection

The applicant can overcome our objection by submitting an FRA which covers the deficiencies highlighted above and demonstrates the development will not increase risk elsewhere and where possible reduces flood risk overall. Velocities associated with 2D levels can be obtained by contacting our customers and engagement team at Inforequests.gmmc@environment-agency.gov.uk. If this cannot be achieved we are likely to maintain our objection to the application. Production of an FRA will not in itself result in the removal of an objection.

We ask to be re-consulted with the results of the FRA. We will provide you with bespoke comments within 21 days of receiving formal reconsultation. Our objection will be maintained until an adequate FRA has been submitted.

Please forward a copy of this letter to the applicant.

Yours faithfully

Mr Stephen Sayce
Technical Planning Advisor

Direct e-mail stephen.sayce@environment-agency.gov.uk

Application number: 130100/FO/2021

Proposal: Erection of five storey rear extension together with associated elevation alterations including rear roof extension in association with the conversion of the property to form 18 no. self contained apartments together with car parking, landscaping, bin and cycle stores

Location: 402 Wilmslow Road, Manchester, M20 3BN

Flood Risk Management Team Comments (18th August 2021)

Condition 1: No development shall commence until the flood risk assessment (dated July 2021) has been updated and re-submitted to and approved in writing by the local planning authority. For the avoidance of doubt, as per the government standing advice, the assessment must include the following additional information:

- An assessment of the flood risk from all sources (such as: fluvial, surface water, groundwater, sewer, reservoir and canal) of flooding for your development (this does not require bespoke hydraulic modelling, and may be based on data obtained freely via an Environment Agency data request and opensource data on the DEFRA and government platforms). ***Note this should include publicly available maps where applicable.***
- An assessment of the proposed developments Flood Risk Vulnerability Classification and if development is appropriate within the specific Flood Zone (specifically the basement level, which is classed as 'highly vulnerable').
- Provide a clear plan showing all finished floor levels for the ground floor level and basement (including the basement layout and the levels of the flood mitigation measures) and the estimated flood levels. All levels should be in mAOD.
- Construction details of flood walls (which are proposed to protect the basement level).
- An assessment identifying if the proposed extension will displace flood water into surrounding properties.
- Production of a flood evacuation plan (identifying safe access and egress routes) where required.

Reason: To ensure that the development is not at an increased risk of flooding (from various sources) and that the appropriate flood resilience and resistance measures have been implemented on site where required.

Condition 2: Development shall not begin until a surface water drainage scheme for the site, based on sustainable drainage principles has been submitted to and approved in writing by the local planning authority. The development shall be constructed and completed in accordance with the approved details.

The scheme shall also include:

- Results of ground investigation carried out under Building Research Establishment Digest 365. Site investigations should be undertaken in locations and at proposed depths of the proposed infiltration devices. Proposal of the attenuation that is achieving half emptying time within 24 hours. If no ground investigations are possible or infiltration is not feasible on site, evidence of alternative surface water disposal routes is required.
- Surface water drainage layout including discharge points, proposed attenuation and proposed overland flow routes for extreme events (up to a 1 in 100 year including 40% climate change allowance).
- Details of surface water attenuation that offers a reduction in surface water runoff rate in line with the Manchester Trafford and Salford Strategic Flood Risk Assessment. Provide at least a 50% reduction in runoff rate compared to the existing rates, as the site is located within Conurbation Core Critical Drainage Area.
- Where surface water is connected to the public sewer, agreement in principle from United Utilities is required that there is adequate spare capacity in the existing system taking future development requirements into account. An email of acceptance of proposed flows and/or new connection will suffice.
- Hydraulic calculations to support the drainage proposal.
- Details of how the scheme shall be maintained and managed after completion.

Reason: To prevent the increased risk of flooding, to improve and protect water quality and ensure future maintenance of the surface water drainage system pursuant to policy EN17 of the Core Strategy.

Disclaimer: MCC records highlight that the underground Ley Brook is located within close proximity to the site (approximately 35 m to the East of the site), while our records are frequently updated to ensure the highest level of accuracy, the records cannot guarantee 100% accuracy for all MCC underground assets. Therefore, we would request that the applicant informs the onsite contractor to remain observant and to take the appropriate safety precautions during excavation works. If any major unknown drainage assets are found beneath the site, then further investigation works should take place to identify the asset and MCC should be contacted immediately.

Neville Shaw

From: Neville Shaw
Sent: 19 November 2021 15:23
To: jennifer.connor@manchester.gov.uk
Cc: Carol Clarke; Stuart Wall; Simon James
Subject: 402-404 Wilmslow Road, Withington
Attachments: Wilmslow Road - Existing and Proposed Extents Topographical Survey.pdf

Hi Jennifer,

Based on the recent LLFA comments regarding the latest proposed scheme, I have provided our responses below in **red**:

1. Proposed lower ground floor plan illustrating all the finished floor levels of the new and existing basement dwellings as they say it is not too clear on the 'Floor Level Review' drawing – **Simon will issue this plan to you shortly under separate cover.**
2. Sight of the EA correspondence which stipulates that a finished floor level of 36.12mAOD is an appropriate minimum floor level – **the basement FFL of 36.12m AOD is based on the 1 in 100 year + 35% cc (35.52m AOD) plus 600mm freeboard level and it is understood that this level had been discussed and agreed by a previous flood risk consultant with the statutory flood risk authorities in relation to this development. Based on the current EA modelling data provided for this site, this proposed FFL of 36.12m AOD compares favourably with a risk level average of the relevant nodes for 1 in 1000 plus 30% climate change risk of 35.5m AOD which demonstrates the adequacy of the proposed FFL in flood risk terms.**
3. Why are some basement floor levels are being raised to 36.12mAOD and others are only being raised to 35.59mAOD – **given that we understand that an FFL of 36.12m AOD had previously been discussed and agreed with the statutory flood risk authorities, this has been proposed as the basement FFL to the area of new extension at the rear of the property. Within the existing building, it is only feasible to raise the basement level at the rear of the existing building to a FFL of 35.59m AOD. However, this proposed FFL still lies above the risk level average of the relevant nodes for 1 in 1000 plus 30% climate change risk of 35.5m AOD which demonstrates the adequacy of this proposed FFL in flood risk terms. It is also noted that all areas within the existing building and the proposed extension are guarded against the 1 in 1000 year plus climate change event either by the proposed drainage measures and/or by the proposed FFL's.**
4. Details and calculations of how the compensatory storage volumes have been calculated – **please reference the attached plans. As stated in item 4 of section 5.0 of our FRA, this storage volume is provided by lowering the existing 25m x 15m rear car park by circa 160mm. The replacement volume of $25 \times 15 \times 0.16 = 61\text{m}^3$ compensates for top of Flood Zone 3a + climate change level of 35.25m AOD (average of the 4 No applicable nodes). The volume taken up by the new extension is $90\text{m}^2 \times 0.55\text{m} = 50\text{m}^3$. The 0.55m figure is derived from the difference between 35.25m AOD (average of the 4 No applicable nodes) and 34.7m AOD (average level of existing ground in the extension area).**

Kind regards,

Neville

Neville Shaw BSc (Hons) ACGI MBA CEng MICE MIStructE

Director

Integra Consulting

M: +447740 723 258

W: integraconsulting.co.uk

A: Suite 4, 14-32 Hewitt Street, Manchester, M15 4GB

Application number: 130100/FO/2021

Proposal: Erection of five storey rear extension together with associated elevation alterations including rear roof extension in association with the conversion of the property to form 18 no. self contained apartments together with car parking, landscaping, bin and cycle stores

Location: 402 Wilmslow Road, Manchester, M20 3BN

Flood Risk Management Team Comments (14th December 2021)

Condition 1: Development shall not begin until a surface water drainage scheme for the site, based on sustainable drainage principles has been submitted to and approved in writing by the local planning authority. The development shall be constructed and completed in accordance with the approved details.

The scheme shall also include:

- Results of ground investigation carried out under Building Research Establishment Digest 365. Site investigations should be undertaken in locations and at proposed depths of the proposed infiltration devices. Proposal of the attenuation that is achieving half emptying time within 24 hours. If no ground investigations are possible or infiltration is not feasible on site, evidence of alternative surface water disposal routes is required.
- Surface water drainage layout including discharge points, proposed attenuation and proposed overland flow routes for extreme events (up to a 1 in 100 year including 40% climate change allowance).
- Details of the existing on-site drainage network and outfall.
- Hydraulic calculations to support the drainage proposal.
- Details of how the scheme shall be maintained and managed after completion.

Reason: To prevent the increased risk of flooding, to improve and protect water quality and ensure future maintenance of the surface water drainage system pursuant to policy EN17 of the Core Strategy.

Condition 2: No development hereby permitted shall be occupied until the approved flood mitigation measures as discussed through correspondence with the LLFA and illustrated on DWGs 131-2-PL-ELE5 and 131-2-PL-GA7 are implemented on site.

Disclaimer: MCC records highlight that the underground Ley Brook is located within close proximity to the site (approximately 35 m to the East of the site), while our records are frequently updated to ensure the highest level of accuracy, the records cannot guarantee 100% accuracy for all MCC underground assets. Therefore, we would request that the applicant informs the onsite contractor to remain observant and to take the appropriate safety precautions during excavation works. If any major unknown drainage assets are found beneath the site, then further investigation works should take place to identify the asset and MCC should be contacted immediately.

Neville Shaw

From: Neville Shaw
Sent: 22 December 2021 16:49
To: Flood Risk Management
Cc: Jennifer Connor
Subject: RE: 402-404 Wilmslow Road, Withington - Application number: 130100/FO/2021

Hi Oliver,

Many thanks for your e-mail below – much appreciated.

We will ensure that we do not exceed the runoff volume from the development site prior to redevelopment as you state and hence a flow restriction will be installed for surface water run-off to ensure a betterment to the UU sewer network.

Kind regards,

Neville

Neville Shaw BSc (Hons) ACGI MBA CEng MICE MIStructE

Director

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From: Flood Risk Management <floodriskmanagement@manchester.gov.uk>
Sent: 22 December 2021 16:40
To: Neville Shaw <nevilleshaw@integraconsulting.co.uk>
Cc: Jennifer Connor <jennifer.connor@manchester.gov.uk>
Subject: RE: 402-404 Wilmslow Road, Withington - Application number: 130100/FO/2021

Good Afternoon Neville,

Having revisited this application and reviewed the proposed site layout again I would agree that soakaway systems would be problematic to construct as part of this development. Usually, we would encourage developers wherever possible to drain to soakaways, in accordance with the drainage hierarchy presented in Building Regulations Document H and also due to the continuing strain on public sewer systems. However, for this site, I appreciate that space is limited, therefore it would be difficult (without altering the site layout) to ensure the soakaways are positioned 5m away from building structures and roads/car parks.

That said, we would expect to see that the runoff volume in the 1 in 100 year, 6 hours rainfall for the site shall be constrained to a value as close as is reasonable practicable to the greenfield runoff volume for the same event, but never to exceed the runoff volume from the development site prior to redevelopment – therefore a flow restriction should be installed for surface water run-off, ensuring there is a betterment to the UU network.

I hope this provides some clarification.

Kind Regards,

Oliver

Oliver Timmins
Engineer (Flood Risk Management)

Lead Local Flood Authority
Highways
Growth & Development and Neighbourhoods Directorate
Manchester City Council
PO Box 532 Town Hall
Manchester
M60 2LA

Web: <http://www.manchester.gov.uk>

From: Neville Shaw <nevilleshaw@integraconsulting.co.uk>
Sent: 17 December 2021 14:58
To: Flood Risk Management <floodriskmanagement@manchester.gov.uk>
Cc: Jennifer Connor <jennifer.connor@manchester.gov.uk>
Subject: 402-404 Wilmslow Road, Withington - Application number: 130100/FO/2021

Dear LLFA,

I refer to the above project and specifically the first bullet point from condition 1 as per your comments from 14.12.21 (attached) as set out below for ease of reference:

The scheme shall also include:

- *Results of ground investigation carried out under Building Research Establishment Digest 365. Site investigations should be undertaken in locations and at proposed depths of the proposed infiltration devices. Proposal of the attenuation that is achieving half emptying time within 24 hours. If no ground investigations are possible or infiltration is not feasible on site, evidence of alternative surface water disposal routes is required.*

We are currently undertaking an existing drainage survey and it appears highly likely that the existing building / hard surfaced external areas drain freely to the local adopted UU combined sewer network.

The proposed additional building footprint area is circa 65m² and pragmatically we would suggest that the existing drainage connections to the adopted sewer network are maintained and surface water underground crate attenuation is provided in relation to this additional footprint area based on greenfield runoff rates as opposed to undertaking BRE 365 soakaway testing and following the surface water drainage hierarchy in this particular instance given the overall nature of the project i.e. principally refurbishment.

I trust that the above is clear and in order - happy to run through this by phone so please feel free to call on my mobile number below.

Kind regards,

Neville

Neville Shaw BSc (Hons) ACGI MBA CEng MICE MIStructE

Director

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APPENDIX 9

SITE PHOTOGRAPHS – REAR OF BUILDING









APPENDIX 10

DEFRA / ENVIRONMENT AGENCY: FLOOD RISKS TO PEOPLE – PHASE 2

Flood Risks to People

Phase 2

FD2321/TR1

The Flood Risks to People Methodology



Environment
Agency

**Defra / Environment Agency
Flood and Coastal Defence R&D Programme**

R&D OUTPUTS: FLOOD RISKS TO PEOPLE

Phase 2

FD2321/TR1 The Flood Risks to People Methodology

March 2006

Authors:
HR Wallingford
Flood Hazard Research Centre, Middlesex University
Risk & Policy Analysts Ltd.

height times mass for different ages based on UK Department of Health figures and (b) some thresholds indicating the relative hazard associated with different depth-velocity combinations.

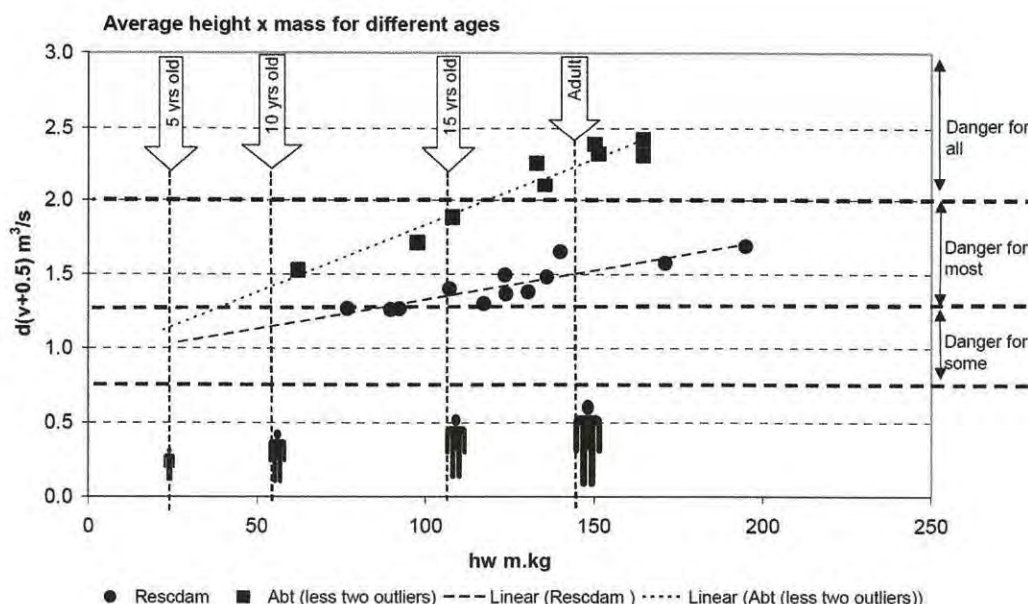


Figure 3.1: The interpretation of the data sets to derive flood hazard thresholds

The following expression was found to be reliable for determining the threshold for losing stability:

$$d \times (v + 0.5) = a \times hw + b$$

where,

- d = depth of flooding (m);
- v = velocity of floodwaters (m/sec);
- hw = height (m) x weight (kg) of subject; and
- a, b = constants.

Further details are provided in Appendix 1, HR Wallingford *et al* (2004b) section 3 and HR Wallingford (2004c) section 2.

3.3.2 Choice of flood hazard classes.

In the risks to people calculation flood hazard is used as a variable that affects the proportion of exposed people that are injured or killed. However, classification of flood hazard is required for flood hazard mapping and the development of guidance. Given the difference between the two main experiments and the fact that these cannot reproduce real flood conditions, it is appropriate to be precautionary in setting and describing hazard classes so that these are communicated effectively to those at risk.

The characterisation shown in Table 3.2 is proposed.

Table 3.2: Hazard to People as a Function of Velocity and Depth

$d \times (v + 0.5)$	Degree of Flood Hazard	Description
<0.75	Low	Caution <i>"Flood zone with shallow flowing water or deep standing water"</i>
0.75 - 1.25	Moderate	Dangerous for some (i.e. children) <i>"Danger: Flood zone with deep or fast flowing water"</i>
1.25 - 2.5	Significant	Dangerous for most people <i>"Danger: flood zone with deep fast flowing water"</i>
>2.5	Extreme	Dangerous for all <i>"Extreme danger: flood zone with deep fast flowing water"</i>

Such categorisation could be useful for a range of applications including:-

- Planning of safe access and exit for new developments
- Emergency planning advice for people at risk and the emergency services
- Development of household or community flood plans

Figure 3-2 provides a look-up table of flood hazard classes for different velocities and depths. The use of flood hazard classes is described in the Guidance Document.

Velocity Coefficient C	0.5										
(V+C) * D	Depth										
Velocity	0.25	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.25	2.50	
0.00	0.13	0.25	0.38	0.50	0.63	0.75	0.88	1.00	1.13	1.25	
0.50	0.25	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.25	2.50	
1.00	0.38	0.75	1.13	1.50	1.88	2.25	2.63	3.00	3.38	3.75	
1.50	0.50	1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50	5.00	
2.00	0.63	1.25	1.88	2.50	3.13	3.75	4.38	5.00	5.63	6.25	
2.50	0.75	1.50	2.25	3.00	3.75	4.50	5.25	6.00	6.75	7.50	
3.00	0.88	1.75	2.63	3.50	4.38	5.25	6.13	7.00	7.88	8.75	
3.50	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00	
4.00	1.13	2.25	3.38	4.50	5.63	6.75	7.88	9.00	10.13	11.25	
4.50	1.25	2.50	3.75	5.00	6.25	7.50	8.75	10.00	11.25	12.50	
5.00	1.38	2.75	4.13	5.50	6.88	8.25	9.63	11.00	12.38	13.75	

	From	To	
Class 1	0.75	1.25	Danger for some
Class 2	1.25	2.50	Danger for most
Class 3	2.50	20.00	Danger for all

Figure 3.2: Velocity, depth and flood hazard matrix

3.3.3 Flood Damage to Buildings

In broad terms, buildings are more resilient to floodwaters than people. Extensive research into this area has been undertaken by CURBE (see, for example, Kelman 2002). Further detail is provided in HR Wallingford *et al* (2004b) section 3 and HR Wallingford *et al* (2004c) section 2, but, as for people, the severity of damage is a function of both depth and velocity.

The direct damage of floodwater to buildings and the potential risks to people related to building collapse is not included in the risks to people methodology. With the one recent exception of Boscastle, there is not substantial evidence of buildings collapsing during floods in the UK. Nevertheless, understanding the potential impacts of flood water on building structure is still an important area for research; further commentary is provided in Appendix 1 and building resilience is included in the Guidance Document.

3.3.4 Flood Damage to Vehicles

There are, essentially, three reasons why vehicles cannot be used in floodwaters:

- the presence of water stops the engine functioning;
- the vehicle floats; and
- the vehicle becomes difficult to control.

Cars will stop and/or float in relatively shallow water (as low as 0.5m in depth) while emergency vehicles may survive in slightly deeper waters (up to 1m in depth). However, with suitable modifications (high level air intakes/exhausts), a fire engine remains controllable in depths of 0.5m at up to 5 m/sec water flows.

APPENDIX 11

SCHEMATIC SURFACE WATER DRAINAGE STRATEGY LAYOUT

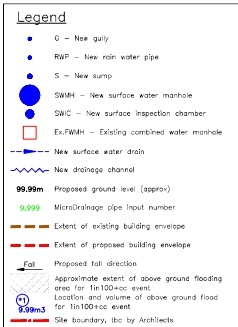
Notes:

- 1 All dimensions are in millimetres unless noted otherwise.
- 2 All levels are in metres unless noted otherwise.
- 3 This drawing is to be read in conjunction with all relevant Architects and Services Engineers drawings.
- 4 All drainage pipes to be Polypipe adoptable drainage system, or similar approved with 375mm dia. and concrete from 450mm. Bedding in accordance with manufacturers details.
- 5 All road gullies to have Grade D400 gratings to BS EN 124 with 4000 x 900 deep Pre-Cast concrete or polyethylene pots by gullies or similar approved. Trapped gullies to be used when connecting to a combined sewer.
- 6 Manholes to be precast concrete rings to BS 5911 min 1200 dia. u.n.d. to hard/ trafficked areas.
- 7 Invert levels quoted are exit inverts.
- 8 Pipes with cover of less than 900mm under road/paved and 600mm under landscaped areas to be enclosed in concrete bedding class 'S'.
- 9 SW needs to achieve a minimum pipe velocity of 1.0 m/s.
- 10 Proprietary terms in SW pipes, drainage channels, inspection chambers etc to be installed in accordance with the manufacturers recommendations.
- 11 All drainage to be comply with the requirements of BS EN 752 & Building Regulation Part H.

Existing/ proposed SW connection to be finalised with UU.

Site Location Plan

Scale 1:500



Attenuation design for 1 in 100 storm event plus 40% climate change allowance based on existing runoff with a minimum discharge of 2.0l/s.

All new drainage pipes/ inspection chambers to be Polypipe drainage system or similar approved up to 375mm dia. Bedding in accordance with the manufacturers details.

Location/ details of existing CW sewer taken from UU Sewer Plan map reference UUPS-ORD-307474.

Existing/ proposed SW connection into manhole CW 0203 sewer to be agreed with UU.

Drawing is based on Architect's drawing 'Existing Site Plan' drawing 131-2-PL-GSL1 revision D, by SJ arq Ltd.

Drawing is based on Architect's drawing 'Proposed Site Plan' drawing 131-2-PL-GL1 revision D, by SJ arq Ltd.

Location/ size etc. of RWP's, IC's, pipes indicative only subject to detailed design.

Drawing is based on drainage survey job number LAYERSERV0001126, by Layer Surveys Ltd.

Underground storage tank to provide attenuation for 1in100 year storm. 3m3 to be accommodate on carpark area between kerbs and the remaining in the tank for the event up to 1in100 plus CC.

Existing catchments area - circa 300m2
Proposed catchments area - circa 1000m2

Hydrobrake to limit the flow to 2.0l/s @ 1.1m head.

Existing SW drainage to be removed/ grubbed up.

Final connection into existing adopted combined sewer under Wilmslow Road to be agreed with UU.

Plant room space located in the oversized floor void beneath the raised area of the lower ground floor is to be drained up to the level of the main surface water drainage system via a subsurface pump system that is to be located in a small manhole.

Drawing indicative and for strategy purposes only. Final design/ details to be provided for construction.

Rev	Date	Description
P3	JS	09/22 Revised to LFA comments
P2	JS	08/22 Revised to LFA comments
P1	JS	02/22 issued for information

INFORMATION

Contract:

402-404 WILMSLOW ROAD
WILMINGTON

Drawing Title:

BELOW GROUND
SURFACE WATER
DRAINAGE STRATEGY
LAYOUT

integra
consulting
Civil & Structural Engineers

Tel : 0161 237 3400

Fax : 0161 237 3435

Email : manchester@integraconsulting.co.uk

Web : www.integraconsulting.co.uk

Scale: 1:100 @ A0 Date: 02/2022

Drawn: JS Checked: JS

Control No: 3301 Drawing No: 001

P3

Below Ground SW Drainage Strategy Layout

Scale 1:100



APPENDIX 12

SURFACE WATER ATTENUATION CALCULATIONS

Calculations

Job Title Wilmslow Road, Withington

Site location = M20 3BN

MS - 60 = 18,0 mm

R = 0,36

Site area = 1475 m²

Existing catchments area = 281 m²

Proposed catchments area = 978 m²

Note: Proposed discharge rate / volume not to be greater than existing!

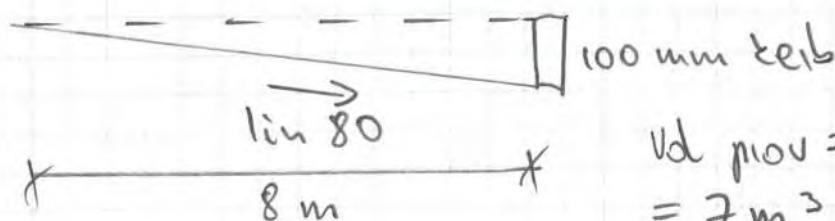
Existing MD input

- see separate calcs.

MD results:

1 in 2	d _{max} = 4,1 l/s	Vd _{6h} = 5,9 m ³
1 in 30	d _{max} = 8,4 l/s	Vd _{6h} = 10,8 m ³
1 in 100	d _{max} = 10,8 l/s	Vd _{6h} = 14,0 m ³
1 in 100 + 40% CC	d _{max} = 15,2 l/s	Vd _{6h} = 19,6 m ³

Above 1 in 100 & up to 1 in 100 + 40% CC indicates flood volume of c. 8 m³ in car park area to be accommodated on kerb side area.



$$Vd_{prov} = \frac{1}{2} \times 0,1 \times 8 \times 17 = 7 \text{ m}^3, \text{ say OK.}$$

Integra Consulting Calculations						Job No	Date
						3301	10.02.2022
						Sheet 01	By JS
Job Title Withington							
Storm Water Flood Model M5-60 = 18.00 r = 0.36 Return, T = 30 CC Factor = 0.00 Area (m²) = 978 Limit (l/s) = 2.0 Totals 20 20							
D (mins)	M5-D (mm)	MT-D (mm)	Rate (mm/hr)	Flow (l/s)	CC Flow (l/s)	Storage (m ³)	CC Storage (m ³)
10.00	9.14	13.50	80.98	21.86	21.86	11.91	11.91
15.00	10.96	16.47	65.89	17.78	17.78	14.21	14.21
20.00	12.31	18.56	55.68	15.03	15.03	15.64	15.64
25.00	13.40	20.30	48.71	13.15	13.15	16.72	16.72
30.00	14.31	21.75	43.51	11.74	11.74	17.54	17.54
35.00	15.10	23.02	39.46	10.65	10.65	18.17	18.17
40.00	15.79	24.13	36.20	9.77	9.77	18.65	18.65
45.00	16.42	25.13	33.51	9.05	9.05	19.02	19.02
50.00	16.99	26.04	31.25	8.44	8.44	19.31	19.31
55.00	17.51	26.88	29.32	7.92	7.92	19.52	19.52
60.00	18.00	27.65	27.65	7.46	7.46	19.67	19.67
65.00	18.45	28.37	26.19	7.07	7.07	19.77	19.77
70.00	18.88	29.05	24.90	6.72	6.72	19.83	19.83
75.00	19.28	29.68	23.75	6.41	6.41	19.84	19.84
80.00	19.66	30.28	22.71	6.13	6.13	19.83	19.83
85.00	20.02	30.85	21.78	5.88	5.88	19.78	19.78
90.00	20.37	31.39	20.93	5.65	5.65	19.70	19.70
95.00	20.70	31.91	20.15	5.44	5.44	19.60	19.60
100.00	21.02	32.40	19.44	5.25	5.25	19.48	19.48
105.00	21.32	32.87	18.78	5.07	5.07	19.34	19.34
110.00	21.61	33.32	18.18	4.91	4.91	19.18	19.18
115.00	21.90	33.76	17.61	4.75	4.75	19.00	19.00
120.00	22.17	34.18	17.09	4.61	4.61	18.81	18.81
125.00	22.43	34.58	16.60	4.48	4.48	18.60	18.60
130.00	22.69	34.97	16.14	4.36	4.36	18.38	18.38
135.00	22.94	35.35	15.71	4.24	4.24	18.15	18.15
140.00	23.18	35.72	15.31	4.13	4.13	17.91	17.91
145.00	23.41	36.07	14.93	4.03	4.03	17.65	17.65
150.00	23.64	36.41	14.57	3.93	3.93	17.39	17.39
155.00	23.86	36.75	14.23	3.84	3.84	17.11	17.11
160.00	24.08	37.07	13.90	3.75	3.75	16.83	16.83
165.00	24.29	37.39	13.60	3.67	3.67	16.53	16.53
170.00	24.50	37.70	13.31	3.59	3.59	16.23	16.23
175.00	24.70	38.00	13.03	3.52	3.52	15.92	15.92
180.00	24.90	38.29	12.76	3.45	3.45	15.61	15.61
185.00	25.09	38.58	12.51	3.38	3.38	15.29	15.29
190.00	25.28	38.85	12.27	3.31	3.31	14.96	14.96
195.00	25.47	39.13	12.04	3.25	3.25	14.62	14.62
200.00	25.65	39.39	11.82	3.19	3.19	14.28	14.28

205.00	25.83	39.65	11.61	3.13	3.13	13.93	13.93
210.00	26.01	39.91	11.40	3.08	3.08	13.58	13.58
215.00	26.18	40.15	11.21	3.02	3.02	13.22	13.22
220.00	26.35	40.40	11.02	2.97	2.97	12.86	12.86
225.00	26.51	40.64	10.84	2.93	2.93	12.49	12.49
230.00	26.68	40.87	10.66	2.88	2.88	12.12	12.12
235.00	26.84	41.10	10.49	2.83	2.83	11.74	11.74
240.00	27.00	41.32	10.33	2.79	2.79	11.36	11.36
245.00	27.15	41.55	10.17	2.75	2.75	10.97	10.97
250.00	27.31	41.76	10.02	2.71	2.71	10.58	10.58
255.00	27.46	41.97	9.88	2.67	2.67	10.19	10.19
260.00	27.61	42.18	9.73	2.63	2.63	9.79	9.79
265.00	27.75	42.39	9.60	2.59	2.59	9.39	9.39
270.00	27.90	42.59	9.46	2.55	2.55	8.99	8.99
275.00	28.04	42.79	9.34	2.52	2.52	8.58	8.58
280.00	28.18	42.98	9.21	2.49	2.49	8.17	8.17
285.00	28.32	43.17	9.09	2.45	2.45	7.75	7.75
290.00	28.45	43.36	8.97	2.42	2.42	7.34	7.34
295.00	28.59	43.55	8.86	2.39	2.39	6.92	6.92
300.00	28.72	43.73	8.75	2.36	2.36	6.49	6.49
305.00	28.85	43.91	8.64	2.33	2.33	6.07	6.07
310.00	28.98	44.09	8.53	2.30	2.30	5.64	5.64
315.00	29.11	44.26	8.43	2.28	2.28	5.21	5.21
320.00	29.24	44.43	8.33	2.25	2.25	4.78	4.78
325.00	29.37	44.60	8.23	2.22	2.22	4.34	4.34
330.00	29.49	44.77	8.14	2.20	2.20	3.90	3.90
335.00	29.61	44.93	8.05	2.17	2.17	3.46	3.46
340.00	29.73	45.09	7.96	2.15	2.15	3.02	3.02
345.00	29.85	45.25	7.87	2.12	2.12	2.57	2.57
350.00	29.97	45.41	7.78	2.10	2.10	2.13	2.13
355.00	30.09	45.56	7.70	2.08	2.08	1.68	1.68
360.00	30.20	45.72	7.62	2.06	2.06	1.22	1.22
365.00	30.32	45.87	7.54	2.04	2.04	0.77	0.77
370.00	30.43	46.02	7.46	2.01	2.01	0.32	0.32
375.00	30.55	46.16	7.39	1.99	1.99	-0.14	-0.14
380.00	30.66	46.31	7.31	1.97	1.97	-0.60	-0.60
385.00	30.77	46.45	7.24	1.95	1.95	-1.06	-1.06
390.00	30.88	46.59	7.17	1.93	1.93	-1.53	-1.53
395.00	30.98	46.73	7.10	1.92	1.92	-1.99	-1.99
400.00	31.09	46.97	7.05	1.90	1.90	-2.35	-2.35
405.00	31.20	47.12	6.98	1.88	1.88	-2.81	-2.81
410.00	31.30	47.27	6.92	1.87	1.87	-3.27	-3.27
415.00	31.41	47.41	6.85	1.85	1.85	-3.73	-3.73
420.00	31.51	47.55	6.79	1.83	1.83	-4.19	-4.19
425.00	31.61	47.69	6.73	1.82	1.82	-4.66	-4.66
430.00	31.71	47.83	6.67	1.80	1.80	-5.12	-5.12
435.00	31.81	47.97	6.62	1.79	1.79	-5.58	-5.58
440.00	31.91	48.11	6.56	1.77	1.77	-6.05	-6.05
445.00	32.01	48.24	6.50	1.76	1.76	-6.52	-6.52
450.00	32.11	48.38	6.45	1.74	1.74	-6.99	-6.99

455.00	32.21	48.51	6.40	1.73	1.73	-7.46	-7.46
460.00	32.30	48.65	6.35	1.71	1.71	-7.93	-7.93
465.00	32.40	48.78	6.29	1.70	1.70	-8.40	-8.40
470.00	32.49	48.91	6.24	1.69	1.69	-8.87	-8.87
475.00	32.59	49.04	6.19	1.67	1.67	-9.35	-9.35
480.00	32.68	49.16	6.15	1.66	1.66	-9.82	-9.82
485.00	32.77	49.29	6.10	1.65	1.65	-10.30	-10.30
490.00	32.87	49.42	6.05	1.63	1.63	-10.78	-10.78
495.00	32.96	49.54	6.01	1.62	1.62	-11.26	-11.26
500.00	33.05	49.67	5.96	1.61	1.61	-11.74	-11.74
505.00	33.14	49.79	5.92	1.60	1.60	-12.22	-12.22
510.00	33.23	49.91	5.87	1.58	1.58	-12.70	-12.70
515.00	33.32	50.03	5.83	1.57	1.57	-13.18	-13.18
520.00	33.40	50.15	5.79	1.56	1.56	-13.66	-13.66
525.00	33.49	50.27	5.75	1.55	1.55	-14.15	-14.15
530.00	33.58	50.39	5.70	1.54	1.54	-14.63	-14.63
535.00	33.66	50.51	5.66	1.53	1.53	-15.12	-15.12
540.00	33.75	50.62	5.62	1.52	1.52	-15.61	-15.61
545.00	33.83	50.74	5.59	1.51	1.51	-16.09	-16.09
550.00	33.92	50.85	5.55	1.50	1.50	-16.58	-16.58
555.00	34.00	50.97	5.51	1.49	1.49	-17.07	-17.07
560.00	34.08	51.08	5.47	1.48	1.48	-17.56	-17.56
565.00	34.17	51.19	5.44	1.47	1.47	-18.05	-18.05
570.00	34.25	51.31	5.40	1.46	1.46	-18.54	-18.54
575.00	34.33	51.42	5.37	1.45	1.45	-19.04	-19.04
580.00	34.41	51.53	5.33	1.44	1.44	-19.53	-19.53
585.00	34.49	51.64	5.30	1.43	1.43	-20.02	-20.02
590.00	34.57	51.75	5.26	1.42	1.42	-20.52	-20.52
595.00	34.65	51.85	5.23	1.41	1.41	-21.01	-21.01
600.00	34.73	51.96	5.20	1.40	1.40	-21.51	-21.51
605.00	34.81	52.07	5.16	1.39	1.39	-22.00	-22.00
610.00	34.89	52.17	5.13	1.39	1.39	-22.50	-22.50
615.00	34.96	52.28	5.10	1.38	1.38	-23.00	-23.00
620.00	35.04	52.38	5.07	1.37	1.37	-23.50	-23.50
625.00	35.12	52.49	5.04	1.36	1.36	-24.00	-24.00
630.00	35.19	52.59	5.01	1.35	1.35	-24.50	-24.50
635.00	35.27	52.69	4.98	1.34	1.34	-25.00	-25.00
640.00	35.34	52.79	4.95	1.34	1.34	-25.50	-25.50
645.00	35.42	52.89	4.92	1.33	1.33	-26.00	-26.00
650.00	35.49	52.99	4.89	1.32	1.32	-26.50	-26.50
655.00	35.57	53.09	4.86	1.31	1.31	-27.01	-27.01
660.00	35.64	53.19	4.84	1.31	1.31	-27.51	-27.51
665.00	35.71	53.29	4.81	1.30	1.30	-28.01	-28.01
670.00	35.79	53.39	4.78	1.29	1.29	-28.52	-28.52
675.00	35.86	53.49	4.75	1.28	1.28	-29.02	-29.02
680.00	35.93	53.59	4.73	1.28	1.28	-29.53	-29.53
685.00	36.00	53.68	4.70	1.27	1.27	-30.04	-30.04
690.00	36.07	53.78	4.68	1.26	1.26	-30.54	-30.54
695.00	36.14	53.87	4.65	1.26	1.26	-31.05	-31.05
700.00	36.21	53.97	4.63	1.25	1.25	-31.56	-31.56

705.00	36.28	54.06	4.60	1.24	1.24	-32.07	-32.07
710.00	36.35	54.16	4.58	1.24	1.24	-32.57	-32.57
715.00	36.42	54.25	4.55	1.23	1.23	-33.08	-33.08
720.00	36.49	54.34	4.53	1.22	1.22	-33.59	-33.59
725.00	36.56	54.43	4.50	1.22	1.22	-34.10	-34.10
730.00	36.63	54.53	4.48	1.21	1.21	-34.62	-34.62
735.00	36.70	54.62	4.46	1.20	1.20	-35.13	-35.13
740.00	36.76	54.71	4.44	1.20	1.20	-35.64	-35.64
745.00	36.83	54.80	4.41	1.19	1.19	-36.15	-36.15
750.00	36.90	54.89	4.39	1.19	1.19	-36.66	-36.66
755.00	36.96	54.98	4.37	1.18	1.18	-37.18	-37.18
760.00	37.03	55.07	4.35	1.17	1.17	-37.69	-37.69
765.00	37.10	55.15	4.33	1.17	1.17	-38.21	-38.21
770.00	37.16	55.24	4.30	1.16	1.16	-38.72	-38.72
775.00	37.23	55.33	4.28	1.16	1.16	-39.23	-39.23
780.00	37.29	55.42	4.26	1.15	1.15	-39.75	-39.75
785.00	37.36	55.50	4.24	1.15	1.15	-40.27	-40.27
790.00	37.42	55.59	4.22	1.14	1.14	-40.78	-40.78
795.00	37.48	55.67	4.20	1.13	1.13	-41.30	-41.30
800.00	37.55	55.76	4.18	1.13	1.13	-41.82	-41.82
805.00	37.61	55.84	4.16	1.12	1.12	-42.33	-42.33
810.00	37.68	55.93	4.14	1.12	1.12	-42.85	-42.85
815.00	37.74	56.01	4.12	1.11	1.11	-43.37	-43.37
820.00	37.80	56.10	4.10	1.11	1.11	-43.89	-43.89
825.00	37.86	56.18	4.09	1.10	1.10	-44.41	-44.41
830.00	37.92	56.26	4.07	1.10	1.10	-44.93	-44.93
835.00	37.99	56.34	4.05	1.09	1.09	-45.45	-45.45
840.00	38.05	56.43	4.03	1.09	1.09	-45.97	-45.97
845.00	38.11	56.51	4.01	1.08	1.08	-46.49	-46.49
850.00	38.17	56.59	3.99	1.08	1.08	-47.01	-47.01
855.00	38.23	56.67	3.98	1.07	1.07	-47.53	-47.53
860.00	38.29	56.75	3.96	1.07	1.07	-48.05	-48.05
865.00	38.35	56.83	3.94	1.06	1.06	-48.58	-48.58
870.00	38.41	56.91	3.92	1.06	1.06	-49.10	-49.10
875.00	38.47	56.99	3.91	1.05	1.05	-49.62	-49.62
880.00	38.53	57.07	3.89	1.05	1.05	-50.14	-50.14
885.00	38.59	57.15	3.87	1.05	1.05	-50.67	-50.67
890.00	38.65	57.22	3.86	1.04	1.04	-51.19	-51.19
895.00	38.71	57.30	3.84	1.04	1.04	-51.72	-51.72
900.00	38.76	57.38	3.83	1.03	1.03	-52.24	-52.24
905.00	38.82	57.46	3.81	1.03	1.03	-52.77	-52.77
910.00	38.88	57.53	3.79	1.02	1.02	-53.29	-53.29
915.00	38.94	57.61	3.78	1.02	1.02	-53.82	-53.82
920.00	38.99	57.69	3.76	1.02	1.02	-54.34	-54.34
925.00	39.05	57.76	3.75	1.01	1.01	-54.87	-54.87
930.00	39.11	57.84	3.73	1.01	1.01	-55.40	-55.40
935.00	39.17	57.91	3.72	1.00	1.00	-55.92	-55.92
940.00	39.22	57.99	3.70	1.00	1.00	-56.45	-56.45
945.00	39.28	58.06	3.69	1.00	1.00	-56.98	-56.98
950.00	39.33	58.14	3.67	0.99	0.99	-57.50	-57.50

