

DO NOT SCALE THIS DRAWING. IF IN DOUBT ASK



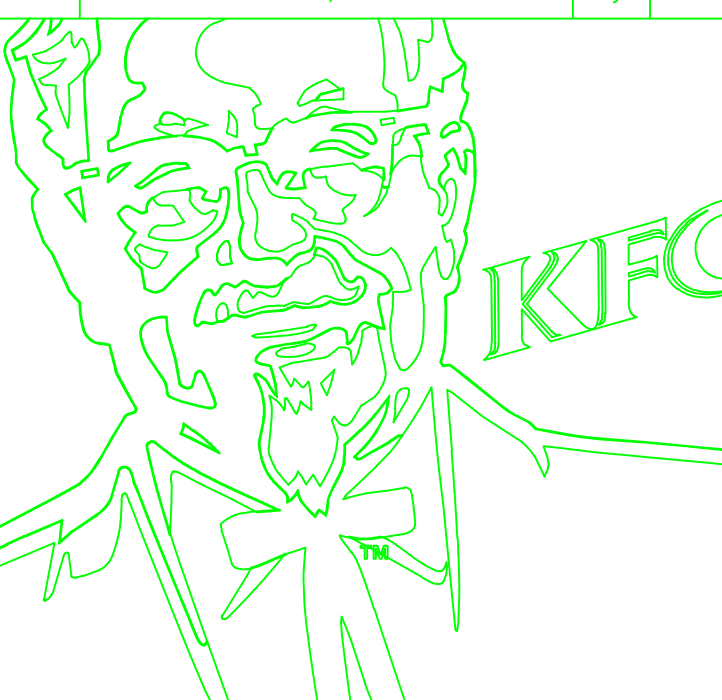
SITE LAYOUT PLAN (1:100)

NOTES

LEGEND

- 33.25 DENOTES PROPOSED LEVEL
- +32.95 DENOTES EXISTING LEVEL
- D/K DENOTES DROP KERB WITH TACTILE PAVING
- G ROAD GULLY
- Denotes BITUMINOUS FINISH LIGHT DUTY
- Denotes BITUMINOUS FINISH HEAVY DUTY
- Denotes PAVED AREA
- Denotes BITUMINOUS FINISH TO PEDESTRIAN AREAS
- Denotes EXISTING SURFACING TO BE PLANED OFF TO A DEPTH OF 40mm. A SUITABLE BONDING AGENT SHOULD BE APPLIED TO BITUMINOUS BASE COURSE PRIOR TO LAYING 40mm SMA WEARING COURSE.

Rev.	Description	By	Date
B	MH F1 MOVED TO AVOID CANOPY FOUNDATION LAYOUT & FINISHES.	NC	FEB 22
A	MINOR MODIFICATIONS TO LAYOUT & FINISHES.	NC	FEB 22



Client CHICKEN CABINS LTD.

Site address KFC DRIVE THROUGH SECTION OF TESCO CAR PARK ALTRINCHAM ROAD, BAGULEY, MANCHESTER, M23 9TJ.

Stevenson Calam Associates
CONSULTING ENGINEERS

ORNHAM HALL, BOROUGHBRIDGE, NORTH YORKSHIRE YO51 5JH
Telephone: (01423) 520099
Facsimile: (01423) 520028
Email: stevensoncalam@btconnect.com

SCA

Title EXTERNAL WORKS (SHEET 1 OF 2)

Project Manager/Checked	Drawn By	Scale	Date
GS	NC	AS SHOWN	FEB. 2022

Drawing Number	Rev.
1747-4/3	B

Appendix F LLFA Correspondence

Megan Williams

From: Flood Risk Management <floodriskmanagement@manchester.gov.uk>
Sent: 01 November 2022 10:54
To: Megan Williams
Subject: RE: 14948 - LLFA email
Attachments: Manchester City Council - SuDS Requirement for Developers 2019.pdf; Altrincham Road, Manchester, M23 9TJ [1].pdf

Hi Megan,

I hope you're well. Thank you for your email. We have reviewed your site at Altrincham Road, Manchester, M23 9TJ. Please find our comments below in **red**.

