A1

Plot	Area (ha)	Catchment	30 year restriction (l/s)	100 year restriction (l/s)
RB06	0.247	1	3.4	5.4
RB07	0.376	1	5.2	8.3
RB10	1.011	1	14.1	22.2
NT02	0.771	4	10.8	16.9
NT03	0.537	4	7.5	11.8
NT04	1.012	4	14.1	22.2
RB16	0.537	4	7.5	11.8
RB17	0.461	4	6.4	10.1
RB01	0.288	1	4.0	6.3
RB02	0.326	1	4.5	7.2
RB03	0.403	5	5.4	8.9
RB04	0.415	5	5.5	9.1
RB05a	0.369	5	4.9	8.1
RB05b	0.237	5	3.2	5.2
RB05c	0.410	5	5.5	9.0
RB12(b)	0.235	1	3.3	5.2
RB08	0.444	1	6.2	9.8
RB09	0.009	1	0.1	0.2
RB11	0.156	1	2.2	3.4
RB12a	0.163	1	2.3	3.6

NOTE: Plot areas are subject to change and will be finalised during the next stage of design

RB04

RB06

RB16

RB17

NT02

NT03

NT04

Depot

Caravan Site

DANTZIC STREET

151

Proposed outfall pipe to have non-return valve

Proposed Headwall
Proposed Outflow (1:100) - 86.2l/s
Proposed Outflow (1:30) - 53.9l/s
Proposed Outfall Level - 27.403mAOD

S7D
Hydrobrake
Design Head - 2.48m
Design Flow (1:100) - 86.2l/s
Design Flow (1:30) - 54.9l/s

S1.006 D
S11.000 D
S1.005 D
S10 D
S9.000 D
S1.004 D
S6 D
S7.000 D
S10.000 D
S8.000 D
S4.000 D
S5 D
S6.000 D
S1.003 D
S3 D
S1.002 D
S4 D
S1.001 D
S5.000 D
S1.000 D
S3.000 D
S2 D
S2.000 D

MSON STREET
37.2m
39.6m
Boro Const & Ward Bdy
CR
MP 0.5

Do not scale

Notes

1. All dimensions are in mm, all levels in mAOD, unless specified otherwise.
2. This map is reproduced from Ordnance Survey Material with the permission of the Ordnance Survey on behalf of the Controller of Her Majesty's Stationery Office (c) Crown Copyright. License Number 100019568 (2021).
3. Layout is based on:
 • Landscape Architect masterplan drawing VNIF-PLA-ZZ-YYY-DR-L-1011 Rev P02.06 dated 14/02/2022 by Planit.
 • Topographical Survey drawing PS-2158-TS by Paragon Surveys dated September 2021.
4. No guarantee is given for the accuracy of the information contained herein, which is provided for general guidance only and must not be relied upon for excavation or detailed design until apparatus locations are verified / validated through further site investigation works.
5. Extents of road refurbishments, new roads, and street works are WIP based on WS3 Design.
6. Existing Drainage layout based on the following information:
 - Utility Search Map drawing 97079 undertaken by Atkins dated 24/06/2021.
7. For the Standard Drainage Specification refer to the "Design and Construction Guidance for foul and surface water sewers offered for adoption" - Rev 2.1 - dated 25th May 2021.
8. This drawing should be read with reference to the Arup Stage 3 Report and Drainage Strategy.
9. Utilities have been drawn to PAS128 standard. The Located Service Classification table below gives a brief overview. For further details refer to document 'PAS 128:2014 Specification for underground utility detection, verification and location'.

Located Service Classification	Certainty/Risk
Type A Verification - Visual identification	Class
Type B Detection - Typically GPR and EML techiques are used	
Type C Site reconnaissance - Physical surface features identified	
Type D Desktop utility records search	

10. A connection point has been provided for each plot within the HIF Boundary at a minimum depth of 2.0-2.5m as agreed with WSP.
11. Drainage construction materials, unless otherwise stated:
 - Drainage pipes - Polyethylene in accordance with BS 13476
 - Manholes - Precast Concrete
 - Inspection Chambers - Polypropylene in accordance with BS 7158
12. The finalised location of trees is to be confirmed at the next design stage.

Key

- HIF Site Boundary
- Plot Boundary
- Provision of Utility and Drainage Infrastructure Only
- Existing Drainage Combined Sewer
- Existing Drainage Surface Water Drain (Private)
- Proposed Surface Water Pipe
- Proposed Adopted Surface Water Pipe
- Proposed Surface Water Manhole
- Proposed Adopted Surface Water Manhole
- Proposed Outfall to River
- Area of permable paving
- Area of Adopted Attenuation Basin

Rev	Date	Description	By	Chkd	Appd	Auth
P01	17/12/21		DH	RG	RG	—
P02	01/02/22		DH	RG	RG	—
P03	17/02/22	Amended for Planning Comments	DH	DH	RG	—
P04	28/02/22		DH	DH	RG	—

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Client

MANCHESTER CITY COUNCIL

bam nuttall

Project Title

Victoria North HIF Infrastructure & Enabling Works

Drawing Title

Proposed Surface Water Drainage
Dantzic Street

Scale at A1	1:500		Arup Job No	282022-00
Role	Civil - Drainage			
Suitability	S3 - Issued for Review and Comment			
Rev	By	Chkd	Appd	
P04	DH	DH	RG	—
	Date	Date	Date	
	24/02/22	24/02/22	28/02/22	—

Name

VNIF - ARP - 00 - YYY - DR - CD - 0012
Project | Originator | Volume | Location | Type | Role | Number

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