955.00	39.39	58.21	3.66	0.99	0.99	-58.03	-58.03
960.00	39.45	58.29	3.64	0.98	0.98	-58.56	-58.56
965.00	39.50	58.36	3.63	0.98	0.98	-59.09	-59.09
970.00	39.56	58.43	3.61	0.98	0.98	-59.62	-59.62
975.00	39.61	58.50	3.60	0.97	0.97	-60.15	-60.15
980.00	39.67	58.58	3.59	0.97	0.97	-60.68	-60.68
985.00	39.72	58.65	3.57	0.96	0.96	-61.21	-61.21
990.00	39.77	58.72	3.56	0.96	0.96	-61.74	-61.74
995.00	39.83	58.79	3.55	0.96	0.96	-62.27	-62.27
1000.00	39.88	58.86	3.53	0.95	0.95	-62.80	-62.80
1005.00	39.94	58.94	3.52	0.95	0.95	-63.33	-63.33
1010.00	39.99	59.01	3.51	0.95	0.95	-63.86	-63.86
1015.00	40.04	59.08	3.49	0.94	0.94	-64.39	-64.39
1020.00	40.10	59.15	3.48	0.94	0.94	-64.92	-64.92
1025.00	40.15	59.22	3.47	0.94	0.94	-65.46	-65.46
1030.00	40.20	59.29	3.45	0.93	0.93	-65.99	-65.99
1035.00	40.25	59.36	3.44	0.93	0.93	-66.52	-66.52
1040.00	40.31	59.43	3.43	0.93	0.93	-67.05	-67.05
1045.00	40.36	59.49	3.42	0.92	0.92	-67.59	-67.59
1050.00	40.41	59.56	3.40	0.92	0.92	-68.12	-68.12
1055.00	40.46	59.63	3.39	0.92	0.92	-68.65	-68.65
1060.00	40.51	59.70	3.38	0.91	0.91	-69.19	-69.19
1065.00	40.57	59.77	3.37	0.91	0.91	-69.72	-69.72
1070.00	40.62	59.83	3.36	0.91	0.91	-70.26	-70.26
1075.00	40.67	59.90	3.34	0.90	0.90	-70.79	-70.79
1080.00	40.72	59.97	3.33	0.90	0.90	-71.33	-71.33
1085.00	40.77	60.04	3.32	0.90	0.90	-71.86	-71.86
1090.00	40.82	60.10	3.31	0.89	0.89	-72.40	-72.40
1095.00	40.87	60.17	3.30	0.89	0.89	-72.93	-72.93
1100.00	40.92	60.23	3.29	0.89	0.89	-73.47	-73.47
1105.00	40.97	60.30	3.27	0.88	0.88	-74.00	-74.00
1110.00	41.02	60.37	3.26	0.88	0.88	-74.54	-74.54
1115.00	41.07	60.43	3.25	0.88	0.88	-75.08	-75.08
1120.00	41.12	60.50	3.24	0.87	0.87	-75.61	-75.61
1125.00	41.17	60.56	3.23	0.87	0.87	-76.15	-76.15
1130.00	41.22	60.63	3.22	0.87	0.87	-76.69	-76.69
1135.00	41.27	60.69	3.21	0.87	0.87	-77.22	-77.22
1140.00	41.32	60.76	3.20	0.86	0.86	-77.76	-77.76
1145.00	41.37	60.82	3.19	0.86	0.86	-78.30	-78.30
1150.00	41.42	60.88	3.18	0.86	0.86	-78.84	-78.84
1155.00	41.46	60.95	3.17	0.85	0.85	-79.38	-79.38
1160.00	41.51	61.01	3.16	0.85	0.85	-79.91	-79.91
1165.00	41.56	61.07	3.15	0.85	0.85	-80.45	-80.45
1170.00	41.61	61.14	3.14	0.85	0.85	-80.99	-80.99
1175.00	41.66	61.20	3.13	0.84	0.84	-81.53	-81.53
1180.00	41.70	61.26	3.12	0.84	0.84	-82.07	-82.07
1185.00	41.75	61.32	3.11	0.84	0.84	-82.61	-82.61
1190.00	41.80	61.39	3.10	0.84	0.84	-83.15	-83.15
1195.00	41.85	61.45	3.09	0.83	0.83	-83.69	-83.69
1200.00	41.89	61.51	3.08	0.83	0.83	-84.23	-84.23

1205.00	41.94	61.57	3.07	0.83	0.83	-84.77	-84.77
1210.00	41.99	61.63	3.06	0.82	0.82	-85.31	-85.31
1215.00	42.03	61.69	3.05	0.82	0.82	-85.85	-85.85
1220.00	42.08	61.75	3.04	0.82	0.82	-86.39	-86.39
1225.00	42.13	61.82	3.03	0.82	0.82	-86.93	-86.93
1230.00	42.17	61.88	3.02	0.81	0.81	-87.47	-87.47
1235.00	42.22	61.94	3.01	0.81	0.81	-88.01	-88.01
1240.00	42.26	62.00	3.00	0.81	0.81	-88.56	-88.56
1245.00	42.31	62.06	2.99	0.81	0.81	-89.10	-89.10
1250.00	42.36	62.12	2.98	0.80	0.80	-89.64	-89.64
1255.00	42.40	62.18	2.97	0.80	0.80	-90.18	-90.18
1260.00	42.45	62.23	2.96	0.80	0.80	-90.72	-90.72
1265.00	42.49	62.29	2.95	0.80	0.80	-91.27	-91.27
1270.00	42.54	62.35	2.95	0.80	0.80	-91.81	-91.81
1275.00	42.58	62.41	2.94	0.79	0.79	-92.35	-92.35
1280.00	42.63	62.47	2.93	0.79	0.79	-92.90	-92.90
1285.00	42.67	62.53	2.92	0.79	0.79	-93.44	-93.44
1290.00	42.72	62.59	2.91	0.79	0.79	-93.98	-93.98
1295.00	42.76	62.64	2.90	0.78	0.78	-94.53	-94.53
1300.00	42.81	62.70	2.89	0.78	0.78	-95.07	-95.07
1305.00	42.85	62.76	2.89	0.78	0.78	-95.61	-95.61
1310.00	42.89	62.82	2.88	0.78	0.78	-96.16	-96.16
1315.00	42.94	62.88	2.87	0.77	0.77	-96.70	-96.70
1320.00	42.98	62.93	2.86	0.77	0.77	-97.25	-97.25
1325.00	43.03	62.99	2.85	0.77	0.77	-97.79	-97.79
1330.00	43.07	63.05	2.84	0.77	0.77	-98.34	-98.34
1335.00	43.11	63.10	2.84	0.77	0.77	-98.88	-98.88
1340.00	43.16	63.16	2.83	0.76	0.76	-99.43	-99.43
1345.00	43.20	63.22	2.82	0.76	0.76	-99.97	-99.97
1350.00	43.24	63.27	2.81	0.76	0.76	-100.52	-100.52
1355.00	43.29	63.33	2.80	0.76	0.76	-101.06	-101.06
1360.00	43.33	63.38	2.80	0.75	0.75	-101.61	-101.61
1365.00	43.37	63.44	2.79	0.75	0.75	-102.15	-102.15
1370.00	43.41	63.49	2.78	0.75	0.75	-102.70	-102.70
1375.00	43.46	63.55	2.77	0.75	0.75	-103.25	-103.25
1380.00	43.50	63.61	2.77	0.75	0.75	-103.79	-103.79
1385.00	43.54	63.66	2.76	0.74	0.74	-104.34	-104.34
1390.00	43.58	63.72	2.75	0.74	0.74	-104.89	-104.89
1395.00	43.63	63.77	2.74	0.74	0.74	-105.43	-105.43
1400.00	43.67	63.82	2.74	0.74	0.74	-105.98	-105.98
1405.00	43.71	63.88	2.73	0.74	0.74	-106.53	-106.53
1410.00	43.75	63.93	2.72	0.73	0.73	-107.07	-107.07
1415.00	43.79	63.99	2.71	0.73	0.73	-107.62	-107.62
1420.00	43.84	64.04	2.71	0.73	0.73	-108.17	-108.17
1425.00	43.88	64.10	2.70	0.73	0.73	-108.72	-108.72
1430.00	43.92	64.15	2.69	0.73	0.73	-109.26	-109.26
1435.00	43.96	64.20	2.68	0.72	0.72	-109.81	-109.81
1440.00	44.00	64.26	2.68	0.72	0.72	-110.36	-110.36
1445.00	44.04	64.31	2.67	0.72	0.72	-110.91	-110.91
1450.00	44.08	64.36	2.66	0.72	0.72	-111.46	-111.46

1455.00	44.12	64.41	2.66	0.72	0.72	-112.01	-112.01
1460.00	44.16	64.47	2.65	0.72	0.72	-112.55	-112.55
1465.00	44.20	64.52	2.64	0.71	0.71	-113.10	-113.10
1470.00	44.25	64.57	2.64	0.71	0.71	-113.65	-113.65
1475.00	44.29	64.63	2.63	0.71	0.71	-114.20	-114.20
1480.00	44.33	64.68	2.62	0.71	0.71	-114.75	-114.75
1485.00	44.37	64.73	2.62	0.71	0.71	-115.30	-115.30
1490.00	44.41	64.78	2.61	0.70	0.70	-115.85	-115.85
1495.00	44.45	64.83	2.60	0.70	0.70	-116.40	-116.40
1500.00	44.49	64.88	2.60	0.70	0.70	-116.95	-116.95
1505.00	44.53	64.94	2.59	0.70	0.70	-117.50	-117.50
1510.00	44.57	64.99	2.58	0.70	0.70	-118.05	-118.05
1515.00	44.61	65.04	2.58	0.70	0.70	-118.60	-118.60
1520.00	44.65	65.09	2.57	0.69	0.69	-119.15	-119.15
1525.00	44.68	65.14	2.56	0.69	0.69	-119.70	-119.70
1530.00	44.72	65.19	2.56	0.69	0.69	-120.25	-120.25
1535.00	44.76	65.24	2.55	0.69	0.69	-120.80	-120.80
1540.00	44.80	65.29	2.54	0.69	0.69	-121.35	-121.35
1545.00	44.84	65.34	2.54	0.68	0.68	-121.90	-121.90
1550.00	44.88	65.39	2.53	0.68	0.68	-122.45	-122.45
1555.00	44.92	65.44	2.53	0.68	0.68	-123.01	-123.01
1560.00	44.96	65.49	2.52	0.68	0.68	-123.56	-123.56
1565.00	45.00	65.54	2.51	0.68	0.68	-124.11	-124.11
1570.00	45.04	65.59	2.51	0.68	0.68	-124.66	-124.66
1575.00	45.07	65.64	2.50	0.68	0.68	-125.21	-125.21
1580.00	45.11	65.69	2.49	0.67	0.67	-125.76	-125.76
1585.00	45.15	65.74	2.49	0.67	0.67	-126.32	-126.32
1590.00	45.19	65.79	2.48	0.67	0.67	-126.87	-126.87
1595.00	45.23	65.84	2.48	0.67	0.67	-127.42	-127.42
1600.00	45.27	65.89	2.47	0.67	0.67	-127.97	-127.97
1605.00	45.30	65.94	2.47	0.67	0.67	-128.52	-128.52
1610.00	45.34	65.99	2.46	0.66	0.66	-129.08	-129.08
1615.00	45.38	66.04	2.45	0.66	0.66	-129.63	-129.63
1620.00	45.42	66.08	2.45	0.66	0.66	-130.18	-130.18
1625.00	45.45	66.13	2.44	0.66	0.66	-130.74	-130.74
1630.00	45.49	66.18	2.44	0.66	0.66	-131.29	-131.29
1635.00	45.53	66.23	2.43	0.66	0.66	-131.84	-131.84
1640.00	45.57	66.28	2.42	0.65	0.65	-132.40	-132.40
1645.00	45.60	66.33	2.42	0.65	0.65	-132.95	-132.95
1650.00	45.64	66.37	2.41	0.65	0.65	-133.50	-133.50
1655.00	45.68	66.42	2.41	0.65	0.65	-134.06	-134.06
1660.00	45.72	66.47	2.40	0.65	0.65	-134.61	-134.61
1665.00	45.75	66.52	2.40	0.65	0.65	-135.16	-135.16
1670.00	45.79	66.56	2.39	0.65	0.65	-135.72	-135.72
1675.00	45.83	66.61	2.39	0.64	0.64	-136.27	-136.27
1680.00	45.86	66.66	2.38	0.64	0.64	-136.83	-136.83
1685.00	45.90	66.71	2.38	0.64	0.64	-137.38	-137.38
1690.00	45.94	66.75	2.37	0.64	0.64	-137.93	-137.93
1695.00	45.97	66.80	2.36	0.64	0.64	-138.49	-138.49
1700.00	46.01	66.85	2.36	0.64	0.64	-139.04	-139.04

1705.00	46.05	66.89	2.35	0.64	0.64	-139.60	-139.60
1710.00	46.08	66.94	2.35	0.63	0.63	-140.15	-140.15
1715.00	46.12	66.99	2.34	0.63	0.63	-140.71	-140.71
1720.00	46.15	67.03	2.34	0.63	0.63	-141.26	-141.26
1725.00	46.19	67.08	2.33	0.63	0.63	-141.82	-141.82
1730.00	46.23	67.12	2.33	0.63	0.63	-142.37	-142.37
1735.00	46.26	67.17	2.32	0.63	0.63	-142.93	-142.93
1740.00	46.30	67.22	2.32	0.63	0.63	-143.48	-143.48
1745.00	46.33	67.26	2.31	0.62	0.62	-144.04	-144.04
1750.00	46.37	67.31	2.31	0.62	0.62	-144.59	-144.59
1755.00	46.40	67.35	2.30	0.62	0.62	-145.15	-145.15
1760.00	46.44	67.40	2.30	0.62	0.62	-145.71	-145.71
1765.00	46.47	67.44	2.29	0.62	0.62	-146.26	-146.26
1770.00	46.51	67.49	2.29	0.62	0.62	-146.82	-146.82
1775.00	46.55	67.53	2.28	0.62	0.62	-147.37	-147.37
1780.00	46.58	67.58	2.28	0.61	0.61	-147.93	-147.93
1785.00	46.62	67.62	2.27	0.61	0.61	-148.49	-148.49
1790.00	46.65	67.67	2.27	0.61	0.61	-149.04	-149.04
1795.00	46.69	67.71	2.26	0.61	0.61	-149.60	-149.60
1800.00	46.72	67.76	2.26	0.61	0.61	-150.16	-150.16
1805.00	46.76	67.80	2.25	0.61	0.61	-150.71	-150.71
1810.00	46.79	67.85	2.25	0.61	0.61	-151.27	-151.27
1815.00	46.83	67.89	2.24	0.61	0.61	-151.83	-151.83
1820.00	46.86	67.94	2.24	0.60	0.60	-152.38	-152.38
1825.00	46.89	67.98	2.23	0.60	0.60	-152.94	-152.94
1830.00	46.93	68.02	2.23	0.60	0.60	-153.50	-153.50
1835.00	46.96	68.07	2.23	0.60	0.60	-154.06	-154.06
1840.00	47.00	68.11	2.22	0.60	0.60	-154.61	-154.61
1845.00	47.03	68.16	2.22	0.60	0.60	-155.17	-155.17
1850.00	47.07	68.20	2.21	0.60	0.60	-155.73	-155.73
1855.00	47.10	68.24	2.21	0.60	0.60	-156.29	-156.29
1860.00	47.13	68.29	2.20	0.59	0.59	-156.84	-156.84
1865.00	47.17	68.33	2.20	0.59	0.59	-157.40	-157.40
1870.00	47.20	68.37	2.19	0.59	0.59	-157.96	-157.96
1875.00	47.24	68.42	2.19	0.59	0.59	-158.52	-158.52
1880.00	47.27	68.46	2.18	0.59	0.59	-159.07	-159.07
1885.00	47.30	68.50	2.18	0.59	0.59	-159.63	-159.63
1890.00	47.34	68.55	2.18	0.59	0.59	-160.19	-160.19
1895.00	47.37	68.59	2.17	0.59	0.59	-160.75	-160.75
1900.00	47.40	68.63	2.17	0.59	0.59	-161.31	-161.31
1905.00	47.44	68.67	2.16	0.58	0.58	-161.87	-161.87
1910.00	47.47	68.72	2.16	0.58	0.58	-162.43	-162.43
1915.00	47.50	68.76	2.15	0.58	0.58	-162.98	-162.98
1920.00	47.54	68.80	2.15	0.58	0.58	-163.54	-163.54
1925.00	47.57	68.84	2.15	0.58	0.58	-164.10	-164.10
1930.00	47.60	68.89	2.14	0.58	0.58	-164.66	-164.66
1935.00	47.64	68.93	2.14	0.58	0.58	-165.22	-165.22
1940.00	47.67	68.97	2.13	0.58	0.58	-165.78	-165.78
1945.00	47.70	69.01	2.13	0.57	0.57	-166.34	-166.34
1950.00	47.74	69.05	2.12	0.57	0.57	-166.90	-166.90

1955.00	47.77	69.10	2.12	0.57	0.57	-167.46	-167.46
1960.00	47.80	69.14	2.12	0.57	0.57	-168.02	-168.02
1965.00	47.83	69.18	2.11	0.57	0.57	-168.58	-168.58
1970.00	47.87	69.22	2.11	0.57	0.57	-169.14	-169.14
1975.00	47.90	69.26	2.10	0.57	0.57	-169.69	-169.69
1980.00	47.93	69.30	2.10	0.57	0.57	-170.25	-170.25
1985.00	47.96	69.35	2.10	0.57	0.57	-170.81	-170.81
1990.00	48.00	69.39	2.09	0.56	0.56	-171.37	-171.37
1995.00	48.03	69.43	2.09	0.56	0.56	-171.93	-171.93
2000.00	48.06	69.47	2.08	0.56	0.56	-172.49	-172.49
2005.00	48.09	69.51	2.08	0.56	0.56	-173.05	-173.05
2010.00	48.13	69.55	2.08	0.56	0.56	-173.61	-173.61
2015.00	48.16	69.59	2.07	0.56	0.56	-174.18	-174.18
2020.00	48.19	69.63	2.07	0.56	0.56	-174.74	-174.74
2025.00	48.22	69.67	2.06	0.56	0.56	-175.30	-175.30
2030.00	48.25	69.71	2.06	0.56	0.56	-175.86	-175.86
2035.00	48.29	69.75	2.06	0.56	0.56	-176.42	-176.42
2040.00	48.32	69.79	2.05	0.55	0.55	-176.98	-176.98
2045.00	48.35	69.83	2.05	0.55	0.55	-177.54	-177.54
2050.00	48.38	69.87	2.05	0.55	0.55	-178.10	-178.10
2055.00	48.41	69.91	2.04	0.55	0.55	-178.66	-178.66
2060.00	48.44	69.95	2.04	0.55	0.55	-179.22	-179.22
2065.00	48.48	69.99	2.03	0.55	0.55	-179.78	-179.78
2070.00	48.51	70.03	2.03	0.55	0.55	-180.34	-180.34
2075.00	48.54	70.07	2.03	0.55	0.55	-180.91	-180.91
2080.00	48.57	70.11	2.02	0.55	0.55	-181.47	-181.47
2085.00	48.60	70.15	2.02	0.54	0.54	-182.03	-182.03
2090.00	48.63	70.19	2.02	0.54	0.54	-182.59	-182.59
2095.00	48.66	70.23	2.01	0.54	0.54	-183.15	-183.15
2100.00	48.70	70.27	2.01	0.54	0.54	-183.71	-183.71
2105.00	48.73	70.31	2.00	0.54	0.54	-184.27	-184.27
2110.00	48.76	70.35	2.00	0.54	0.54	-184.84	-184.84
2115.00	48.79	70.39	2.00	0.54	0.54	-185.40	-185.40
2120.00	48.82	70.43	1.99	0.54	0.54	-185.96	-185.96
2125.00	48.85	70.47	1.99	0.54	0.54	-186.52	-186.52
2130.00	48.88	70.51	1.99	0.54	0.54	-187.08	-187.08
2135.00	48.91	70.55	1.98	0.54	0.54	-187.65	-187.65
2140.00	48.94	70.59	1.98	0.53	0.53	-188.21	-188.21
2145.00	48.97	70.62	1.98	0.53	0.53	-188.77	-188.77
2150.00	49.00	70.66	1.97	0.53	0.53	-189.33	-189.33
2155.00	49.03	70.70	1.97	0.53	0.53	-189.90	-189.90
2160.00	49.06	70.74	1.97	0.53	0.53	-190.46	-190.46
2165.00	49.10	70.78	1.96	0.53	0.53	-191.02	-191.02
2170.00	49.13	70.82	1.96	0.53	0.53	-191.58	-191.58
2175.00	49.16	70.86	1.95	0.53	0.53	-192.15	-192.15
2180.00	49.19	70.89	1.95	0.53	0.53	-192.71	-192.71
2185.00	49.22	70.93	1.95	0.53	0.53	-193.27	-193.27
2190.00	49.25	70.97	1.94	0.52	0.52	-193.83	-193.83
2195.00	49.28	71.01	1.94	0.52	0.52	-194.40	-194.40
2200.00	49.31	71.05	1.94	0.52	0.52	-194.96	-194.96

2205.00	49.34	71.09	1.93	0.52	0.52	-195.52	-195.52
2210.00	49.37	71.12	1.93	0.52	0.52	-196.09	-196.09
2215.00	49.40	71.16	1.93	0.52	0.52	-196.65	-196.65
2220.00	49.43	71.20	1.92	0.52	0.52	-197.21	-197.21
2225.00	49.46	71.24	1.92	0.52	0.52	-197.78	-197.78
2230.00	49.49	71.27	1.92	0.52	0.52	-198.34	-198.34
2235.00	49.52	71.31	1.91	0.52	0.52	-198.90	-198.90
2240.00	49.55	71.35	1.91	0.52	0.52	-199.47	-199.47
2245.00	49.58	71.39	1.91	0.51	0.51	-200.03	-200.03
2250.00	49.61	71.42	1.90	0.51	0.51	-200.59	-200.59
2255.00	49.63	71.46	1.90	0.51	0.51	-201.16	-201.16
2260.00	49.66	71.50	1.90	0.51	0.51	-201.72	-201.72
2265.00	49.69	71.54	1.89	0.51	0.51	-202.29	-202.29
2270.00	49.72	71.57	1.89	0.51	0.51	-202.85	-202.85
2275.00	49.75	71.61	1.89	0.51	0.51	-203.41	-203.41
2280.00	49.78	71.65	1.89	0.51	0.51	-203.98	-203.98
2285.00	49.81	71.68	1.88	0.51	0.51	-204.54	-204.54
2290.00	49.84	71.72	1.88	0.51	0.51	-205.11	-205.11
2295.00	49.87	71.76	1.88	0.51	0.51	-205.67	-205.67
2300.00	49.90	71.79	1.87	0.51	0.51	-206.23	-206.23
2305.00	49.93	71.83	1.87	0.50	0.50	-206.80	-206.80
2310.00	49.96	71.87	1.87	0.50	0.50	-207.36	-207.36
2315.00	49.99	71.90	1.86	0.50	0.50	-207.93	-207.93
2320.00	50.01	71.94	1.86	0.50	0.50	-208.49	-208.49
2325.00	50.04	71.98	1.86	0.50	0.50	-209.06	-209.06
2330.00	50.07	72.01	1.85	0.50	0.50	-209.62	-209.62
2335.00	50.10	72.05	1.85	0.50	0.50	-210.19	-210.19
2340.00	50.13	72.09	1.85	0.50	0.50	-210.75	-210.75
2345.00	50.16	72.12	1.85	0.50	0.50	-211.32	-211.32
2350.00	50.19	72.16	1.84	0.50	0.50	-211.88	-211.88
2355.00	50.22	72.19	1.84	0.50	0.50	-212.45	-212.45
2360.00	50.24	72.23	1.84	0.50	0.50	-213.01	-213.01
2365.00	50.27	72.27	1.83	0.49	0.49	-213.58	-213.58
2370.00	50.30	72.30	1.83	0.49	0.49	-214.14	-214.14
2375.00	50.33	72.34	1.83	0.49	0.49	-214.71	-214.71
2380.00	50.36	72.37	1.82	0.49	0.49	-215.27	-215.27
2385.00	50.39	72.41	1.82	0.49	0.49	-215.84	-215.84
2390.00	50.41	72.44	1.82	0.49	0.49	-216.40	-216.40
2395.00	50.44	72.48	1.82	0.49	0.49	-216.97	-216.97
2400.00	50.47	72.52	1.81	0.49	0.49	-217.53	-217.53
2405.00	50.50	72.55	1.81	0.49	0.49	-218.10	-218.10
2410.00	50.53	72.59	1.81	0.49	0.49	-218.67	-218.67
2415.00	50.56	72.62	1.80	0.49	0.49	-219.23	-219.23
2420.00	50.58	72.66	1.80	0.49	0.49	-219.80	-219.80
2425.00	50.61	72.69	1.80	0.49	0.49	-220.36	-220.36
2430.00	50.64	72.73	1.80	0.48	0.48	-220.93	-220.93
2435.00	50.67	72.76	1.79	0.48	0.48	-221.49	-221.49
2440.00	50.70	72.80	1.79	0.48	0.48	-222.06	-222.06
2445.00	50.72	72.83	1.79	0.48	0.48	-222.63	-222.63
2450.00	50.75	72.87	1.78	0.48	0.48	-223.19	-223.19

2455.00	50.78	72.90	1.78	0.48	0.48	-223.76	-223.76
2460.00	50.81	72.94	1.78	0.48	0.48	-224.32	-224.32
2465.00	50.83	72.97	1.78	0.48	0.48	-224.89	-224.89
2470.00	50.86	73.01	1.77	0.48	0.48	-225.46	-225.46
2475.00	50.89	73.04	1.77	0.48	0.48	-226.02	-226.02
2480.00	50.92	73.07	1.77	0.48	0.48	-226.59	-226.59
2485.00	50.94	73.11	1.77	0.48	0.48	-227.16	-227.16
2490.00	50.97	73.14	1.76	0.48	0.48	-227.72	-227.72
2495.00	51.00	73.18	1.76	0.48	0.48	-228.29	-228.29
2500.00	51.03	73.21	1.76	0.47	0.47	-228.86	-228.86
2505.00	51.05	73.25	1.75	0.47	0.47	-229.42	-229.42
2510.00	51.08	73.28	1.75	0.47	0.47	-229.99	-229.99
2515.00	51.11	73.32	1.75	0.47	0.47	-230.56	-230.56
2520.00	51.14	73.35	1.75	0.47	0.47	-231.12	-231.12
2525.00	51.16	73.38	1.74	0.47	0.47	-231.69	-231.69
2530.00	51.19	73.42	1.74	0.47	0.47	-232.26	-232.26
2535.00	51.22	73.45	1.74	0.47	0.47	-232.82	-232.82
2540.00	51.24	73.49	1.74	0.47	0.47	-233.39	-233.39
2545.00	51.27	73.52	1.73	0.47	0.47	-233.96	-233.96
2550.00	51.30	73.55	1.73	0.47	0.47	-234.53	-234.53
2555.00	51.33	73.59	1.73	0.47	0.47	-235.09	-235.09
2560.00	51.35	73.62	1.73	0.47	0.47	-235.66	-235.66
2565.00	51.38	73.65	1.72	0.47	0.47	-236.23	-236.23
2570.00	51.41	73.69	1.72	0.46	0.46	-236.79	-236.79
2575.00	51.43	73.72	1.72	0.46	0.46	-237.36	-237.36
2580.00	51.46	73.75	1.72	0.46	0.46	-237.93	-237.93
2585.00	51.49	73.79	1.71	0.46	0.46	-238.50	-238.50
2590.00	51.51	73.82	1.71	0.46	0.46	-239.06	-239.06
2595.00	51.54	73.86	1.71	0.46	0.46	-239.63	-239.63
2600.00	51.57	73.89	1.71	0.46	0.46	-240.20	-240.20
2605.00	51.59	73.92	1.70	0.46	0.46	-240.77	-240.77
2610.00	51.62	73.95	1.70	0.46	0.46	-241.34	-241.34
2615.00	51.65	73.99	1.70	0.46	0.46	-241.90	-241.90
2620.00	51.67	74.02	1.70	0.46	0.46	-242.47	-242.47
2625.00	51.70	74.05	1.69	0.46	0.46	-243.04	-243.04
2630.00	51.73	74.09	1.69	0.46	0.46	-243.61	-243.61
2635.00	51.75	74.12	1.69	0.46	0.46	-244.17	-244.17
2640.00	51.78	74.15	1.69	0.45	0.45	-244.74	-244.74
2645.00	51.80	74.19	1.68	0.45	0.45	-245.31	-245.31
2650.00	51.83	74.22	1.68	0.45	0.45	-245.88	-245.88
2655.00	51.86	74.25	1.68	0.45	0.45	-246.45	-246.45
2660.00	51.88	74.28	1.68	0.45	0.45	-247.02	-247.02
2665.00	51.91	74.32	1.67	0.45	0.45	-247.58	-247.58
2670.00	51.94	74.35	1.67	0.45	0.45	-248.15	-248.15
2675.00	51.96	74.38	1.67	0.45	0.45	-248.72	-248.72
2680.00	51.99	74.41	1.67	0.45	0.45	-249.29	-249.29
2685.00	52.01	74.45	1.66	0.45	0.45	-249.86	-249.86
2690.00	52.04	74.48	1.66	0.45	0.45	-250.43	-250.43
2695.00	52.07	74.51	1.66	0.45	0.45	-250.99	-250.99
2700.00	52.09	74.54	1.66	0.45	0.45	-251.56	-251.56

2705.00	52.12	74.58	1.65	0.45	0.45	-252.13	-252.13
2710.00	52.14	74.61	1.65	0.45	0.45	-252.70	-252.70
2715.00	52.17	74.64	1.65	0.45	0.45	-253.27	-253.27
2720.00	52.19	74.67	1.65	0.44	0.44	-253.84	-253.84
2725.00	52.22	74.70	1.64	0.44	0.44	-254.41	-254.41
2730.00	52.25	74.74	1.64	0.44	0.44	-254.98	-254.98
2735.00	52.27	74.77	1.64	0.44	0.44	-255.54	-255.54
2740.00	52.30	74.80	1.64	0.44	0.44	-256.11	-256.11
2745.00	52.32	74.83	1.64	0.44	0.44	-256.68	-256.68
2750.00	52.35	74.86	1.63	0.44	0.44	-257.25	-257.25
2755.00	52.37	74.90	1.63	0.44	0.44	-257.82	-257.82
2760.00	52.40	74.93	1.63	0.44	0.44	-258.39	-258.39
2765.00	52.42	74.96	1.63	0.44	0.44	-258.96	-258.96
2770.00	52.45	74.99	1.62	0.44	0.44	-259.53	-259.53
2775.00	52.48	75.02	1.62	0.44	0.44	-260.10	-260.10
2780.00	52.50	75.05	1.62	0.44	0.44	-260.67	-260.67
2785.00	52.53	75.09	1.62	0.44	0.44	-261.24	-261.24
2790.00	52.55	75.12	1.62	0.44	0.44	-261.81	-261.81
2795.00	52.58	75.15	1.61	0.44	0.44	-262.38	-262.38
2800.00	52.60	75.18	1.61	0.43	0.43	-262.94	-262.94
2805.00	52.63	75.21	1.61	0.43	0.43	-263.51	-263.51
2810.00	52.65	75.24	1.61	0.43	0.43	-264.08	-264.08
2815.00	52.68	75.27	1.60	0.43	0.43	-264.65	-264.65
2820.00	52.70	75.30	1.60	0.43	0.43	-265.22	-265.22
2825.00	52.73	75.34	1.60	0.43	0.43	-265.79	-265.79
2830.00	52.75	75.37	1.60	0.43	0.43	-266.36	-266.36
2835.00	52.78	75.40	1.60	0.43	0.43	-266.93	-266.93
2840.00	52.80	75.43	1.59	0.43	0.43	-267.50	-267.50
2845.00	52.83	75.46	1.59	0.43	0.43	-268.07	-268.07
2850.00	52.85	75.49	1.59	0.43	0.43	-268.64	-268.64
2855.00	52.88	75.52	1.59	0.43	0.43	-269.21	-269.21
2860.00	52.90	75.55	1.59	0.43	0.43	-269.78	-269.78
2865.00	52.93	75.58	1.58	0.43	0.43	-270.35	-270.35
2870.00	52.95	75.61	1.58	0.43	0.43	-270.92	-270.92
2875.00	52.98	75.64	1.58	0.43	0.43	-271.49	-271.49
2880.00	53.00	75.68	1.58	0.43	0.43	-272.06	-272.06

Notes to User

Only values shown blue to be edited

Sheet only for england and wales

In M5-D	J0	J1	J2	Cr	In (MT-D/M5-D)	MT-D/M5-D
2.21	0.1699	0.0028	0.000114	0.205014	0.389773	1.476645
2.39	0.1699	0.0028	0.000114	0.214282	0.407393	1.502894
2.51	0.1644	0.005831	-0.00013	0.215837	0.410349	1.507344
2.60	0.1644	0.005831	-0.00013	0.218417	0.415254	1.514755
2.66	0.1644	0.005831	-0.00013	0.220337	0.418905	1.520296
2.71	0.1644	0.005831	-0.00013	0.22182	0.421723	1.524586
2.76	0.1644	0.005831	-0.00013	0.222992	0.423951	1.527987
2.80	0.1644	0.005831	-0.00013	0.223934	0.425743	1.530728
2.83	0.1644	0.005831	-0.00013	0.224701	0.427201	1.53296
2.86	0.1644	0.005831	-0.00013	0.225329	0.428394	1.534791
2.89	0.1644	0.005831	-0.00013	0.225845	0.429376	1.536298
2.92	0.1644	0.005831	-0.00013	0.226269	0.430183	1.537538
2.94	0.1644	0.005831	-0.00013	0.226617	0.430845	1.538556
2.96	0.1644	0.005831	-0.00013	0.226901	0.431384	1.539387
2.98	0.1644	0.005831	-0.00013	0.22713	0.431819	1.540056
3.00	0.1644	0.005831	-0.00013	0.227311	0.432164	1.540587
3.01	0.1644	0.005831	-0.00013	0.227451	0.43243	1.540998
3.03	0.1644	0.005831	-0.00013	0.227556	0.432628	1.541303
3.05	0.1644	0.005831	-0.00013	0.227628	0.432765	1.541515
3.06	0.1644	0.005831	-0.00013	0.227672	0.432849	1.541644
3.07	0.1644	0.005831	-0.00013	0.227691	0.432885	1.5417
3.09	0.1644	0.005831	-0.00013	0.227687	0.432879	1.541689
3.10	0.1644	0.005831	-0.00013	0.227664	0.432834	1.54162
3.11	0.1644	0.005831	-0.00013	0.227622	0.432754	1.541496
3.12	0.1644	0.005831	-0.00013	0.227563	0.432642	1.541325
3.13	0.1644	0.005831	-0.00013	0.227489	0.432502	1.541109
3.14	0.1644	0.005831	-0.00013	0.227402	0.432336	1.540852
3.15	0.1644	0.005831	-0.00013	0.227302	0.432145	1.540559
3.16	0.1644	0.005831	-0.00013	0.22719	0.431933	1.540232
3.17	0.1644	0.005831	-0.00013	0.227068	0.431701	1.539874
3.18	0.1644	0.005831	-0.00013	0.226936	0.43145	1.539488
3.19	0.1644	0.005831	-0.00013	0.226795	0.431182	1.539075
3.20	0.1644	0.005831	-0.00013	0.226645	0.430898	1.538638
3.21	0.1644	0.005831	-0.00013	0.226488	0.430599	1.538178
3.21	0.1644	0.005831	-0.00013	0.226324	0.430286	1.537698
3.22	0.1644	0.005831	-0.00013	0.226153	0.429961	1.537198
3.23	0.1644	0.005831	-0.00013	0.225975	0.429624	1.53668
3.24	0.1644	0.005831	-0.00013	0.225792	0.429276	1.536145
3.24	0.1644	0.005831	-0.00013	0.225604	0.428917	1.535594

3.25	0.1644	0.005831	-0.00013	0.22541	0.428549	1.535029
3.26	0.1644	0.005831	-0.00013	0.225212	0.428172	1.53445
3.26	0.1644	0.005831	-0.00013	0.225009	0.427787	1.533859
3.27	0.1644	0.005831	-0.00013	0.224802	0.427393	1.533255
3.28	0.1644	0.005831	-0.00013	0.224591	0.426992	1.53264
3.28	0.1644	0.005831	-0.00013	0.224377	0.426584	1.532015
3.29	0.1644	0.005831	-0.00013	0.224158	0.42617	1.53138
3.30	0.1644	0.005831	-0.00013	0.223937	0.425749	1.530736
3.30	0.1644	0.005831	-0.00013	0.223713	0.425322	1.530083
3.31	0.1644	0.005831	-0.00013	0.223485	0.42489	1.529422
3.31	0.1644	0.005831	-0.00013	0.223255	0.424453	1.528754
3.32	0.1644	0.005831	-0.00013	0.223023	0.424011	1.528078
3.32	0.1644	0.005831	-0.00013	0.222788	0.423564	1.527395
3.33	0.1644	0.005831	-0.00013	0.222551	0.423112	1.526706
3.33	0.1644	0.005831	-0.00013	0.222311	0.422657	1.526011
3.34	0.1644	0.005831	-0.00013	0.222069	0.422198	1.52531
3.34	0.1644	0.005831	-0.00013	0.221826	0.421735	1.524604
3.35	0.1644	0.005831	-0.00013	0.221581	0.421269	1.523894
3.35	0.1644	0.005831	-0.00013	0.221334	0.420799	1.523178
3.36	0.1644	0.005831	-0.00013	0.221085	0.420326	1.522458
3.36	0.1644	0.005831	-0.00013	0.220835	0.41985	1.521734
3.37	0.1644	0.005831	-0.00013	0.220583	0.419372	1.521005
3.37	0.1644	0.005831	-0.00013	0.22033	0.41889	1.520273
3.38	0.1644	0.005831	-0.00013	0.220075	0.418406	1.519538
3.38	0.1644	0.005831	-0.00013	0.219819	0.41792	1.518799
3.38	0.1644	0.005831	-0.00013	0.219563	0.417432	1.518058
3.39	0.1644	0.005831	-0.00013	0.219304	0.416941	1.517313
3.39	0.1644	0.005831	-0.00013	0.219045	0.416448	1.516566
3.40	0.1644	0.005831	-0.00013	0.218785	0.415954	1.515816
3.40	0.1644	0.005831	-0.00013	0.218524	0.415457	1.515064
3.40	0.1644	0.005831	-0.00013	0.218262	0.414959	1.514309
3.41	0.1644	0.005831	-0.00013	0.217999	0.414459	1.513552
3.41	0.1644	0.005831	-0.00013	0.217735	0.413958	1.512794
3.42	0.1644	0.005831	-0.00013	0.217471	0.413455	1.512033
3.42	0.1644	0.005831	-0.00013	0.217206	0.412951	1.511271
3.42	0.1644	0.005831	-0.00013	0.21694	0.412445	1.510507
3.43	0.1644	0.005831	-0.00013	0.216673	0.411939	1.509742
3.43	0.1644	0.005831	-0.00013	0.216406	0.411431	1.508975
3.43	0.1644	0.005831	-0.00013	0.216138	0.410922	1.508207
3.44	0.2644	-0.00162	3.15E-06	0.217046	0.412648	1.510812
3.44	0.2644	-0.00162	3.15E-06	0.216895	0.41236	1.510378
3.44	0.2644	-0.00162	3.15E-06	0.216745	0.412076	1.509948
3.45	0.2644	-0.00162	3.15E-06	0.216597	0.411794	1.509523
3.45	0.2644	-0.00162	3.15E-06	0.21645	0.411514	1.509102
3.45	0.2644	-0.00162	3.15E-06	0.216305	0.411238	1.508684
3.46	0.2644	-0.00162	3.15E-06	0.216161	0.410964	1.508271
3.46	0.2644	-0.00162	3.15E-06	0.216018	0.410692	1.507861
3.46	0.2644	-0.00162	3.15E-06	0.215876	0.410423	1.507456
3.47	0.2644	-0.00162	3.15E-06	0.215736	0.410157	1.507054
3.47	0.2644	-0.00162	3.15E-06	0.215597	0.409892	1.506655