MCC offer a Data Screening Service. Please find attached letter detailing our Service. If you would like to instruct a data screening, please submit a request at the following link:

<https://manchester.civicapayforms.co.uk/Sales/LaunchInternet.aspx?saleform=llfa>

Please also find attached our SuDS Guidance for Developers which we recommend is reviewed to guide your drainage strategy. We promote the use of Sustainable Drainage infrastructure and would welcome early discussion with regards to the drainage layout. Please note surface water from the development must not drain onto the highway or any third-party land.

Should you have further queries about your proposal, please do not hesitate to contact us.

Thank you.

Kind regards

Talha Esmail

Flood Risk Engineer – Lead Local Flood Authority

E: talha.esmail@manchester.gov.uk  MANCHESTER CITY COUNCIL

From: Megan Williams megan.williams@waterco.co.uk

Sent: 17 October 2022 13:23

To: Flood Risk Management floodriskmanagement@manchester.gov.uk

Subject: 14948 - LLFA email

You don't often get email from megan.williams@waterco.co.uk. [Learn why this is important](#)

Proposed commercial development at Altrincham Road, Manchester, M23 9TJ. NGR: 380224, 389297

Dear Sir/Madam,

We are currently preparing a Drainage Strategy for a proposed commercial development located at the above address. We are seeking Lead Local Flood Authority comments on surface water drainage.

The proposed development is for the erection of a single storey building to form mixed restaurant and hot food takeaway use (sui generis), incorporating a 'drive-thru' facility, car and cycle parking, the creation of a new pedestrian and cycle footpath link into the site from Altrincham Road and associated landscaping within part of existing supermarket car park. A development plan is attached for your reference.

A site investigation has been undertaken by Crossfield Consulting in March 2021. They have provided us with the below summary of their findings:

'Due to the presence of relatively deep Made Ground and shallow groundwater, it is considered that soakaway drainage is unlikely to be feasible and an alternative drainage solution should be identified'.

The LLFA note and accept.

There are no watercourses in the immediate vicinity of the site.

The LLFA note and accept.

We propose to discharge surface water to the existing 375mm surface water sewer on site at a controlled rate, which discharges to the 450mm public surface water sewer north-west of the site.

We have no objection in principle.

We propose to discharge foul flows to the public sewerage network, specifically the 525mm combined sewer located south of the site via an existing connection.

The LLFA only comment on Surface Water related queries.

Please could you advise if this would be acceptable and if you have any discharge rate requirements.

Proposed surface water drainage will need to be restricted to greenfield rates or by at least 50% from the existing rates where appropriate.

Furthermore, please could you advise on the required climate change allowance to be applied to attenuation storage (i.e 20%/30%/40%) and if you have any further surface water drainage requirements.

What is the design life of this development?

Please note there are new updates for peak rainfall climate change allowances in Flood risk assessments. For further details on climate change allowances please visit - [Flood risk assessments: climate change allowances - GOV.UK \(www.gov.uk\)](https://www.gov.uk/government/publications/flood-risk-assessments-climate-change-allowances)

Type in your postcode to determine the %cc - [Climate change allowances for peak river flow in England \(data.gov.uk\)](https://data.gov.uk/dataset/peak-river-flow-in-england)

If you require any further information to process my request, please don't hesitate to contact me.

Kind Regards,

Megan Williams BSc (Hons)
Environmental Consultant



DDI: 01244 668122

Office: 01824 702220

Teams: megan.williams@waterco.co.uk

We're recruiting! For more information, please take a look at our [website](#).



For email confidentiality, limitations and company details please see our [disclaimer webpage](#). Registered in Wales under company no. 3577754. Waterco Ltd, Eden Court, Ruthin LL15 1NJ. Please click for our [GDPR policy](#).

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This footnote also confirms that this email message has been swept for the presence of computer viruses.