3.47	0.2644	-0.00162	3.15E-06	0.215459	0.40963	1.506261
3.48	0.2644	-0.00162	3.15E-06	0.215322	0.40937	1.505869
3.48	0.2644	-0.00162	3.15E-06	0.215187	0.409113	1.505482
3.48	0.2644	-0.00162	3.15E-06	0.215053	0.408858	1.505097
3.48	0.2644	-0.00162	3.15E-06	0.214919	0.408604	1.504716
3.49	0.2644	-0.00162	3.15E-06	0.214787	0.408353	1.504338
3.49	0.2644	-0.00162	3.15E-06	0.214656	0.408104	1.503964
3.49	0.2644	-0.00162	3.15E-06	0.214526	0.407857	1.503592
3.50	0.2644	-0.00162	3.15E-06	0.214398	0.407612	1.503224
3.50	0.2644	-0.00162	3.15E-06	0.21427	0.407369	1.502858
3.50	0.2644	-0.00162	3.15E-06	0.214143	0.407128	1.502496
3.50	0.2644	-0.00162	3.15E-06	0.214017	0.406888	1.502136
3.51	0.2644	-0.00162	3.15E-06	0.213892	0.406651	1.50178
3.51	0.2644	-0.00162	3.15E-06	0.213768	0.406415	1.501426
3.51	0.2644	-0.00162	3.15E-06	0.213645	0.406181	1.501074
3.51	0.2644	-0.00162	3.15E-06	0.213523	0.405949	1.500726
3.52	0.2644	-0.00162	3.15E-06	0.213402	0.405719	1.50038
3.52	0.2644	-0.00162	3.15E-06	0.213281	0.40549	1.500037
3.52	0.2644	-0.00162	3.15E-06	0.213162	0.405263	1.499696
3.52	0.2644	-0.00162	3.15E-06	0.213043	0.405037	1.499358
3.53	0.2644	-0.00162	3.15E-06	0.212925	0.404813	1.499023
3.53	0.2644	-0.00162	3.15E-06	0.212809	0.404591	1.49869
3.53	0.2644	-0.00162	3.15E-06	0.212692	0.40437	1.498359
3.53	0.2644	-0.00162	3.15E-06	0.212577	0.404151	1.498031
3.54	0.2644	-0.00162	3.15E-06	0.212463	0.403934	1.497704
3.54	0.2644	-0.00162	3.15E-06	0.212349	0.403717	1.497381
3.54	0.2644	-0.00162	3.15E-06	0.212236	0.403503	1.497059
3.54	0.2644	-0.00162	3.15E-06	0.212124	0.403289	1.49674
3.55	0.2644	-0.00162	3.15E-06	0.212013	0.403078	1.496423
3.55	0.2644	-0.00162	3.15E-06	0.211902	0.402867	1.496108
3.55	0.2644	-0.00162	3.15E-06	0.211792	0.402658	1.495795
3.55	0.2644	-0.00162	3.15E-06	0.211683	0.40245	1.495485
3.55	0.2644	-0.00162	3.15E-06	0.211574	0.402244	1.495176
3.56	0.2644	-0.00162	3.15E-06	0.211466	0.402039	1.49487
3.56	0.2644	-0.00162	3.15E-06	0.211359	0.401835	1.494565
3.56	0.2644	-0.00162	3.15E-06	0.211253	0.401633	1.494262
3.56	0.2644	-0.00162	3.15E-06	0.211147	0.401432	1.493962
3.57	0.2644	-0.00162	3.15E-06	0.211042	0.401232	1.493663
3.57	0.2644	-0.00162	3.15E-06	0.210937	0.401033	1.493366
3.57	0.2644	-0.00162	3.15E-06	0.210833	0.400835	1.493071
3.57	0.2644	-0.00162	3.15E-06	0.21073	0.400639	1.492778
3.57	0.2644	-0.00162	3.15E-06	0.210627	0.400444	1.492487
3.58	0.2644	-0.00162	3.15E-06	0.210525	0.40025	1.492197
3.58	0.2644	-0.00162	3.15E-06	0.210424	0.400057	1.49191
3.58	0.2644	-0.00162	3.15E-06	0.210323	0.399865	1.491624
3.58	0.2644	-0.00162	3.15E-06	0.210223	0.399675	1.491339
3.58	0.2644	-0.00162	3.15E-06	0.210123	0.399485	1.491057
3.59	0.2644	-0.00162	3.15E-06	0.210024	0.399297	1.490776
3.59	0.2644	-0.00162	3.15E-06	0.209925	0.399109	1.490497
3.59	0.2644	-0.00162	3.15E-06	0.209827	0.398923	1.490219

3.59	0.2644	-0.00162	3.15E-06	0.20973	0.398738	1.489943
3.59	0.2644	-0.00162	3.15E-06	0.209633	0.398554	1.489669
3.60	0.2644	-0.00162	3.15E-06	0.209537	0.398371	1.489396
3.60	0.2644	-0.00162	3.15E-06	0.209441	0.398188	1.489125
3.60	0.2644	-0.00162	3.15E-06	0.209346	0.398007	1.488855
3.60	0.2644	-0.00162	3.15E-06	0.209251	0.397827	1.488587
3.60	0.2644	-0.00162	3.15E-06	0.209157	0.397648	1.48832
3.60	0.2644	-0.00162	3.15E-06	0.209063	0.39747	1.488054
3.61	0.2644	-0.00162	3.15E-06	0.208969	0.397292	1.487791
3.61	0.2644	-0.00162	3.15E-06	0.208877	0.397116	1.487528
3.61	0.2644	-0.00162	3.15E-06	0.208784	0.39694	1.487267
3.61	0.2644	-0.00162	3.15E-06	0.208693	0.396766	1.487008
3.61	0.2644	-0.00162	3.15E-06	0.208601	0.396592	1.48675
3.62	0.2644	-0.00162	3.15E-06	0.20851	0.396419	1.486493
3.62	0.2644	-0.00162	3.15E-06	0.20842	0.396248	1.486237
3.62	0.2644	-0.00162	3.15E-06	0.20833	0.396077	1.485983
3.62	0.2644	-0.00162	3.15E-06	0.208241	0.395907	1.48573
3.62	0.2644	-0.00162	3.15E-06	0.208152	0.395737	1.485479
3.62	0.2644	-0.00162	3.15E-06	0.208063	0.395569	1.485229
3.63	0.2644	-0.00162	3.15E-06	0.207975	0.395401	1.48498
3.63	0.2644	-0.00162	3.15E-06	0.207887	0.395234	1.484732
3.63	0.2644	-0.00162	3.15E-06	0.2078	0.395068	1.484486
3.63	0.2644	-0.00162	3.15E-06	0.207713	0.394903	1.484241
3.63	0.2644	-0.00162	3.15E-06	0.207627	0.394739	1.483997
3.63	0.2644	-0.00162	3.15E-06	0.20754	0.394575	1.483754
3.64	0.2644	-0.00162	3.15E-06	0.207455	0.394413	1.483513
3.64	0.2644	-0.00162	3.15E-06	0.20737	0.394251	1.483272
3.64	0.2644	-0.00162	3.15E-06	0.207285	0.394089	1.483033
3.64	0.2644	-0.00162	3.15E-06	0.2072	0.393929	1.482795
3.64	0.2644	-0.00162	3.15E-06	0.207116	0.393769	1.482558
3.64	0.2644	-0.00162	3.15E-06	0.207033	0.39361	1.482323
3.65	0.2644	-0.00162	3.15E-06	0.20695	0.393452	1.482088
3.65	0.2644	-0.00162	3.15E-06	0.206867	0.393294	1.481854
3.65	0.2644	-0.00162	3.15E-06	0.206784	0.393137	1.481622
3.65	0.2644	-0.00162	3.15E-06	0.206702	0.392981	1.481391
3.65	0.2644	-0.00162	3.15E-06	0.20662	0.392826	1.481161
3.65	0.2644	-0.00162	3.15E-06	0.206539	0.392671	1.480931
3.65	0.2644	-0.00162	3.15E-06	0.206458	0.392517	1.480703
3.66	0.2644	-0.00162	3.15E-06	0.206377	0.392364	1.480476
3.66	0.2644	-0.00162	3.15E-06	0.206297	0.392211	1.48025
3.66	0.2644	-0.00162	3.15E-06	0.206217	0.392059	1.480025
3.66	0.2644	-0.00162	3.15E-06	0.206137	0.391908	1.479801
3.66	0.2644	-0.00162	3.15E-06	0.206058	0.391757	1.479578
3.66	0.2644	-0.00162	3.15E-06	0.205979	0.391607	1.479356
3.66	0.2644	-0.00162	3.15E-06	0.205901	0.391458	1.479135
3.67	0.2644	-0.00162	3.15E-06	0.205822	0.391309	1.478915
3.67	0.2644	-0.00162	3.15E-06	0.205744	0.391161	1.478696
3.67	0.2644	-0.00162	3.15E-06	0.205667	0.391013	1.478478
3.67	0.2644	-0.00162	3.15E-06	0.20559	0.390866	1.478261
3.67	0.2644	-0.00162	3.15E-06	0.205513	0.39072	1.478045

3.67	0.2644	-0.00162	3.15E-06	0.205436	0.390574	1.47783
3.67	0.2644	-0.00162	3.15E-06	0.20536	0.390429	1.477615
3.68	0.2644	-0.00162	3.15E-06	0.205284	0.390285	1.477402
3.68	0.2644	-0.00162	3.15E-06	0.205208	0.390141	1.477189
3.68	0.2644	-0.00162	3.15E-06	0.205133	0.389998	1.476977
3.68	0.2644	-0.00162	3.15E-06	0.205058	0.389855	1.476767
3.68	0.2644	-0.00162	3.15E-06	0.204983	0.389713	1.476557
3.68	0.2644	-0.00162	3.15E-06	0.204908	0.389571	1.476348
3.68	0.2644	-0.00162	3.15E-06	0.204834	0.38943	1.47614
3.69	0.2644	-0.00162	3.15E-06	0.20476	0.38929	1.475932
3.69	0.2644	-0.00162	3.15E-06	0.204687	0.38915	1.475726
3.69	0.2644	-0.00162	3.15E-06	0.204613	0.389011	1.47552
3.69	0.2644	-0.00162	3.15E-06	0.20454	0.388872	1.475315
3.69	0.2644	-0.00162	3.15E-06	0.204468	0.388734	1.475111
3.69	0.2644	-0.00162	3.15E-06	0.204395	0.388596	1.474908
3.69	0.2644	-0.00162	3.15E-06	0.204323	0.388459	1.474706
3.70	0.2644	-0.00162	3.15E-06	0.204251	0.388322	1.474504
3.70	0.2644	-0.00162	3.15E-06	0.20418	0.388186	1.474304
3.70	0.2644	-0.00162	3.15E-06	0.204108	0.38805	1.474104
3.70	0.2644	-0.00162	3.15E-06	0.204037	0.387915	1.473905
3.70	0.2644	-0.00162	3.15E-06	0.203966	0.38778	1.473706
3.70	0.2644	-0.00162	3.15E-06	0.203896	0.387646	1.473509
3.70	0.2644	-0.00162	3.15E-06	0.203826	0.387513	1.473312
3.70	0.2644	-0.00162	3.15E-06	0.203756	0.38738	1.473116
3.71	0.2644	-0.00162	3.15E-06	0.203686	0.387247	1.47292
3.71	0.2644	-0.00162	3.15E-06	0.203616	0.387115	1.472726
3.71	0.2644	-0.00162	3.15E-06	0.203547	0.386983	1.472532
3.71	0.2644	-0.00162	3.15E-06	0.203478	0.386852	1.472339
3.71	0.2644	-0.00162	3.15E-06	0.203409	0.386721	1.472146
3.71	0.2644	-0.00162	3.15E-06	0.203341	0.386591	1.471954
3.71	0.2644	-0.00162	3.15E-06	0.203273	0.386461	1.471763
3.71	0.2644	-0.00162	3.15E-06	0.203205	0.386332	1.471573
3.72	0.2644	-0.00162	3.15E-06	0.203137	0.386203	1.471384
3.72	0.2644	-0.00162	3.15E-06	0.203069	0.386075	1.471195
3.72	0.2644	-0.00162	3.15E-06	0.203002	0.385947	1.471006
3.72	0.2644	-0.00162	3.15E-06	0.202935	0.385819	1.470819
3.72	0.2644	-0.00162	3.15E-06	0.202868	0.385692	1.470632
3.72	0.2644	-0.00162	3.15E-06	0.202802	0.385566	1.470446
3.72	0.2644	-0.00162	3.15E-06	0.202735	0.38544	1.47026
3.72	0.2644	-0.00162	3.15E-06	0.202669	0.385314	1.470076
3.72	0.2644	-0.00162	3.15E-06	0.202603	0.385189	1.469891
3.73	0.2644	-0.00162	3.15E-06	0.202537	0.385064	1.469708
3.73	0.2644	-0.00162	3.15E-06	0.202472	0.384939	1.469525
3.73	0.2644	-0.00162	3.15E-06	0.202407	0.384815	1.469343
3.73	0.2644	-0.00162	3.15E-06	0.202342	0.384692	1.469161
3.73	0.2644	-0.00162	3.15E-06	0.202277	0.384568	1.46898
3.73	0.2644	-0.00162	3.15E-06	0.202212	0.384446	1.4688
3.73	0.2644	-0.00162	3.15E-06	0.202148	0.384323	1.46862
3.73	0.2644	-0.00162	3.15E-06	0.202084	0.384201	1.468441
3.74	0.2644	-0.00162	3.15E-06	0.20202	0.38408	1.468263

3.74	0.2644	-0.00162	3.15E-06	0.201956	0.383959	1.468085
3.74	0.2644	-0.00162	3.15E-06	0.201893	0.383838	1.467908
3.74	0.2644	-0.00162	3.15E-06	0.201829	0.383718	1.467731
3.74	0.2644	-0.00162	3.15E-06	0.201766	0.383598	1.467555
3.74	0.2644	-0.00162	3.15E-06	0.201703	0.383478	1.467379
3.74	0.2644	-0.00162	3.15E-06	0.201641	0.383359	1.467204
3.74	0.2644	-0.00162	3.15E-06	0.201578	0.38324	1.46703
3.74	0.2644	-0.00162	3.15E-06	0.201516	0.383122	1.466856
3.75	0.2644	-0.00162	3.15E-06	0.201454	0.383004	1.466683
3.75	0.2644	-0.00162	3.15E-06	0.201392	0.382886	1.466511
3.75	0.2644	-0.00162	3.15E-06	0.20133	0.382769	1.466339
3.75	0.2644	-0.00162	3.15E-06	0.201269	0.382652	1.466167
3.75	0.2644	-0.00162	3.15E-06	0.201207	0.382535	1.465996
3.75	0.2644	-0.00162	3.15E-06	0.201146	0.382419	1.465826
3.75	0.2644	-0.00162	3.15E-06	0.201085	0.382303	1.465656
3.75	0.2644	-0.00162	3.15E-06	0.201025	0.382188	1.465487
3.75	0.2644	-0.00162	3.15E-06	0.200964	0.382073	1.465318
3.75	0.2644	-0.00162	3.15E-06	0.200904	0.381958	1.46515
3.76	0.2644	-0.00162	3.15E-06	0.200844	0.381843	1.464983
3.76	0.2644	-0.00162	3.15E-06	0.200784	0.381729	1.464815
3.76	0.2644	-0.00162	3.15E-06	0.200724	0.381616	1.464649
3.76	0.2644	-0.00162	3.15E-06	0.200664	0.381502	1.464483
3.76	0.2644	-0.00162	3.15E-06	0.200605	0.381389	1.464317
3.76	0.2644	-0.00162	3.15E-06	0.200545	0.381276	1.464152
3.76	0.2644	-0.00162	3.15E-06	0.200486	0.381164	1.463988
3.76	0.2644	-0.00162	3.15E-06	0.200427	0.381052	1.463824
3.76	0.2644	-0.00162	3.15E-06	0.200369	0.38094	1.46366
3.76	0.2644	-0.00162	3.15E-06	0.20031	0.380829	1.463497
3.77	0.2644	-0.00162	3.15E-06	0.200252	0.380718	1.463335
3.77	0.2644	-0.00162	3.15E-06	0.200194	0.380607	1.463173
3.77	0.2644	-0.00162	3.15E-06	0.200135	0.380497	1.463012
3.77	0.2644	-0.00162	3.15E-06	0.200078	0.380387	1.462851
3.77	0.2644	-0.00162	3.15E-06	0.20002	0.380277	1.46269
3.77	0.2644	-0.00162	3.15E-06	0.199962	0.380168	1.46253
3.77	0.2644	-0.00162	3.15E-06	0.199905	0.380059	1.46237
3.77	0.2644	-0.00162	3.15E-06	0.199848	0.37995	1.462211
3.77	0.2644	-0.00162	3.15E-06	0.199791	0.379842	1.462053
3.77	0.2644	-0.00162	3.15E-06	0.199734	0.379733	1.461895
3.78	0.2644	-0.00162	3.15E-06	0.199677	0.379626	1.461737
3.78	0.2644	-0.00162	3.15E-06	0.19962	0.379518	1.46158
3.78	0.2644	-0.00162	3.15E-06	0.199564	0.379411	1.461423
3.78	0.2644	-0.00162	3.15E-06	0.199508	0.379304	1.461267
3.78	0.2644	-0.00162	3.15E-06	0.199452	0.379197	1.461111
3.78	0.2644	-0.00162	3.15E-06	0.199396	0.379091	1.460956
3.78	0.2644	-0.00162	3.15E-06	0.19934	0.378985	1.460801
3.78	0.2644	-0.00162	3.15E-06	0.199284	0.378879	1.460646
3.78	0.2644	-0.00162	3.15E-06	0.199229	0.378774	1.460492
3.78	0.2644	-0.00162	3.15E-06	0.199174	0.378668	1.460339
3.79	0.2644	-0.00162	3.15E-06	0.199119	0.378564	1.460186
3.79	0.2644	-0.00162	3.15E-06	0.199064	0.378459	1.460033

3.79	0.2644	-0.00162	3.15E-06	0.199009	0.378355	1.459881
3.79	0.2644	-0.00162	3.15E-06	0.198954	0.378251	1.459729
3.79	0.2644	-0.00162	3.15E-06	0.198899	0.378147	1.459577
3.79	0.2644	-0.00162	3.15E-06	0.198845	0.378044	1.459426
3.79	0.2644	-0.00162	3.15E-06	0.198791	0.37794	1.459276
3.79	0.2644	-0.00162	3.15E-06	0.198737	0.377837	1.459126
3.79	0.2644	-0.00162	3.15E-06	0.198683	0.377735	1.458976
3.79	0.2644	-0.00162	3.15E-06	0.198629	0.377633	1.458827
3.79	0.2644	-0.00162	3.15E-06	0.198575	0.37753	1.458678
3.80	0.2644	-0.00162	3.15E-06	0.198522	0.377429	1.458529
3.80	0.2644	-0.00162	3.15E-06	0.198468	0.377327	1.458381
3.80	0.2644	-0.00162	3.15E-06	0.198415	0.377226	1.458234
3.80	0.2644	-0.00162	3.15E-06	0.198362	0.377125	1.458086
3.80	0.2644	-0.00162	3.15E-06	0.198309	0.377024	1.45794
3.80	0.2644	-0.00162	3.15E-06	0.198256	0.376924	1.457793
3.80	0.2644	-0.00162	3.15E-06	0.198203	0.376823	1.457647
3.80	0.2644	-0.00162	3.15E-06	0.198151	0.376724	1.457501
3.80	0.2644	-0.00162	3.15E-06	0.198098	0.376624	1.457356
3.80	0.2644	-0.00162	3.15E-06	0.198046	0.376524	1.457211
3.80	0.2644	-0.00162	3.15E-06	0.197994	0.376425	1.457067
3.80	0.2644	-0.00162	3.15E-06	0.197942	0.376326	1.456922
3.81	0.2644	-0.00162	3.15E-06	0.19789	0.376228	1.456779
3.81	0.2644	-0.00162	3.15E-06	0.197838	0.376129	1.456635
3.81	0.2644	-0.00162	3.15E-06	0.197786	0.376031	1.456492
3.81	0.2644	-0.00162	3.15E-06	0.197735	0.375933	1.45635
3.81	0.2644	-0.00162	3.15E-06	0.197684	0.375835	1.456208
3.81	0.2644	-0.00162	3.15E-06	0.197632	0.375738	1.456066
3.81	0.2644	-0.00162	3.15E-06	0.197581	0.375641	1.455924
3.81	0.2644	-0.00162	3.15E-06	0.19753	0.375544	1.455783
3.81	0.2644	-0.00162	3.15E-06	0.197479	0.375447	1.455642
3.81	0.2644	-0.00162	3.15E-06	0.197429	0.375351	1.455502
3.81	0.2644	-0.00162	3.15E-06	0.197378	0.375255	1.455362
3.82	0.2644	-0.00162	3.15E-06	0.197328	0.375159	1.455222
3.82	0.2644	-0.00162	3.15E-06	0.197277	0.375063	1.455083
3.82	0.2644	-0.00162	3.15E-06	0.197227	0.374967	1.454944
3.82	0.2644	-0.00162	3.15E-06	0.197177	0.374872	1.454805
3.82	0.2644	-0.00162	3.15E-06	0.197127	0.374777	1.454667
3.82	0.2644	-0.00162	3.15E-06	0.197077	0.374682	1.454529
3.82	0.2644	-0.00162	3.15E-06	0.197027	0.374588	1.454392
3.82	0.2644	-0.00162	3.15E-06	0.196978	0.374493	1.454254
3.82	0.2644	-0.00162	3.15E-06	0.196928	0.374399	1.454117
3.82	0.2644	-0.00162	3.15E-06	0.196879	0.374305	1.453981
3.82	0.2644	-0.00162	3.15E-06	0.196829	0.374212	1.453845
3.82	0.2644	-0.00162	3.15E-06	0.19678	0.374118	1.453709
3.82	0.2644	-0.00162	3.15E-06	0.196731	0.374025	1.453573
3.83	0.2644	-0.00162	3.15E-06	0.196682	0.373932	1.453438
3.83	0.2644	-0.00162	3.15E-06	0.196633	0.373839	1.453303
3.83	0.2644	-0.00162	3.15E-06	0.196585	0.373746	1.453169
3.83	0.2644	-0.00162	3.15E-06	0.196536	0.373654	1.453035
3.83	0.2644	-0.00162	3.15E-06	0.196488	0.373562	1.452901

3.83	0.2644	-0.00162	3.15E-06	0.196439	0.37347	1.452767
3.83	0.2644	-0.00162	3.15E-06	0.196391	0.373378	1.452634
3.83	0.2644	-0.00162	3.15E-06	0.196343	0.373287	1.452501
3.83	0.2644	-0.00162	3.15E-06	0.196295	0.373196	1.452368
3.83	0.2644	-0.00162	3.15E-06	0.196247	0.373105	1.452236
3.83	0.2644	-0.00162	3.15E-06	0.196199	0.373014	1.452104
3.83	0.2644	-0.00162	3.15E-06	0.196152	0.372923	1.451973
3.84	0.2644	-0.00162	3.15E-06	0.196104	0.372833	1.451841
3.84	0.2644	-0.00162	3.15E-06	0.196057	0.372742	1.45171
3.84	0.2644	-0.00162	3.15E-06	0.196009	0.372652	1.45158
3.84	0.2644	-0.00162	3.15E-06	0.195962	0.372562	1.451449
3.84	0.2644	-0.00162	3.15E-06	0.195915	0.372473	1.451319
3.84	0.2644	-0.00162	3.15E-06	0.195868	0.372383	1.451189
3.84	0.2644	-0.00162	3.15E-06	0.195821	0.372294	1.45106
3.84	0.2644	-0.00162	3.15E-06	0.195774	0.372205	1.450931
3.84	0.2644	-0.00162	3.15E-06	0.195727	0.372116	1.450802
3.84	0.2644	-0.00162	3.15E-06	0.195681	0.372028	1.450673
3.84	0.2644	-0.00162	3.15E-06	0.195634	0.371939	1.450545
3.84	0.2644	-0.00162	3.15E-06	0.195588	0.371851	1.450417
3.84	0.2644	-0.00162	3.15E-06	0.195542	0.371763	1.450289
3.84	0.2644	-0.00162	3.15E-06	0.195495	0.371675	1.450162
3.85	0.2644	-0.00162	3.15E-06	0.195449	0.371588	1.450035
3.85	0.2644	-0.00162	3.15E-06	0.195403	0.3715	1.449908
3.85	0.2644	-0.00162	3.15E-06	0.195357	0.371413	1.449782
3.85	0.2644	-0.00162	3.15E-06	0.195312	0.371326	1.449655
3.85	0.2644	-0.00162	3.15E-06	0.195266	0.371239	1.449529
3.85	0.2644	-0.00162	3.15E-06	0.19522	0.371152	1.449404
3.85	0.2644	-0.00162	3.15E-06	0.195175	0.371066	1.449278
3.85	0.2644	-0.00162	3.15E-06	0.195129	0.370979	1.449153
3.85	0.2644	-0.00162	3.15E-06	0.195084	0.370893	1.449029
3.85	0.2644	-0.00162	3.15E-06	0.195039	0.370807	1.448904
3.85	0.2644	-0.00162	3.15E-06	0.194994	0.370722	1.44878
3.85	0.2644	-0.00162	3.15E-06	0.194949	0.370636	1.448656
3.85	0.2644	-0.00162	3.15E-06	0.194904	0.370551	1.448532
3.86	0.2644	-0.00162	3.15E-06	0.194859	0.370465	1.448409
3.86	0.2644	-0.00162	3.15E-06	0.194814	0.37038	1.448286
3.86	0.2644	-0.00162	3.15E-06	0.19477	0.370296	1.448163
3.86	0.2644	-0.00162	3.15E-06	0.194725	0.370211	1.44804
3.86	0.2644	-0.00162	3.15E-06	0.194681	0.370126	1.447918
3.86	0.2644	-0.00162	3.15E-06	0.194636	0.370042	1.447796
3.86	0.2644	-0.00162	3.15E-06	0.194592	0.369958	1.447674
3.86	0.2644	-0.00162	3.15E-06	0.194548	0.369874	1.447552
3.86	0.2644	-0.00162	3.15E-06	0.194504	0.36979	1.447431
3.86	0.2644	-0.00162	3.15E-06	0.19446	0.369707	1.44731
3.86	0.2644	-0.00162	3.15E-06	0.194416	0.369623	1.447189
3.86	0.2644	-0.00162	3.15E-06	0.194372	0.36954	1.447069
3.86	0.2644	-0.00162	3.15E-06	0.194329	0.369457	1.446949
3.86	0.2644	-0.00162	3.15E-06	0.194285	0.369374	1.446829
3.86	0.2644	-0.00162	3.15E-06	0.194241	0.369291	1.446709
3.87	0.2644	-0.00162	3.15E-06	0.194198	0.369209	1.446589

3.87	0.2644	-0.00162	3.15E-06	0.194155	0.369126	1.44647
3.87	0.2644	-0.00162	3.15E-06	0.194111	0.369044	1.446351
3.87	0.2644	-0.00162	3.15E-06	0.194068	0.368962	1.446232
3.87	0.2644	-0.00162	3.15E-06	0.194025	0.36888	1.446114
3.87	0.2644	-0.00162	3.15E-06	0.193982	0.368798	1.445996
3.87	0.2644	-0.00162	3.15E-06	0.193939	0.368717	1.445878
3.87	0.2644	-0.00162	3.15E-06	0.193896	0.368635	1.44576
3.87	0.2644	-0.00162	3.15E-06	0.193854	0.368554	1.445643
3.87	0.2644	-0.00162	3.15E-06	0.193811	0.368473	1.445526
3.87	0.2644	-0.00162	3.15E-06	0.193768	0.368392	1.445409
3.87	0.2644	-0.00162	3.15E-06	0.193726	0.368311	1.445292
3.87	0.2644	-0.00162	3.15E-06	0.193684	0.368231	1.445175
3.87	0.2644	-0.00162	3.15E-06	0.193641	0.36815	1.445059
3.88	0.2644	-0.00162	3.15E-06	0.193599	0.36807	1.444943
3.88	0.2644	-0.00162	3.15E-06	0.193557	0.36799	1.444827
3.88	0.2644	-0.00162	3.15E-06	0.193515	0.36791	1.444712
3.88	0.2644	-0.00162	3.15E-06	0.193473	0.36783	1.444596
3.88	0.2644	-0.00162	3.15E-06	0.193431	0.36775	1.444481
3.88	0.2644	-0.00162	3.15E-06	0.193389	0.367671	1.444367
3.88	0.2644	-0.00162	3.15E-06	0.193347	0.367592	1.444252
3.88	0.2644	-0.00162	3.15E-06	0.193306	0.367512	1.444138
3.88	0.2644	-0.00162	3.15E-06	0.193264	0.367433	1.444023
3.88	0.2644	-0.00162	3.15E-06	0.193223	0.367354	1.44391
3.88	0.2644	-0.00162	3.15E-06	0.193181	0.367276	1.443796
3.88	0.2644	-0.00162	3.15E-06	0.19314	0.367197	1.443682
3.88	0.2644	-0.00162	3.15E-06	0.193099	0.367119	1.443569
3.88	0.2644	-0.00162	3.15E-06	0.193058	0.36704	1.443456
3.88	0.2644	-0.00162	3.15E-06	0.193016	0.366962	1.443343
3.88	0.2644	-0.00162	3.15E-06	0.192975	0.366884	1.443231
3.89	0.2644	-0.00162	3.15E-06	0.192934	0.366806	1.443119
3.89	0.2644	-0.00162	3.15E-06	0.192894	0.366729	1.443007
3.89	0.2644	-0.00162	3.15E-06	0.192853	0.366651	1.442895
3.89	0.2644	-0.00162	3.15E-06	0.192812	0.366574	1.442783
3.89	0.2644	-0.00162	3.15E-06	0.192771	0.366497	1.442672
3.89	0.2644	-0.00162	3.15E-06	0.192731	0.36642	1.44256
3.89	0.2644	-0.00162	3.15E-06	0.19269	0.366343	1.442449
3.89	0.2644	-0.00162	3.15E-06	0.19265	0.366266	1.442339
3.89	0.2644	-0.00162	3.15E-06	0.19261	0.366189	1.442228
3.89	0.2644	-0.00162	3.15E-06	0.19257	0.366113	1.442118
3.89	0.2644	-0.00162	3.15E-06	0.192529	0.366036	1.442008
3.89	0.2644	-0.00162	3.15E-06	0.192489	0.36596	1.441898
3.89	0.2644	-0.00162	3.15E-06	0.192449	0.365884	1.441788
3.89	0.2644	-0.00162	3.15E-06	0.192409	0.365808	1.441678
3.89	0.2644	-0.00162	3.15E-06	0.192369	0.365732	1.441569
3.89	0.2644	-0.00162	3.15E-06	0.19233	0.365657	1.44146
3.90	0.2644	-0.00162	3.15E-06	0.19229	0.365581	1.441351
3.90	0.2644	-0.00162	3.15E-06	0.19225	0.365506	1.441243
3.90	0.2644	-0.00162	3.15E-06	0.192211	0.36543	1.441134
3.90	0.2644	-0.00162	3.15E-06	0.192171	0.365355	1.441026
3.90	0.2644	-0.00162	3.15E-06	0.192132	0.36528	1.440918

3.90	0.2644	-0.00162	3.15E-06	0.192092	0.365205	1.44081
3.90	0.2644	-0.00162	3.15E-06	0.192053	0.365131	1.440702
3.90	0.2644	-0.00162	3.15E-06	0.192014	0.365056	1.440595
3.90	0.2644	-0.00162	3.15E-06	0.191975	0.364982	1.440488
3.90	0.2644	-0.00162	3.15E-06	0.191936	0.364907	1.440381
3.90	0.2644	-0.00162	3.15E-06	0.191897	0.364833	1.440274
3.90	0.2644	-0.00162	3.15E-06	0.191858	0.364759	1.440167
3.90	0.2644	-0.00162	3.15E-06	0.191819	0.364685	1.440061
3.90	0.2644	-0.00162	3.15E-06	0.19178	0.364611	1.439954
3.90	0.2644	-0.00162	3.15E-06	0.191741	0.364538	1.439848
3.90	0.2644	-0.00162	3.15E-06	0.191703	0.364464	1.439743
3.91	0.2644	-0.00162	3.15E-06	0.191664	0.364391	1.439637
3.91	0.2644	-0.00162	3.15E-06	0.191625	0.364318	1.439531
3.91	0.2644	-0.00162	3.15E-06	0.191587	0.364245	1.439426
3.91	0.2644	-0.00162	3.15E-06	0.191549	0.364172	1.439321
3.91	0.2644	-0.00162	3.15E-06	0.19151	0.364099	1.439216
3.91	0.2644	-0.00162	3.15E-06	0.191472	0.364026	1.439112
3.91	0.2644	-0.00162	3.15E-06	0.191434	0.363953	1.439007
3.91	0.2644	-0.00162	3.15E-06	0.191396	0.363881	1.438903
3.91	0.2644	-0.00162	3.15E-06	0.191358	0.363809	1.438799
3.91	0.2644	-0.00162	3.15E-06	0.19132	0.363736	1.438695
3.91	0.2644	-0.00162	3.15E-06	0.191282	0.363664	1.438591
3.91	0.2644	-0.00162	3.15E-06	0.191244	0.363592	1.438487
3.91	0.2644	-0.00162	3.15E-06	0.191206	0.36352	1.438384
3.91	0.2644	-0.00162	3.15E-06	0.191168	0.363449	1.438281
3.91	0.2644	-0.00162	3.15E-06	0.191131	0.363377	1.438178
3.91	0.2644	-0.00162	3.15E-06	0.191093	0.363306	1.438075
3.91	0.2644	-0.00162	3.15E-06	0.191055	0.363234	1.437973
3.92	0.2644	-0.00162	3.15E-06	0.191018	0.363163	1.43787
3.92	0.2644	-0.00162	3.15E-06	0.190981	0.363092	1.437768
3.92	0.2644	-0.00162	3.15E-06	0.190943	0.363021	1.437666
3.92	0.2644	-0.00162	3.15E-06	0.190906	0.36295	1.437564
3.92	0.2644	-0.00162	3.15E-06	0.190869	0.362879	1.437462
3.92	0.2644	-0.00162	3.15E-06	0.190832	0.362809	1.437361
3.92	0.2644	-0.00162	3.15E-06	0.190795	0.362738	1.437259
3.92	0.2644	-0.00162	3.15E-06	0.190757	0.362668	1.437158
3.92	0.2644	-0.00162	3.15E-06	0.190721	0.362597	1.437057
3.92	0.2644	-0.00162	3.15E-06	0.190684	0.362527	1.436956
3.92	0.2644	-0.00162	3.15E-06	0.190647	0.362457	1.436856
3.92	0.2644	-0.00162	3.15E-06	0.19061	0.362387	1.436755
3.92	0.2644	-0.00162	3.15E-06	0.190573	0.362317	1.436655
3.92	0.2644	-0.00162	3.15E-06	0.190537	0.362248	1.436555
3.92	0.2644	-0.00162	3.15E-06	0.1905	0.362178	1.436455
3.92	0.2644	-0.00162	3.15E-06	0.190463	0.362109	1.436355
3.92	0.2644	-0.00162	3.15E-06	0.190427	0.362039	1.436255
3.92	0.2644	-0.00162	3.15E-06	0.190391	0.36197	1.436156
3.93	0.2644	-0.00162	3.15E-06	0.190354	0.361901	1.436057
3.93	0.2644	-0.00162	3.15E-06	0.190318	0.361832	1.435958
3.93	0.2644	-0.00162	3.15E-06	0.190282	0.361763	1.435859
3.93	0.2644	-0.00162	3.15E-06	0.190246	0.361694	1.43576

3.93	0.2644	-0.00162	3.15E-06	0.190209	0.361626	1.435661
3.93	0.2644	-0.00162	3.15E-06	0.190173	0.361557	1.435563
3.93	0.2644	-0.00162	3.15E-06	0.190137	0.361489	1.435465
3.93	0.2644	-0.00162	3.15E-06	0.190101	0.36142	1.435367
3.93	0.2644	-0.00162	3.15E-06	0.190066	0.361352	1.435269
3.93	0.2644	-0.00162	3.15E-06	0.19003	0.361284	1.435171
3.93	0.2644	-0.00162	3.15E-06	0.189994	0.361216	1.435073
3.93	0.2644	-0.00162	3.15E-06	0.189958	0.361148	1.434976
3.93	0.2644	-0.00162	3.15E-06	0.189923	0.36108	1.434879
3.93	0.2644	-0.00162	3.15E-06	0.189887	0.361013	1.434782
3.93	0.2644	-0.00162	3.15E-06	0.189851	0.360945	1.434685
3.93	0.2644	-0.00162	3.15E-06	0.189816	0.360878	1.434588
3.93	0.2644	-0.00162	3.15E-06	0.189781	0.36081	1.434491
3.93	0.2644	-0.00162	3.15E-06	0.189745	0.360743	1.434395
3.94	0.2644	-0.00162	3.15E-06	0.18971	0.360676	1.434298
3.94	0.2644	-0.00162	3.15E-06	0.189675	0.360609	1.434202
3.94	0.2644	-0.00162	3.15E-06	0.189639	0.360542	1.434106
3.94	0.2644	-0.00162	3.15E-06	0.189604	0.360475	1.434011
3.94	0.2644	-0.00162	3.15E-06	0.189569	0.360408	1.433915
3.94	0.2644	-0.00162	3.15E-06	0.189534	0.360342	1.433819
3.94	0.2644	-0.00162	3.15E-06	0.189499	0.360275	1.433724
3.94	0.2644	-0.00162	3.15E-06	0.189464	0.360209	1.433629
3.94	0.2644	-0.00162	3.15E-06	0.189429	0.360143	1.433534
3.94	0.2644	-0.00162	3.15E-06	0.189395	0.360076	1.433439
3.94	0.2644	-0.00162	3.15E-06	0.18936	0.36001	1.433344
3.94	0.2644	-0.00162	3.15E-06	0.189325	0.359944	1.43325
3.94	0.2644	-0.00162	3.15E-06	0.18929	0.359878	1.433155
3.94	0.2644	-0.00162	3.15E-06	0.189256	0.359813	1.433061
3.94	0.2644	-0.00162	3.15E-06	0.189221	0.359747	1.432967
3.94	0.2644	-0.00162	3.15E-06	0.189187	0.359681	1.432873
3.94	0.2644	-0.00162	3.15E-06	0.189152	0.359616	1.432779
3.94	0.2644	-0.00162	3.15E-06	0.189118	0.359551	1.432685
3.94	0.2644	-0.00162	3.15E-06	0.189084	0.359485	1.432592
3.94	0.2644	-0.00162	3.15E-06	0.189049	0.35942	1.432499
3.95	0.2644	-0.00162	3.15E-06	0.189015	0.359355	1.432405
3.95	0.2644	-0.00162	3.15E-06	0.188981	0.35929	1.432312
3.95	0.2644	-0.00162	3.15E-06	0.188947	0.359225	1.432219
3.95	0.2644	-0.00162	3.15E-06	0.188913	0.35916	1.432127
3.95	0.2644	-0.00162	3.15E-06	0.188879	0.359096	1.432034
3.95	0.2644	-0.00162	3.15E-06	0.188845	0.359031	1.431942
3.95	0.2644	-0.00162	3.15E-06	0.188811	0.358967	1.431849
3.95	0.2644	-0.00162	3.15E-06	0.188777	0.358902	1.431757
3.95	0.2644	-0.00162	3.15E-06	0.188743	0.358838	1.431665
3.95	0.2644	-0.00162	3.15E-06	0.188709	0.358774	1.431573
3.95	0.2644	-0.00162	3.15E-06	0.188676	0.35871	1.431481
3.95	0.2644	-0.00162	3.15E-06	0.188642	0.358646	1.43139
3.95	0.2644	-0.00162	3.15E-06	0.188608	0.358582	1.431298
3.95	0.2644	-0.00162	3.15E-06	0.188575	0.358518	1.431207
3.95	0.2644	-0.00162	3.15E-06	0.188541	0.358454	1.431116
3.95	0.2644	-0.00162	3.15E-06	0.188508	0.358391	1.431025