Appendix G MicroDrainage Simulations

Waterco Ltd				Page 1	
Eden Court		14948 - Altrincham Road			
Lon Parcwr Business Park		Manchester			
Denbighshire LL15 1NJ		1 in 100 year + 45% CC			
Date 24/10/2022		Designed by MW			
File		Checked by AW			
XP Solutions		Source Control 2020.1.3			
<u>Summary of Results for 100 year Return Period (+45%)</u>					
Storm Event	Max Level (m)	Max Depth (m)	Max Control (l/s)	Max Volume (m³)	Status
15 min Summer	9.057	1.057	4.1	137.5	O K
30 min Summer	9.377	1.377	4.2	179.0	O K
60 min Summer	9.695	1.695	4.6	220.4	O K
120 min Summer	9.888	1.888	4.9	245.5	Flood Risk
180 min Summer	9.957	1.957	4.9	254.5	Flood Risk
240 min Summer	9.977	1.977	5.0	257.0	Flood Risk
360 min Summer	9.946	1.946	4.9	253.0	Flood Risk
480 min Summer	9.889	1.889	4.9	245.6	Flood Risk
600 min Summer	9.837	1.837	4.8	238.8	Flood Risk
720 min Summer	9.787	1.787	4.7	232.3	Flood Risk
960 min Summer	9.698	1.698	4.6	220.7	O K
1440 min Summer	9.550	1.550	4.4	201.5	O K
2160 min Summer	9.363	1.363	4.2	177.2	O K
2880 min Summer	9.199	1.199	4.1	155.9	O K
4320 min Summer	8.905	0.905	4.1	117.6	O K
5760 min Summer	8.576	0.576	4.1	74.8	O K
7200 min Summer	8.391	0.391	4.1	50.8	O K
8640 min Summer	8.278	0.278	4.1	36.2	O K
10080 min Summer	8.211	0.211	3.9	27.4	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Discharge Volume (m³)	Time-Peak (mins)	
15 min Summer	159.500	0.0	140.3	16	
30 min Summer	105.270	0.0	185.2	31	
60 min Summer	66.442	0.0	233.9	62	
120 min Summer	38.830	0.0	273.4	122	
180 min Summer	28.102	0.0	296.8	180	
240 min Summer	22.269	0.0	313.5	240	
360 min Summer	15.985	0.0	337.6	360	
480 min Summer	12.626	0.0	355.5	414	
600 min Summer	10.514	0.0	370.1	476	
720 min Summer	9.056	0.0	382.5	540	
960 min Summer	7.160	0.0	403.2	672	
1440 min Summer	5.162	0.0	436.0	952	
2160 min Summer	3.731	0.0	472.9	1364	
2880 min Summer	2.971	0.0	501.9	1784	
4320 min Summer	2.163	0.0	548.0	2592	
5760 min Summer	1.733	0.0	585.5	3232	
7200 min Summer	1.463	0.0	617.9	3888	
8640 min Summer	1.277	0.0	647.1	4576	
10080 min Summer	1.140	0.0	673.9	5240	
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Waterco Ltd				Page 2	
Eden Court		14948 - Altrincham Road			
Lon Parcwr Business Park		Manchester			