3.95	0.2644	-0.00162	3.15E-06	0.188475	0.358327	1.430934
3.95	0.2644	-0.00162	3.15E-06	0.188441	0.358264	1.430843
3.95	0.2644	-0.00162	3.15E-06	0.188408	0.358201	1.430752
3.95	0.2644	-0.00162	3.15E-06	0.188375	0.358137	1.430662
3.96	0.2644	-0.00162	3.15E-06	0.188341	0.358074	1.430572
3.96	0.2644	-0.00162	3.15E-06	0.188308	0.358011	1.430482
3.96	0.2644	-0.00162	3.15E-06	0.188275	0.357948	1.430391
3.96	0.2644	-0.00162	3.15E-06	0.188242	0.357885	1.430302
3.96	0.2644	-0.00162	3.15E-06	0.188209	0.357823	1.430212
3.96	0.2644	-0.00162	3.15E-06	0.188176	0.35776	1.430122
3.96	0.2644	-0.00162	3.15E-06	0.188143	0.357697	1.430033
3.96	0.2644	-0.00162	3.15E-06	0.18811	0.357635	1.429943
3.96	0.2644	-0.00162	3.15E-06	0.188077	0.357572	1.429854
3.96	0.2644	-0.00162	3.15E-06	0.188045	0.35751	1.429765
3.96	0.2644	-0.00162	3.15E-06	0.188012	0.357448	1.429676
3.96	0.2644	-0.00162	3.15E-06	0.187979	0.357386	1.429587
3.96	0.2644	-0.00162	3.15E-06	0.187947	0.357324	1.429498
3.96	0.2644	-0.00162	3.15E-06	0.187914	0.357262	1.42941
3.96	0.2644	-0.00162	3.15E-06	0.187881	0.3572	1.429321
3.96	0.2644	-0.00162	3.15E-06	0.187849	0.357138	1.429233
3.96	0.2644	-0.00162	3.15E-06	0.187817	0.357076	1.429145
3.96	0.2644	-0.00162	3.15E-06	0.187784	0.357015	1.429057
3.96	0.2644	-0.00162	3.15E-06	0.187752	0.356953	1.428969
3.96	0.2644	-0.00162	3.15E-06	0.187719	0.356892	1.428881
3.97	0.2644	-0.00162	3.15E-06	0.187687	0.35683	1.428794
3.97	0.2644	-0.00162	3.15E-06	0.187655	0.356769	1.428706
3.97	0.2644	-0.00162	3.15E-06	0.187623	0.356708	1.428619
3.97	0.2644	-0.00162	3.15E-06	0.187591	0.356647	1.428531
3.97	0.2644	-0.00162	3.15E-06	0.187559	0.356586	1.428444
3.97	0.2644	-0.00162	3.15E-06	0.187527	0.356525	1.428357
3.97	0.2644	-0.00162	3.15E-06	0.187495	0.356464	1.428271
3.97	0.2644	-0.00162	3.15E-06	0.187463	0.356404	1.428184
3.97	0.2644	-0.00162	3.15E-06	0.187431	0.356343	1.428097
3.97	0.2644	-0.00162	3.15E-06	0.187399	0.356282	1.428011
3.97	0.2644	-0.00162	3.15E-06	0.187367	0.356222	1.427924
3.97	0.2644	-0.00162	3.15E-06	0.187335	0.356161	1.427838

Location Index	
England and Wales	1
Scotland and Ireland	2

From Design and Analysis of Urban Storm Drainage, The Wallingford Procedure, Vol 1

Table 6.1 Values of Constants to calculate Cr

Geographic Location	Range of M5-D	Location Index	J0	J1	J2
England and Wales	0-10	1	0.1699	0.0028	0.000114
	11-30		0.1644	0.005831	-0.00013
	31-75		0.2644	-0.00162	3.15E-06
	76-150		0.2718	-0.00195	6.19E-06
	>150		0.1454	-0.00019	1.14E-07

Integra Consulting						Job No	Date
						3301	10.02.2022
						Sheet	By
Calculations						01	JS
Job Title Withington							
Storm Water Flood Model							
M5-60 = 18.00		r = 0.36		Return, T = 100		Area (m²) = 978	
				CC Factor = 0.00		Limit (l/s) = 2.0	
Totals						29	29
D (mins)	M5-D (mm)	MT-D (mm)	Rate (mm/hr)	Flow (l/s)	CC Flow (l/s)	Storage (m³)	CC Storage (m³)
10.00	9.14	17.27	103.65	27.98	27.98	15.59	15.59
15.00	10.96	21.32	85.28	23.02	23.02	18.92	18.92
20.00	12.31	24.07	72.21	19.49	19.49	20.99	20.99
25.00	13.40	26.40	63.36	17.10	17.10	22.65	22.65
30.00	14.31	28.36	56.72	15.31	15.31	23.96	23.96
35.00	15.10	30.06	51.53	13.91	13.91	25.01	25.01
40.00	15.79	31.56	47.34	12.78	12.78	25.87	25.87
45.00	16.42	32.91	43.88	11.84	11.84	26.58	26.58
50.00	16.99	34.13	40.96	11.06	11.06	27.17	27.17
55.00	17.51	35.26	38.46	10.38	10.38	27.66	27.66
60.00	18.00	36.29	36.29	9.80	9.80	28.07	28.07
65.00	18.45	37.26	34.39	9.28	9.28	28.41	28.41
70.00	18.88	38.16	32.71	8.83	8.83	28.68	28.68
75.00	19.28	39.01	31.21	8.42	8.42	28.90	28.90
80.00	19.66	39.81	29.85	8.06	8.06	29.08	29.08
85.00	20.02	40.56	28.63	7.73	7.73	29.21	29.21
90.00	20.37	41.28	27.52	7.43	7.43	29.31	29.31
95.00	20.70	41.96	26.50	7.15	7.15	29.38	29.38
100.00	21.02	42.61	25.57	6.90	6.90	29.41	29.41
105.00	21.32	43.24	24.71	6.67	6.67	29.41	29.41
110.00	21.61	43.83	23.91	6.45	6.45	29.39	29.39
115.00	21.90	44.40	23.17	6.25	6.25	29.35	29.35
120.00	22.17	44.95	22.48	6.07	6.07	29.28	29.28
125.00	22.43	45.48	21.83	5.89	5.89	29.20	29.20
130.00	22.69	45.99	21.23	5.73	5.73	29.10	29.10
135.00	22.94	46.49	20.66	5.58	5.58	28.97	28.97
140.00	23.18	46.96	20.13	5.43	5.43	28.84	28.84
145.00	23.41	47.42	19.62	5.30	5.30	28.68	28.68
150.00	23.64	47.87	19.15	5.17	5.17	28.52	28.52
155.00	23.86	48.30	18.70	5.05	5.05	28.34	28.34
160.00	24.08	48.72	18.27	4.93	4.93	28.15	28.15
165.00	24.29	49.13	17.87	4.82	4.82	27.94	27.94
170.00	24.50	49.52	17.48	4.72	4.72	27.73	27.73
175.00	24.70	49.91	17.11	4.62	4.62	27.50	27.50
180.00	24.90	50.28	16.76	4.52	4.52	27.26	27.26
185.00	25.09	50.65	16.43	4.43	4.43	27.02	27.02
190.00	25.28	51.00	16.11	4.35	4.35	26.76	26.76
195.00	25.47	51.35	15.80	4.26	4.26	26.50	26.50
200.00	25.65	51.69	15.51	4.19	4.19	26.22	26.22

205.00	25.83	52.01	15.22	4.11	4.11	25.94	25.94
210.00	26.01	52.33	14.95	4.04	4.04	25.66	25.66
215.00	26.18	52.65	14.69	3.97	3.97	25.36	25.36
220.00	26.35	52.95	14.44	3.90	3.90	25.06	25.06
225.00	26.51	53.25	14.20	3.83	3.83	24.75	24.75
230.00	26.68	53.55	13.97	3.77	3.77	24.43	24.43
235.00	26.84	53.83	13.74	3.71	3.71	24.11	24.11
240.00	27.00	54.11	13.53	3.65	3.65	23.78	23.78
245.00	27.15	54.39	13.32	3.60	3.60	23.45	23.45
250.00	27.31	54.66	13.12	3.54	3.54	23.11	23.11
255.00	27.46	54.92	12.92	3.49	3.49	22.77	22.77
260.00	27.61	55.18	12.73	3.44	3.44	22.42	22.42
265.00	27.75	55.43	12.55	3.39	3.39	22.06	22.06
270.00	27.90	55.68	12.37	3.34	3.34	21.70	21.70
275.00	28.04	55.92	12.20	3.29	3.29	21.34	21.34
280.00	28.18	56.16	12.03	3.25	3.25	20.97	20.97
285.00	28.32	56.39	11.87	3.20	3.20	20.60	20.60
290.00	28.45	56.62	11.71	3.16	3.16	20.22	20.22
295.00	28.59	56.84	11.56	3.12	3.12	19.84	19.84
300.00	28.72	57.07	11.41	3.08	3.08	19.45	19.45
305.00	28.85	57.28	11.27	3.04	3.04	19.06	19.06
310.00	28.98	57.50	11.13	3.00	3.00	18.67	18.67
315.00	29.11	57.71	10.99	2.97	2.97	18.27	18.27
320.00	29.24	57.91	10.86	2.93	2.93	17.87	17.87
325.00	29.37	58.11	10.73	2.90	2.90	17.47	17.47
330.00	29.49	58.31	10.60	2.86	2.86	17.06	17.06
335.00	29.61	58.51	10.48	2.83	2.83	16.65	16.65
340.00	29.73	58.70	10.36	2.80	2.80	16.24	16.24
345.00	29.85	58.89	10.24	2.76	2.76	15.82	15.82
350.00	29.97	59.07	10.13	2.73	2.73	15.40	15.40
355.00	30.09	59.26	10.02	2.70	2.70	14.98	14.98
360.00	30.20	59.44	9.91	2.67	2.67	14.56	14.56
365.00	30.32	59.61	9.80	2.65	2.65	14.13	14.13
370.00	30.43	59.79	9.70	2.62	2.62	13.70	13.70
375.00	30.55	59.96	9.59	2.59	2.59	13.27	13.27
380.00	30.66	60.13	9.49	2.56	2.56	12.83	12.83
385.00	30.77	60.29	9.40	2.54	2.54	12.39	12.39
390.00	30.88	60.46	9.30	2.51	2.51	11.95	11.95
395.00	30.98	60.62	9.21	2.49	2.49	11.51	11.51
400.00	31.09	61.00	9.15	2.47	2.47	11.28	11.28
405.00	31.20	61.18	9.06	2.45	2.45	10.85	10.85
410.00	31.30	61.36	8.98	2.42	2.42	10.42	10.42
415.00	31.41	61.53	8.90	2.40	2.40	9.99	9.99
420.00	31.51	61.71	8.82	2.38	2.38	9.56	9.56
425.00	31.61	61.88	8.74	2.36	2.36	9.13	9.13
430.00	31.71	62.05	8.66	2.34	2.34	8.70	8.70
435.00	31.81	62.22	8.58	2.32	2.32	8.26	8.26
440.00	31.91	62.39	8.51	2.30	2.30	7.82	7.82
445.00	32.01	62.55	8.43	2.28	2.28	7.39	7.39
450.00	32.11	62.72	8.36	2.26	2.26	6.95	6.95

455.00	32.21	62.88	8.29	2.24	2.24	6.50	6.50
460.00	32.30	63.04	8.22	2.22	2.22	6.06	6.06
465.00	32.40	63.20	8.16	2.20	2.20	5.62	5.62
470.00	32.49	63.36	8.09	2.18	2.18	5.17	5.17
475.00	32.59	63.52	8.02	2.17	2.17	4.72	4.72
480.00	32.68	63.67	7.96	2.15	2.15	4.27	4.27
485.00	32.77	63.83	7.90	2.13	2.13	3.82	3.82
490.00	32.87	63.98	7.83	2.11	2.11	3.37	3.37
495.00	32.96	64.13	7.77	2.10	2.10	2.92	2.92
500.00	33.05	64.28	7.71	2.08	2.08	2.47	2.47
505.00	33.14	64.43	7.66	2.07	2.07	2.01	2.01
510.00	33.23	64.58	7.60	2.05	2.05	1.56	1.56
515.00	33.32	64.73	7.54	2.04	2.04	1.10	1.10
520.00	33.40	64.87	7.49	2.02	2.02	0.64	0.64
525.00	33.49	65.02	7.43	2.01	2.01	0.18	0.18
530.00	33.58	65.16	7.38	1.99	1.99	-0.28	-0.28
535.00	33.66	65.30	7.32	1.98	1.98	-0.74	-0.74
540.00	33.75	65.45	7.27	1.96	1.96	-1.20	-1.20
545.00	33.83	65.59	7.22	1.95	1.95	-1.67	-1.67
550.00	33.92	65.72	7.17	1.94	1.94	-2.13	-2.13
555.00	34.00	65.86	7.12	1.92	1.92	-2.60	-2.60
560.00	34.08	66.00	7.07	1.91	1.91	-3.07	-3.07
565.00	34.17	66.14	7.02	1.90	1.90	-3.53	-3.53
570.00	34.25	66.27	6.98	1.88	1.88	-4.00	-4.00
575.00	34.33	66.40	6.93	1.87	1.87	-4.47	-4.47
580.00	34.41	66.54	6.88	1.86	1.86	-4.94	-4.94
585.00	34.49	66.67	6.84	1.85	1.85	-5.41	-5.41
590.00	34.57	66.80	6.79	1.83	1.83	-5.89	-5.89
595.00	34.65	66.93	6.75	1.82	1.82	-6.36	-6.36
600.00	34.73	67.06	6.71	1.81	1.81	-6.83	-6.83
605.00	34.81	67.19	6.66	1.80	1.80	-7.31	-7.31
610.00	34.89	67.32	6.62	1.79	1.79	-7.79	-7.79
615.00	34.96	67.44	6.58	1.78	1.78	-8.26	-8.26
620.00	35.04	67.57	6.54	1.77	1.77	-8.74	-8.74
625.00	35.12	67.69	6.50	1.75	1.75	-9.22	-9.22
630.00	35.19	67.82	6.46	1.74	1.74	-9.70	-9.70
635.00	35.27	67.94	6.42	1.73	1.73	-10.18	-10.18
640.00	35.34	68.07	6.38	1.72	1.72	-10.66	-10.66
645.00	35.42	68.19	6.34	1.71	1.71	-11.14	-11.14
650.00	35.49	68.31	6.31	1.70	1.70	-11.62	-11.62
655.00	35.57	68.43	6.27	1.69	1.69	-12.11	-12.11
660.00	35.64	68.55	6.23	1.68	1.68	-12.59	-12.59
665.00	35.71	68.67	6.20	1.67	1.67	-13.07	-13.07
670.00	35.79	68.78	6.16	1.66	1.66	-13.56	-13.56
675.00	35.86	68.90	6.12	1.65	1.65	-14.05	-14.05
680.00	35.93	69.02	6.09	1.64	1.64	-14.53	-14.53
685.00	36.00	69.13	6.06	1.63	1.63	-15.02	-15.02
690.00	36.07	69.25	6.02	1.63	1.63	-15.51	-15.51
695.00	36.14	69.36	5.99	1.62	1.62	-16.00	-16.00
700.00	36.21	69.48	5.96	1.61	1.61	-16.49	-16.49

705.00	36.28	69.59	5.92	1.60	1.60	-16.98	-16.98
710.00	36.35	69.70	5.89	1.59	1.59	-17.47	-17.47
715.00	36.42	69.82	5.86	1.58	1.58	-17.96	-17.96
720.00	36.49	69.93	5.83	1.57	1.57	-18.45	-18.45
725.00	36.56	70.04	5.80	1.56	1.56	-18.94	-18.94
730.00	36.63	70.15	5.77	1.56	1.56	-19.43	-19.43
735.00	36.70	70.26	5.74	1.55	1.55	-19.93	-19.93
740.00	36.76	70.37	5.71	1.54	1.54	-20.42	-20.42
745.00	36.83	70.47	5.68	1.53	1.53	-20.92	-20.92
750.00	36.90	70.58	5.65	1.52	1.52	-21.41	-21.41
755.00	36.96	70.69	5.62	1.52	1.52	-21.91	-21.91
760.00	37.03	70.79	5.59	1.51	1.51	-22.41	-22.41
765.00	37.10	70.90	5.56	1.50	1.50	-22.90	-22.90
770.00	37.16	71.01	5.53	1.49	1.49	-23.40	-23.40
775.00	37.23	71.11	5.51	1.49	1.49	-23.90	-23.90
780.00	37.29	71.21	5.48	1.48	1.48	-24.40	-24.40
785.00	37.36	71.32	5.45	1.47	1.47	-24.90	-24.90
790.00	37.42	71.42	5.42	1.46	1.46	-25.40	-25.40
795.00	37.48	71.52	5.40	1.46	1.46	-25.90	-25.90
800.00	37.55	71.62	5.37	1.45	1.45	-26.40	-26.40
805.00	37.61	71.73	5.35	1.44	1.44	-26.90	-26.90
810.00	37.68	71.83	5.32	1.44	1.44	-27.40	-27.40
815.00	37.74	71.93	5.30	1.43	1.43	-27.91	-27.91
820.00	37.80	72.03	5.27	1.42	1.42	-28.41	-28.41
825.00	37.86	72.13	5.25	1.42	1.42	-28.91	-28.91
830.00	37.92	72.22	5.22	1.41	1.41	-29.42	-29.42
835.00	37.99	72.32	5.20	1.40	1.40	-29.92	-29.92
840.00	38.05	72.42	5.17	1.40	1.40	-30.43	-30.43
845.00	38.11	72.52	5.15	1.39	1.39	-30.93	-30.93
850.00	38.17	72.61	5.13	1.38	1.38	-31.44	-31.44
855.00	38.23	72.71	5.10	1.38	1.38	-31.94	-31.94
860.00	38.29	72.81	5.08	1.37	1.37	-32.45	-32.45
865.00	38.35	72.90	5.06	1.36	1.36	-32.96	-32.96
870.00	38.41	73.00	5.03	1.36	1.36	-33.47	-33.47
875.00	38.47	73.09	5.01	1.35	1.35	-33.97	-33.97
880.00	38.53	73.19	4.99	1.35	1.35	-34.48	-34.48
885.00	38.59	73.28	4.97	1.34	1.34	-34.99	-34.99
890.00	38.65	73.37	4.95	1.34	1.34	-35.50	-35.50
895.00	38.71	73.47	4.93	1.33	1.33	-36.01	-36.01
900.00	38.76	73.56	4.90	1.32	1.32	-36.52	-36.52
905.00	38.82	73.65	4.88	1.32	1.32	-37.03	-37.03
910.00	38.88	73.74	4.86	1.31	1.31	-37.54	-37.54
915.00	38.94	73.83	4.84	1.31	1.31	-38.05	-38.05
920.00	38.99	73.92	4.82	1.30	1.30	-38.57	-38.57
925.00	39.05	74.01	4.80	1.30	1.30	-39.08	-39.08
930.00	39.11	74.10	4.78	1.29	1.29	-39.59	-39.59
935.00	39.17	74.19	4.76	1.29	1.29	-40.10	-40.10
940.00	39.22	74.28	4.74	1.28	1.28	-40.62	-40.62
945.00	39.28	74.37	4.72	1.27	1.27	-41.13	-41.13
950.00	39.33	74.46	4.70	1.27	1.27	-41.65	-41.65

955.00	39.39	74.55	4.68	1.26	1.26	-42.16	-42.16
960.00	39.45	74.63	4.66	1.26	1.26	-42.67	-42.67
965.00	39.50	74.72	4.65	1.25	1.25	-43.19	-43.19
970.00	39.56	74.81	4.63	1.25	1.25	-43.71	-43.71
975.00	39.61	74.89	4.61	1.24	1.24	-44.22	-44.22
980.00	39.67	74.98	4.59	1.24	1.24	-44.74	-44.74
985.00	39.72	75.07	4.57	1.23	1.23	-45.25	-45.25
990.00	39.77	75.15	4.55	1.23	1.23	-45.77	-45.77
995.00	39.83	75.24	4.54	1.22	1.22	-46.29	-46.29
1000.00	39.88	75.32	4.52	1.22	1.22	-46.81	-46.81
1005.00	39.94	75.41	4.50	1.22	1.22	-47.33	-47.33
1010.00	39.99	75.49	4.48	1.21	1.21	-47.84	-47.84
1015.00	40.04	75.57	4.47	1.21	1.21	-48.36	-48.36
1020.00	40.10	75.66	4.45	1.20	1.20	-48.88	-48.88
1025.00	40.15	75.74	4.43	1.20	1.20	-49.40	-49.40
1030.00	40.20	75.82	4.42	1.19	1.19	-49.92	-49.92
1035.00	40.25	75.90	4.40	1.19	1.19	-50.44	-50.44
1040.00	40.31	75.99	4.38	1.18	1.18	-50.96	-50.96
1045.00	40.36	76.07	4.37	1.18	1.18	-51.48	-51.48
1050.00	40.41	76.15	4.35	1.17	1.17	-52.00	-52.00
1055.00	40.46	76.23	4.34	1.17	1.17	-52.52	-52.52
1060.00	40.51	76.31	4.32	1.17	1.17	-53.05	-53.05
1065.00	40.57	76.39	4.30	1.16	1.16	-53.57	-53.57
1070.00	40.62	76.47	4.29	1.16	1.16	-54.09	-54.09
1075.00	40.67	76.55	4.27	1.15	1.15	-54.61	-54.61
1080.00	40.72	76.63	4.26	1.15	1.15	-55.14	-55.14
1085.00	40.77	76.71	4.24	1.15	1.15	-55.66	-55.66
1090.00	40.82	76.79	4.23	1.14	1.14	-56.18	-56.18
1095.00	40.87	76.87	4.21	1.14	1.14	-56.71	-56.71
1100.00	40.92	76.94	4.20	1.13	1.13	-57.23	-57.23
1105.00	40.97	77.02	4.18	1.13	1.13	-57.76	-57.76
1110.00	41.02	77.10	4.17	1.12	1.12	-58.28	-58.28
1115.00	41.07	77.18	4.15	1.12	1.12	-58.80	-58.80
1120.00	41.12	77.25	4.14	1.12	1.12	-59.33	-59.33
1125.00	41.17	77.33	4.12	1.11	1.11	-59.86	-59.86
1130.00	41.22	77.41	4.11	1.11	1.11	-60.38	-60.38
1135.00	41.27	77.48	4.10	1.11	1.11	-60.91	-60.91
1140.00	41.32	77.56	4.08	1.10	1.10	-61.43	-61.43
1145.00	41.37	77.63	4.07	1.10	1.10	-61.96	-61.96
1150.00	41.42	77.71	4.05	1.09	1.09	-62.49	-62.49
1155.00	41.46	77.78	4.04	1.09	1.09	-63.01	-63.01
1160.00	41.51	77.86	4.03	1.09	1.09	-63.54	-63.54
1165.00	41.56	77.93	4.01	1.08	1.08	-64.07	-64.07
1170.00	41.61	78.01	4.00	1.08	1.08	-64.60	-64.60
1175.00	41.66	78.08	3.99	1.08	1.08	-65.13	-65.13
1180.00	41.70	78.15	3.97	1.07	1.07	-65.65	-65.65
1185.00	41.75	78.23	3.96	1.07	1.07	-66.18	-66.18
1190.00	41.80	78.30	3.95	1.07	1.07	-66.71	-66.71
1195.00	41.85	78.37	3.94	1.06	1.06	-67.24	-67.24
1200.00	41.89	78.45	3.92	1.06	1.06	-67.77	-67.77

1205.00	41.94	78.52	3.91	1.06	1.06	-68.30	-68.30
1210.00	41.99	78.59	3.90	1.05	1.05	-68.83	-68.83
1215.00	42.03	78.66	3.88	1.05	1.05	-69.36	-69.36
1220.00	42.08	78.73	3.87	1.05	1.05	-69.89	-69.89
1225.00	42.13	78.81	3.86	1.04	1.04	-70.42	-70.42
1230.00	42.17	78.88	3.85	1.04	1.04	-70.95	-70.95
1235.00	42.22	78.95	3.84	1.04	1.04	-71.48	-71.48
1240.00	42.26	79.02	3.82	1.03	1.03	-72.01	-72.01
1245.00	42.31	79.09	3.81	1.03	1.03	-72.55	-72.55
1250.00	42.36	79.16	3.80	1.03	1.03	-73.08	-73.08
1255.00	42.40	79.23	3.79	1.02	1.02	-73.61	-73.61
1260.00	42.45	79.30	3.78	1.02	1.02	-74.14	-74.14
1265.00	42.49	79.37	3.76	1.02	1.02	-74.67	-74.67
1270.00	42.54	79.44	3.75	1.01	1.01	-75.21	-75.21
1275.00	42.58	79.51	3.74	1.01	1.01	-75.74	-75.74
1280.00	42.63	79.58	3.73	1.01	1.01	-76.27	-76.27
1285.00	42.67	79.64	3.72	1.00	1.00	-76.81	-76.81
1290.00	42.72	79.71	3.71	1.00	1.00	-77.34	-77.34
1295.00	42.76	79.78	3.70	1.00	1.00	-77.87	-77.87
1300.00	42.81	79.85	3.69	0.99	0.99	-78.41	-78.41
1305.00	42.85	79.92	3.67	0.99	0.99	-78.94	-78.94
1310.00	42.89	79.98	3.66	0.99	0.99	-79.48	-79.48
1315.00	42.94	80.05	3.65	0.99	0.99	-80.01	-80.01
1320.00	42.98	80.12	3.64	0.98	0.98	-80.55	-80.55
1325.00	43.03	80.19	3.63	0.98	0.98	-81.08	-81.08
1330.00	43.07	80.25	3.62	0.98	0.98	-81.62	-81.62
1335.00	43.11	80.32	3.61	0.97	0.97	-82.15	-82.15
1340.00	43.16	80.39	3.60	0.97	0.97	-82.69	-82.69
1345.00	43.20	80.45	3.59	0.97	0.97	-83.22	-83.22
1350.00	43.24	80.52	3.58	0.97	0.97	-83.76	-83.76
1355.00	43.29	80.58	3.57	0.96	0.96	-84.29	-84.29
1360.00	43.33	80.65	3.56	0.96	0.96	-84.83	-84.83
1365.00	43.37	80.71	3.55	0.96	0.96	-85.37	-85.37
1370.00	43.41	80.78	3.54	0.95	0.95	-85.90	-85.90
1375.00	43.46	80.84	3.53	0.95	0.95	-86.44	-86.44
1380.00	43.50	80.91	3.52	0.95	0.95	-86.98	-86.98
1385.00	43.54	80.97	3.51	0.95	0.95	-87.52	-87.52
1390.00	43.58	81.04	3.50	0.94	0.94	-88.05	-88.05
1395.00	43.63	81.10	3.49	0.94	0.94	-88.59	-88.59
1400.00	43.67	81.16	3.48	0.94	0.94	-89.13	-89.13
1405.00	43.71	81.23	3.47	0.94	0.94	-89.67	-89.67
1410.00	43.75	81.29	3.46	0.93	0.93	-90.21	-90.21
1415.00	43.79	81.35	3.45	0.93	0.93	-90.74	-90.74
1420.00	43.84	81.42	3.44	0.93	0.93	-91.28	-91.28
1425.00	43.88	81.48	3.43	0.93	0.93	-91.82	-91.82
1430.00	43.92	81.54	3.42	0.92	0.92	-92.36	-92.36
1435.00	43.96	81.61	3.41	0.92	0.92	-92.90	-92.90
1440.00	44.00	81.67	3.40	0.92	0.92	-93.44	-93.44
1445.00	44.04	81.73	3.39	0.92	0.92	-93.98	-93.98
1450.00	44.08	81.79	3.38	0.91	0.91	-94.52	-94.52

1455.00	44.12	81.85	3.38	0.91	0.91	-95.06	-95.06
1460.00	44.16	81.92	3.37	0.91	0.91	-95.60	-95.60
1465.00	44.20	81.98	3.36	0.91	0.91	-96.14	-96.14
1470.00	44.25	82.04	3.35	0.90	0.90	-96.68	-96.68
1475.00	44.29	82.10	3.34	0.90	0.90	-97.22	-97.22
1480.00	44.33	82.16	3.33	0.90	0.90	-97.76	-97.76
1485.00	44.37	82.22	3.32	0.90	0.90	-98.30	-98.30
1490.00	44.41	82.28	3.31	0.89	0.89	-98.84	-98.84
1495.00	44.45	82.34	3.30	0.89	0.89	-99.38	-99.38
1500.00	44.49	82.40	3.30	0.89	0.89	-99.93	-99.93
1505.00	44.53	82.46	3.29	0.89	0.89	-100.47	-100.47
1510.00	44.57	82.52	3.28	0.89	0.89	-101.01	-101.01
1515.00	44.61	82.58	3.27	0.88	0.88	-101.55	-101.55
1520.00	44.65	82.64	3.26	0.88	0.88	-102.09	-102.09
1525.00	44.68	82.70	3.25	0.88	0.88	-102.63	-102.63
1530.00	44.72	82.76	3.25	0.88	0.88	-103.18	-103.18
1535.00	44.76	82.82	3.24	0.87	0.87	-103.72	-103.72
1540.00	44.80	82.88	3.23	0.87	0.87	-104.26	-104.26
1545.00	44.84	82.94	3.22	0.87	0.87	-104.81	-104.81
1550.00	44.88	83.00	3.21	0.87	0.87	-105.35	-105.35
1555.00	44.92	83.06	3.20	0.87	0.87	-105.89	-105.89
1560.00	44.96	83.11	3.20	0.86	0.86	-106.43	-106.43
1565.00	45.00	83.17	3.19	0.86	0.86	-106.98	-106.98
1570.00	45.04	83.23	3.18	0.86	0.86	-107.52	-107.52
1575.00	45.07	83.29	3.17	0.86	0.86	-108.07	-108.07
1580.00	45.11	83.35	3.17	0.85	0.85	-108.61	-108.61
1585.00	45.15	83.40	3.16	0.85	0.85	-109.15	-109.15
1590.00	45.19	83.46	3.15	0.85	0.85	-109.70	-109.70
1595.00	45.23	83.52	3.14	0.85	0.85	-110.24	-110.24
1600.00	45.27	83.57	3.13	0.85	0.85	-110.79	-110.79
1605.00	45.30	83.63	3.13	0.84	0.84	-111.33	-111.33
1610.00	45.34	83.69	3.12	0.84	0.84	-111.88	-111.88
1615.00	45.38	83.75	3.11	0.84	0.84	-112.42	-112.42
1620.00	45.42	83.80	3.10	0.84	0.84	-112.97	-112.97
1625.00	45.45	83.86	3.10	0.84	0.84	-113.51	-113.51
1630.00	45.49	83.91	3.09	0.83	0.83	-114.06	-114.06
1635.00	45.53	83.97	3.08	0.83	0.83	-114.60	-114.60
1640.00	45.57	84.03	3.07	0.83	0.83	-115.15	-115.15
1645.00	45.60	84.08	3.07	0.83	0.83	-115.69	-115.69
1650.00	45.64	84.14	3.06	0.83	0.83	-116.24	-116.24
1655.00	45.68	84.19	3.05	0.82	0.82	-116.79	-116.79
1660.00	45.72	84.25	3.05	0.82	0.82	-117.33	-117.33
1665.00	45.75	84.30	3.04	0.82	0.82	-117.88	-117.88
1670.00	45.79	84.36	3.03	0.82	0.82	-118.42	-118.42
1675.00	45.83	84.41	3.02	0.82	0.82	-118.97	-118.97
1680.00	45.86	84.47	3.02	0.81	0.81	-119.52	-119.52
1685.00	45.90	84.52	3.01	0.81	0.81	-120.07	-120.07
1690.00	45.94	84.58	3.00	0.81	0.81	-120.61	-120.61
1695.00	45.97	84.63	3.00	0.81	0.81	-121.16	-121.16
1700.00	46.01	84.69	2.99	0.81	0.81	-121.71	-121.71

1705.00	46.05	84.74	2.98	0.80	0.80	-122.25	-122.25
1710.00	46.08	84.79	2.98	0.80	0.80	-122.80	-122.80
1715.00	46.12	84.85	2.97	0.80	0.80	-123.35	-123.35
1720.00	46.15	84.90	2.96	0.80	0.80	-123.90	-123.90
1725.00	46.19	84.96	2.95	0.80	0.80	-124.44	-124.44
1730.00	46.23	85.01	2.95	0.80	0.80	-124.99	-124.99
1735.00	46.26	85.06	2.94	0.79	0.79	-125.54	-125.54
1740.00	46.30	85.12	2.94	0.79	0.79	-126.09	-126.09
1745.00	46.33	85.17	2.93	0.79	0.79	-126.64	-126.64
1750.00	46.37	85.22	2.92	0.79	0.79	-127.19	-127.19
1755.00	46.40	85.28	2.92	0.79	0.79	-127.73	-127.73
1760.00	46.44	85.33	2.91	0.79	0.79	-128.28	-128.28
1765.00	46.47	85.38	2.90	0.78	0.78	-128.83	-128.83
1770.00	46.51	85.43	2.90	0.78	0.78	-129.38	-129.38
1775.00	46.55	85.49	2.89	0.78	0.78	-129.93	-129.93
1780.00	46.58	85.54	2.88	0.78	0.78	-130.48	-130.48
1785.00	46.62	85.59	2.88	0.78	0.78	-131.03	-131.03
1790.00	46.65	85.64	2.87	0.77	0.77	-131.58	-131.58
1795.00	46.69	85.69	2.86	0.77	0.77	-132.13	-132.13
1800.00	46.72	85.75	2.86	0.77	0.77	-132.68	-132.68
1805.00	46.76	85.80	2.85	0.77	0.77	-133.23	-133.23
1810.00	46.79	85.85	2.85	0.77	0.77	-133.78	-133.78
1815.00	46.83	85.90	2.84	0.77	0.77	-134.33	-134.33
1820.00	46.86	85.95	2.83	0.76	0.76	-134.88	-134.88
1825.00	46.89	86.00	2.83	0.76	0.76	-135.43	-135.43
1830.00	46.93	86.05	2.82	0.76	0.76	-135.98	-135.98
1835.00	46.96	86.10	2.82	0.76	0.76	-136.53	-136.53
1840.00	47.00	86.15	2.81	0.76	0.76	-137.08	-137.08
1845.00	47.03	86.21	2.80	0.76	0.76	-137.63	-137.63
1850.00	47.07	86.26	2.80	0.76	0.76	-138.18	-138.18
1855.00	47.10	86.31	2.79	0.75	0.75	-138.73	-138.73
1860.00	47.13	86.36	2.79	0.75	0.75	-139.28	-139.28
1865.00	47.17	86.41	2.78	0.75	0.75	-139.83	-139.83
1870.00	47.20	86.46	2.77	0.75	0.75	-140.39	-140.39
1875.00	47.24	86.51	2.77	0.75	0.75	-140.94	-140.94
1880.00	47.27	86.56	2.76	0.75	0.75	-141.49	-141.49
1885.00	47.30	86.61	2.76	0.74	0.74	-142.04	-142.04
1890.00	47.34	86.66	2.75	0.74	0.74	-142.59	-142.59
1895.00	47.37	86.71	2.75	0.74	0.74	-143.14	-143.14
1900.00	47.40	86.76	2.74	0.74	0.74	-143.70	-143.70
1905.00	47.44	86.80	2.73	0.74	0.74	-144.25	-144.25
1910.00	47.47	86.85	2.73	0.74	0.74	-144.80	-144.80
1915.00	47.50	86.90	2.72	0.73	0.73	-145.35	-145.35
1920.00	47.54	86.95	2.72	0.73	0.73	-145.91	-145.91
1925.00	47.57	87.00	2.71	0.73	0.73	-146.46	-146.46
1930.00	47.60	87.05	2.71	0.73	0.73	-147.01	-147.01
1935.00	47.64	87.10	2.70	0.73	0.73	-147.56	-147.56
1940.00	47.67	87.15	2.70	0.73	0.73	-148.12	-148.12
1945.00	47.70	87.20	2.69	0.73	0.73	-148.67	-148.67
1950.00	47.74	87.24	2.68	0.72	0.72	-149.22	-149.22

1955.00	47.77	87.29	2.68	0.72	0.72	-149.78	-149.78
1960.00	47.80	87.34	2.67	0.72	0.72	-150.33	-150.33
1965.00	47.83	87.39	2.67	0.72	0.72	-150.88	-150.88
1970.00	47.87	87.44	2.66	0.72	0.72	-151.43	-151.43
1975.00	47.90	87.48	2.66	0.72	0.72	-151.99	-151.99
1980.00	47.93	87.53	2.65	0.72	0.72	-152.54	-152.54
1985.00	47.96	87.58	2.65	0.71	0.71	-153.10	-153.10
1990.00	48.00	87.63	2.64	0.71	0.71	-153.65	-153.65
1995.00	48.03	87.67	2.64	0.71	0.71	-154.20	-154.20
2000.00	48.06	87.72	2.63	0.71	0.71	-154.76	-154.76
2005.00	48.09	87.77	2.63	0.71	0.71	-155.31	-155.31
2010.00	48.13	87.82	2.62	0.71	0.71	-155.87	-155.87
2015.00	48.16	87.86	2.62	0.71	0.71	-156.42	-156.42
2020.00	48.19	87.91	2.61	0.70	0.70	-156.97	-156.97
2025.00	48.22	87.96	2.61	0.70	0.70	-157.53	-157.53
2030.00	48.25	88.00	2.60	0.70	0.70	-158.08	-158.08
2035.00	48.29	88.05	2.60	0.70	0.70	-158.64	-158.64
2040.00	48.32	88.10	2.59	0.70	0.70	-159.19	-159.19
2045.00	48.35	88.14	2.59	0.70	0.70	-159.75	-159.75
2050.00	48.38	88.19	2.58	0.70	0.70	-160.30	-160.30
2055.00	48.41	88.24	2.58	0.70	0.70	-160.86	-160.86
2060.00	48.44	88.28	2.57	0.69	0.69	-161.41	-161.41
2065.00	48.48	88.33	2.57	0.69	0.69	-161.97	-161.97
2070.00	48.51	88.37	2.56	0.69	0.69	-162.52	-162.52
2075.00	48.54	88.42	2.56	0.69	0.69	-163.08	-163.08
2080.00	48.57	88.47	2.55	0.69	0.69	-163.63	-163.63
2085.00	48.60	88.51	2.55	0.69	0.69	-164.19	-164.19
2090.00	48.63	88.56	2.54	0.69	0.69	-164.75	-164.75
2095.00	48.66	88.60	2.54	0.68	0.68	-165.30	-165.30
2100.00	48.70	88.65	2.53	0.68	0.68	-165.86	-165.86
2105.00	48.73	88.69	2.53	0.68	0.68	-166.41	-166.41
2110.00	48.76	88.74	2.52	0.68	0.68	-166.97	-166.97
2115.00	48.79	88.78	2.52	0.68	0.68	-167.53	-167.53
2120.00	48.82	88.83	2.51	0.68	0.68	-168.08	-168.08
2125.00	48.85	88.87	2.51	0.68	0.68	-168.64	-168.64
2130.00	48.88	88.92	2.50	0.68	0.68	-169.19	-169.19
2135.00	48.91	88.96	2.50	0.67	0.67	-169.75	-169.75
2140.00	48.94	89.01	2.50	0.67	0.67	-170.31	-170.31
2145.00	48.97	89.05	2.49	0.67	0.67	-170.86	-170.86
2150.00	49.00	89.10	2.49	0.67	0.67	-171.42	-171.42
2155.00	49.03	89.14	2.48	0.67	0.67	-171.98	-171.98
2160.00	49.06	89.19	2.48	0.67	0.67	-172.53	-172.53
2165.00	49.10	89.23	2.47	0.67	0.67	-173.09	-173.09
2170.00	49.13	89.27	2.47	0.67	0.67	-173.65	-173.65
2175.00	49.16	89.32	2.46	0.67	0.67	-174.21	-174.21
2180.00	49.19	89.36	2.46	0.66	0.66	-174.76	-174.76
2185.00	49.22	89.41	2.46	0.66	0.66	-175.32	-175.32
2190.00	49.25	89.45	2.45	0.66	0.66	-175.88	-175.88
2195.00	49.28	89.49	2.45	0.66	0.66	-176.43	-176.43
2200.00	49.31	89.54	2.44	0.66	0.66	-176.99	-176.99