Denbighshire LL15 1NJ		1 in 100 year + 45% CC			
Date 24/10/2022		Designed by MW			
File		Checked by AW			
XP Solutions		Source Control 2020.1.3			
<u>Summary of Results for 100 year Return Period (+45%)</u>					
Storm Event	Max Level (m)	Max Depth (m)	Max Control (l/s)	Max Volume (m³)	Status
15 min Winter	9.057	1.057	4.1	137.5	O K
30 min Winter	9.378	1.378	4.2	179.1	O K
60 min Winter	9.697	1.697	4.6	220.6	O K
120 min Winter	9.895	1.895	4.9	246.3	Flood Risk
180 min Winter	9.968	1.968	5.0	255.8	Flood Risk
240 min Winter	9.991	1.991	5.0	258.9	Flood Risk
360 min Winter	9.971	1.971	5.0	256.2	Flood Risk
480 min Winter	9.913	1.913	4.9	248.7	Flood Risk
600 min Winter	9.848	1.848	4.8	240.2	Flood Risk
720 min Winter	9.793	1.793	4.8	233.1	Flood Risk
960 min Winter	9.684	1.684	4.6	218.9	O K
1440 min Winter	9.483	1.483	4.4	192.8	O K
2160 min Winter	9.215	1.215	4.1	157.9	O K
2880 min Winter	8.965	0.965	4.1	125.5	O K
4320 min Winter	8.441	0.441	4.1	57.4	O K
5760 min Winter	8.225	0.225	3.9	29.3	O K
7200 min Winter	8.138	0.138	3.5	18.0	O K
8640 min Winter	8.105	0.105	3.1	13.7	O K
10080 min Winter	8.093	0.093	2.8	12.0	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Discharge Volume (m³)	Time-Peak (mins)	
15 min Winter	159.500	0.0	140.3	16	
30 min Winter	105.270	0.0	185.2	31	
60 min Winter	66.442	0.0	233.9	60	
120 min Winter	38.830	0.0	273.4	120	
180 min Winter	28.102	0.0	296.8	178	
240 min Winter	22.269	0.0	313.5	234	
360 min Winter	15.985	0.0	337.6	344	
480 min Winter	12.626	0.0	355.5	448	
600 min Winter	10.514	0.0	370.1	486	
720 min Winter	9.056	0.0	382.5	558	
960 min Winter	7.160	0.0	403.2	712	
1440 min Winter	5.162	0.0	436.0	1022	
2160 min Winter	3.731	0.0	472.9	1468	
2880 min Winter	2.971	0.0	501.9	1904	
4320 min Winter	2.163	0.0	548.1	2548	
5760 min Winter	1.733	0.0	585.5	3168	
7200 min Winter	1.463	0.0	617.9	3752	
8640 min Winter	1.277	0.0	647.1	4408	
10080 min Winter	1.140	0.0	673.9	5136	
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Waterco Ltd		Page 3
Eden Court Lon Parcwr Business Park Denbighshire LL15 1NJ	14948 - Altrincham Road Manchester 1 in 100 year + 45% CC	
Date 24/10/2022 File	Designed by MW Checked by AW	
XP Solutions Source Control 2020.1.3		