2205.00	49.34	89.58	2.44	0.66	0.66	-177.55	-177.55
2210.00	49.37	89.63	2.43	0.66	0.66	-178.11	-178.11
2215.00	49.40	89.67	2.43	0.66	0.66	-178.67	-178.67
2220.00	49.43	89.71	2.42	0.65	0.65	-179.22	-179.22
2225.00	49.46	89.76	2.42	0.65	0.65	-179.78	-179.78
2230.00	49.49	89.80	2.42	0.65	0.65	-180.34	-180.34
2235.00	49.52	89.84	2.41	0.65	0.65	-180.90	-180.90
2240.00	49.55	89.88	2.41	0.65	0.65	-181.46	-181.46
2245.00	49.58	89.93	2.40	0.65	0.65	-182.01	-182.01
2250.00	49.61	89.97	2.40	0.65	0.65	-182.57	-182.57
2255.00	49.63	90.01	2.40	0.65	0.65	-183.13	-183.13
2260.00	49.66	90.06	2.39	0.65	0.65	-183.69	-183.69
2265.00	49.69	90.10	2.39	0.64	0.64	-184.25	-184.25
2270.00	49.72	90.14	2.38	0.64	0.64	-184.81	-184.81
2275.00	49.75	90.18	2.38	0.64	0.64	-185.36	-185.36
2280.00	49.78	90.23	2.37	0.64	0.64	-185.92	-185.92
2285.00	49.81	90.27	2.37	0.64	0.64	-186.48	-186.48
2290.00	49.84	90.31	2.37	0.64	0.64	-187.04	-187.04
2295.00	49.87	90.35	2.36	0.64	0.64	-187.60	-187.60
2300.00	49.90	90.40	2.36	0.64	0.64	-188.16	-188.16
2305.00	49.93	90.44	2.35	0.64	0.64	-188.72	-188.72
2310.00	49.96	90.48	2.35	0.63	0.63	-189.28	-189.28
2315.00	49.99	90.52	2.35	0.63	0.63	-189.84	-189.84
2320.00	50.01	90.56	2.34	0.63	0.63	-190.40	-190.40
2325.00	50.04	90.60	2.34	0.63	0.63	-190.96	-190.96
2330.00	50.07	90.65	2.33	0.63	0.63	-191.52	-191.52
2335.00	50.10	90.69	2.33	0.63	0.63	-192.08	-192.08
2340.00	50.13	90.73	2.33	0.63	0.63	-192.63	-192.63
2345.00	50.16	90.77	2.32	0.63	0.63	-193.19	-193.19
2350.00	50.19	90.81	2.32	0.63	0.63	-193.75	-193.75
2355.00	50.22	90.85	2.31	0.62	0.62	-194.31	-194.31
2360.00	50.24	90.89	2.31	0.62	0.62	-194.87	-194.87
2365.00	50.27	90.94	2.31	0.62	0.62	-195.43	-195.43
2370.00	50.30	90.98	2.30	0.62	0.62	-195.99	-195.99
2375.00	50.33	91.02	2.30	0.62	0.62	-196.55	-196.55
2380.00	50.36	91.06	2.30	0.62	0.62	-197.12	-197.12
2385.00	50.39	91.10	2.29	0.62	0.62	-197.68	-197.68
2390.00	50.41	91.14	2.29	0.62	0.62	-198.24	-198.24
2395.00	50.44	91.18	2.28	0.62	0.62	-198.80	-198.80
2400.00	50.47	91.22	2.28	0.62	0.62	-199.36	-199.36
2405.00	50.50	91.26	2.28	0.61	0.61	-199.92	-199.92
2410.00	50.53	91.30	2.27	0.61	0.61	-200.48	-200.48
2415.00	50.56	91.34	2.27	0.61	0.61	-201.04	-201.04
2420.00	50.58	91.38	2.27	0.61	0.61	-201.60	-201.60
2425.00	50.61	91.42	2.26	0.61	0.61	-202.16	-202.16
2430.00	50.64	91.46	2.26	0.61	0.61	-202.72	-202.72
2435.00	50.67	91.50	2.25	0.61	0.61	-203.28	-203.28
2440.00	50.70	91.54	2.25	0.61	0.61	-203.84	-203.84
2445.00	50.72	91.58	2.25	0.61	0.61	-204.40	-204.40
2450.00	50.75	91.62	2.24	0.61	0.61	-204.97	-204.97

2455.00	50.78	91.66	2.24	0.60	0.60	-205.53	-205.53
2460.00	50.81	91.70	2.24	0.60	0.60	-206.09	-206.09
2465.00	50.83	91.74	2.23	0.60	0.60	-206.65	-206.65
2470.00	50.86	91.78	2.23	0.60	0.60	-207.21	-207.21
2475.00	50.89	91.82	2.23	0.60	0.60	-207.77	-207.77
2480.00	50.92	91.86	2.22	0.60	0.60	-208.33	-208.33
2485.00	50.94	91.90	2.22	0.60	0.60	-208.90	-208.90
2490.00	50.97	91.94	2.22	0.60	0.60	-209.46	-209.46
2495.00	51.00	91.98	2.21	0.60	0.60	-210.02	-210.02
2500.00	51.03	92.02	2.21	0.60	0.60	-210.58	-210.58
2505.00	51.05	92.06	2.20	0.60	0.60	-211.14	-211.14
2510.00	51.08	92.10	2.20	0.59	0.59	-211.71	-211.71
2515.00	51.11	92.14	2.20	0.59	0.59	-212.27	-212.27
2520.00	51.14	92.17	2.19	0.59	0.59	-212.83	-212.83
2525.00	51.16	92.21	2.19	0.59	0.59	-213.39	-213.39
2530.00	51.19	92.25	2.19	0.59	0.59	-213.95	-213.95
2535.00	51.22	92.29	2.18	0.59	0.59	-214.52	-214.52
2540.00	51.24	92.33	2.18	0.59	0.59	-215.08	-215.08
2545.00	51.27	92.37	2.18	0.59	0.59	-215.64	-215.64
2550.00	51.30	92.41	2.17	0.59	0.59	-216.20	-216.20
2555.00	51.33	92.45	2.17	0.59	0.59	-216.77	-216.77
2560.00	51.35	92.48	2.17	0.59	0.59	-217.33	-217.33
2565.00	51.38	92.52	2.16	0.58	0.58	-217.89	-217.89
2570.00	51.41	92.56	2.16	0.58	0.58	-218.46	-218.46
2575.00	51.43	92.60	2.16	0.58	0.58	-219.02	-219.02
2580.00	51.46	92.64	2.15	0.58	0.58	-219.58	-219.58
2585.00	51.49	92.68	2.15	0.58	0.58	-220.14	-220.14
2590.00	51.51	92.71	2.15	0.58	0.58	-220.71	-220.71
2595.00	51.54	92.75	2.14	0.58	0.58	-221.27	-221.27
2600.00	51.57	92.79	2.14	0.58	0.58	-221.83	-221.83
2605.00	51.59	92.83	2.14	0.58	0.58	-222.40	-222.40
2610.00	51.62	92.86	2.13	0.58	0.58	-222.96	-222.96
2615.00	51.65	92.90	2.13	0.58	0.58	-223.52	-223.52
2620.00	51.67	92.94	2.13	0.57	0.57	-224.09	-224.09
2625.00	51.70	92.98	2.13	0.57	0.57	-224.65	-224.65
2630.00	51.73	93.02	2.12	0.57	0.57	-225.21	-225.21
2635.00	51.75	93.05	2.12	0.57	0.57	-225.78	-225.78
2640.00	51.78	93.09	2.12	0.57	0.57	-226.34	-226.34
2645.00	51.80	93.13	2.11	0.57	0.57	-226.90	-226.90
2650.00	51.83	93.17	2.11	0.57	0.57	-227.47	-227.47
2655.00	51.86	93.20	2.11	0.57	0.57	-228.03	-228.03
2660.00	51.88	93.24	2.10	0.57	0.57	-228.60	-228.60
2665.00	51.91	93.28	2.10	0.57	0.57	-229.16	-229.16
2670.00	51.94	93.31	2.10	0.57	0.57	-229.72	-229.72
2675.00	51.96	93.35	2.09	0.57	0.57	-230.29	-230.29
2680.00	51.99	93.39	2.09	0.56	0.56	-230.85	-230.85
2685.00	52.01	93.43	2.09	0.56	0.56	-231.42	-231.42
2690.00	52.04	93.46	2.08	0.56	0.56	-231.98	-231.98
2695.00	52.07	93.50	2.08	0.56	0.56	-232.54	-232.54
2700.00	52.09	93.54	2.08	0.56	0.56	-233.11	-233.11

2705.00	52.12	93.57	2.08	0.56	0.56	-233.67	-233.67
2710.00	52.14	93.61	2.07	0.56	0.56	-234.24	-234.24
2715.00	52.17	93.65	2.07	0.56	0.56	-234.80	-234.80
2720.00	52.19	93.68	2.07	0.56	0.56	-235.37	-235.37
2725.00	52.22	93.72	2.06	0.56	0.56	-235.93	-235.93
2730.00	52.25	93.75	2.06	0.56	0.56	-236.49	-236.49
2735.00	52.27	93.79	2.06	0.56	0.56	-237.06	-237.06
2740.00	52.30	93.83	2.05	0.55	0.55	-237.62	-237.62
2745.00	52.32	93.86	2.05	0.55	0.55	-238.19	-238.19
2750.00	52.35	93.90	2.05	0.55	0.55	-238.75	-238.75
2755.00	52.37	93.94	2.05	0.55	0.55	-239.32	-239.32
2760.00	52.40	93.97	2.04	0.55	0.55	-239.88	-239.88
2765.00	52.42	94.01	2.04	0.55	0.55	-240.45	-240.45
2770.00	52.45	94.04	2.04	0.55	0.55	-241.01	-241.01
2775.00	52.48	94.08	2.03	0.55	0.55	-241.58	-241.58
2780.00	52.50	94.12	2.03	0.55	0.55	-242.14	-242.14
2785.00	52.53	94.15	2.03	0.55	0.55	-242.71	-242.71
2790.00	52.55	94.19	2.03	0.55	0.55	-243.27	-243.27
2795.00	52.58	94.22	2.02	0.55	0.55	-243.84	-243.84
2800.00	52.60	94.26	2.02	0.55	0.55	-244.40	-244.40
2805.00	52.63	94.29	2.02	0.54	0.54	-244.97	-244.97
2810.00	52.65	94.33	2.01	0.54	0.54	-245.54	-245.54
2815.00	52.68	94.37	2.01	0.54	0.54	-246.10	-246.10
2820.00	52.70	94.40	2.01	0.54	0.54	-246.67	-246.67
2825.00	52.73	94.44	2.01	0.54	0.54	-247.23	-247.23
2830.00	52.75	94.47	2.00	0.54	0.54	-247.80	-247.80
2835.00	52.78	94.51	2.00	0.54	0.54	-248.36	-248.36
2840.00	52.80	94.54	2.00	0.54	0.54	-248.93	-248.93
2845.00	52.83	94.58	1.99	0.54	0.54	-249.50	-249.50
2850.00	52.85	94.61	1.99	0.54	0.54	-250.06	-250.06
2855.00	52.88	94.65	1.99	0.54	0.54	-250.63	-250.63
2860.00	52.90	94.68	1.99	0.54	0.54	-251.19	-251.19
2865.00	52.93	94.72	1.98	0.54	0.54	-251.76	-251.76
2870.00	52.95	94.75	1.98	0.53	0.53	-252.33	-252.33
2875.00	52.98	94.79	1.98	0.53	0.53	-252.89	-252.89
2880.00	53.00	94.82	1.98	0.53	0.53	-253.46	-253.46

Notes to User

Only values shown blue to be edited

Sheet only for england and wales

In M5-D	J0	J1	J2	Cr	In (MT-D/M5-D)	MT-D/M5-D
2.21	0.1699	0.0028	0.000114	0.205014	0.636605	1.890053
2.39	0.1699	0.0028	0.000114	0.214282	0.665383	1.945235
2.51	0.1644	0.005831	-0.00013	0.215837	0.670212	1.954651
2.60	0.1644	0.005831	-0.00013	0.218417	0.678221	1.97037
2.66	0.1644	0.005831	-0.00013	0.220337	0.684185	1.982156
2.71	0.1644	0.005831	-0.00013	0.22182	0.688788	1.9913
2.76	0.1644	0.005831	-0.00013	0.222992	0.692427	1.998561
2.80	0.1644	0.005831	-0.00013	0.223934	0.695354	2.004418
2.83	0.1644	0.005831	-0.00013	0.224701	0.697734	2.009195
2.86	0.1644	0.005831	-0.00013	0.225329	0.699684	2.013116
2.89	0.1644	0.005831	-0.00013	0.225845	0.701287	2.016345
2.92	0.1644	0.005831	-0.00013	0.226269	0.702605	2.019005
2.94	0.1644	0.005831	-0.00013	0.226617	0.703686	2.021189
2.96	0.1644	0.005831	-0.00013	0.226901	0.704567	2.02297
2.98	0.1644	0.005831	-0.00013	0.22713	0.705277	2.024408
3.00	0.1644	0.005831	-0.00013	0.227311	0.70584	2.025548
3.01	0.1644	0.005831	-0.00013	0.227451	0.706275	2.02643
3.03	0.1644	0.005831	-0.00013	0.227556	0.706599	2.027085
3.05	0.1644	0.005831	-0.00013	0.227628	0.706823	2.02754
3.06	0.1644	0.005831	-0.00013	0.227672	0.70696	2.027818
3.07	0.1644	0.005831	-0.00013	0.227691	0.707019	2.027937
3.09	0.1644	0.005831	-0.00013	0.227687	0.707008	2.027915
3.10	0.1644	0.005831	-0.00013	0.227664	0.706934	2.027766
3.11	0.1644	0.005831	-0.00013	0.227622	0.706804	2.027501
3.12	0.1644	0.005831	-0.00013	0.227563	0.706622	2.027132
3.13	0.1644	0.005831	-0.00013	0.227489	0.706393	2.026668
3.14	0.1644	0.005831	-0.00013	0.227402	0.706121	2.026117
3.15	0.1644	0.005831	-0.00013	0.227302	0.70581	2.025488
3.16	0.1644	0.005831	-0.00013	0.22719	0.705464	2.024786
3.17	0.1644	0.005831	-0.00013	0.227068	0.705084	2.024017
3.18	0.1644	0.005831	-0.00013	0.226936	0.704674	2.023188
3.19	0.1644	0.005831	-0.00013	0.226795	0.704236	2.022302
3.20	0.1644	0.005831	-0.00013	0.226645	0.703772	2.021364
3.21	0.1644	0.005831	-0.00013	0.226488	0.703284	2.020377
3.21	0.1644	0.005831	-0.00013	0.226324	0.702774	2.019346
3.22	0.1644	0.005831	-0.00013	0.226153	0.702243	2.018274
3.23	0.1644	0.005831	-0.00013	0.225975	0.701692	2.017163
3.24	0.1644	0.005831	-0.00013	0.225792	0.701124	2.016017
3.24	0.1644	0.005831	-0.00013	0.225604	0.700538	2.014837

3.25	0.1644	0.005831	-0.00013	0.22541	0.699937	2.013626
3.26	0.1644	0.005831	-0.00013	0.225212	0.699321	2.012386
3.26	0.1644	0.005831	-0.00013	0.225009	0.698691	2.011119
3.27	0.1644	0.005831	-0.00013	0.224802	0.698049	2.009827
3.28	0.1644	0.005831	-0.00013	0.224591	0.697394	2.008511
3.28	0.1644	0.005831	-0.00013	0.224377	0.696727	2.007173
3.29	0.1644	0.005831	-0.00013	0.224158	0.69605	2.005815
3.30	0.1644	0.005831	-0.00013	0.223937	0.695363	2.004437
3.30	0.1644	0.005831	-0.00013	0.223713	0.694666	2.00304
3.31	0.1644	0.005831	-0.00013	0.223485	0.69396	2.001627
3.31	0.1644	0.005831	-0.00013	0.223255	0.693246	2.000198
3.32	0.1644	0.005831	-0.00013	0.223023	0.692524	1.998754
3.32	0.1644	0.005831	-0.00013	0.222788	0.691794	1.997296
3.33	0.1644	0.005831	-0.00013	0.222551	0.691057	1.995825
3.33	0.1644	0.005831	-0.00013	0.222311	0.690314	1.994341
3.34	0.1644	0.005831	-0.00013	0.222069	0.689564	1.992846
3.34	0.1644	0.005831	-0.00013	0.221826	0.688807	1.991339
3.35	0.1644	0.005831	-0.00013	0.221581	0.688046	1.989823
3.35	0.1644	0.005831	-0.00013	0.221334	0.687279	1.988297
3.36	0.1644	0.005831	-0.00013	0.221085	0.686506	1.986762
3.36	0.1644	0.005831	-0.00013	0.220835	0.685729	1.985219
3.37	0.1644	0.005831	-0.00013	0.220583	0.684947	1.983667
3.37	0.1644	0.005831	-0.00013	0.22033	0.684161	1.982109
3.38	0.1644	0.005831	-0.00013	0.220075	0.683371	1.980543
3.38	0.1644	0.005831	-0.00013	0.219819	0.682577	1.978971
3.38	0.1644	0.005831	-0.00013	0.219563	0.681779	1.977393
3.39	0.1644	0.005831	-0.00013	0.219304	0.680978	1.975809
3.39	0.1644	0.005831	-0.00013	0.219045	0.680173	1.974219
3.40	0.1644	0.005831	-0.00013	0.218785	0.679365	1.972625
3.40	0.1644	0.005831	-0.00013	0.218524	0.678554	1.971026
3.40	0.1644	0.005831	-0.00013	0.218262	0.677741	1.969423
3.41	0.1644	0.005831	-0.00013	0.217999	0.676925	1.967816
3.41	0.1644	0.005831	-0.00013	0.217735	0.676106	1.966206
3.42	0.1644	0.005831	-0.00013	0.217471	0.675284	1.964592
3.42	0.1644	0.005831	-0.00013	0.217206	0.674461	1.962974
3.42	0.1644	0.005831	-0.00013	0.21694	0.673635	1.961354
3.43	0.1644	0.005831	-0.00013	0.216673	0.672807	1.959731
3.43	0.1644	0.005831	-0.00013	0.216406	0.671978	1.958106
3.43	0.1644	0.005831	-0.00013	0.216138	0.671146	1.956478
3.44	0.2644	-0.00162	3.15E-06	0.217046	0.673965	1.962001
3.44	0.2644	-0.00162	3.15E-06	0.216895	0.673496	1.961081
3.44	0.2644	-0.00162	3.15E-06	0.216745	0.673031	1.960169
3.45	0.2644	-0.00162	3.15E-06	0.216597	0.672571	1.959267
3.45	0.2644	-0.00162	3.15E-06	0.21645	0.672115	1.958374
3.45	0.2644	-0.00162	3.15E-06	0.216305	0.671663	1.95749
3.46	0.2644	-0.00162	3.15E-06	0.216161	0.671215	1.956614
3.46	0.2644	-0.00162	3.15E-06	0.216018	0.670772	1.955746
3.46	0.2644	-0.00162	3.15E-06	0.215876	0.670332	1.954887
3.47	0.2644	-0.00162	3.15E-06	0.215736	0.669897	1.954035
3.47	0.2644	-0.00162	3.15E-06	0.215597	0.669465	1.953192

3.47	0.2644	-0.00162	3.15E-06	0.215459	0.669037	1.952356
3.48	0.2644	-0.00162	3.15E-06	0.215322	0.668613	1.951528
3.48	0.2644	-0.00162	3.15E-06	0.215187	0.668192	1.950708
3.48	0.2644	-0.00162	3.15E-06	0.215053	0.667775	1.949894
3.48	0.2644	-0.00162	3.15E-06	0.214919	0.667362	1.949088
3.49	0.2644	-0.00162	3.15E-06	0.214787	0.666951	1.948289
3.49	0.2644	-0.00162	3.15E-06	0.214656	0.666545	1.947496
3.49	0.2644	-0.00162	3.15E-06	0.214526	0.666141	1.946711
3.50	0.2644	-0.00162	3.15E-06	0.214398	0.665741	1.945931
3.50	0.2644	-0.00162	3.15E-06	0.21427	0.665344	1.945159
3.50	0.2644	-0.00162	3.15E-06	0.214143	0.66495	1.944393
3.50	0.2644	-0.00162	3.15E-06	0.214017	0.664559	1.943633
3.51	0.2644	-0.00162	3.15E-06	0.213892	0.664171	1.942879
3.51	0.2644	-0.00162	3.15E-06	0.213768	0.663786	1.942131
3.51	0.2644	-0.00162	3.15E-06	0.213645	0.663404	1.941389
3.51	0.2644	-0.00162	3.15E-06	0.213523	0.663025	1.940653
3.52	0.2644	-0.00162	3.15E-06	0.213402	0.662648	1.939923
3.52	0.2644	-0.00162	3.15E-06	0.213281	0.662275	1.939198
3.52	0.2644	-0.00162	3.15E-06	0.213162	0.661904	1.938479
3.52	0.2644	-0.00162	3.15E-06	0.213043	0.661535	1.937765
3.53	0.2644	-0.00162	3.15E-06	0.212925	0.66117	1.937057
3.53	0.2644	-0.00162	3.15E-06	0.212809	0.660807	1.936354
3.53	0.2644	-0.00162	3.15E-06	0.212692	0.660446	1.935656
3.53	0.2644	-0.00162	3.15E-06	0.212577	0.660088	1.934963
3.54	0.2644	-0.00162	3.15E-06	0.212463	0.659733	1.934276
3.54	0.2644	-0.00162	3.15E-06	0.212349	0.65938	1.933593
3.54	0.2644	-0.00162	3.15E-06	0.212236	0.659029	1.932915
3.54	0.2644	-0.00162	3.15E-06	0.212124	0.658681	1.932242
3.55	0.2644	-0.00162	3.15E-06	0.212013	0.658335	1.931573
3.55	0.2644	-0.00162	3.15E-06	0.211902	0.657991	1.93091
3.55	0.2644	-0.00162	3.15E-06	0.211792	0.65765	1.93025
3.55	0.2644	-0.00162	3.15E-06	0.211683	0.65731	1.929596
3.55	0.2644	-0.00162	3.15E-06	0.211574	0.656973	1.928945
3.56	0.2644	-0.00162	3.15E-06	0.211466	0.656639	1.928299
3.56	0.2644	-0.00162	3.15E-06	0.211359	0.656306	1.927658
3.56	0.2644	-0.00162	3.15E-06	0.211253	0.655975	1.92702
3.56	0.2644	-0.00162	3.15E-06	0.211147	0.655646	1.926387
3.57	0.2644	-0.00162	3.15E-06	0.211042	0.65532	1.925758
3.57	0.2644	-0.00162	3.15E-06	0.210937	0.654995	1.925133
3.57	0.2644	-0.00162	3.15E-06	0.210833	0.654673	1.924512
3.57	0.2644	-0.00162	3.15E-06	0.21073	0.654352	1.923895
3.57	0.2644	-0.00162	3.15E-06	0.210627	0.654033	1.923282
3.58	0.2644	-0.00162	3.15E-06	0.210525	0.653716	1.922673
3.58	0.2644	-0.00162	3.15E-06	0.210424	0.653401	1.922067
3.58	0.2644	-0.00162	3.15E-06	0.210323	0.653088	1.921466
3.58	0.2644	-0.00162	3.15E-06	0.210223	0.652777	1.920868
3.58	0.2644	-0.00162	3.15E-06	0.210123	0.652467	1.920273
3.59	0.2644	-0.00162	3.15E-06	0.210024	0.65216	1.919682
3.59	0.2644	-0.00162	3.15E-06	0.209925	0.651854	1.919095
3.59	0.2644	-0.00162	3.15E-06	0.209827	0.65155	1.918511

3.59	0.2644	-0.00162	3.15E-06	0.20973	0.651247	1.917931
3.59	0.2644	-0.00162	3.15E-06	0.209633	0.650946	1.917354
3.60	0.2644	-0.00162	3.15E-06	0.209537	0.650647	1.916781
3.60	0.2644	-0.00162	3.15E-06	0.209441	0.650349	1.91621
3.60	0.2644	-0.00162	3.15E-06	0.209346	0.650054	1.915643
3.60	0.2644	-0.00162	3.15E-06	0.209251	0.649759	1.91508
3.60	0.2644	-0.00162	3.15E-06	0.209157	0.649467	1.914519
3.60	0.2644	-0.00162	3.15E-06	0.209063	0.649175	1.913962
3.61	0.2644	-0.00162	3.15E-06	0.208969	0.648886	1.913408
3.61	0.2644	-0.00162	3.15E-06	0.208877	0.648598	1.912857
3.61	0.2644	-0.00162	3.15E-06	0.208784	0.648311	1.912309
3.61	0.2644	-0.00162	3.15E-06	0.208693	0.648026	1.911763
3.61	0.2644	-0.00162	3.15E-06	0.208601	0.647742	1.911221
3.62	0.2644	-0.00162	3.15E-06	0.20851	0.64746	1.910682
3.62	0.2644	-0.00162	3.15E-06	0.20842	0.64718	1.910146
3.62	0.2644	-0.00162	3.15E-06	0.20833	0.6469	1.909613
3.62	0.2644	-0.00162	3.15E-06	0.208241	0.646623	1.909082
3.62	0.2644	-0.00162	3.15E-06	0.208152	0.646346	1.908554
3.62	0.2644	-0.00162	3.15E-06	0.208063	0.646071	1.908029
3.63	0.2644	-0.00162	3.15E-06	0.207975	0.645797	1.907507
3.63	0.2644	-0.00162	3.15E-06	0.207887	0.645525	1.906988
3.63	0.2644	-0.00162	3.15E-06	0.2078	0.645254	1.906471
3.63	0.2644	-0.00162	3.15E-06	0.207713	0.644984	1.905957
3.63	0.2644	-0.00162	3.15E-06	0.207627	0.644716	1.905445
3.63	0.2644	-0.00162	3.15E-06	0.20754	0.644449	1.904936
3.64	0.2644	-0.00162	3.15E-06	0.207455	0.644183	1.90443
3.64	0.2644	-0.00162	3.15E-06	0.20737	0.643918	1.903926
3.64	0.2644	-0.00162	3.15E-06	0.207285	0.643655	1.903425
3.64	0.2644	-0.00162	3.15E-06	0.2072	0.643393	1.902926
3.64	0.2644	-0.00162	3.15E-06	0.207116	0.643132	1.902429
3.64	0.2644	-0.00162	3.15E-06	0.207033	0.642872	1.901935
3.65	0.2644	-0.00162	3.15E-06	0.20695	0.642613	1.901444
3.65	0.2644	-0.00162	3.15E-06	0.206867	0.642356	1.900955
3.65	0.2644	-0.00162	3.15E-06	0.206784	0.6421	1.900468
3.65	0.2644	-0.00162	3.15E-06	0.206702	0.641845	1.899983
3.65	0.2644	-0.00162	3.15E-06	0.20662	0.641591	1.899501
3.65	0.2644	-0.00162	3.15E-06	0.206539	0.641338	1.899021
3.65	0.2644	-0.00162	3.15E-06	0.206458	0.641087	1.898543
3.66	0.2644	-0.00162	3.15E-06	0.206377	0.640836	1.898068
3.66	0.2644	-0.00162	3.15E-06	0.206297	0.640587	1.897595
3.66	0.2644	-0.00162	3.15E-06	0.206217	0.640339	1.897124
3.66	0.2644	-0.00162	3.15E-06	0.206137	0.640092	1.896655
3.66	0.2644	-0.00162	3.15E-06	0.206058	0.639846	1.896188
3.66	0.2644	-0.00162	3.15E-06	0.205979	0.6396	1.895723
3.66	0.2644	-0.00162	3.15E-06	0.205901	0.639356	1.895261
3.67	0.2644	-0.00162	3.15E-06	0.205822	0.639113	1.8948
3.67	0.2644	-0.00162	3.15E-06	0.205744	0.638872	1.894342
3.67	0.2644	-0.00162	3.15E-06	0.205667	0.638631	1.893886
3.67	0.2644	-0.00162	3.15E-06	0.20559	0.638391	1.893431
3.67	0.2644	-0.00162	3.15E-06	0.205513	0.638152	1.892979

3.67	0.2644	-0.00162	3.15E-06	0.205436	0.637914	1.892529
3.67	0.2644	-0.00162	3.15E-06	0.20536	0.637677	1.89208
3.68	0.2644	-0.00162	3.15E-06	0.205284	0.637441	1.891634
3.68	0.2644	-0.00162	3.15E-06	0.205208	0.637206	1.891189
3.68	0.2644	-0.00162	3.15E-06	0.205133	0.636972	1.890747
3.68	0.2644	-0.00162	3.15E-06	0.205058	0.636739	1.890306
3.68	0.2644	-0.00162	3.15E-06	0.204983	0.636507	1.889867
3.68	0.2644	-0.00162	3.15E-06	0.204908	0.636275	1.889431
3.68	0.2644	-0.00162	3.15E-06	0.204834	0.636045	1.888995
3.69	0.2644	-0.00162	3.15E-06	0.20476	0.635816	1.888562
3.69	0.2644	-0.00162	3.15E-06	0.204687	0.635587	1.888131
3.69	0.2644	-0.00162	3.15E-06	0.204613	0.63536	1.887701
3.69	0.2644	-0.00162	3.15E-06	0.20454	0.635133	1.887273
3.69	0.2644	-0.00162	3.15E-06	0.204468	0.634907	1.886847
3.69	0.2644	-0.00162	3.15E-06	0.204395	0.634682	1.886423
3.69	0.2644	-0.00162	3.15E-06	0.204323	0.634458	1.886
3.70	0.2644	-0.00162	3.15E-06	0.204251	0.634235	1.885579
3.70	0.2644	-0.00162	3.15E-06	0.20418	0.634013	1.88516
3.70	0.2644	-0.00162	3.15E-06	0.204108	0.633791	1.884742
3.70	0.2644	-0.00162	3.15E-06	0.204037	0.63357	1.884326
3.70	0.2644	-0.00162	3.15E-06	0.203966	0.63335	1.883912
3.70	0.2644	-0.00162	3.15E-06	0.203896	0.633131	1.883499
3.70	0.2644	-0.00162	3.15E-06	0.203826	0.632913	1.883088
3.70	0.2644	-0.00162	3.15E-06	0.203756	0.632696	1.882679
3.71	0.2644	-0.00162	3.15E-06	0.203686	0.632479	1.882271
3.71	0.2644	-0.00162	3.15E-06	0.203616	0.632263	1.881865
3.71	0.2644	-0.00162	3.15E-06	0.203547	0.632048	1.88146
3.71	0.2644	-0.00162	3.15E-06	0.203478	0.631834	1.881057
3.71	0.2644	-0.00162	3.15E-06	0.203409	0.631621	1.880656
3.71	0.2644	-0.00162	3.15E-06	0.203341	0.631408	1.880256
3.71	0.2644	-0.00162	3.15E-06	0.203273	0.631196	1.879857
3.71	0.2644	-0.00162	3.15E-06	0.203205	0.630985	1.87946
3.72	0.2644	-0.00162	3.15E-06	0.203137	0.630774	1.879065
3.72	0.2644	-0.00162	3.15E-06	0.203069	0.630565	1.878671
3.72	0.2644	-0.00162	3.15E-06	0.203002	0.630356	1.878278
3.72	0.2644	-0.00162	3.15E-06	0.202935	0.630147	1.877887
3.72	0.2644	-0.00162	3.15E-06	0.202868	0.62994	1.877498
3.72	0.2644	-0.00162	3.15E-06	0.202802	0.629733	1.87711
3.72	0.2644	-0.00162	3.15E-06	0.202735	0.629527	1.876723
3.72	0.2644	-0.00162	3.15E-06	0.202669	0.629322	1.876338
3.72	0.2644	-0.00162	3.15E-06	0.202603	0.629117	1.875954
3.73	0.2644	-0.00162	3.15E-06	0.202537	0.628913	1.875571
3.73	0.2644	-0.00162	3.15E-06	0.202472	0.62871	1.87519
3.73	0.2644	-0.00162	3.15E-06	0.202407	0.628507	1.87481
3.73	0.2644	-0.00162	3.15E-06	0.202342	0.628306	1.874432
3.73	0.2644	-0.00162	3.15E-06	0.202277	0.628104	1.874055
3.73	0.2644	-0.00162	3.15E-06	0.202212	0.627904	1.873679
3.73	0.2644	-0.00162	3.15E-06	0.202148	0.627704	1.873305
3.73	0.2644	-0.00162	3.15E-06	0.202084	0.627505	1.872932
3.74	0.2644	-0.00162	3.15E-06	0.20202	0.627306	1.87256

3.74	0.2644	-0.00162	3.15E-06	0.201956	0.627109	1.872189
3.74	0.2644	-0.00162	3.15E-06	0.201893	0.626911	1.87182
3.74	0.2644	-0.00162	3.15E-06	0.201829	0.626715	1.871452
3.74	0.2644	-0.00162	3.15E-06	0.201766	0.626519	1.871086
3.74	0.2644	-0.00162	3.15E-06	0.201703	0.626324	1.87072
3.74	0.2644	-0.00162	3.15E-06	0.201641	0.626129	1.870356
3.74	0.2644	-0.00162	3.15E-06	0.201578	0.625935	1.869993
3.74	0.2644	-0.00162	3.15E-06	0.201516	0.625741	1.869632
3.75	0.2644	-0.00162	3.15E-06	0.201454	0.625549	1.869271
3.75	0.2644	-0.00162	3.15E-06	0.201392	0.625356	1.868912
3.75	0.2644	-0.00162	3.15E-06	0.20133	0.625165	1.868554
3.75	0.2644	-0.00162	3.15E-06	0.201269	0.624974	1.868197
3.75	0.2644	-0.00162	3.15E-06	0.201207	0.624783	1.867841
3.75	0.2644	-0.00162	3.15E-06	0.201146	0.624594	1.867487
3.75	0.2644	-0.00162	3.15E-06	0.201085	0.624405	1.867134
3.75	0.2644	-0.00162	3.15E-06	0.201025	0.624216	1.866782
3.75	0.2644	-0.00162	3.15E-06	0.200964	0.624028	1.866431
3.75	0.2644	-0.00162	3.15E-06	0.200904	0.62384	1.866081
3.76	0.2644	-0.00162	3.15E-06	0.200844	0.623654	1.865732
3.76	0.2644	-0.00162	3.15E-06	0.200784	0.623467	1.865385
3.76	0.2644	-0.00162	3.15E-06	0.200724	0.623282	1.865038
3.76	0.2644	-0.00162	3.15E-06	0.200664	0.623096	1.864693
3.76	0.2644	-0.00162	3.15E-06	0.200605	0.622912	1.864349
3.76	0.2644	-0.00162	3.15E-06	0.200545	0.622728	1.864006
3.76	0.2644	-0.00162	3.15E-06	0.200486	0.622544	1.863664
3.76	0.2644	-0.00162	3.15E-06	0.200427	0.622361	1.863323
3.76	0.2644	-0.00162	3.15E-06	0.200369	0.622179	1.862983
3.76	0.2644	-0.00162	3.15E-06	0.20031	0.621997	1.862644
3.77	0.2644	-0.00162	3.15E-06	0.200252	0.621816	1.862306
3.77	0.2644	-0.00162	3.15E-06	0.200194	0.621635	1.86197
3.77	0.2644	-0.00162	3.15E-06	0.200135	0.621455	1.861634
3.77	0.2644	-0.00162	3.15E-06	0.200078	0.621275	1.8613
3.77	0.2644	-0.00162	3.15E-06	0.20002	0.621096	1.860966
3.77	0.2644	-0.00162	3.15E-06	0.199962	0.620917	1.860634
3.77	0.2644	-0.00162	3.15E-06	0.199905	0.620739	1.860302
3.77	0.2644	-0.00162	3.15E-06	0.199848	0.620561	1.859972
3.77	0.2644	-0.00162	3.15E-06	0.199791	0.620384	1.859642
3.77	0.2644	-0.00162	3.15E-06	0.199734	0.620207	1.859314
3.78	0.2644	-0.00162	3.15E-06	0.199677	0.620031	1.858986
3.78	0.2644	-0.00162	3.15E-06	0.19962	0.619856	1.85866
3.78	0.2644	-0.00162	3.15E-06	0.199564	0.61968	1.858334
3.78	0.2644	-0.00162	3.15E-06	0.199508	0.619506	1.85801
3.78	0.2644	-0.00162	3.15E-06	0.199452	0.619332	1.857686
3.78	0.2644	-0.00162	3.15E-06	0.199396	0.619158	1.857363
3.78	0.2644	-0.00162	3.15E-06	0.19934	0.618985	1.857042
3.78	0.2644	-0.00162	3.15E-06	0.199284	0.618812	1.856721
3.78	0.2644	-0.00162	3.15E-06	0.199229	0.61864	1.856401
3.78	0.2644	-0.00162	3.15E-06	0.199174	0.618468	1.856083
3.79	0.2644	-0.00162	3.15E-06	0.199119	0.618297	1.855765
3.79	0.2644	-0.00162	3.15E-06	0.199064	0.618126	1.855448

3.79	0.2644	-0.00162	3.15E-06	0.199009	0.617956	1.855132
3.79	0.2644	-0.00162	3.15E-06	0.198954	0.617786	1.854817
3.79	0.2644	-0.00162	3.15E-06	0.198899	0.617616	1.854502
3.79	0.2644	-0.00162	3.15E-06	0.198845	0.617447	1.854189
3.79	0.2644	-0.00162	3.15E-06	0.198791	0.617279	1.853877
3.79	0.2644	-0.00162	3.15E-06	0.198737	0.617111	1.853565
3.79	0.2644	-0.00162	3.15E-06	0.198683	0.616943	1.853255
3.79	0.2644	-0.00162	3.15E-06	0.198629	0.616776	1.852945
3.79	0.2644	-0.00162	3.15E-06	0.198575	0.616609	1.852636
3.80	0.2644	-0.00162	3.15E-06	0.198522	0.616443	1.852328
3.80	0.2644	-0.00162	3.15E-06	0.198468	0.616277	1.852021
3.80	0.2644	-0.00162	3.15E-06	0.198415	0.616112	1.851715
3.80	0.2644	-0.00162	3.15E-06	0.198362	0.615947	1.851409
3.80	0.2644	-0.00162	3.15E-06	0.198309	0.615783	1.851105
3.80	0.2644	-0.00162	3.15E-06	0.198256	0.615618	1.850801
3.80	0.2644	-0.00162	3.15E-06	0.198203	0.615455	1.850498
3.80	0.2644	-0.00162	3.15E-06	0.198151	0.615292	1.850196
3.80	0.2644	-0.00162	3.15E-06	0.198098	0.615129	1.849895
3.80	0.2644	-0.00162	3.15E-06	0.198046	0.614966	1.849594
3.80	0.2644	-0.00162	3.15E-06	0.197994	0.614804	1.849295
3.80	0.2644	-0.00162	3.15E-06	0.197942	0.614643	1.848996
3.81	0.2644	-0.00162	3.15E-06	0.19789	0.614482	1.848698
3.81	0.2644	-0.00162	3.15E-06	0.197838	0.614321	1.848401
3.81	0.2644	-0.00162	3.15E-06	0.197786	0.614161	1.848105
3.81	0.2644	-0.00162	3.15E-06	0.197735	0.614001	1.847809
3.81	0.2644	-0.00162	3.15E-06	0.197684	0.613841	1.847514
3.81	0.2644	-0.00162	3.15E-06	0.197632	0.613682	1.84722
3.81	0.2644	-0.00162	3.15E-06	0.197581	0.613523	1.846927
3.81	0.2644	-0.00162	3.15E-06	0.19753	0.613365	1.846635
3.81	0.2644	-0.00162	3.15E-06	0.197479	0.613207	1.846343
3.81	0.2644	-0.00162	3.15E-06	0.197429	0.613049	1.846052
3.81	0.2644	-0.00162	3.15E-06	0.197378	0.612892	1.845762
3.82	0.2644	-0.00162	3.15E-06	0.197328	0.612736	1.845473
3.82	0.2644	-0.00162	3.15E-06	0.197277	0.612579	1.845184
3.82	0.2644	-0.00162	3.15E-06	0.197227	0.612423	1.844897
3.82	0.2644	-0.00162	3.15E-06	0.197177	0.612268	1.844609
3.82	0.2644	-0.00162	3.15E-06	0.197127	0.612112	1.844323
3.82	0.2644	-0.00162	3.15E-06	0.197077	0.611958	1.844038
3.82	0.2644	-0.00162	3.15E-06	0.197027	0.611803	1.843753
3.82	0.2644	-0.00162	3.15E-06	0.196978	0.611649	1.843469
3.82	0.2644	-0.00162	3.15E-06	0.196928	0.611495	1.843185
3.82	0.2644	-0.00162	3.15E-06	0.196879	0.611342	1.842903
3.82	0.2644	-0.00162	3.15E-06	0.196829	0.611189	1.842621
3.82	0.2644	-0.00162	3.15E-06	0.19678	0.611036	1.842339
3.82	0.2644	-0.00162	3.15E-06	0.196731	0.610884	1.842059
3.83	0.2644	-0.00162	3.15E-06	0.196682	0.610732	1.841779
3.83	0.2644	-0.00162	3.15E-06	0.196633	0.61058	1.8415
3.83	0.2644	-0.00162	3.15E-06	0.196585	0.610429	1.841222
3.83	0.2644	-0.00162	3.15E-06	0.196536	0.610278	1.840944
3.83	0.2644	-0.00162	3.15E-06	0.196488	0.610128	1.840667