Rainfall Details

Rainfall Model	FEH
Return Period (years)	100
FEH Rainfall Version	2013
Site Location GB 380224 389297 SJ 80224 89297	
Data Type	Point
Summer Storms	Yes
Winter Storms	Yes
Cv (Summer)	1.000
Cv (Winter)	1.000
Shortest Storm (mins)	15
Longest Storm (mins)	10080
Climate Change %	+45

Time Area Diagram

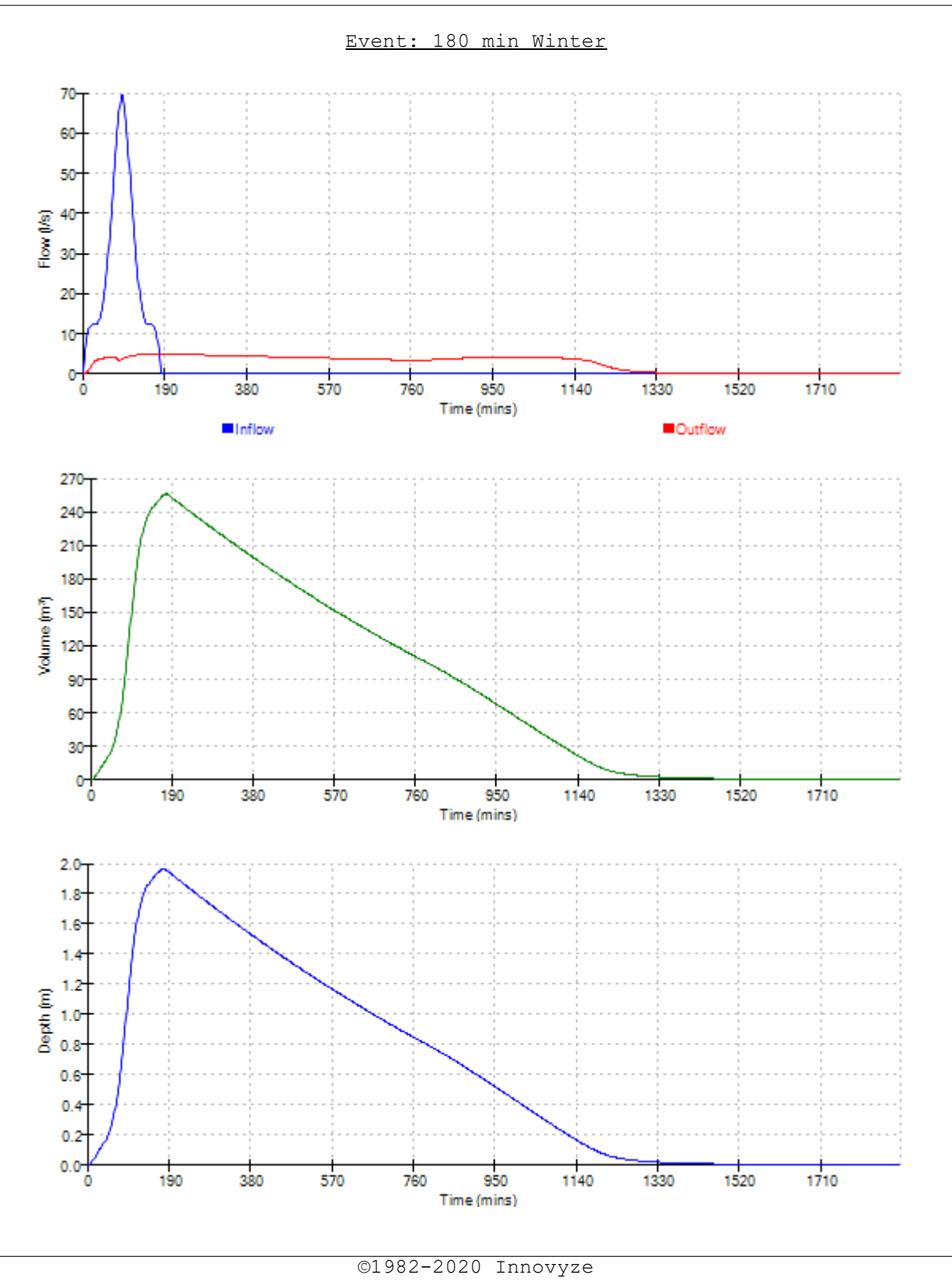
Total Area (ha) 0.352

Time (mins)	Area
From:	To: (ha)
0	1 0.352

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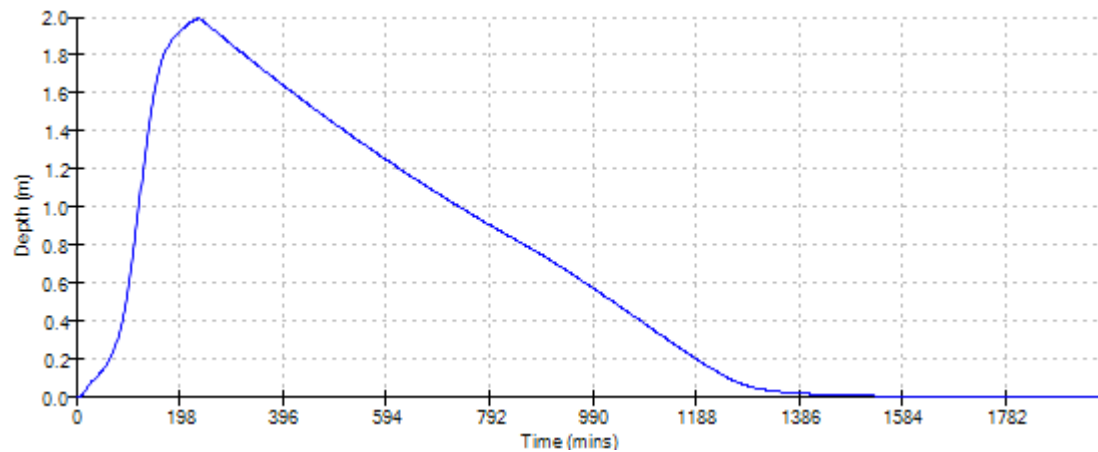
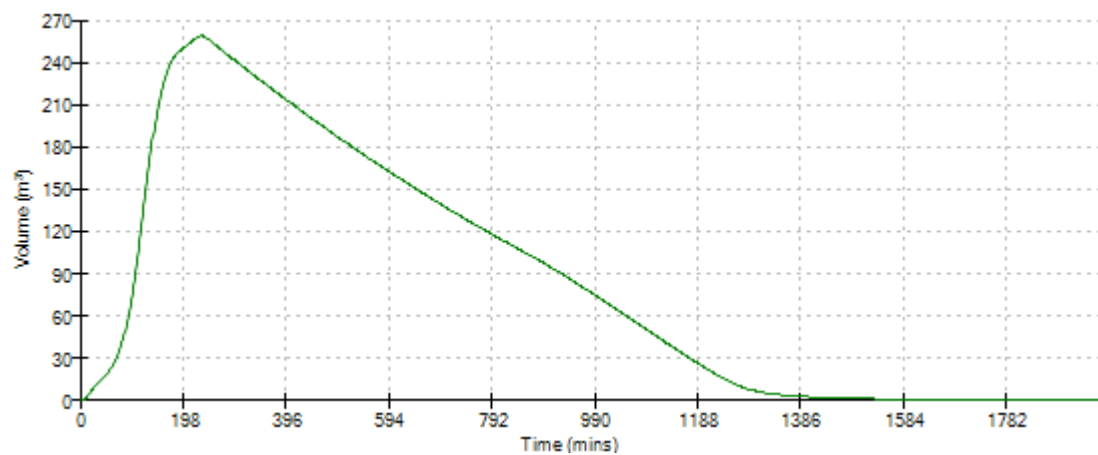
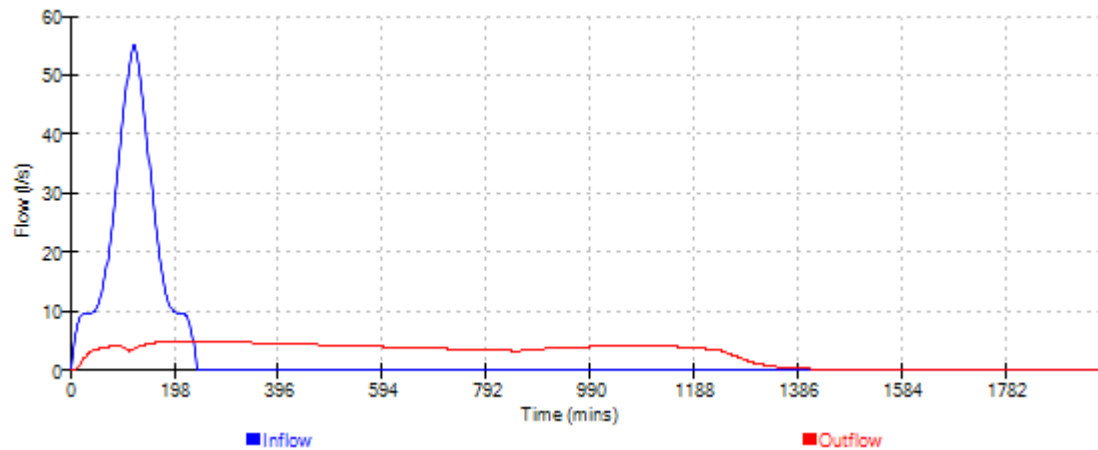
Waterco Ltd		Page 4																																																																																									
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XP Solutions	Source Control 2020.1.3																																																																																										
Model Details Storage is Online Cover Level (m) 10.000 Tank or Pond Structure Invert Level (m) 8.000 <table><tr><th>Depth (m)</th><th>Area (m²)</th><th>Depth (m)</th><th>Area (m²)</th></tr><tr><td>0.000</td><td>130.0</td><td>2.000</td><td>130.0</td></tr></table> Hydro-Brake® Optimum Outflow Control Unit Reference MD-SHE-0092-5000-2000-5000 Design Head (m)2.000 Design Flow (l/s)5.0 Flush-Flo™Calculated ObjectiveMinimise upstream storage ApplicationSurface Sump AvailableYes Diameter (mm)92 Invert Level (m)7.995 Minimum Outlet Pipe Diameter (mm)150 Suggested Manhole Diameter (mm)1200 <table><tr><th>Control Points</th><th>Head (m)</th><th>Flow (l/s)</th></tr><tr><td>Design Point (Calculated)</td><td>2.000</td><td>5.0</td></tr><tr><td>Flush-Flo™</td><td>0.398</td><td>4.1</td></tr><tr><td>Kick-Flo®</td><td>0.816</td><td>3.3</td></tr><tr><td>Mean Flow over Head Range</td><td>-</td><td>3.9</td></tr></table> The hydrological calculations have been based on the Head/Discharge relationship for the Hydro-Brake® Optimum as specified. Should another type of control device other than a Hydro-Brake Optimum® be utilised then these storage routing calculations will be invalidated <table><tr><th>Depth (m)</th><th>Flow (l/s)</th><th>Depth (m)</th><th>Flow (l/s)</th><th>Depth (m)</th><th>Flow (l/s)</th></tr><tr><td>0.100</td><td>2.9</td><td>1.600</td><td>4.5</td><td>5.000</td><td>7.7</td></tr><tr><td>0.200</td><td>3.8</td><td>1.800</td><td>4.8</td><td>5.500</td><td>8.0</td></tr><tr><td>0.300</td><td>4.1</td><td>2.000</td><td>5.0</td><td>6.000</td><td>8.4</td></tr><tr><td>0.400</td><td>4.1</td><td>2.200</td><td>5.2</td><td>6.500</td><td>8.7</td></tr><tr><td>0.500</td><td>4.1</td><td>2.400</td><td>5.4</td><td>7.000</td><td>9.0</td></tr><tr><td>0.600</td><td>4.0</td><td>2.600</td><td>5.6</td><td>7.500</td><td>9.3</td></tr><tr><td>0.800</td><td>3.4</td><td>3.000</td><td>6.0</td><td>8.000</td><td>9.6</td></tr><tr><td>1.000</td><td>3.6</td><td>3.500</td><td>6.5</td><td>8.500</td><td>9.9</td></tr><tr><td>1.200</td><td>3.9</td><td>4.000</td><td>6.9</td><td>9.000</td><td>10.2</td></tr><tr><td>1.400</td><td>4.2</td><td>4.500</td><td>7.3</td><td>9.500</td><td>10.4</td></tr></table>			Depth (m)	Area (m²)	Depth (m)	Area (m²)	0.000	130.0	2.000	130.0	Control Points	Head (m)	Flow (l/s)	Design Point (Calculated)	2.000	5.0	Flush-Flo™	0.398	4.1	Kick-Flo®	0.816	3.3	Mean Flow over Head Range	