3.83	0.2644	-0.00162	3.15E-06	0.196439	0.609978	1.840391
3.83	0.2644	-0.00162	3.15E-06	0.196391	0.609828	1.840115
3.83	0.2644	-0.00162	3.15E-06	0.196343	0.609679	1.83984
3.83	0.2644	-0.00162	3.15E-06	0.196295	0.609529	1.839566
3.83	0.2644	-0.00162	3.15E-06	0.196247	0.609381	1.839292
3.83	0.2644	-0.00162	3.15E-06	0.196199	0.609232	1.839019
3.83	0.2644	-0.00162	3.15E-06	0.196152	0.609084	1.838747
3.84	0.2644	-0.00162	3.15E-06	0.196104	0.608937	1.838475
3.84	0.2644	-0.00162	3.15E-06	0.196057	0.608789	1.838204
3.84	0.2644	-0.00162	3.15E-06	0.196009	0.608642	1.837934
3.84	0.2644	-0.00162	3.15E-06	0.195962	0.608495	1.837664
3.84	0.2644	-0.00162	3.15E-06	0.195915	0.608349	1.837395
3.84	0.2644	-0.00162	3.15E-06	0.195868	0.608203	1.837127
3.84	0.2644	-0.00162	3.15E-06	0.195821	0.608057	1.836859
3.84	0.2644	-0.00162	3.15E-06	0.195774	0.607912	1.836592
3.84	0.2644	-0.00162	3.15E-06	0.195727	0.607767	1.836326
3.84	0.2644	-0.00162	3.15E-06	0.195681	0.607622	1.83606
3.84	0.2644	-0.00162	3.15E-06	0.195634	0.607478	1.835795
3.84	0.2644	-0.00162	3.15E-06	0.195588	0.607334	1.835531
3.84	0.2644	-0.00162	3.15E-06	0.195542	0.60719	1.835267
3.84	0.2644	-0.00162	3.15E-06	0.195495	0.607046	1.835003
3.85	0.2644	-0.00162	3.15E-06	0.195449	0.606903	1.834741
3.85	0.2644	-0.00162	3.15E-06	0.195403	0.60676	1.834479
3.85	0.2644	-0.00162	3.15E-06	0.195357	0.606618	1.834217
3.85	0.2644	-0.00162	3.15E-06	0.195312	0.606476	1.833956
3.85	0.2644	-0.00162	3.15E-06	0.195266	0.606334	1.833696
3.85	0.2644	-0.00162	3.15E-06	0.19522	0.606192	1.833437
3.85	0.2644	-0.00162	3.15E-06	0.195175	0.606051	1.833178
3.85	0.2644	-0.00162	3.15E-06	0.195129	0.60591	1.832919
3.85	0.2644	-0.00162	3.15E-06	0.195084	0.605769	1.832661
3.85	0.2644	-0.00162	3.15E-06	0.195039	0.605629	1.832404
3.85	0.2644	-0.00162	3.15E-06	0.194994	0.605489	1.832148
3.85	0.2644	-0.00162	3.15E-06	0.194949	0.605349	1.831892
3.85	0.2644	-0.00162	3.15E-06	0.194904	0.60521	1.831636
3.86	0.2644	-0.00162	3.15E-06	0.194859	0.60507	1.831381
3.86	0.2644	-0.00162	3.15E-06	0.194814	0.604932	1.831127
3.86	0.2644	-0.00162	3.15E-06	0.19477	0.604793	1.830873
3.86	0.2644	-0.00162	3.15E-06	0.194725	0.604655	1.83062
3.86	0.2644	-0.00162	3.15E-06	0.194681	0.604517	1.830367
3.86	0.2644	-0.00162	3.15E-06	0.194636	0.604379	1.830115
3.86	0.2644	-0.00162	3.15E-06	0.194592	0.604242	1.829864
3.86	0.2644	-0.00162	3.15E-06	0.194548	0.604104	1.829613
3.86	0.2644	-0.00162	3.15E-06	0.194504	0.603968	1.829363
3.86	0.2644	-0.00162	3.15E-06	0.19446	0.603831	1.829113
3.86	0.2644	-0.00162	3.15E-06	0.194416	0.603695	1.828864
3.86	0.2644	-0.00162	3.15E-06	0.194372	0.603559	1.828615
3.86	0.2644	-0.00162	3.15E-06	0.194329	0.603423	1.828367
3.86	0.2644	-0.00162	3.15E-06	0.194285	0.603288	1.828119
3.86	0.2644	-0.00162	3.15E-06	0.194241	0.603153	1.827872
3.87	0.2644	-0.00162	3.15E-06	0.194198	0.603018	1.827626

3.87	0.2644	-0.00162	3.15E-06	0.194155	0.602883	1.82738
3.87	0.2644	-0.00162	3.15E-06	0.194111	0.602749	1.827134
3.87	0.2644	-0.00162	3.15E-06	0.194068	0.602615	1.826889
3.87	0.2644	-0.00162	3.15E-06	0.194025	0.602481	1.826645
3.87	0.2644	-0.00162	3.15E-06	0.193982	0.602347	1.826401
3.87	0.2644	-0.00162	3.15E-06	0.193939	0.602214	1.826158
3.87	0.2644	-0.00162	3.15E-06	0.193896	0.602081	1.825915
3.87	0.2644	-0.00162	3.15E-06	0.193854	0.601949	1.825673
3.87	0.2644	-0.00162	3.15E-06	0.193811	0.601816	1.825431
3.87	0.2644	-0.00162	3.15E-06	0.193768	0.601684	1.82519
3.87	0.2644	-0.00162	3.15E-06	0.193726	0.601552	1.824949
3.87	0.2644	-0.00162	3.15E-06	0.193684	0.60142	1.824709
3.87	0.2644	-0.00162	3.15E-06	0.193641	0.601289	1.824469
3.88	0.2644	-0.00162	3.15E-06	0.193599	0.601158	1.82423
3.88	0.2644	-0.00162	3.15E-06	0.193557	0.601027	1.823991
3.88	0.2644	-0.00162	3.15E-06	0.193515	0.600896	1.823753
3.88	0.2644	-0.00162	3.15E-06	0.193473	0.600766	1.823515
3.88	0.2644	-0.00162	3.15E-06	0.193431	0.600636	1.823278
3.88	0.2644	-0.00162	3.15E-06	0.193389	0.600506	1.823041
3.88	0.2644	-0.00162	3.15E-06	0.193347	0.600377	1.822805
3.88	0.2644	-0.00162	3.15E-06	0.193306	0.600247	1.822569
3.88	0.2644	-0.00162	3.15E-06	0.193264	0.600118	1.822334
3.88	0.2644	-0.00162	3.15E-06	0.193223	0.599989	1.822099
3.88	0.2644	-0.00162	3.15E-06	0.193181	0.599861	1.821865
3.88	0.2644	-0.00162	3.15E-06	0.19314	0.599732	1.821631
3.88	0.2644	-0.00162	3.15E-06	0.193099	0.599604	1.821398
3.88	0.2644	-0.00162	3.15E-06	0.193058	0.599476	1.821165
3.88	0.2644	-0.00162	3.15E-06	0.193016	0.599349	1.820933
3.88	0.2644	-0.00162	3.15E-06	0.192975	0.599221	1.820701
3.89	0.2644	-0.00162	3.15E-06	0.192934	0.599094	1.820469
3.89	0.2644	-0.00162	3.15E-06	0.192894	0.598967	1.820238
3.89	0.2644	-0.00162	3.15E-06	0.192853	0.598841	1.820008
3.89	0.2644	-0.00162	3.15E-06	0.192812	0.598714	1.819778
3.89	0.2644	-0.00162	3.15E-06	0.192771	0.598588	1.819548
3.89	0.2644	-0.00162	3.15E-06	0.192731	0.598462	1.819319
3.89	0.2644	-0.00162	3.15E-06	0.19269	0.598337	1.819091
3.89	0.2644	-0.00162	3.15E-06	0.19265	0.598211	1.818862
3.89	0.2644	-0.00162	3.15E-06	0.19261	0.598086	1.818635
3.89	0.2644	-0.00162	3.15E-06	0.19257	0.597961	1.818407
3.89	0.2644	-0.00162	3.15E-06	0.192529	0.597836	1.818181
3.89	0.2644	-0.00162	3.15E-06	0.192489	0.597712	1.817954
3.89	0.2644	-0.00162	3.15E-06	0.192449	0.597588	1.817728
3.89	0.2644	-0.00162	3.15E-06	0.192409	0.597464	1.817503
3.89	0.2644	-0.00162	3.15E-06	0.192369	0.59734	1.817278
3.89	0.2644	-0.00162	3.15E-06	0.19233	0.597216	1.817053
3.90	0.2644	-0.00162	3.15E-06	0.19229	0.597093	1.816829
3.90	0.2644	-0.00162	3.15E-06	0.19225	0.59697	1.816605
3.90	0.2644	-0.00162	3.15E-06	0.192211	0.596847	1.816382
3.90	0.2644	-0.00162	3.15E-06	0.192171	0.596724	1.816159
3.90	0.2644	-0.00162	3.15E-06	0.192132	0.596602	1.815937

3.90	0.2644	-0.00162	3.15E-06	0.192092	0.596479	1.815715
3.90	0.2644	-0.00162	3.15E-06	0.192053	0.596357	1.815493
3.90	0.2644	-0.00162	3.15E-06	0.192014	0.596235	1.815272
3.90	0.2644	-0.00162	3.15E-06	0.191975	0.596114	1.815052
3.90	0.2644	-0.00162	3.15E-06	0.191936	0.595993	1.814831
3.90	0.2644	-0.00162	3.15E-06	0.191897	0.595871	1.814612
3.90	0.2644	-0.00162	3.15E-06	0.191858	0.59575	1.814392
3.90	0.2644	-0.00162	3.15E-06	0.191819	0.59563	1.814173
3.90	0.2644	-0.00162	3.15E-06	0.19178	0.595509	1.813955
3.90	0.2644	-0.00162	3.15E-06	0.191741	0.595389	1.813736
3.90	0.2644	-0.00162	3.15E-06	0.191703	0.595269	1.813519
3.91	0.2644	-0.00162	3.15E-06	0.191664	0.595149	1.813301
3.91	0.2644	-0.00162	3.15E-06	0.191625	0.595029	1.813084
3.91	0.2644	-0.00162	3.15E-06	0.191587	0.59491	1.812868
3.91	0.2644	-0.00162	3.15E-06	0.191549	0.594791	1.812652
3.91	0.2644	-0.00162	3.15E-06	0.19151	0.594672	1.812436
3.91	0.2644	-0.00162	3.15E-06	0.191472	0.594553	1.812221
3.91	0.2644	-0.00162	3.15E-06	0.191434	0.594434	1.812006
3.91	0.2644	-0.00162	3.15E-06	0.191396	0.594316	1.811791
3.91	0.2644	-0.00162	3.15E-06	0.191358	0.594198	1.811577
3.91	0.2644	-0.00162	3.15E-06	0.19132	0.59408	1.811364
3.91	0.2644	-0.00162	3.15E-06	0.191282	0.593962	1.81115
3.91	0.2644	-0.00162	3.15E-06	0.191244	0.593845	1.810937
3.91	0.2644	-0.00162	3.15E-06	0.191206	0.593727	1.810725
3.91	0.2644	-0.00162	3.15E-06	0.191168	0.59361	1.810513
3.91	0.2644	-0.00162	3.15E-06	0.191131	0.593493	1.810301
3.91	0.2644	-0.00162	3.15E-06	0.191093	0.593376	1.81009
3.91	0.2644	-0.00162	3.15E-06	0.191055	0.59326	1.809879
3.92	0.2644	-0.00162	3.15E-06	0.191018	0.593143	1.809668
3.92	0.2644	-0.00162	3.15E-06	0.190981	0.593027	1.809458
3.92	0.2644	-0.00162	3.15E-06	0.190943	0.592911	1.809248
3.92	0.2644	-0.00162	3.15E-06	0.190906	0.592796	1.809039
3.92	0.2644	-0.00162	3.15E-06	0.190869	0.59268	1.80883
3.92	0.2644	-0.00162	3.15E-06	0.190832	0.592565	1.808621
3.92	0.2644	-0.00162	3.15E-06	0.190795	0.592449	1.808413
3.92	0.2644	-0.00162	3.15E-06	0.190757	0.592334	1.808205
3.92	0.2644	-0.00162	3.15E-06	0.190721	0.59222	1.807997
3.92	0.2644	-0.00162	3.15E-06	0.190684	0.592105	1.80779
3.92	0.2644	-0.00162	3.15E-06	0.190647	0.591991	1.807583
3.92	0.2644	-0.00162	3.15E-06	0.19061	0.591876	1.807377
3.92	0.2644	-0.00162	3.15E-06	0.190573	0.591762	1.807171
3.92	0.2644	-0.00162	3.15E-06	0.190537	0.591649	1.806965
3.92	0.2644	-0.00162	3.15E-06	0.1905	0.591535	1.80676
3.92	0.2644	-0.00162	3.15E-06	0.190463	0.591422	1.806555
3.92	0.2644	-0.00162	3.15E-06	0.190427	0.591308	1.80635
3.92	0.2644	-0.00162	3.15E-06	0.190391	0.591195	1.806146
3.93	0.2644	-0.00162	3.15E-06	0.190354	0.591082	1.805942
3.93	0.2644	-0.00162	3.15E-06	0.190318	0.59097	1.805738
3.93	0.2644	-0.00162	3.15E-06	0.190282	0.590857	1.805535
3.93	0.2644	-0.00162	3.15E-06	0.190246	0.590745	1.805332

3.93	0.2644	-0.00162	3.15E-06	0.190209	0.590633	1.80513
3.93	0.2644	-0.00162	3.15E-06	0.190173	0.590521	1.804928
3.93	0.2644	-0.00162	3.15E-06	0.190137	0.590409	1.804726
3.93	0.2644	-0.00162	3.15E-06	0.190101	0.590297	1.804525
3.93	0.2644	-0.00162	3.15E-06	0.190066	0.590186	1.804324
3.93	0.2644	-0.00162	3.15E-06	0.19003	0.590075	1.804123
3.93	0.2644	-0.00162	3.15E-06	0.189994	0.589963	1.803923
3.93	0.2644	-0.00162	3.15E-06	0.189958	0.589853	1.803723
3.93	0.2644	-0.00162	3.15E-06	0.189923	0.589742	1.803523
3.93	0.2644	-0.00162	3.15E-06	0.189887	0.589631	1.803324
3.93	0.2644	-0.00162	3.15E-06	0.189851	0.589521	1.803125
3.93	0.2644	-0.00162	3.15E-06	0.189816	0.589411	1.802926
3.93	0.2644	-0.00162	3.15E-06	0.189781	0.589301	1.802728
3.93	0.2644	-0.00162	3.15E-06	0.189745	0.589191	1.80253
3.94	0.2644	-0.00162	3.15E-06	0.18971	0.589081	1.802332
3.94	0.2644	-0.00162	3.15E-06	0.189675	0.588972	1.802135
3.94	0.2644	-0.00162	3.15E-06	0.189639	0.588863	1.801938
3.94	0.2644	-0.00162	3.15E-06	0.189604	0.588753	1.801741
3.94	0.2644	-0.00162	3.15E-06	0.189569	0.588645	1.801545
3.94	0.2644	-0.00162	3.15E-06	0.189534	0.588536	1.801349
3.94	0.2644	-0.00162	3.15E-06	0.189499	0.588427	1.801153
3.94	0.2644	-0.00162	3.15E-06	0.189464	0.588319	1.800958
3.94	0.2644	-0.00162	3.15E-06	0.189429	0.58821	1.800763
3.94	0.2644	-0.00162	3.15E-06	0.189395	0.588102	1.800568
3.94	0.2644	-0.00162	3.15E-06	0.18936	0.587994	1.800374
3.94	0.2644	-0.00162	3.15E-06	0.189325	0.587887	1.80018
3.94	0.2644	-0.00162	3.15E-06	0.18929	0.587779	1.799986
3.94	0.2644	-0.00162	3.15E-06	0.189256	0.587672	1.799793
3.94	0.2644	-0.00162	3.15E-06	0.189221	0.587564	1.7996
3.94	0.2644	-0.00162	3.15E-06	0.189187	0.587457	1.799407
3.94	0.2644	-0.00162	3.15E-06	0.189152	0.58735	1.799215
3.94	0.2644	-0.00162	3.15E-06	0.189118	0.587244	1.799023
3.94	0.2644	-0.00162	3.15E-06	0.189084	0.587137	1.798831
3.94	0.2644	-0.00162	3.15E-06	0.189049	0.58703	1.798639
3.95	0.2644	-0.00162	3.15E-06	0.189015	0.586924	1.798448
3.95	0.2644	-0.00162	3.15E-06	0.188981	0.586818	1.798257
3.95	0.2644	-0.00162	3.15E-06	0.188947	0.586712	1.798067
3.95	0.2644	-0.00162	3.15E-06	0.188913	0.586606	1.797877
3.95	0.2644	-0.00162	3.15E-06	0.188879	0.586501	1.797687
3.95	0.2644	-0.00162	3.15E-06	0.188845	0.586395	1.797497
3.95	0.2644	-0.00162	3.15E-06	0.188811	0.58629	1.797308
3.95	0.2644	-0.00162	3.15E-06	0.188777	0.586185	1.797119
3.95	0.2644	-0.00162	3.15E-06	0.188743	0.58608	1.79693
3.95	0.2644	-0.00162	3.15E-06	0.188709	0.585975	1.796742
3.95	0.2644	-0.00162	3.15E-06	0.188676	0.58587	1.796554
3.95	0.2644	-0.00162	3.15E-06	0.188642	0.585766	1.796366
3.95	0.2644	-0.00162	3.15E-06	0.188608	0.585661	1.796179
3.95	0.2644	-0.00162	3.15E-06	0.188575	0.585557	1.795991
3.95	0.2644	-0.00162	3.15E-06	0.188541	0.585453	1.795805
3.95	0.2644	-0.00162	3.15E-06	0.188508	0.585349	1.795618

3.95	0.2644	-0.00162	3.15E-06	0.188475	0.585245	1.795432
3.95	0.2644	-0.00162	3.15E-06	0.188441	0.585142	1.795246
3.95	0.2644	-0.00162	3.15E-06	0.188408	0.585038	1.79506
3.95	0.2644	-0.00162	3.15E-06	0.188375	0.584935	1.794875
3.96	0.2644	-0.00162	3.15E-06	0.188341	0.584832	1.79469
3.96	0.2644	-0.00162	3.15E-06	0.188308	0.584729	1.794505
3.96	0.2644	-0.00162	3.15E-06	0.188275	0.584626	1.79432
3.96	0.2644	-0.00162	3.15E-06	0.188242	0.584524	1.794136
3.96	0.2644	-0.00162	3.15E-06	0.188209	0.584421	1.793952
3.96	0.2644	-0.00162	3.15E-06	0.188176	0.584319	1.793768
3.96	0.2644	-0.00162	3.15E-06	0.188143	0.584216	1.793585
3.96	0.2644	-0.00162	3.15E-06	0.18811	0.584114	1.793402
3.96	0.2644	-0.00162	3.15E-06	0.188077	0.584012	1.793219
3.96	0.2644	-0.00162	3.15E-06	0.188045	0.583911	1.793037
3.96	0.2644	-0.00162	3.15E-06	0.188012	0.583809	1.792855
3.96	0.2644	-0.00162	3.15E-06	0.187979	0.583708	1.792673
3.96	0.2644	-0.00162	3.15E-06	0.187947	0.583606	1.792491
3.96	0.2644	-0.00162	3.15E-06	0.187914	0.583505	1.79231
3.96	0.2644	-0.00162	3.15E-06	0.187881	0.583404	1.792128
3.96	0.2644	-0.00162	3.15E-06	0.187849	0.583303	1.791948
3.96	0.2644	-0.00162	3.15E-06	0.187817	0.583202	1.791767
3.96	0.2644	-0.00162	3.15E-06	0.187784	0.583102	1.791587
3.96	0.2644	-0.00162	3.15E-06	0.187752	0.583001	1.791407
3.96	0.2644	-0.00162	3.15E-06	0.187719	0.582901	1.791227
3.97	0.2644	-0.00162	3.15E-06	0.187687	0.582801	1.791048
3.97	0.2644	-0.00162	3.15E-06	0.187655	0.582701	1.790869
3.97	0.2644	-0.00162	3.15E-06	0.187623	0.582601	1.79069
3.97	0.2644	-0.00162	3.15E-06	0.187591	0.582501	1.790511
3.97	0.2644	-0.00162	3.15E-06	0.187559	0.582401	1.790333
3.97	0.2644	-0.00162	3.15E-06	0.187527	0.582302	1.790155
3.97	0.2644	-0.00162	3.15E-06	0.187495	0.582203	1.789977
3.97	0.2644	-0.00162	3.15E-06	0.187463	0.582104	1.789799
3.97	0.2644	-0.00162	3.15E-06	0.187431	0.582004	1.789622
3.97	0.2644	-0.00162	3.15E-06	0.187399	0.581906	1.789445
3.97	0.2644	-0.00162	3.15E-06	0.187367	0.581807	1.789268
3.97	0.2644	-0.00162	3.15E-06	0.187335	0.581708	1.789092

Location Index	
England and Wales	1
Scotland and Ireland	2

From Design and Analysis of Urban Storm Drainage, The Wallingford Procedure, Vol 1

Table 6.1 Values of Constants to calculate Cr

Geographic Location	Range of M5-D	Location Index	J0	J1	J2
England and Wales	0-10	1	0.1699	0.0028	0.000114
	11-30		0.1644	0.005831	-0.00013
	31-75		0.2644	-0.00162	3.15E-06
	76-150		0.2718	-0.00195	6.19E-06
	>150		0.1454	-0.00019	1.14E-07

Integra Consulting							Job No	Date
							3301	10.02.2022
Calculations							Sheet	By
							01	JS
Job Title Withington								
Storm Water Flood Model								
M5-60 = 18.00			r = 0.36		Return, T = 100		Area (m²) = 978	
					CC Factor = 0.40		Limit (l/s) = 2.0	
Totals							29	47
D (mins)	M5-D (mm)	MT-D (mm)	Rate (mm/hr)	Flow (l/s)	CC Flow (l/s)	Storage (m³)	CC Storage (m³)	
10.00	9.14	17.27	103.65	27.98	39.17	15.59	22.30	
15.00	10.96	21.32	85.28	23.02	32.23	18.92	27.20	
20.00	12.31	24.07	72.21	19.49	27.29	20.99	30.34	
25.00	13.40	26.40	63.36	17.10	23.94	22.65	32.92	
30.00	14.31	28.36	56.72	15.31	21.44	23.96	34.98	
35.00	15.10	30.06	51.53	13.91	19.47	25.01	36.70	
40.00	15.79	31.56	47.34	12.78	17.89	25.87	38.14	
45.00	16.42	32.91	43.88	11.84	16.58	26.58	39.37	
50.00	16.99	34.13	40.96	11.06	15.48	27.17	40.44	
55.00	17.51	35.26	38.46	10.38	14.53	27.66	41.37	
60.00	18.00	36.29	36.29	9.80	13.72	28.07	42.18	
65.00	18.45	37.26	34.39	9.28	13.00	28.41	42.89	
70.00	18.88	38.16	32.71	8.83	12.36	28.68	43.51	
75.00	19.28	39.01	31.21	8.42	11.79	28.90	44.07	
80.00	19.66	39.81	29.85	8.06	11.28	29.08	44.55	
85.00	20.02	40.56	28.63	7.73	10.82	29.21	44.98	
90.00	20.37	41.28	27.52	7.43	10.40	29.31	45.36	
95.00	20.70	41.96	26.50	7.15	10.01	29.38	45.69	
100.00	21.02	42.61	25.57	6.90	9.66	29.41	45.97	
105.00	21.32	43.24	24.71	6.67	9.34	29.41	46.22	
110.00	21.61	43.83	23.91	6.45	9.03	29.39	46.43	
115.00	21.90	44.40	23.17	6.25	8.75	29.35	46.61	
120.00	22.17	44.95	22.48	6.07	8.49	29.28	46.76	
125.00	22.43	45.48	21.83	5.89	8.25	29.20	46.88	
130.00	22.69	45.99	21.23	5.73	8.02	29.10	46.97	
135.00	22.94	46.49	20.66	5.58	7.81	28.97	47.04	
140.00	23.18	46.96	20.13	5.43	7.61	28.84	47.09	
145.00	23.41	47.42	19.62	5.30	7.42	28.68	47.12	
150.00	23.64	47.87	19.15	5.17	7.24	28.52	47.13	
155.00	23.86	48.30	18.70	5.05	7.07	28.34	47.11	
160.00	24.08	48.72	18.27	4.93	6.90	28.15	47.08	
165.00	24.29	49.13	17.87	4.82	6.75	27.94	47.04	
170.00	24.50	49.52	17.48	4.72	6.61	27.73	46.98	
175.00	24.70	49.91	17.11	4.62	6.47	27.50	46.90	
180.00	24.90	50.28	16.76	4.52	6.33	27.26	46.81	
185.00	25.09	50.65	16.43	4.43	6.21	27.02	46.70	
190.00	25.28	51.00	16.11	4.35	6.09	26.76	46.59	
195.00	25.47	51.35	15.80	4.26	5.97	26.50	46.46	
200.00	25.65	51.69	15.51	4.19	5.86	26.22	46.31	

205.00	25.83	52.01	15.22	4.11	5.75	25.94	46.16
210.00	26.01	52.33	14.95	4.04	5.65	25.66	46.00
215.00	26.18	52.65	14.69	3.97	5.55	25.36	45.82
220.00	26.35	52.95	14.44	3.90	5.46	25.06	45.64
225.00	26.51	53.25	14.20	3.83	5.37	24.75	45.45
230.00	26.68	53.55	13.97	3.77	5.28	24.43	45.25
235.00	26.84	53.83	13.74	3.71	5.19	24.11	45.04
240.00	27.00	54.11	13.53	3.65	5.11	23.78	44.82
245.00	27.15	54.39	13.32	3.60	5.03	23.45	44.59
250.00	27.31	54.66	13.12	3.54	4.96	23.11	44.36
255.00	27.46	54.92	12.92	3.49	4.88	22.77	44.11
260.00	27.61	55.18	12.73	3.44	4.81	22.42	43.86
265.00	27.75	55.43	12.55	3.39	4.74	22.06	43.61
270.00	27.90	55.68	12.37	3.34	4.68	21.70	43.34
275.00	28.04	55.92	12.20	3.29	4.61	21.34	43.07
280.00	28.18	56.16	12.03	3.25	4.55	20.97	42.80
285.00	28.32	56.39	11.87	3.20	4.49	20.60	42.52
290.00	28.45	56.62	11.71	3.16	4.43	20.22	42.23
295.00	28.59	56.84	11.56	3.12	4.37	19.84	41.93
300.00	28.72	57.07	11.41	3.08	4.31	19.45	41.63
305.00	28.85	57.28	11.27	3.04	4.26	19.06	41.33
310.00	28.98	57.50	11.13	3.00	4.21	18.67	41.02
315.00	29.11	57.71	10.99	2.97	4.15	18.27	40.70
320.00	29.24	57.91	10.86	2.93	4.10	17.87	40.38
325.00	29.37	58.11	10.73	2.90	4.05	17.47	40.06
330.00	29.49	58.31	10.60	2.86	4.01	17.06	39.73
335.00	29.61	58.51	10.48	2.83	3.96	16.65	39.40
340.00	29.73	58.70	10.36	2.80	3.91	16.24	39.06
345.00	29.85	58.89	10.24	2.76	3.87	15.82	38.71
350.00	29.97	59.07	10.13	2.73	3.83	15.40	38.37
355.00	30.09	59.26	10.02	2.70	3.78	14.98	38.02
360.00	30.20	59.44	9.91	2.67	3.74	14.56	37.66
365.00	30.32	59.61	9.80	2.65	3.70	14.13	37.30
370.00	30.43	59.79	9.70	2.62	3.66	13.70	36.94
375.00	30.55	59.96	9.59	2.59	3.63	13.27	36.57
380.00	30.66	60.13	9.49	2.56	3.59	12.83	36.20
385.00	30.77	60.29	9.40	2.54	3.55	12.39	35.83
390.00	30.88	60.46	9.30	2.51	3.51	11.95	35.45
395.00	30.98	60.62	9.21	2.49	3.48	11.51	35.07
400.00	31.09	61.00	9.15	2.47	3.46	11.28	34.99
405.00	31.20	61.18	9.06	2.45	3.43	10.85	34.63
410.00	31.30	61.36	8.98	2.42	3.39	10.42	34.27
415.00	31.41	61.53	8.90	2.40	3.36	9.99	33.91
420.00	31.51	61.71	8.82	2.38	3.33	9.56	33.55
425.00	31.61	61.88	8.74	2.36	3.30	9.13	33.18
430.00	31.71	62.05	8.66	2.34	3.27	8.70	32.82
435.00	31.81	62.22	8.58	2.32	3.24	8.26	32.45
440.00	31.91	62.39	8.51	2.30	3.21	7.82	32.07
445.00	32.01	62.55	8.43	2.28	3.19	7.39	31.70
450.00	32.11	62.72	8.36	2.26	3.16	6.95	31.32

455.00	32.21	62.88	8.29	2.24	3.13	6.50	30.95
460.00	32.30	63.04	8.22	2.22	3.11	6.06	30.56
465.00	32.40	63.20	8.16	2.20	3.08	5.62	30.18
470.00	32.49	63.36	8.09	2.18	3.06	5.17	29.80
475.00	32.59	63.52	8.02	2.17	3.03	4.72	29.41
480.00	32.68	63.67	7.96	2.15	3.01	4.27	29.02
485.00	32.77	63.83	7.90	2.13	2.98	3.82	28.63
490.00	32.87	63.98	7.83	2.11	2.96	3.37	28.24
495.00	32.96	64.13	7.77	2.10	2.94	2.92	27.85
500.00	33.05	64.28	7.71	2.08	2.92	2.47	27.45
505.00	33.14	64.43	7.66	2.07	2.89	2.01	27.06
510.00	33.23	64.58	7.60	2.05	2.87	1.56	26.66
515.00	33.32	64.73	7.54	2.04	2.85	1.10	26.26
520.00	33.40	64.87	7.49	2.02	2.83	0.64	25.86
525.00	33.49	65.02	7.43	2.01	2.81	0.18	25.45
530.00	33.58	65.16	7.38	1.99	2.79	-0.28	25.05
535.00	33.66	65.30	7.32	1.98	2.77	-0.74	24.64
540.00	33.75	65.45	7.27	1.96	2.75	-1.20	24.23
545.00	33.83	65.59	7.22	1.95	2.73	-1.67	23.82
550.00	33.92	65.72	7.17	1.94	2.71	-2.13	23.41
555.00	34.00	65.86	7.12	1.92	2.69	-2.60	23.00
560.00	34.08	66.00	7.07	1.91	2.67	-3.07	22.59
565.00	34.17	66.14	7.02	1.90	2.65	-3.53	22.17
570.00	34.25	66.27	6.98	1.88	2.64	-4.00	21.76
575.00	34.33	66.40	6.93	1.87	2.62	-4.47	21.34
580.00	34.41	66.54	6.88	1.86	2.60	-4.94	20.92
585.00	34.49	66.67	6.84	1.85	2.58	-5.41	20.50
590.00	34.57	66.80	6.79	1.83	2.57	-5.89	20.08
595.00	34.65	66.93	6.75	1.82	2.55	-6.36	19.66
600.00	34.73	67.06	6.71	1.81	2.53	-6.83	19.23
605.00	34.81	67.19	6.66	1.80	2.52	-7.31	18.81
610.00	34.89	67.32	6.62	1.79	2.50	-7.79	18.38
615.00	34.96	67.44	6.58	1.78	2.49	-8.26	17.95
620.00	35.04	67.57	6.54	1.77	2.47	-8.74	17.52
625.00	35.12	67.69	6.50	1.75	2.46	-9.22	17.09
630.00	35.19	67.82	6.46	1.74	2.44	-9.70	16.66
635.00	35.27	67.94	6.42	1.73	2.43	-10.18	16.23
640.00	35.34	68.07	6.38	1.72	2.41	-10.66	15.80
645.00	35.42	68.19	6.34	1.71	2.40	-11.14	15.36
650.00	35.49	68.31	6.31	1.70	2.38	-11.62	14.93
655.00	35.57	68.43	6.27	1.69	2.37	-12.11	14.49
660.00	35.64	68.55	6.23	1.68	2.35	-12.59	14.06
665.00	35.71	68.67	6.20	1.67	2.34	-13.07	13.62
670.00	35.79	68.78	6.16	1.66	2.33	-13.56	13.18
675.00	35.86	68.90	6.12	1.65	2.31	-14.05	12.74
680.00	35.93	69.02	6.09	1.64	2.30	-14.53	12.30
685.00	36.00	69.13	6.06	1.63	2.29	-15.02	11.85
690.00	36.07	69.25	6.02	1.63	2.28	-15.51	11.41
695.00	36.14	69.36	5.99	1.62	2.26	-16.00	10.97
700.00	36.21	69.48	5.96	1.61	2.25	-16.49	10.52

705.00	36.28	69.59	5.92	1.60	2.24	-16.98	10.07
710.00	36.35	69.70	5.89	1.59	2.23	-17.47	9.63
715.00	36.42	69.82	5.86	1.58	2.21	-17.96	9.18
720.00	36.49	69.93	5.83	1.57	2.20	-18.45	8.73
725.00	36.56	70.04	5.80	1.56	2.19	-18.94	8.28
730.00	36.63	70.15	5.77	1.56	2.18	-19.43	7.83
735.00	36.70	70.26	5.74	1.55	2.17	-19.93	7.38
740.00	36.76	70.37	5.71	1.54	2.16	-20.42	6.93
745.00	36.83	70.47	5.68	1.53	2.14	-20.92	6.47
750.00	36.90	70.58	5.65	1.52	2.13	-21.41	6.02
755.00	36.96	70.69	5.62	1.52	2.12	-21.91	5.57
760.00	37.03	70.79	5.59	1.51	2.11	-22.41	5.11
765.00	37.10	70.90	5.56	1.50	2.10	-22.90	4.65
770.00	37.16	71.01	5.53	1.49	2.09	-23.40	4.20
775.00	37.23	71.11	5.51	1.49	2.08	-23.90	3.74
780.00	37.29	71.21	5.48	1.48	2.07	-24.40	3.28
785.00	37.36	71.32	5.45	1.47	2.06	-24.90	2.82
790.00	37.42	71.42	5.42	1.46	2.05	-25.40	2.36
795.00	37.48	71.52	5.40	1.46	2.04	-25.90	1.90
800.00	37.55	71.62	5.37	1.45	2.03	-26.40	1.44
805.00	37.61	71.73	5.35	1.44	2.02	-26.90	0.98
810.00	37.68	71.83	5.32	1.44	2.01	-27.40	0.52
815.00	37.74	71.93	5.30	1.43	2.00	-27.91	0.05
820.00	37.80	72.03	5.27	1.42	1.99	-28.41	-0.41
825.00	37.86	72.13	5.25	1.42	1.98	-28.91	-0.88
830.00	37.92	72.22	5.22	1.41	1.97	-29.42	-1.34
835.00	37.99	72.32	5.20	1.40	1.96	-29.92	-1.81
840.00	38.05	72.42	5.17	1.40	1.95	-30.43	-2.28
845.00	38.11	72.52	5.15	1.39	1.95	-30.93	-2.74
850.00	38.17	72.61	5.13	1.38	1.94	-31.44	-3.21
855.00	38.23	72.71	5.10	1.38	1.93	-31.94	-3.68
860.00	38.29	72.81	5.08	1.37	1.92	-32.45	-4.15
865.00	38.35	72.90	5.06	1.36	1.91	-32.96	-4.62
870.00	38.41	73.00	5.03	1.36	1.90	-33.47	-5.09
875.00	38.47	73.09	5.01	1.35	1.89	-33.97	-5.56
880.00	38.53	73.19	4.99	1.35	1.89	-34.48	-6.03
885.00	38.59	73.28	4.97	1.34	1.88	-34.99	-6.51
890.00	38.65	73.37	4.95	1.34	1.87	-35.50	-6.98
895.00	38.71	73.47	4.93	1.33	1.86	-36.01	-7.45
900.00	38.76	73.56	4.90	1.32	1.85	-36.52	-7.93
905.00	38.82	73.65	4.88	1.32	1.85	-37.03	-8.40
910.00	38.88	73.74	4.86	1.31	1.84	-37.54	-8.88
915.00	38.94	73.83	4.84	1.31	1.83	-38.05	-9.36
920.00	38.99	73.92	4.82	1.30	1.82	-38.57	-9.83
925.00	39.05	74.01	4.80	1.30	1.81	-39.08	-10.31
930.00	39.11	74.10	4.78	1.29	1.81	-39.59	-10.79
935.00	39.17	74.19	4.76	1.29	1.80	-40.10	-11.26
940.00	39.22	74.28	4.74	1.28	1.79	-40.62	-11.74
945.00	39.28	74.37	4.72	1.27	1.78	-41.13	-12.22
950.00	39.33	74.46	4.70	1.27	1.78	-41.65	-12.70

955.00	39.39	74.55	4.68	1.26	1.77	-42.16	-13.18
960.00	39.45	74.63	4.66	1.26	1.76	-42.67	-13.66
965.00	39.50	74.72	4.65	1.25	1.76	-43.19	-14.15
970.00	39.56	74.81	4.63	1.25	1.75	-43.71	-14.63
975.00	39.61	74.89	4.61	1.24	1.74	-44.22	-15.11
980.00	39.67	74.98	4.59	1.24	1.73	-44.74	-15.59
985.00	39.72	75.07	4.57	1.23	1.73	-45.25	-16.08
990.00	39.77	75.15	4.55	1.23	1.72	-45.77	-16.56
995.00	39.83	75.24	4.54	1.22	1.71	-46.29	-17.05
1000.00	39.88	75.32	4.52	1.22	1.71	-46.81	-17.53
1005.00	39.94	75.41	4.50	1.22	1.70	-47.33	-18.02
1010.00	39.99	75.49	4.48	1.21	1.69	-47.84	-18.50
1015.00	40.04	75.57	4.47	1.21	1.69	-48.36	-18.99
1020.00	40.10	75.66	4.45	1.20	1.68	-48.88	-19.47
1025.00	40.15	75.74	4.43	1.20	1.68	-49.40	-19.96
1030.00	40.20	75.82	4.42	1.19	1.67	-49.92	-20.45
1035.00	40.25	75.90	4.40	1.19	1.66	-50.44	-20.94
1040.00	40.31	75.99	4.38	1.18	1.66	-50.96	-21.43
1045.00	40.36	76.07	4.37	1.18	1.65	-51.48	-21.92
1050.00	40.41	76.15	4.35	1.17	1.64	-52.00	-22.40
1055.00	40.46	76.23	4.34	1.17	1.64	-52.52	-22.89
1060.00	40.51	76.31	4.32	1.17	1.63	-53.05	-23.39
1065.00	40.57	76.39	4.30	1.16	1.63	-53.57	-23.88
1070.00	40.62	76.47	4.29	1.16	1.62	-54.09	-24.37
1075.00	40.67	76.55	4.27	1.15	1.61	-54.61	-24.86
1080.00	40.72	76.63	4.26	1.15	1.61	-55.14	-25.35
1085.00	40.77	76.71	4.24	1.15	1.60	-55.66	-25.84
1090.00	40.82	76.79	4.23	1.14	1.60	-56.18	-26.34
1095.00	40.87	76.87	4.21	1.14	1.59	-56.71	-26.83
1100.00	40.92	76.94	4.20	1.13	1.59	-57.23	-27.32
1105.00	40.97	77.02	4.18	1.13	1.58	-57.76	-27.82
1110.00	41.02	77.10	4.17	1.12	1.57	-58.28	-28.31
1115.00	41.07	77.18	4.15	1.12	1.57	-58.80	-28.81
1120.00	41.12	77.25	4.14	1.12	1.56	-59.33	-29.30
1125.00	41.17	77.33	4.12	1.11	1.56	-59.86	-29.80
1130.00	41.22	77.41	4.11	1.11	1.55	-60.38	-30.29
1135.00	41.27	77.48	4.10	1.11	1.55	-60.91	-30.79
1140.00	41.32	77.56	4.08	1.10	1.54	-61.43	-31.29
1145.00	41.37	77.63	4.07	1.10	1.54	-61.96	-31.78
1150.00	41.42	77.71	4.05	1.09	1.53	-62.49	-32.28
1155.00	41.46	77.78	4.04	1.09	1.53	-63.01	-32.78
1160.00	41.51	77.86	4.03	1.09	1.52	-63.54	-33.28
1165.00	41.56	77.93	4.01	1.08	1.52	-64.07	-33.78
1170.00	41.61	78.01	4.00	1.08	1.51	-64.60	-34.28
1175.00	41.66	78.08	3.99	1.08	1.51	-65.13	-34.78
1180.00	41.70	78.15	3.97	1.07	1.50	-65.65	-35.28
1185.00	41.75	78.23	3.96	1.07	1.50	-66.18	-35.78
1190.00	41.80	78.30	3.95	1.07	1.49	-66.71	-36.28
1195.00	41.85	78.37	3.94	1.06	1.49	-67.24	-36.78
1200.00	41.89	78.45	3.92	1.06	1.48	-67.77	-37.28