-	3.9	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	0.100	2.9	1.600	4.5	5.000	7.7	0.200	3.8	1.800	4.8	5.500	8.0	0.300	4.1	2.000	5.0	6.000	8.4	0.400	4.1	2.200	5.2	6.500	8.7	0.500	4.1	2.400	5.4	7.000	9.0	0.600	4.0	2.600	5.6	7.500	9.3	0.800	3.4	3.000	6.0	8.000	9.6	1.000	3.6	3.500	6.5	8.500	9.9	1.200	3.9	4.000	6.9	9.000	10.2	1.400	4.2	4.500	7.3	9.500	10.4
Depth (m)	Area (m²)	Depth (m)	Area (m²)																																																																																								
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0.200	3.8	1.800	4.8	5.500	8.0																																																																																						
0.300	4.1	2.000	5.0	6.000	8.4																																																																																						
0.400	4.1	2.200	5.2	6.500	8.7																																																																																						
0.500	4.1	2.400	5.4	7.000	9.0																																																																																						
0.600	4.0	2.600	5.6	7.500	9.3																																																																																						
0.800	3.4	3.000	6.0	8.000	9.6																																																																																						
1.000	3.6	3.500	6.5	8.500	9.9																																																																																						
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Waterco Ltd		Page 5
Eden Court Lon Parcwr Business Park Denbighshire LL15 1NJ	14948 - Altrincham Road	
	Manchester 1 in 100 year + 45% CC	
Date 24/10/2022	Designed by MW	
File	Checked by AW	
XP Solutions	Source Control 2020.1.3	