1205.00	41.94	78.52	3.91	1.06	1.48	-68.30	-37.78
1210.00	41.99	78.59	3.90	1.05	1.47	-68.83	-38.28
1215.00	42.03	78.66	3.88	1.05	1.47	-69.36	-38.78
1220.00	42.08	78.73	3.87	1.05	1.46	-69.89	-39.29
1225.00	42.13	78.81	3.86	1.04	1.46	-70.42	-39.79
1230.00	42.17	78.88	3.85	1.04	1.45	-70.95	-40.29
1235.00	42.22	78.95	3.84	1.04	1.45	-71.48	-40.80
1240.00	42.26	79.02	3.82	1.03	1.44	-72.01	-41.30
1245.00	42.31	79.09	3.81	1.03	1.44	-72.55	-41.80
1250.00	42.36	79.16	3.80	1.03	1.44	-73.08	-42.31
1255.00	42.40	79.23	3.79	1.02	1.43	-73.61	-42.81
1260.00	42.45	79.30	3.78	1.02	1.43	-74.14	-43.32
1265.00	42.49	79.37	3.76	1.02	1.42	-74.67	-43.82
1270.00	42.54	79.44	3.75	1.01	1.42	-75.21	-44.33
1275.00	42.58	79.51	3.74	1.01	1.41	-75.74	-44.84
1280.00	42.63	79.58	3.73	1.01	1.41	-76.27	-45.34
1285.00	42.67	79.64	3.72	1.00	1.41	-76.81	-45.85
1290.00	42.72	79.71	3.71	1.00	1.40	-77.34	-46.36
1295.00	42.76	79.78	3.70	1.00	1.40	-77.87	-46.86
1300.00	42.81	79.85	3.69	0.99	1.39	-78.41	-47.37
1305.00	42.85	79.92	3.67	0.99	1.39	-78.94	-47.88
1310.00	42.89	79.98	3.66	0.99	1.38	-79.48	-48.39
1315.00	42.94	80.05	3.65	0.99	1.38	-80.01	-48.89
1320.00	42.98	80.12	3.64	0.98	1.38	-80.55	-49.40
1325.00	43.03	80.19	3.63	0.98	1.37	-81.08	-49.91
1330.00	43.07	80.25	3.62	0.98	1.37	-81.62	-50.42
1335.00	43.11	80.32	3.61	0.97	1.36	-82.15	-50.93
1340.00	43.16	80.39	3.60	0.97	1.36	-82.69	-51.44
1345.00	43.20	80.45	3.59	0.97	1.36	-83.22	-51.95
1350.00	43.24	80.52	3.58	0.97	1.35	-83.76	-52.46
1355.00	43.29	80.58	3.57	0.96	1.35	-84.29	-52.97
1360.00	43.33	80.65	3.56	0.96	1.34	-84.83	-53.48
1365.00	43.37	80.71	3.55	0.96	1.34	-85.37	-53.99
1370.00	43.41	80.78	3.54	0.95	1.34	-85.90	-54.51
1375.00	43.46	80.84	3.53	0.95	1.33	-86.44	-55.02
1380.00	43.50	80.91	3.52	0.95	1.33	-86.98	-55.53
1385.00	43.54	80.97	3.51	0.95	1.33	-87.52	-56.04
1390.00	43.58	81.04	3.50	0.94	1.32	-88.05	-56.55
1395.00	43.63	81.10	3.49	0.94	1.32	-88.59	-57.07
1400.00	43.67	81.16	3.48	0.94	1.31	-89.13	-57.58
1405.00	43.71	81.23	3.47	0.94	1.31	-89.67	-58.09
1410.00	43.75	81.29	3.46	0.93	1.31	-90.21	-58.61
1415.00	43.79	81.35	3.45	0.93	1.30	-90.74	-59.12
1420.00	43.84	81.42	3.44	0.93	1.30	-91.28	-59.64
1425.00	43.88	81.48	3.43	0.93	1.30	-91.82	-60.15
1430.00	43.92	81.54	3.42	0.92	1.29	-92.36	-60.66
1435.00	43.96	81.61	3.41	0.92	1.29	-92.90	-61.18
1440.00	44.00	81.67	3.40	0.92	1.29	-93.44	-61.69
1445.00	44.04	81.73	3.39	0.92	1.28	-93.98	-62.21
1450.00	44.08	81.79	3.38	0.91	1.28	-94.52	-62.73

1455.00	44.12	81.85	3.38	0.91	1.28	-95.06	-63.24
1460.00	44.16	81.92	3.37	0.91	1.27	-95.60	-63.76
1465.00	44.20	81.98	3.36	0.91	1.27	-96.14	-64.27
1470.00	44.25	82.04	3.35	0.90	1.27	-96.68	-64.79
1475.00	44.29	82.10	3.34	0.90	1.26	-97.22	-65.31
1480.00	44.33	82.16	3.33	0.90	1.26	-97.76	-65.82
1485.00	44.37	82.22	3.32	0.90	1.26	-98.30	-66.34
1490.00	44.41	82.28	3.31	0.89	1.25	-98.84	-66.86
1495.00	44.45	82.34	3.30	0.89	1.25	-99.38	-67.38
1500.00	44.49	82.40	3.30	0.89	1.25	-99.93	-67.90
1505.00	44.53	82.46	3.29	0.89	1.24	-100.47	-68.41
1510.00	44.57	82.52	3.28	0.89	1.24	-101.01	-68.93
1515.00	44.61	82.58	3.27	0.88	1.24	-101.55	-69.45
1520.00	44.65	82.64	3.26	0.88	1.23	-102.09	-69.97
1525.00	44.68	82.70	3.25	0.88	1.23	-102.63	-70.49
1530.00	44.72	82.76	3.25	0.88	1.23	-103.18	-71.01
1535.00	44.76	82.82	3.24	0.87	1.22	-103.72	-71.53
1540.00	44.80	82.88	3.23	0.87	1.22	-104.26	-72.05
1545.00	44.84	82.94	3.22	0.87	1.22	-104.81	-72.57
1550.00	44.88	83.00	3.21	0.87	1.21	-105.35	-73.09
1555.00	44.92	83.06	3.20	0.87	1.21	-105.89	-73.61
1560.00	44.96	83.11	3.20	0.86	1.21	-106.43	-74.13
1565.00	45.00	83.17	3.19	0.86	1.21	-106.98	-74.65
1570.00	45.04	83.23	3.18	0.86	1.20	-107.52	-75.17
1575.00	45.07	83.29	3.17	0.86	1.20	-108.07	-75.69
1580.00	45.11	83.35	3.17	0.85	1.20	-108.61	-76.21
1585.00	45.15	83.40	3.16	0.85	1.19	-109.15	-76.74
1590.00	45.19	83.46	3.15	0.85	1.19	-109.70	-77.26
1595.00	45.23	83.52	3.14	0.85	1.19	-110.24	-77.78
1600.00	45.27	83.57	3.13	0.85	1.18	-110.79	-78.30
1605.00	45.30	83.63	3.13	0.84	1.18	-111.33	-78.82
1610.00	45.34	83.69	3.12	0.84	1.18	-111.88	-79.35
1615.00	45.38	83.75	3.11	0.84	1.18	-112.42	-79.87
1620.00	45.42	83.80	3.10	0.84	1.17	-112.97	-80.39
1625.00	45.45	83.86	3.10	0.84	1.17	-113.51	-80.92
1630.00	45.49	83.91	3.09	0.83	1.17	-114.06	-81.44
1635.00	45.53	83.97	3.08	0.83	1.16	-114.60	-81.96
1640.00	45.57	84.03	3.07	0.83	1.16	-115.15	-82.49
1645.00	45.60	84.08	3.07	0.83	1.16	-115.69	-83.01
1650.00	45.64	84.14	3.06	0.83	1.16	-116.24	-83.54
1655.00	45.68	84.19	3.05	0.82	1.15	-116.79	-84.06
1660.00	45.72	84.25	3.05	0.82	1.15	-117.33	-84.58
1665.00	45.75	84.30	3.04	0.82	1.15	-117.88	-85.11
1670.00	45.79	84.36	3.03	0.82	1.15	-118.42	-85.63
1675.00	45.83	84.41	3.02	0.82	1.14	-118.97	-86.16
1680.00	45.86	84.47	3.02	0.81	1.14	-119.52	-86.69
1685.00	45.90	84.52	3.01	0.81	1.14	-120.07	-87.21
1690.00	45.94	84.58	3.00	0.81	1.13	-120.61	-87.74
1695.00	45.97	84.63	3.00	0.81	1.13	-121.16	-88.26
1700.00	46.01	84.69	2.99	0.81	1.13	-121.71	-88.79

1705.00	46.05	84.74	2.98	0.80	1.13	-122.25	-89.32
1710.00	46.08	84.79	2.98	0.80	1.12	-122.80	-89.84
1715.00	46.12	84.85	2.97	0.80	1.12	-123.35	-90.37
1720.00	46.15	84.90	2.96	0.80	1.12	-123.90	-90.90
1725.00	46.19	84.96	2.95	0.80	1.12	-124.44	-91.42
1730.00	46.23	85.01	2.95	0.80	1.11	-124.99	-91.95
1735.00	46.26	85.06	2.94	0.79	1.11	-125.54	-92.48
1740.00	46.30	85.12	2.94	0.79	1.11	-126.09	-93.00
1745.00	46.33	85.17	2.93	0.79	1.11	-126.64	-93.53
1750.00	46.37	85.22	2.92	0.79	1.10	-127.19	-94.06
1755.00	46.40	85.28	2.92	0.79	1.10	-127.73	-94.59
1760.00	46.44	85.33	2.91	0.79	1.10	-128.28	-95.12
1765.00	46.47	85.38	2.90	0.78	1.10	-128.83	-95.65
1770.00	46.51	85.43	2.90	0.78	1.09	-129.38	-96.17
1775.00	46.55	85.49	2.89	0.78	1.09	-129.93	-96.70
1780.00	46.58	85.54	2.88	0.78	1.09	-130.48	-97.23
1785.00	46.62	85.59	2.88	0.78	1.09	-131.03	-97.76
1790.00	46.65	85.64	2.87	0.77	1.08	-131.58	-98.29
1795.00	46.69	85.69	2.86	0.77	1.08	-132.13	-98.82
1800.00	46.72	85.75	2.86	0.77	1.08	-132.68	-99.35
1805.00	46.76	85.80	2.85	0.77	1.08	-133.23	-99.88
1810.00	46.79	85.85	2.85	0.77	1.08	-133.78	-100.41
1815.00	46.83	85.90	2.84	0.77	1.07	-134.33	-100.94
1820.00	46.86	85.95	2.83	0.76	1.07	-134.88	-101.47
1825.00	46.89	86.00	2.83	0.76	1.07	-135.43	-102.00
1830.00	46.93	86.05	2.82	0.76	1.07	-135.98	-102.53
1835.00	46.96	86.10	2.82	0.76	1.06	-136.53	-103.06
1840.00	47.00	86.15	2.81	0.76	1.06	-137.08	-103.59
1845.00	47.03	86.21	2.80	0.76	1.06	-137.63	-104.12
1850.00	47.07	86.26	2.80	0.76	1.06	-138.18	-104.65
1855.00	47.10	86.31	2.79	0.75	1.05	-138.73	-105.19
1860.00	47.13	86.36	2.79	0.75	1.05	-139.28	-105.72
1865.00	47.17	86.41	2.78	0.75	1.05	-139.83	-106.25
1870.00	47.20	86.46	2.77	0.75	1.05	-140.39	-106.78
1875.00	47.24	86.51	2.77	0.75	1.05	-140.94	-107.31
1880.00	47.27	86.56	2.76	0.75	1.04	-141.49	-107.84
1885.00	47.30	86.61	2.76	0.74	1.04	-142.04	-108.38
1890.00	47.34	86.66	2.75	0.74	1.04	-142.59	-108.91
1895.00	47.37	86.71	2.75	0.74	1.04	-143.14	-109.44
1900.00	47.40	86.76	2.74	0.74	1.04	-143.70	-109.98
1905.00	47.44	86.80	2.73	0.74	1.03	-144.25	-110.51
1910.00	47.47	86.85	2.73	0.74	1.03	-144.80	-111.04
1915.00	47.50	86.90	2.72	0.73	1.03	-145.35	-111.57
1920.00	47.54	86.95	2.72	0.73	1.03	-145.91	-112.11
1925.00	47.57	87.00	2.71	0.73	1.02	-146.46	-112.64
1930.00	47.60	87.05	2.71	0.73	1.02	-147.01	-113.17
1935.00	47.64	87.10	2.70	0.73	1.02	-147.56	-113.71
1940.00	47.67	87.15	2.70	0.73	1.02	-148.12	-114.24
1945.00	47.70	87.20	2.69	0.73	1.02	-148.67	-114.78
1950.00	47.74	87.24	2.68	0.72	1.01	-149.22	-115.31

1955.00	47.77	87.29	2.68	0.72	1.01	-149.78	-115.85
1960.00	47.80	87.34	2.67	0.72	1.01	-150.33	-116.38
1965.00	47.83	87.39	2.67	0.72	1.01	-150.88	-116.91
1970.00	47.87	87.44	2.66	0.72	1.01	-151.43	-117.45
1975.00	47.90	87.48	2.66	0.72	1.00	-151.99	-117.98
1980.00	47.93	87.53	2.65	0.72	1.00	-152.54	-118.52
1985.00	47.96	87.58	2.65	0.71	1.00	-153.10	-119.05
1990.00	48.00	87.63	2.64	0.71	1.00	-153.65	-119.59
1995.00	48.03	87.67	2.64	0.71	1.00	-154.20	-120.12
2000.00	48.06	87.72	2.63	0.71	0.99	-154.76	-120.66
2005.00	48.09	87.77	2.63	0.71	0.99	-155.31	-121.20
2010.00	48.13	87.82	2.62	0.71	0.99	-155.87	-121.73
2015.00	48.16	87.86	2.62	0.71	0.99	-156.42	-122.27
2020.00	48.19	87.91	2.61	0.70	0.99	-156.97	-122.80
2025.00	48.22	87.96	2.61	0.70	0.98	-157.53	-123.34
2030.00	48.25	88.00	2.60	0.70	0.98	-158.08	-123.88
2035.00	48.29	88.05	2.60	0.70	0.98	-158.64	-124.41
2040.00	48.32	88.10	2.59	0.70	0.98	-159.19	-124.95
2045.00	48.35	88.14	2.59	0.70	0.98	-159.75	-125.49
2050.00	48.38	88.19	2.58	0.70	0.98	-160.30	-126.02
2055.00	48.41	88.24	2.58	0.70	0.97	-160.86	-126.56
2060.00	48.44	88.28	2.57	0.69	0.97	-161.41	-127.10
2065.00	48.48	88.33	2.57	0.69	0.97	-161.97	-127.64
2070.00	48.51	88.37	2.56	0.69	0.97	-162.52	-128.17
2075.00	48.54	88.42	2.56	0.69	0.97	-163.08	-128.71
2080.00	48.57	88.47	2.55	0.69	0.96	-163.63	-129.25
2085.00	48.60	88.51	2.55	0.69	0.96	-164.19	-129.79
2090.00	48.63	88.56	2.54	0.69	0.96	-164.75	-130.32
2095.00	48.66	88.60	2.54	0.68	0.96	-165.30	-130.86
2100.00	48.70	88.65	2.53	0.68	0.96	-165.86	-131.40
2105.00	48.73	88.69	2.53	0.68	0.96	-166.41	-131.94
2110.00	48.76	88.74	2.52	0.68	0.95	-166.97	-132.48
2115.00	48.79	88.78	2.52	0.68	0.95	-167.53	-133.02
2120.00	48.82	88.83	2.51	0.68	0.95	-168.08	-133.55
2125.00	48.85	88.87	2.51	0.68	0.95	-168.64	-134.09
2130.00	48.88	88.92	2.50	0.68	0.95	-169.19	-134.63
2135.00	48.91	88.96	2.50	0.67	0.94	-169.75	-135.17
2140.00	48.94	89.01	2.50	0.67	0.94	-170.31	-135.71
2145.00	48.97	89.05	2.49	0.67	0.94	-170.86	-136.25
2150.00	49.00	89.10	2.49	0.67	0.94	-171.42	-136.79
2155.00	49.03	89.14	2.48	0.67	0.94	-171.98	-137.33
2160.00	49.06	89.19	2.48	0.67	0.94	-172.53	-137.87
2165.00	49.10	89.23	2.47	0.67	0.93	-173.09	-138.41
2170.00	49.13	89.27	2.47	0.67	0.93	-173.65	-138.95
2175.00	49.16	89.32	2.46	0.67	0.93	-174.21	-139.49
2180.00	49.19	89.36	2.46	0.66	0.93	-174.76	-140.03
2185.00	49.22	89.41	2.46	0.66	0.93	-175.32	-140.57
2190.00	49.25	89.45	2.45	0.66	0.93	-175.88	-141.11
2195.00	49.28	89.49	2.45	0.66	0.92	-176.43	-141.65
2200.00	49.31	89.54	2.44	0.66	0.92	-176.99	-142.19

2205.00	49.34	89.58	2.44	0.66	0.92	-177.55	-142.73
2210.00	49.37	89.63	2.43	0.66	0.92	-178.11	-143.27
2215.00	49.40	89.67	2.43	0.66	0.92	-178.67	-143.81
2220.00	49.43	89.71	2.42	0.65	0.92	-179.22	-144.35
2225.00	49.46	89.76	2.42	0.65	0.91	-179.78	-144.89
2230.00	49.49	89.80	2.42	0.65	0.91	-180.34	-145.43
2235.00	49.52	89.84	2.41	0.65	0.91	-180.90	-145.98
2240.00	49.55	89.88	2.41	0.65	0.91	-181.46	-146.52
2245.00	49.58	89.93	2.40	0.65	0.91	-182.01	-147.06
2250.00	49.61	89.97	2.40	0.65	0.91	-182.57	-147.60
2255.00	49.63	90.01	2.40	0.65	0.91	-183.13	-148.14
2260.00	49.66	90.06	2.39	0.65	0.90	-183.69	-148.68
2265.00	49.69	90.10	2.39	0.64	0.90	-184.25	-149.23
2270.00	49.72	90.14	2.38	0.64	0.90	-184.81	-149.77
2275.00	49.75	90.18	2.38	0.64	0.90	-185.36	-150.31
2280.00	49.78	90.23	2.37	0.64	0.90	-185.92	-150.85
2285.00	49.81	90.27	2.37	0.64	0.90	-186.48	-151.40
2290.00	49.84	90.31	2.37	0.64	0.89	-187.04	-151.94
2295.00	49.87	90.35	2.36	0.64	0.89	-187.60	-152.48
2300.00	49.90	90.40	2.36	0.64	0.89	-188.16	-153.02
2305.00	49.93	90.44	2.35	0.64	0.89	-188.72	-153.57
2310.00	49.96	90.48	2.35	0.63	0.89	-189.28	-154.11
2315.00	49.99	90.52	2.35	0.63	0.89	-189.84	-154.65
2320.00	50.01	90.56	2.34	0.63	0.89	-190.40	-155.20
2325.00	50.04	90.60	2.34	0.63	0.88	-190.96	-155.74
2330.00	50.07	90.65	2.33	0.63	0.88	-191.52	-156.28
2335.00	50.10	90.69	2.33	0.63	0.88	-192.08	-156.83
2340.00	50.13	90.73	2.33	0.63	0.88	-192.63	-157.37
2345.00	50.16	90.77	2.32	0.63	0.88	-193.19	-157.91
2350.00	50.19	90.81	2.32	0.63	0.88	-193.75	-158.46
2355.00	50.22	90.85	2.31	0.62	0.87	-194.31	-159.00
2360.00	50.24	90.89	2.31	0.62	0.87	-194.87	-159.54
2365.00	50.27	90.94	2.31	0.62	0.87	-195.43	-160.09
2370.00	50.30	90.98	2.30	0.62	0.87	-195.99	-160.63
2375.00	50.33	91.02	2.30	0.62	0.87	-196.55	-161.18
2380.00	50.36	91.06	2.30	0.62	0.87	-197.12	-161.72
2385.00	50.39	91.10	2.29	0.62	0.87	-197.68	-162.27
2390.00	50.41	91.14	2.29	0.62	0.86	-198.24	-162.81
2395.00	50.44	91.18	2.28	0.62	0.86	-198.80	-163.35
2400.00	50.47	91.22	2.28	0.62	0.86	-199.36	-163.90
2405.00	50.50	91.26	2.28	0.61	0.86	-199.92	-164.44
2410.00	50.53	91.30	2.27	0.61	0.86	-200.48	-164.99
2415.00	50.56	91.34	2.27	0.61	0.86	-201.04	-165.53
2420.00	50.58	91.38	2.27	0.61	0.86	-201.60	-166.08
2425.00	50.61	91.42	2.26	0.61	0.85	-202.16	-166.62
2430.00	50.64	91.46	2.26	0.61	0.85	-202.72	-167.17
2435.00	50.67	91.50	2.25	0.61	0.85	-203.28	-167.72
2440.00	50.70	91.54	2.25	0.61	0.85	-203.84	-168.26
2445.00	50.72	91.58	2.25	0.61	0.85	-204.40	-168.81
2450.00	50.75	91.62	2.24	0.61	0.85	-204.97	-169.35

2455.00	50.78	91.66	2.24	0.60	0.85	-205.53	-169.90
2460.00	50.81	91.70	2.24	0.60	0.85	-206.09	-170.44
2465.00	50.83	91.74	2.23	0.60	0.84	-206.65	-170.99
2470.00	50.86	91.78	2.23	0.60	0.84	-207.21	-171.54
2475.00	50.89	91.82	2.23	0.60	0.84	-207.77	-172.08
2480.00	50.92	91.86	2.22	0.60	0.84	-208.33	-172.63
2485.00	50.94	91.90	2.22	0.60	0.84	-208.90	-173.18
2490.00	50.97	91.94	2.22	0.60	0.84	-209.46	-173.72
2495.00	51.00	91.98	2.21	0.60	0.84	-210.02	-174.27
2500.00	51.03	92.02	2.21	0.60	0.83	-210.58	-174.81
2505.00	51.05	92.06	2.20	0.60	0.83	-211.14	-175.36
2510.00	51.08	92.10	2.20	0.59	0.83	-211.71	-175.91
2515.00	51.11	92.14	2.20	0.59	0.83	-212.27	-176.46
2520.00	51.14	92.17	2.19	0.59	0.83	-212.83	-177.00
2525.00	51.16	92.21	2.19	0.59	0.83	-213.39	-177.55
2530.00	51.19	92.25	2.19	0.59	0.83	-213.95	-178.10
2535.00	51.22	92.29	2.18	0.59	0.83	-214.52	-178.64
2540.00	51.24	92.33	2.18	0.59	0.82	-215.08	-179.19
2545.00	51.27	92.37	2.18	0.59	0.82	-215.64	-179.74
2550.00	51.30	92.41	2.17	0.59	0.82	-216.20	-180.29
2555.00	51.33	92.45	2.17	0.59	0.82	-216.77	-180.83
2560.00	51.35	92.48	2.17	0.59	0.82	-217.33	-181.38
2565.00	51.38	92.52	2.16	0.58	0.82	-217.89	-181.93
2570.00	51.41	92.56	2.16	0.58	0.82	-218.46	-182.48
2575.00	51.43	92.60	2.16	0.58	0.82	-219.02	-183.03
2580.00	51.46	92.64	2.15	0.58	0.81	-219.58	-183.57
2585.00	51.49	92.68	2.15	0.58	0.81	-220.14	-184.12
2590.00	51.51	92.71	2.15	0.58	0.81	-220.71	-184.67
2595.00	51.54	92.75	2.14	0.58	0.81	-221.27	-185.22
2600.00	51.57	92.79	2.14	0.58	0.81	-221.83	-185.77
2605.00	51.59	92.83	2.14	0.58	0.81	-222.40	-186.31
2610.00	51.62	92.86	2.13	0.58	0.81	-222.96	-186.86
2615.00	51.65	92.90	2.13	0.58	0.81	-223.52	-187.41
2620.00	51.67	92.94	2.13	0.57	0.80	-224.09	-187.96
2625.00	51.70	92.98	2.13	0.57	0.80	-224.65	-188.51
2630.00	51.73	93.02	2.12	0.57	0.80	-225.21	-189.06
2635.00	51.75	93.05	2.12	0.57	0.80	-225.78	-189.61
2640.00	51.78	93.09	2.12	0.57	0.80	-226.34	-190.16
2645.00	51.80	93.13	2.11	0.57	0.80	-226.90	-190.71
2650.00	51.83	93.17	2.11	0.57	0.80	-227.47	-191.25
2655.00	51.86	93.20	2.11	0.57	0.80	-228.03	-191.80
2660.00	51.88	93.24	2.10	0.57	0.79	-228.60	-192.35
2665.00	51.91	93.28	2.10	0.57	0.79	-229.16	-192.90
2670.00	51.94	93.31	2.10	0.57	0.79	-229.72	-193.45
2675.00	51.96	93.35	2.09	0.57	0.79	-230.29	-194.00
2680.00	51.99	93.39	2.09	0.56	0.79	-230.85	-194.55
2685.00	52.01	93.43	2.09	0.56	0.79	-231.42	-195.10
2690.00	52.04	93.46	2.08	0.56	0.79	-231.98	-195.65
2695.00	52.07	93.50	2.08	0.56	0.79	-232.54	-196.20
2700.00	52.09	93.54	2.08	0.56	0.79	-233.11	-196.75

2705.00	52.12	93.57	2.08	0.56	0.78	-233.67	-197.30
2710.00	52.14	93.61	2.07	0.56	0.78	-234.24	-197.85
2715.00	52.17	93.65	2.07	0.56	0.78	-234.80	-198.40
2720.00	52.19	93.68	2.07	0.56	0.78	-235.37	-198.95
2725.00	52.22	93.72	2.06	0.56	0.78	-235.93	-199.50
2730.00	52.25	93.75	2.06	0.56	0.78	-236.49	-200.05
2735.00	52.27	93.79	2.06	0.56	0.78	-237.06	-200.60
2740.00	52.30	93.83	2.05	0.55	0.78	-237.62	-201.15
2745.00	52.32	93.86	2.05	0.55	0.78	-238.19	-201.70
2750.00	52.35	93.90	2.05	0.55	0.77	-238.75	-202.26
2755.00	52.37	93.94	2.05	0.55	0.77	-239.32	-202.81
2760.00	52.40	93.97	2.04	0.55	0.77	-239.88	-203.36
2765.00	52.42	94.01	2.04	0.55	0.77	-240.45	-203.91
2770.00	52.45	94.04	2.04	0.55	0.77	-241.01	-204.46
2775.00	52.48	94.08	2.03	0.55	0.77	-241.58	-205.01
2780.00	52.50	94.12	2.03	0.55	0.77	-242.14	-205.56
2785.00	52.53	94.15	2.03	0.55	0.77	-242.71	-206.11
2790.00	52.55	94.19	2.03	0.55	0.77	-243.27	-206.66
2795.00	52.58	94.22	2.02	0.55	0.76	-243.84	-207.22
2800.00	52.60	94.26	2.02	0.55	0.76	-244.40	-207.77
2805.00	52.63	94.29	2.02	0.54	0.76	-244.97	-208.32
2810.00	52.65	94.33	2.01	0.54	0.76	-245.54	-208.87
2815.00	52.68	94.37	2.01	0.54	0.76	-246.10	-209.42
2820.00	52.70	94.40	2.01	0.54	0.76	-246.67	-209.97
2825.00	52.73	94.44	2.01	0.54	0.76	-247.23	-210.53
2830.00	52.75	94.47	2.00	0.54	0.76	-247.80	-211.08
2835.00	52.78	94.51	2.00	0.54	0.76	-248.36	-211.63
2840.00	52.80	94.54	2.00	0.54	0.75	-248.93	-212.18
2845.00	52.83	94.58	1.99	0.54	0.75	-249.50	-212.73
2850.00	52.85	94.61	1.99	0.54	0.75	-250.06	-213.29
2855.00	52.88	94.65	1.99	0.54	0.75	-250.63	-213.84
2860.00	52.90	94.68	1.99	0.54	0.75	-251.19	-214.39
2865.00	52.93	94.72	1.98	0.54	0.75	-251.76	-214.94
2870.00	52.95	94.75	1.98	0.53	0.75	-252.33	-215.50
2875.00	52.98	94.79	1.98	0.53	0.75	-252.89	-216.05
2880.00	53.00	94.82	1.98	0.53	0.75	-253.46	-216.60

Notes to User

Only values shown blue to be edited

Sheet only for england and wales

In M5-D	J0	J1	J2	Cr	In (MT-D/M5-D)	MT-D/M5-D
2.21	0.1699	0.0028	0.000114	0.205014	0.636605	1.890053
2.39	0.1699	0.0028	0.000114	0.214282	0.665383	1.945235
2.51	0.1644	0.005831	-0.00013	0.215837	0.670212	1.954651
2.60	0.1644	0.005831	-0.00013	0.218417	0.678221	1.97037
2.66	0.1644	0.005831	-0.00013	0.220337	0.684185	1.982156
2.71	0.1644	0.005831	-0.00013	0.22182	0.688788	1.9913
2.76	0.1644	0.005831	-0.00013	0.222992	0.692427	1.998561
2.80	0.1644	0.005831	-0.00013	0.223934	0.695354	2.004418
2.83	0.1644	0.005831	-0.00013	0.224701	0.697734	2.009195
2.86	0.1644	0.005831	-0.00013	0.225329	0.699684	2.013116
2.89	0.1644	0.005831	-0.00013	0.225845	0.701287	2.016345
2.92	0.1644	0.005831	-0.00013	0.226269	0.702605	2.019005
2.94	0.1644	0.005831	-0.00013	0.226617	0.703686	2.021189
2.96	0.1644	0.005831	-0.00013	0.226901	0.704567	2.02297
2.98	0.1644	0.005831	-0.00013	0.22713	0.705277	2.024408
3.00	0.1644	0.005831	-0.00013	0.227311	0.70584	2.025548
3.01	0.1644	0.005831	-0.00013	0.227451	0.706275	2.02643
3.03	0.1644	0.005831	-0.00013	0.227556	0.706599	2.027085
3.05	0.1644	0.005831	-0.00013	0.227628	0.706823	2.02754
3.06	0.1644	0.005831	-0.00013	0.227672	0.70696	2.027818
3.07	0.1644	0.005831	-0.00013	0.227691	0.707019	2.027937
3.09	0.1644	0.005831	-0.00013	0.227687	0.707008	2.027915
3.10	0.1644	0.005831	-0.00013	0.227664	0.706934	2.027766
3.11	0.1644	0.005831	-0.00013	0.227622	0.706804	2.027501
3.12	0.1644	0.005831	-0.00013	0.227563	0.706622	2.027132
3.13	0.1644	0.005831	-0.00013	0.227489	0.706393	2.026668
3.14	0.1644	0.005831	-0.00013	0.227402	0.706121	2.026117
3.15	0.1644	0.005831	-0.00013	0.227302	0.70581	2.025488
3.16	0.1644	0.005831	-0.00013	0.22719	0.705464	2.024786
3.17	0.1644	0.005831	-0.00013	0.227068	0.705084	2.024017
3.18	0.1644	0.005831	-0.00013	0.226936	0.704674	2.023188
3.19	0.1644	0.005831	-0.00013	0.226795	0.704236	2.022302
3.20	0.1644	0.005831	-0.00013	0.226645	0.703772	2.021364
3.21	0.1644	0.005831	-0.00013	0.226488	0.703284	2.020377
3.21	0.1644	0.005831	-0.00013	0.226324	0.702774	2.019346
3.22	0.1644	0.005831	-0.00013	0.226153	0.702243	2.018274
3.23	0.1644	0.005831	-0.00013	0.225975	0.701692	2.017163
3.24	0.1644	0.005831	-0.00013	0.225792	0.701124	2.016017
3.24	0.1644	0.005831	-0.00013	0.225604	0.700538	2.014837

3.25	0.1644	0.005831	-0.00013	0.22541	0.699937	2.013626
3.26	0.1644	0.005831	-0.00013	0.225212	0.699321	2.012386
3.26	0.1644	0.005831	-0.00013	0.225009	0.698691	2.011119
3.27	0.1644	0.005831	-0.00013	0.224802	0.698049	2.009827
3.28	0.1644	0.005831	-0.00013	0.224591	0.697394	2.008511
3.28	0.1644	0.005831	-0.00013	0.224377	0.696727	2.007173
3.29	0.1644	0.005831	-0.00013	0.224158	0.69605	2.005815
3.30	0.1644	0.005831	-0.00013	0.223937	0.695363	2.004437
3.30	0.1644	0.005831	-0.00013	0.223713	0.694666	2.00304
3.31	0.1644	0.005831	-0.00013	0.223485	0.69396	2.001627
3.31	0.1644	0.005831	-0.00013	0.223255	0.693246	2.000198
3.32	0.1644	0.005831	-0.00013	0.223023	0.692524	1.998754
3.32	0.1644	0.005831	-0.00013	0.222788	0.691794	1.997296
3.33	0.1644	0.005831	-0.00013	0.222551	0.691057	1.995825
3.33	0.1644	0.005831	-0.00013	0.222311	0.690314	1.994341
3.34	0.1644	0.005831	-0.00013	0.222069	0.689564	1.992846
3.34	0.1644	0.005831	-0.00013	0.221826	0.688807	1.991339
3.35	0.1644	0.005831	-0.00013	0.221581	0.688046	1.989823
3.35	0.1644	0.005831	-0.00013	0.221334	0.687279	1.988297
3.36	0.1644	0.005831	-0.00013	0.221085	0.686506	1.986762
3.36	0.1644	0.005831	-0.00013	0.220835	0.685729	1.985219
3.37	0.1644	0.005831	-0.00013	0.220583	0.684947	1.983667
3.37	0.1644	0.005831	-0.00013	0.22033	0.684161	1.982109
3.38	0.1644	0.005831	-0.00013	0.220075	0.683371	1.980543
3.38	0.1644	0.005831	-0.00013	0.219819	0.682577	1.978971
3.38	0.1644	0.005831	-0.00013	0.219563	0.681779	1.977393
3.39	0.1644	0.005831	-0.00013	0.219304	0.680978	1.975809
3.39	0.1644	0.005831	-0.00013	0.219045	0.680173	1.974219
3.40	0.1644	0.005831	-0.00013	0.218785	0.679365	1.972625
3.40	0.1644	0.005831	-0.00013	0.218524	0.678554	1.971026
3.40	0.1644	0.005831	-0.00013	0.218262	0.677741	1.969423
3.41	0.1644	0.005831	-0.00013	0.217999	0.676925	1.967816
3.41	0.1644	0.005831	-0.00013	0.217735	0.676106	1.966206
3.42	0.1644	0.005831	-0.00013	0.217471	0.675284	1.964592
3.42	0.1644	0.005831	-0.00013	0.217206	0.674461	1.962974
3.42	0.1644	0.005831	-0.00013	0.21694	0.673635	1.961354
3.43	0.1644	0.005831	-0.00013	0.216673	0.672807	1.959731
3.43	0.1644	0.005831	-0.00013	0.216406	0.671978	1.958106
3.43	0.1644	0.005831	-0.00013	0.216138	0.671146	1.956478
3.44	0.2644	-0.00162	3.15E-06	0.217046	0.673965	1.962001
3.44	0.2644	-0.00162	3.15E-06	0.216895	0.673496	1.961081
3.44	0.2644	-0.00162	3.15E-06	0.216745	0.673031	1.960169
3.45	0.2644	-0.00162	3.15E-06	0.216597	0.672571	1.959267
3.45	0.2644	-0.00162	3.15E-06	0.21645	0.672115	1.958374
3.45	0.2644	-0.00162	3.15E-06	0.216305	0.671663	1.95749
3.46	0.2644	-0.00162	3.15E-06	0.216161	0.671215	1.956614
3.46	0.2644	-0.00162	3.15E-06	0.216018	0.670772	1.955746
3.46	0.2644	-0.00162	3.15E-06	0.215876	0.670332	1.954887
3.47	0.2644	-0.00162	3.15E-06	0.215736	0.669897	1.954035
3.47	0.2644	-0.00162	3.15E-06	0.215597	0.669465	1.953192

3.47	0.2644	-0.00162	3.15E-06	0.215459	0.669037	1.952356
3.48	0.2644	-0.00162	3.15E-06	0.215322	0.668613	1.951528
3.48	0.2644	-0.00162	3.15E-06	0.215187	0.668192	1.950708
3.48	0.2644	-0.00162	3.15E-06	0.215053	0.667775	1.949894
3.48	0.2644	-0.00162	3.15E-06	0.214919	0.667362	1.949088
3.49	0.2644	-0.00162	3.15E-06	0.214787	0.666951	1.948289
3.49	0.2644	-0.00162	3.15E-06	0.214656	0.666545	1.947496
3.49	0.2644	-0.00162	3.15E-06	0.214526	0.666141	1.946711
3.50	0.2644	-0.00162	3.15E-06	0.214398	0.665741	1.945931
3.50	0.2644	-0.00162	3.15E-06	0.21427	0.665344	1.945159
3.50	0.2644	-0.00162	3.15E-06	0.214143	0.66495	1.944393
3.50	0.2644	-0.00162	3.15E-06	0.214017	0.664559	1.943633
3.51	0.2644	-0.00162	3.15E-06	0.213892	0.664171	1.942879
3.51	0.2644	-0.00162	3.15E-06	0.213768	0.663786	1.942131
3.51	0.2644	-0.00162	3.15E-06	0.213645	0.663404	1.941389
3.51	0.2644	-0.00162	3.15E-06	0.213523	0.663025	1.940653
3.52	0.2644	-0.00162	3.15E-06	0.213402	0.662648	1.939923
3.52	0.2644	-0.00162	3.15E-06	0.213281	0.662275	1.939198
3.52	0.2644	-0.00162	3.15E-06	0.213162	0.661904	1.938479
3.52	0.2644	-0.00162	3.15E-06	0.213043	0.661535	1.937765
3.53	0.2644	-0.00162	3.15E-06	0.212925	0.66117	1.937057
3.53	0.2644	-0.00162	3.15E-06	0.212809	0.660807	1.936354
3.53	0.2644	-0.00162	3.15E-06	0.212692	0.660446	1.935656
3.53	0.2644	-0.00162	3.15E-06	0.212577	0.660088	1.934963
3.54	0.2644	-0.00162	3.15E-06	0.212463	0.659733	1.934276
3.54	0.2644	-0.00162	3.15E-06	0.212349	0.65938	1.933593
3.54	0.2644	-0.00162	3.15E-06	0.212236	0.659029	1.932915
3.54	0.2644	-0.00162	3.15E-06	0.212124	0.658681	1.932242
3.55	0.2644	-0.00162	3.15E-06	0.212013	0.658335	1.931573
3.55	0.2644	-0.00162	3.15E-06	0.211902	0.657991	1.93091
3.55	0.2644	-0.00162	3.15E-06	0.211792	0.65765	1.93025
3.55	0.2644	-0.00162	3.15E-06	0.211683	0.65731	1.929596
3.55	0.2644	-0.00162	3.15E-06	0.211574	0.656973	1.928945
3.56	0.2644	-0.00162	3.15E-06	0.211466	0.656639	1.928299
3.56	0.2644	-0.00162	3.15E-06	0.211359	0.656306	1.927658
3.56	0.2644	-0.00162	3.15E-06	0.211253	0.655975	1.92702
3.56	0.2644	-0.00162	3.15E-06	0.211147	0.655646	1.926387
3.57	0.2644	-0.00162	3.15E-06	0.211042	0.65532	1.925758
3.57	0.2644	-0.00162	3.15E-06	0.210937	0.654995	1.925133
3.57	0.2644	-0.00162	3.15E-06	0.210833	0.654673	1.924512
3.57	0.2644	-0.00162	3.15E-06	0.21073	0.654352	1.923895
3.57	0.2644	-0.00162	3.15E-06	0.210627	0.654033	1.923282
3.58	0.2644	-0.00162	3.15E-06	0.210525	0.653716	1.922673
3.58	0.2644	-0.00162	3.15E-06	0.210424	0.653401	1.922067
3.58	0.2644	-0.00162	3.15E-06	0.210323	0.653088	1.921466
3.58	0.2644	-0.00162	3.15E-06	0.210223	0.652777	1.920868
3.58	0.2644	-0.00162	3.15E-06	0.210123	0.652467	1.920273
3.59	0.2644	-0.00162	3.15E-06	0.210024	0.65216	1.919682
3.59	0.2644	-0.00162	3.15E-06	0.209925	0.651854	1.919095
3.59	0.2644	-0.00162	3.15E-06	0.209827	0.65155	1.918511

3.59	0.2644	-0.00162	3.15E-06	0.20973	0.651247	1.917931
3.59	0.2644	-0.00162	3.15E-06	0.209633	0.650946	1.917354
3.60	0.2644	-0.00162	3.15E-06	0.209537	0.650647	1.916781
3.60	0.2644	-0.00162	3.15E-06	0.209441	0.650349	1.91621
3.60	0.2644	-0.00162	3.15E-06	0.209346	0.650054	1.915643
3.60	0.2644	-0.00162	3.15E-06	0.209251	0.649759	1.91508
3.60	0.2644	-0.00162	3.15E-06	0.209157	0.649467	1.914519
3.60	0.2644	-0.00162	3.15E-06	0.209063	0.649175	1.913962
3.61	0.2644	-0.00162	3.15E-06	0.208969	0.648886	1.913408
3.61	0.2644	-0.00162	3.15E-06	0.208877	0.648598	1.912857
3.61	0.2644	-0.00162	3.15E-06	0.208784	0.648311	1.912309
3.61	0.2644	-0.00162	3.15E-06	0.208693	0.648026	1.911763
3.61	0.2644	-0.00162	3.15E-06	0.208601	0.647742	1.911221
3.62	0.2644	-0.00162	3.15E-06	0.20851	0.64746	1.910682
3.62	0.2644	-0.00162	3.15E-06	0.20842	0.64718	1.910146
3.62	0.2644	-0.00162	3.15E-06	0.20833	0.6469	1.909613
3.62	0.2644	-0.00162	3.15E-06	0.208241	0.646623	1.909082
3.62	0.2644	-0.00162	3.15E-06	0.208152	0.646346	1.908554
3.62	0.2644	-0.00162	3.15E-06	0.208063	0.646071	1.908029
3.63	0.2644	-0.00162	3.15E-06	0.207975	0.645797	1.907507
3.63	0.2644	-0.00162	3.15E-06	0.207887	0.645525	1.906988
3.63	0.2644	-0.00162	3.15E-06	0.2078	0.645254	1.906471
3.63	0.2644	-0.00162	3.15E-06	0.207713	0.644984	1.905957
3.63	0.2644	-0.00162	3.15E-06	0.207627	0.644716	1.905445
3.63	0.2644	-0.00162	3.15E-06	0.20754	0.644449	1.904936
3.64	0.2644	-0.00162	3.15E-06	0.207455	0.644183	1.90443
3.64	0.2644	-0.00162	3.15E-06	0.20737	0.643918	1.903926
3.64	0.2644	-0.00162	3.15E-06	0.207285	0.643655	1.903425
3.64	0.2644	-0.00162	3.15E-06	0.2072	0.643393	1.902926
3.64	0.2644	-0.00162	3.15E-06	0.207116	0.643132	1.902429
3.64	0.2644	-0.00162	3.15E-06	0.207033	0.642872	1.901935
3.65	0.2644	-0.00162	3.15E-06	0.20695	0.642613	1.901444
3.65	0.2644	-0.00162	3.15E-06	0.206867	0.642356	1.900955
3.65	0.2644	-0.00162	3.15E-06	0.206784	0.6421	1.900468
3.65	0.2644	-0.00162	3.15E-06	0.206702	0.641845	1.899983
3.65	0.2644	-0.00162	3.15E-06	0.20662	0.641591	1.899501
3.65	0.2644	-0.00162	3.15E-06	0.206539	0.641338	1.899021
3.65	0.2644	-0.00162	3.15E-06	0.206458	0.641087	1.898543
3.66	0.2644	-0.00162	3.15E-06	0.206377	0.640836	1.898068
3.66	0.2644	-0.00162	3.15E-06	0.206297	0.640587	1.897595
3.66	0.2644	-0.00162	3.15E-06	0.206217	0.640339	1.897124
3.66	0.2644	-0.00162	3.15E-06	0.206137	0.640092	1.896655
3.66	0.2644	-0.00162	3.15E-06	0.206058	0.639846	1.896188
3.66	0.2644	-0.00162	3.15E-06	0.205979	0.6396	1.895723
3.66	0.2644	-0.00162	3.15E-06	0.205901	0.639356	1.895261
3.67	0.2644	-0.00162	3.15E-06	0.205822	0.639113	1.8948
3.67	0.2644	-0.00162	3.15E-06	0.205744	0.638872	1.894342
3.67	0.2644	-0.00162	3.15E-06	0.205667	0.638631	1.893886
3.67	0.2644	-0.00162	3.15E-06	0.20559	0.638391	1.893431
3.67	0.2644	-0.00162	3.15E-06	0.205513	0.638152	1.892979

3.67	0.2644	-0.00162	3.15E-06	0.205436	0.637914	1.892529
3.67	0.2644	-0.00162	3.15E-06	0.20536	0.637677	1.89208
3.68	0.2644	-0.00162	3.15E-06	0.205284	0.637441	1.891634
3.68	0.2644	-0.00162	3.15E-06	0.205208	0.637206	1.891189
3.68	0.2644	-0.00162	3.15E-06	0.205133	0.636972	1.890747
3.68	0.2644	-0.00162	3.15E-06	0.205058	0.636739	1.890306
3.68	0.2644	-0.00162	3.15E-06	0.204983	0.636507	1.889867
3.68	0.2644	-0.00162	3.15E-06	0.204908	0.636275	1.889431
3.68	0.2644	-0.00162	3.15E-06	0.204834	0.636045	1.888995
3.69	0.2644	-0.00162	3.15E-06	0.20476	0.635816	1.888562
3.69	0.2644	-0.00162	3.15E-06	0.204687	0.635587	1.888131
3.69	0.2644	-0.00162	3.15E-06	0.204613	0.63536	1.887701
3.69	0.2644	-0.00162	3.15E-06	0.20454	0.635133	1.887273
3.69	0.2644	-0.00162	3.15E-06	0.204468	0.634907	1.886847
3.69	0.2644	-0.00162	3.15E-06	0.204395	0.634682	1.886423
3.69	0.2644	-0.00162	3.15E-06	0.204323	0.634458	1.886
3.70	0.2644	-0.00162	3.15E-06	0.204251	0.634235	1.885579
3.70	0.2644	-0.00162	3.15E-06	0.20418	0.634013	1.88516
3.70	0.2644	-0.00162	3.15E-06	0.204108	0.633791	1.884742
3.70	0.2644	-0.00162	3.15E-06	0.204037	0.63357	1.884326
3.70	0.2644	-0.00162	3.15E-06	0.203966	0.63335	1.883912
3.70	0.2644	-0.00162	3.15E-06	0.203896	0.633131	1.883499
3.70	0.2644	-0.00162	3.15E-06	0.203826	0.632913	1.883088
3.70	0.2644	-0.00162	3.15E-06	0.203756	0.632696	1.882679
3.71	0.2644	-0.00162	3.15E-06	0.203686	0.632479	1.882271
3.71	0.2644	-0.00162	3.15E-06	0.203616	0.632263	1.881865
3.71	0.2644	-0.00162	3.15E-06	0.203547	0.632048	1.88146
3.71	0.2644	-0.00162	3.15E-06	0.203478	0.631834	1.881057
3.71	0.2644	-0.00162	3.15E-06	0.203409	0.631621	1.880656
3.71	0.2644	-0.00162	3.15E-06	0.203341	0.631408	1.880256
3.71	0.2644	-0.00162	3.15E-06	0.203273	0.631196	1.879857
3.71	0.2644	-0.00162	3.15E-06	0.203205	0.630985	1.87946
3.72	0.2644	-0.00162	3.15E-06	0.203137	0.630774	1.879065
3.72	0.2644	-0.00162	3.15E-06	0.203069	0.630565	1.878671
3.72	0.2644	-0.00162	3.15E-06	0.203002	0.630356	1.878278
3.72	0.2644	-0.00162	3.15E-06	0.202935	0.630147	1.877887
3.72	0.2644	-0.00162	3.15E-06	0.202868	0.62994	1.877498
3.72	0.2644	-0.00162	3.15E-06	0.202802	0.629733	1.87711
3.72	0.2644	-0.00162	3.15E-06	0.202735	0.629527	1.876723
3.72	0.2644	-0.00162	3.15E-06	0.202669	0.629322	1.876338
3.72	0.2644	-0.00162	3.15E-06	0.202603	0.629117	1.875954
3.73	0.2644	-0.00162	3.15E-06	0.202537	0.628913	1.875571
3.73	0.2644	-0.00162	3.15E-06	0.202472	0.62871	1.87519
3.73	0.2644	-0.00162	3.15E-06	0.202407	0.628507	1.87481
3.73	0.2644	-0.00162	3.15E-06	0.202342	0.628306	1.874432
3.73	0.2644	-0.00162	3.15E-06	0.202277	0.628104	1.874055
3.73	0.2644	-0.00162	3.15E-06	0.202212	0.627904	1.873679
3.73	0.2644	-0.00162	3.15E-06	0.202148	0.627704	1.873305
3.73	0.2644	-0.00162	3.15E-06	0.202084	0.627505	1.872932
3.74	0.2644	-0.00162	3.15E-06	0.20202	0.627306	1.87256

3.74	0.2644	-0.00162	3.15E-06	0.201956	0.627109	1.872189
3.74	0.2644	-0.00162	3.15E-06	0.201893	0.626911	1.87182
3.74	0.2644	-0.00162	3.15E-06	0.201829	0.626715	1.871452
3.74	0.2644	-0.00162	3.15E-06	0.201766	0.626519	1.871086
3.74	0.2644	-0.00162	3.15E-06	0.201703	0.626324	1.87072
3.74	0.2644	-0.00162	3.15E-06	0.201641	0.626129	1.870356
3.74	0.2644	-0.00162	3.15E-06	0.201578	0.625935	1.869993
3.74	0.2644	-0.00162	3.15E-06	0.201516	0.625741	1.869632
3.75	0.2644	-0.00162	3.15E-06	0.201454	0.625549	1.869271
3.75	0.2644	-0.00162	3.15E-06	0.201392	0.625356	1.868912
3.75	0.2644	-0.00162	3.15E-06	0.20133	0.625165	1.868554
3.75	0.2644	-0.00162	3.15E-06	0.201269	0.624974	1.868197
3.75	0.2644	-0.00162	3.15E-06	0.201207	0.624783	1.867841
3.75	0.2644	-0.00162	3.15E-06	0.201146	0.624594	1.867487
3.75	0.2644	-0.00162	3.15E-06	0.201085	0.624405	1.867134
3.75	0.2644	-0.00162	3.15E-06	0.201025	0.624216	1.866782
3.75	0.2644	-0.00162	3.15E-06	0.200964	0.624028	1.866431
3.75	0.2644	-0.00162	3.15E-06	0.200904	0.62384	1.866081
3.76	0.2644	-0.00162	3.15E-06	0.200844	0.623654	1.865732
3.76	0.2644	-0.00162	3.15E-06	0.200784	0.623467	1.865385
3.76	0.2644	-0.00162	3.15E-06	0.200724	0.623282	1.865038
3.76	0.2644	-0.00162	3.15E-06	0.200664	0.623096	1.864693
3.76	0.2644	-0.00162	3.15E-06	0.200605	0.622912	1.864349
3.76	0.2644	-0.00162	3.15E-06	0.200545	0.622728	1.864006
3.76	0.2644	-0.00162	3.15E-06	0.200486	0.622544	1.863664
3.76	0.2644	-0.00162	3.15E-06	0.200427	0.622361	1.863323
3.76	0.2644	-0.00162	3.15E-06	0.200369	0.622179	1.862983
3.76	0.2644	-0.00162	3.15E-06	0.20031	0.621997	1.862644
3.77	0.2644	-0.00162	3.15E-06	0.200252	0.621816	1.862306
3.77	0.2644	-0.00162	3.15E-06	0.200194	0.621635	1.86197
3.77	0.2644	-0.00162	3.15E-06	0.200135	0.621455	1.861634
3.77	0.2644	-0.00162	3.15E-06	0.200078	0.621275	1.8613
3.77	0.2644	-0.00162	3.15E-06	0.20002	0.621096	1.860966
3.77	0.2644	-0.00162	3.15E-06	0.199962	0.620917	1.860634
3.77	0.2644	-0.00162	3.15E-06	0.199905	0.620739	1.860302
3.77	0.2644	-0.00162	3.15E-06	0.199848	0.620561	1.859972
3.77	0.2644	-0.00162	3.15E-06	0.199791	0.620384	1.859642
3.77	0.2644	-0.00162	3.15E-06	0.199734	0.620207	1.859314
3.78	0.2644	-0.00162	3.15E-06	0.199677	0.620031	1.858986
3.78	0.2644	-0.00162	3.15E-06	0.19962	0.619856	1.85866
3.78	0.2644	-0.00162	3.15E-06	0.199564	0.61968	1.858334
3.78	0.2644	-0.00162	3.15E-06	0.199508	0.619506	1.85801
3.78	0.2644	-0.00162	3.15E-06	0.199452	0.619332	1.857686
3.78	0.2644	-0.00162	3.15E-06	0.199396	0.619158	1.857363
3.78	0.2644	-0.00162	3.15E-06	0.19934	0.618985	1.857042
3.78	0.2644	-0.00162	3.15E-06	0.199284	0.618812	1.856721
3.78	0.2644	-0.00162	3.15E-06	0.199229	0.61864	1.856401
3.78	0.2644	-0.00162	3.15E-06	0.199174	0.618468	1.856083
3.79	0.2644	-0.00162	3.15E-06	0.199119	0.618297	1.855765
3.79	0.2644	-0.00162	3.15E-06	0.199064	0.618126	1.855448

3.79	0.2644	-0.00162	3.15E-06	0.199009	0.617956	1.855132
3.79	0.2644	-0.00162	3.15E-06	0.198954	0.617786	1.854817
3.79	0.2644	-0.00162	3.15E-06	0.198899	0.617616	1.854502
3.79	0.2644	-0.00162	3.15E-06	0.198845	0.617447	1.854189
3.79	0.2644	-0.00162	3.15E-06	0.198791	0.617279	1.853877
3.79	0.2644	-0.00162	3.15E-06	0.198737	0.617111	1.853565
3.79	0.2644	-0.00162	3.15E-06	0.198683	0.616943	1.853255
3.79	0.2644	-0.00162	3.15E-06	0.198629	0.616776	1.852945
3.79	0.2644	-0.00162	3.15E-06	0.198575	0.616609	1.852636
3.80	0.2644	-0.00162	3.15E-06	0.198522	0.616443	1.852328
3.80	0.2644	-0.00162	3.15E-06	0.198468	0.616277	1.852021
3.80	0.2644	-0.00162	3.15E-06	0.198415	0.616112	1.851715
3.80	0.2644	-0.00162	3.15E-06	0.198362	0.615947	1.851409
3.80	0.2644	-0.00162	3.15E-06	0.198309	0.615783	1.851105
3.80	0.2644	-0.00162	3.15E-06	0.198256	0.615618	1.850801
3.80	0.2644	-0.00162	3.15E-06	0.198203	0.615455	1.850498
3.80	0.2644	-0.00162	3.15E-06	0.198151	0.615292	1.850196
3.80	0.2644	-0.00162	3.15E-06	0.198098	0.615129	1.849895
3.80	0.2644	-0.00162	3.15E-06	0.198046	0.614966	1.849594
3.80	0.2644	-0.00162	3.15E-06	0.197994	0.614804	1.849295
3.80	0.2644	-0.00162	3.15E-06	0.197942	0.614643	1.848996
3.81	0.2644	-0.00162	3.15E-06	0.19789	0.614482	1.848698
3.81	0.2644	-0.00162	3.15E-06	0.197838	0.614321	1.848401
3.81	0.2644	-0.00162	3.15E-06	0.197786	0.614161	1.848105
3.81	0.2644	-0.00162	3.15E-06	0.197735	0.614001	1.847809
3.81	0.2644	-0.00162	3.15E-06	0.197684	0.613841	1.847514
3.81	0.2644	-0.00162	3.15E-06	0.197632	0.613682	1.84722
3.81	0.2644	-0.00162	3.15E-06	0.197581	0.613523	1.846927
3.81	0.2644	-0.00162	3.15E-06	0.19753	0.613365	1.846635
3.81	0.2644	-0.00162	3.15E-06	0.197479	0.613207	1.846343
3.81	0.2644	-0.00162	3.15E-06	0.197429	0.613049	1.846052
3.81	0.2644	-0.00162	3.15E-06	0.197378	0.612892	1.845762
3.82	0.2644	-0.00162	3.15E-06	0.197328	0.612736	1.845473
3.82	0.2644	-0.00162	3.15E-06	0.197277	0.612579	1.845184
3.82	0.2644	-0.00162	3.15E-06	0.197227	0.612423	1.844897
3.82	0.2644	-0.00162	3.15E-06	0.197177	0.612268	1.844609
3.82	0.2644	-0.00162	3.15E-06	0.197127	0.612112	1.844323
3.82	0.2644	-0.00162	3.15E-06	0.197077	0.611958	1.844038
3.82	0.2644	-0.00162	3.15E-06	0.197027	0.611803	1.843753
3.82	0.2644	-0.00162	3.15E-06	0.196978	0.611649	1.843469
3.82	0.2644	-0.00162	3.15E-06	0.196928	0.611495	1.843185
3.82	0.2644	-0.00162	3.15E-06	0.196879	0.611342	1.842903
3.82	0.2644	-0.00162	3.15E-06	0.196829	0.611189	1.842621
3.82	0.2644	-0.00162	3.15E-06	0.19678	0.611036	1.842339
3.82	0.2644	-0.00162	3.15E-06	0.196731	0.610884	1.842059
3.83	0.2644	-0.00162	3.15E-06	0.196682	0.610732	1.841779
3.83	0.2644	-0.00162	3.15E-06	0.196633	0.61058	1.8415
3.83	0.2644	-0.00162	3.15E-06	0.196585	0.610429	1.841222
3.83	0.2644	-0.00162	3.15E-06	0.196536	0.610278	1.840944
3.83	0.2644	-0.00162	3.15E-06	0.196488	0.610128	1.840667

3.83	0.2644	-0.00162	3.15E-06	0.196439	0.609978	1.840391
3.83	0.2644	-0.00162	3.15E-06	0.196391	0.609828	1.840115
3.83	0.2644	-0.00162	3.15E-06	0.196343	0.609679	1.83984
3.83	0.2644	-0.00162	3.15E-06	0.196295	0.609529	1.839566
3.83	0.2644	-0.00162	3.15E-06	0.196247	0.609381	1.839292
3.83	0.2644	-0.00162	3.15E-06	0.196199	0.609232	1.839019
3.83	0.2644	-0.00162	3.15E-06	0.196152	0.609084	1.838747
3.84	0.2644	-0.00162	3.15E-06	0.196104	0.608937	1.838475
3.84	0.2644	-0.00162	3.15E-06	0.196057	0.608789	1.838204
3.84	0.2644	-0.00162	3.15E-06	0.196009	0.608642	1.837934
3.84	0.2644	-0.00162	3.15E-06	0.195962	0.608495	1.837664
3.84	0.2644	-0.00162	3.15E-06	0.195915	0.608349	1.837395
3.84	0.2644	-0.00162	3.15E-06	0.195868	0.608203	1.837127
3.84	0.2644	-0.00162	3.15E-06	0.195821	0.608057	1.836859
3.84	0.2644	-0.00162	3.15E-06	0.195774	0.607912	1.836592
3.84	0.2644	-0.00162	3.15E-06	0.195727	0.607767	1.836326
3.84	0.2644	-0.00162	3.15E-06	0.195681	0.607622	1.83606
3.84	0.2644	-0.00162	3.15E-06	0.195634	0.607478	1.835795
3.84	0.2644	-0.00162	3.15E-06	0.195588	0.607334	1.835531
3.84	0.2644	-0.00162	3.15E-06	0.195542	0.60719	1.835267
3.84	0.2644	-0.00162	3.15E-06	0.195495	0.607046	1.835003
3.85	0.2644	-0.00162	3.15E-06	0.195449	0.606903	1.834741
3.85	0.2644	-0.00162	3.15E-06	0.195403	0.60676	1.834479
3.85	0.2644	-0.00162	3.15E-06	0.195357	0.606618	1.834217
3.85	0.2644	-0.00162	3.15E-06	0.195312	0.606476	1.833956
3.85	0.2644	-0.00162	3.15E-06	0.195266	0.606334	1.833696
3.85	0.2644	-0.00162	3.15E-06	0.19522	0.606192	1.833437
3.85	0.2644	-0.00162	3.15E-06	0.195175	0.606051	1.833178
3.85	0.2644	-0.00162	3.15E-06	0.195129	0.60591	1.832919
3.85	0.2644	-0.00162	3.15E-06	0.195084	0.605769	1.832661
3.85	0.2644	-0.00162	3.15E-06	0.195039	0.605629	1.832404
3.85	0.2644	-0.00162	3.15E-06	0.194994	0.605489	1.832148
3.85	0.2644	-0.00162	3.15E-06	0.194949	0.605349	1.831892
3.85	0.2644	-0.00162	3.15E-06	0.194904	0.60521	1.831636
3.86	0.2644	-0.00162	3.15E-06	0.194859	0.60507	1.831381
3.86	0.2644	-0.00162	3.15E-06	0.194814	0.604932	1.831127
3.86	0.2644	-0.00162	3.15E-06	0.19477	0.604793	1.830873
3.86	0.2644	-0.00162	3.15E-06	0.194725	0.604655	1.83062
3.86	0.2644	-0.00162	3.15E-06	0.194681	0.604517	1.830367
3.86	0.2644	-0.00162	3.15E-06	0.194636	0.604379	1.830115
3.86	0.2644	-0.00162	3.15E-06	0.194592	0.604242	1.829864
3.86	0.2644	-0.00162	3.15E-06	0.194548	0.604104	1.829613
3.86	0.2644	-0.00162	3.15E-06	0.194504	0.603968	1.829363
3.86	0.2644	-0.00162	3.15E-06	0.19446	0.603831	1.829113
3.86	0.2644	-0.00162	3.15E-06	0.194416	0.603695	1.828864
3.86	0.2644	-0.00162	3.15E-06	0.194372	0.603559	1.828615
3.86	0.2644	-0.00162	3.15E-06	0.194329	0.603423	1.828367
3.86	0.2644	-0.00162	3.15E-06	0.194285	0.603288	1.828119
3.86	0.2644	-0.00162	3.15E-06	0.194241	0.603153	1.827872
3.87	0.2644	-0.00162	3.15E-06	0.194198	0.603018	1.827626

3.87	0.2644	-0.00162	3.15E-06	0.194155	0.602883	1.82738
3.87	0.2644	-0.00162	3.15E-06	0.194111	0.602749	1.827134
3.87	0.2644	-0.00162	3.15E-06	0.194068	0.602615	1.826889
3.87	0.2644	-0.00162	3.15E-06	0.194025	0.602481	1.826645
3.87	0.2644	-0.00162	3.15E-06	0.193982	0.602347	1.826401
3.87	0.2644	-0.00162	3.15E-06	0.193939	0.602214	1.826158
3.87	0.2644	-0.00162	3.15E-06	0.193896	0.602081	1.825915
3.87	0.2644	-0.00162	3.15E-06	0.193854	0.601949	1.825673
3.87	0.2644	-0.00162	3.15E-06	0.193811	0.601816	1.825431
3.87	0.2644	-0.00162	3.15E-06	0.193768	0.601684	1.82519
3.87	0.2644	-0.00162	3.15E-06	0.193726	0.601552	1.824949
3.87	0.2644	-0.00162	3.15E-06	0.193684	0.60142	1.824709
3.87	0.2644	-0.00162	3.15E-06	0.193641	0.601289	1.824469
3.88	0.2644	-0.00162	3.15E-06	0.193599	0.601158	1.82423
3.88	0.2644	-0.00162	3.15E-06	0.193557	0.601027	1.823991
3.88	0.2644	-0.00162	3.15E-06	0.193515	0.600896	1.823753
3.88	0.2644	-0.00162	3.15E-06	0.193473	0.600766	1.823515
3.88	0.2644	-0.00162	3.15E-06	0.193431	0.600636	1.823278
3.88	0.2644	-0.00162	3.15E-06	0.193389	0.600506	1.823041
3.88	0.2644	-0.00162	3.15E-06	0.193347	0.600377	1.822805
3.88	0.2644	-0.00162	3.15E-06	0.193306	0.600247	1.822569
3.88	0.2644	-0.00162	3.15E-06	0.193264	0.600118	1.822334
3.88	0.2644	-0.00162	3.15E-06	0.193223	0.599989	1.822099
3.88	0.2644	-0.00162	3.15E-06	0.193181	0.599861	1.821865
3.88	0.2644	-0.00162	3.15E-06	0.19314	0.599732	1.821631
3.88	0.2644	-0.00162	3.15E-06	0.193099	0.599604	1.821398
3.88	0.2644	-0.00162	3.15E-06	0.193058	0.599476	1.821165
3.88	0.2644	-0.00162	3.15E-06	0.193016	0.599349	1.820933
3.88	0.2644	-0.00162	3.15E-06	0.192975	0.599221	1.820701
3.89	0.2644	-0.00162	3.15E-06	0.192934	0.599094	1.820469
3.89	0.2644	-0.00162	3.15E-06	0.192894	0.598967	1.820238
3.89	0.2644	-0.00162	3.15E-06	0.192853	0.598841	1.820008
3.89	0.2644	-0.00162	3.15E-06	0.192812	0.598714	1.819778
3.89	0.2644	-0.00162	3.15E-06	0.192771	0.598588	1.819548
3.89	0.2644	-0.00162	3.15E-06	0.192731	0.598462	1.819319
3.89	0.2644	-0.00162	3.15E-06	0.19269	0.598337	1.819091
3.89	0.2644	-0.00162	3.15E-06	0.19265	0.598211	1.818862
3.89	0.2644	-0.00162	3.15E-06	0.19261	0.598086	1.818635
3.89	0.2644	-0.00162	3.15E-06	0.19257	0.597961	1.818407
3.89	0.2644	-0.00162	3.15E-06	0.192529	0.597836	1.818181
3.89	0.2644	-0.00162	3.15E-06	0.192489	0.597712	1.817954
3.89	0.2644	-0.00162	3.15E-06	0.192449	0.597588	1.817728
3.89	0.2644	-0.00162	3.15E-06	0.192409	0.597464	1.817503
3.89	0.2644	-0.00162	3.15E-06	0.192369	0.59734	1.817278
3.89	0.2644	-0.00162	3.15E-06	0.19233	0.597216	1.817053
3.90	0.2644	-0.00162	3.15E-06	0.19229	0.597093	1.816829
3.90	0.2644	-0.00162	3.15E-06	0.19225	0.59697	1.816605
3.90	0.2644	-0.00162	3.15E-06	0.192211	0.596847	1.816382
3.90	0.2644	-0.00162	3.15E-06	0.192171	0.596724	1.816159
3.90	0.2644	-0.00162	3.15E-06	0.192132	0.596602	1.815937

3.90	0.2644	-0.00162	3.15E-06	0.192092	0.596479	1.815715
3.90	0.2644	-0.00162	3.15E-06	0.192053	0.596357	1.815493
3.90	0.2644	-0.00162	3.15E-06	0.192014	0.596235	1.815272
3.90	0.2644	-0.00162	3.15E-06	0.191975	0.596114	1.815052
3.90	0.2644	-0.00162	3.15E-06	0.191936	0.595993	1.814831
3.90	0.2644	-0.00162	3.15E-06	0.191897	0.595871	1.814612
3.90	0.2644	-0.00162	3.15E-06	0.191858	0.59575	1.814392
3.90	0.2644	-0.00162	3.15E-06	0.191819	0.59563	1.814173
3.90	0.2644	-0.00162	3.15E-06	0.19178	0.595509	1.813955
3.90	0.2644	-0.00162	3.15E-06	0.191741	0.595389	1.813736
3.90	0.2644	-0.00162	3.15E-06	0.191703	0.595269	1.813519
3.91	0.2644	-0.00162	3.15E-06	0.191664	0.595149	1.813301
3.91	0.2644	-0.00162	3.15E-06	0.191625	0.595029	1.813084
3.91	0.2644	-0.00162	3.15E-06	0.191587	0.59491	1.812868
3.91	0.2644	-0.00162	3.15E-06	0.191549	0.594791	1.812652
3.91	0.2644	-0.00162	3.15E-06	0.19151	0.594672	1.812436
3.91	0.2644	-0.00162	3.15E-06	0.191472	0.594553	1.812221
3.91	0.2644	-0.00162	3.15E-06	0.191434	0.594434	1.812006
3.91	0.2644	-0.00162	3.15E-06	0.191396	0.594316	1.811791
3.91	0.2644	-0.00162	3.15E-06	0.191358	0.594198	1.811577
3.91	0.2644	-0.00162	3.15E-06	0.19132	0.59408	1.811364
3.91	0.2644	-0.00162	3.15E-06	0.191282	0.593962	1.81115
3.91	0.2644	-0.00162	3.15E-06	0.191244	0.593845	1.810937
3.91	0.2644	-0.00162	3.15E-06	0.191206	0.593727	1.810725
3.91	0.2644	-0.00162	3.15E-06	0.191168	0.59361	1.810513
3.91	0.2644	-0.00162	3.15E-06	0.191131	0.593493	1.810301
3.91	0.2644	-0.00162	3.15E-06	0.191093	0.593376	1.81009
3.91	0.2644	-0.00162	3.15E-06	0.191055	0.59326	1.809879
3.92	0.2644	-0.00162	3.15E-06	0.191018	0.593143	1.809668
3.92	0.2644	-0.00162	3.15E-06	0.190981	0.593027	1.809458
3.92	0.2644	-0.00162	3.15E-06	0.190943	0.592911	1.809248
3.92	0.2644	-0.00162	3.15E-06	0.190906	0.592796	1.809039
3.92	0.2644	-0.00162	3.15E-06	0.190869	0.59268	1.80883
3.92	0.2644	-0.00162	3.15E-06	0.190832	0.592565	1.808621
3.92	0.2644	-0.00162	3.15E-06	0.190795	0.592449	1.808413
3.92	0.2644	-0.00162	3.15E-06	0.190757	0.592334	1.808205
3.92	0.2644	-0.00162	3.15E-06	0.190721	0.59222	1.807997
3.92	0.2644	-0.00162	3.15E-06	0.190684	0.592105	1.80779
3.92	0.2644	-0.00162	3.15E-06	0.190647	0.591991	1.807583
3.92	0.2644	-0.00162	3.15E-06	0.19061	0.591876	1.807377
3.92	0.2644	-0.00162	3.15E-06	0.190573	0.591762	1.807171
3.92	0.2644	-0.00162	3.15E-06	0.190537	0.591649	1.806965
3.92	0.2644	-0.00162	3.15E-06	0.1905	0.591535	1.80676
3.92	0.2644	-0.00162	3.15E-06	0.190463	0.591422	1.806555
3.92	0.2644	-0.00162	3.15E-06	0.190427	0.591308	1.80635
3.92	0.2644	-0.00162	3.15E-06	0.190391	0.591195	1.806146
3.93	0.2644	-0.00162	3.15E-06	0.190354	0.591082	1.805942
3.93	0.2644	-0.00162	3.15E-06	0.190318	0.59097	1.805738
3.93	0.2644	-0.00162	3.15E-06	0.190282	0.590857	1.805535
3.93	0.2644	-0.00162	3.15E-06	0.190246	0.590745	1.805332

3.93	0.2644	-0.00162	3.15E-06	0.190209	0.590633	1.80513
3.93	0.2644	-0.00162	3.15E-06	0.190173	0.590521	1.804928
3.93	0.2644	-0.00162	3.15E-06	0.190137	0.590409	1.804726
3.93	0.2644	-0.00162	3.15E-06	0.190101	0.590297	1.804525
3.93	0.2644	-0.00162	3.15E-06	0.190066	0.590186	1.804324
3.93	0.2644	-0.00162	3.15E-06	0.19003	0.590075	1.804123
3.93	0.2644	-0.00162	3.15E-06	0.189994	0.589963	1.803923
3.93	0.2644	-0.00162	3.15E-06	0.189958	0.589853	1.803723
3.93	0.2644	-0.00162	3.15E-06	0.189923	0.589742	1.803523
3.93	0.2644	-0.00162	3.15E-06	0.189887	0.589631	1.803324
3.93	0.2644	-0.00162	3.15E-06	0.189851	0.589521	1.803125
3.93	0.2644	-0.00162	3.15E-06	0.189816	0.589411	1.802926
3.93	0.2644	-0.00162	3.15E-06	0.189781	0.589301	1.802728
3.93	0.2644	-0.00162	3.15E-06	0.189745	0.589191	1.80253
3.94	0.2644	-0.00162	3.15E-06	0.18971	0.589081	1.802332
3.94	0.2644	-0.00162	3.15E-06	0.189675	0.588972	1.802135
3.94	0.2644	-0.00162	3.15E-06	0.189639	0.588863	1.801938
3.94	0.2644	-0.00162	3.15E-06	0.189604	0.588753	1.801741
3.94	0.2644	-0.00162	3.15E-06	0.189569	0.588645	1.801545
3.94	0.2644	-0.00162	3.15E-06	0.189534	0.588536	1.801349
3.94	0.2644	-0.00162	3.15E-06	0.189499	0.588427	1.801153
3.94	0.2644	-0.00162	3.15E-06	0.189464	0.588319	1.800958
3.94	0.2644	-0.00162	3.15E-06	0.189429	0.58821	1.800763
3.94	0.2644	-0.00162	3.15E-06	0.189395	0.588102	1.800568
3.94	0.2644	-0.00162	3.15E-06	0.18936	0.587994	1.800374
3.94	0.2644	-0.00162	3.15E-06	0.189325	0.587887	1.80018
3.94	0.2644	-0.00162	3.15E-06	0.18929	0.587779	1.799986
3.94	0.2644	-0.00162	3.15E-06	0.189256	0.587672	1.799793
3.94	0.2644	-0.00162	3.15E-06	0.189221	0.587564	1.7996
3.94	0.2644	-0.00162	3.15E-06	0.189187	0.587457	1.799407
3.94	0.2644	-0.00162	3.15E-06	0.189152	0.58735	1.799215
3.94	0.2644	-0.00162	3.15E-06	0.189118	0.587244	1.799023
3.94	0.2644	-0.00162	3.15E-06	0.189084	0.587137	1.798831
3.94	0.2644	-0.00162	3.15E-06	0.189049	0.58703	1.798639
3.95	0.2644	-0.00162	3.15E-06	0.189015	0.586924	1.798448
3.95	0.2644	-0.00162	3.15E-06	0.188981	0.586818	1.798257
3.95	0.2644	-0.00162	3.15E-06	0.188947	0.586712	1.798067
3.95	0.2644	-0.00162	3.15E-06	0.188913	0.586606	1.797877
3.95	0.2644	-0.00162	3.15E-06	0.188879	0.586501	1.797687
3.95	0.2644	-0.00162	3.15E-06	0.188845	0.586395	1.797497
3.95	0.2644	-0.00162	3.15E-06	0.188811	0.58629	1.797308
3.95	0.2644	-0.00162	3.15E-06	0.188777	0.586185	1.797119
3.95	0.2644	-0.00162	3.15E-06	0.188743	0.58608	1.79693
3.95	0.2644	-0.00162	3.15E-06	0.188709	0.585975	1.796742
3.95	0.2644	-0.00162	3.15E-06	0.188676	0.58587	1.796554
3.95	0.2644	-0.00162	3.15E-06	0.188642	0.585766	1.796366
3.95	0.2644	-0.00162	3.15E-06	0.188608	0.585661	1.796179
3.95	0.2644	-0.00162	3.15E-06	0.188575	0.585557	1.795991
3.95	0.2644	-0.00162	3.15E-06	0.188541	0.585453	1.795805
3.95	0.2644	-0.00162	3.15E-06	0.188508	0.585349	1.795618

3.95	0.2644	-0.00162	3.15E-06	0.188475	0.585245	1.795432
3.95	0.2644	-0.00162	3.15E-06	0.188441	0.585142	1.795246
3.95	0.2644	-0.00162	3.15E-06	0.188408	0.585038	1.79506
3.95	0.2644	-0.00162	3.15E-06	0.188375	0.584935	1.794875
3.96	0.2644	-0.00162	3.15E-06	0.188341	0.584832	1.79469
3.96	0.2644	-0.00162	3.15E-06	0.188308	0.584729	1.794505
3.96	0.2644	-0.00162	3.15E-06	0.188275	0.584626	1.79432
3.96	0.2644	-0.00162	3.15E-06	0.188242	0.584524	1.794136
3.96	0.2644	-0.00162	3.15E-06	0.188209	0.584421	1.793952
3.96	0.2644	-0.00162	3.15E-06	0.188176	0.584319	1.793768
3.96	0.2644	-0.00162	3.15E-06	0.188143	0.584216	1.793585
3.96	0.2644	-0.00162	3.15E-06	0.18811	0.584114	1.793402
3.96	0.2644	-0.00162	3.15E-06	0.188077	0.584012	1.793219
3.96	0.2644	-0.00162	3.15E-06	0.188045	0.583911	1.793037
3.96	0.2644	-0.00162	3.15E-06	0.188012	0.583809	1.792855
3.96	0.2644	-0.00162	3.15E-06	0.187979	0.583708	1.792673
3.96	0.2644	-0.00162	3.15E-06	0.187947	0.583606	1.792491
3.96	0.2644	-0.00162	3.15E-06	0.187914	0.583505	1.79231
3.96	0.2644	-0.00162	3.15E-06	0.187881	0.583404	1.792128
3.96	0.2644	-0.00162	3.15E-06	0.187849	0.583303	1.791948
3.96	0.2644	-0.00162	3.15E-06	0.187817	0.583202	1.791767
3.96	0.2644	-0.00162	3.15E-06	0.187784	0.583102	1.791587
3.96	0.2644	-0.00162	3.15E-06	0.187752	0.583001	1.791407
3.96	0.2644	-0.00162	3.15E-06	0.187719	0.582901	1.791227
3.97	0.2644	-0.00162	3.15E-06	0.187687	0.582801	1.791048
3.97	0.2644	-0.00162	3.15E-06	0.187655	0.582701	1.790869
3.97	0.2644	-0.00162	3.15E-06	0.187623	0.582601	1.79069
3.97	0.2644	-0.00162	3.15E-06	0.187591	0.582501	1.790511
3.97	0.2644	-0.00162	3.15E-06	0.187559	0.582401	1.790333
3.97	0.2644	-0.00162	3.15E-06	0.187527	0.582302	1.790155
3.97	0.2644	-0.00162	3.15E-06	0.187495	0.582203	1.789977
3.97	0.2644	-0.00162	3.15E-06	0.187463	0.582104	1.789799
3.97	0.2644	-0.00162	3.15E-06	0.187431	0.582004	1.789622
3.97	0.2644	-0.00162	3.15E-06	0.187399	0.581906	1.789445
3.97	0.2644	-0.00162	3.15E-06	0.187367	0.581807	1.789268
3.97	0.2644	-0.00162	3.15E-06	0.187335	0.581708	1.789092

Location Index	
England and Wales	1
Scotland and Ireland	2

From Design and Analysis of Urban Storm Drainage, The Wallingford Procedure, Vol 1

Table 6.1 Values of Constants to calculate Cr

Geographic Location	Range of M5-D	Location Index	J0	J1	J2
England and Wales	0-10	1	0.1699	0.0028	0.000114
	11-30		0.1644	0.005831	-0.00013
	31-75		0.2644	-0.00162	3.15E-06
	76-150		0.2718	-0.00195	6.19E-06
	>150		0.1454	-0.00019	1.14E-07