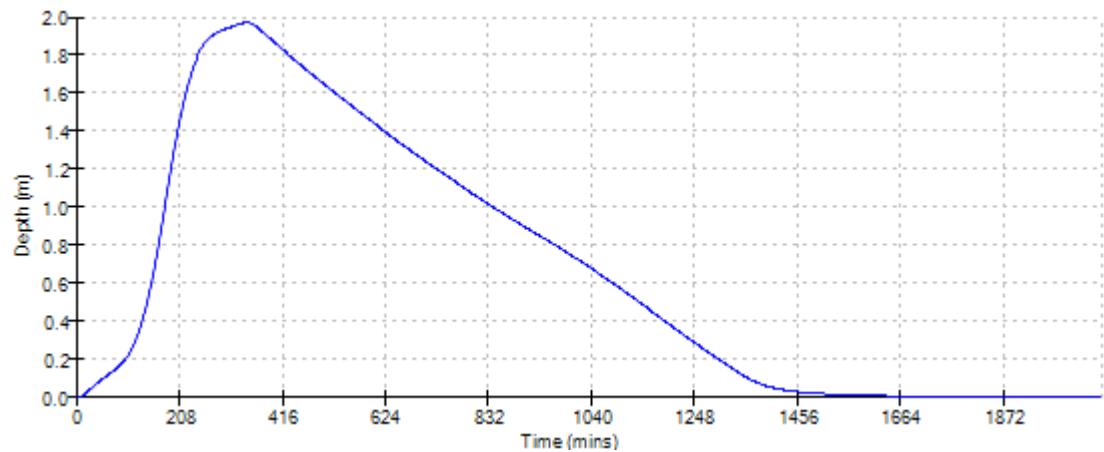
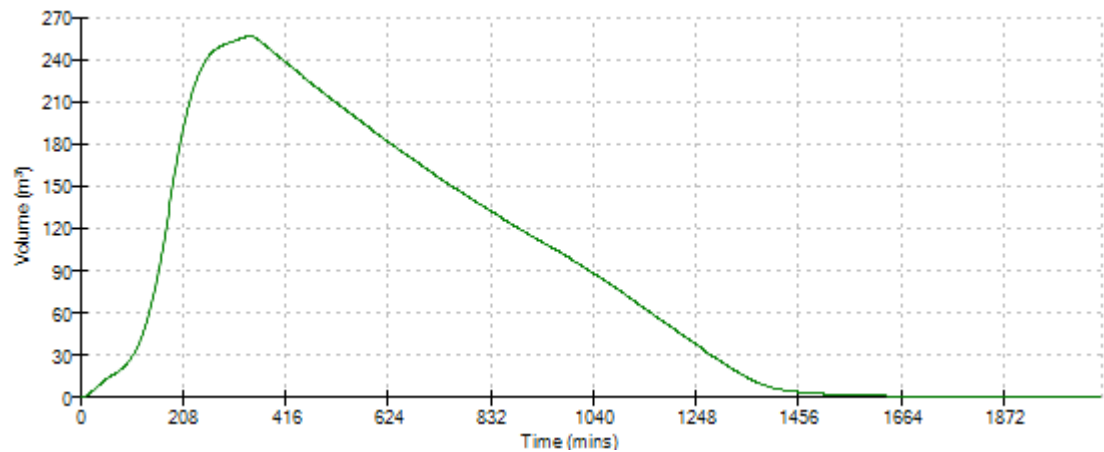
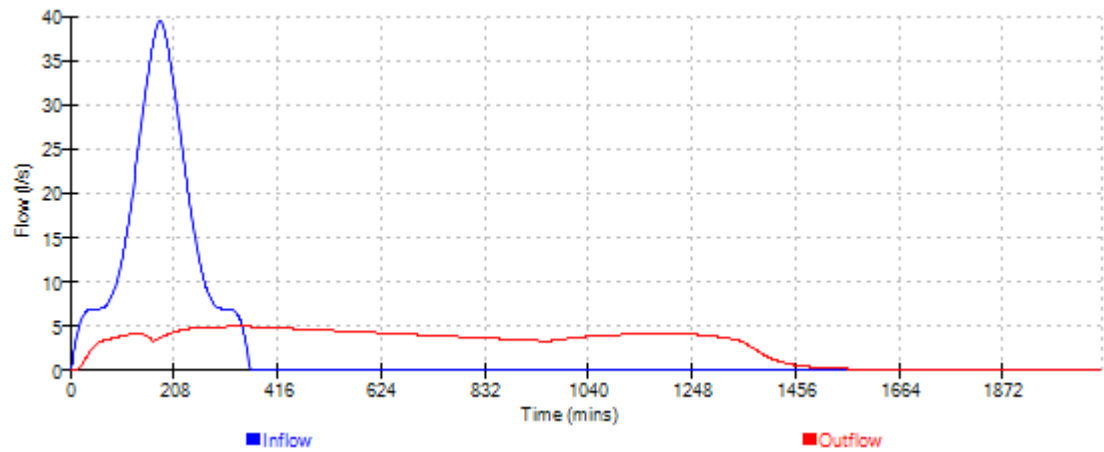
Waterco Ltd		Page 6
Eden Court	14948 - Altrincham Road	
Lon Parcwr Business Park	Manchester	
Denbighshire LL15 1NJ	1 in 100 year + 45% CC	
Date 24/10/2022	Designed by MW	
File	Checked by AW	
XP Solutions	Source Control 2020.1.3	

Event: 240 min Winter

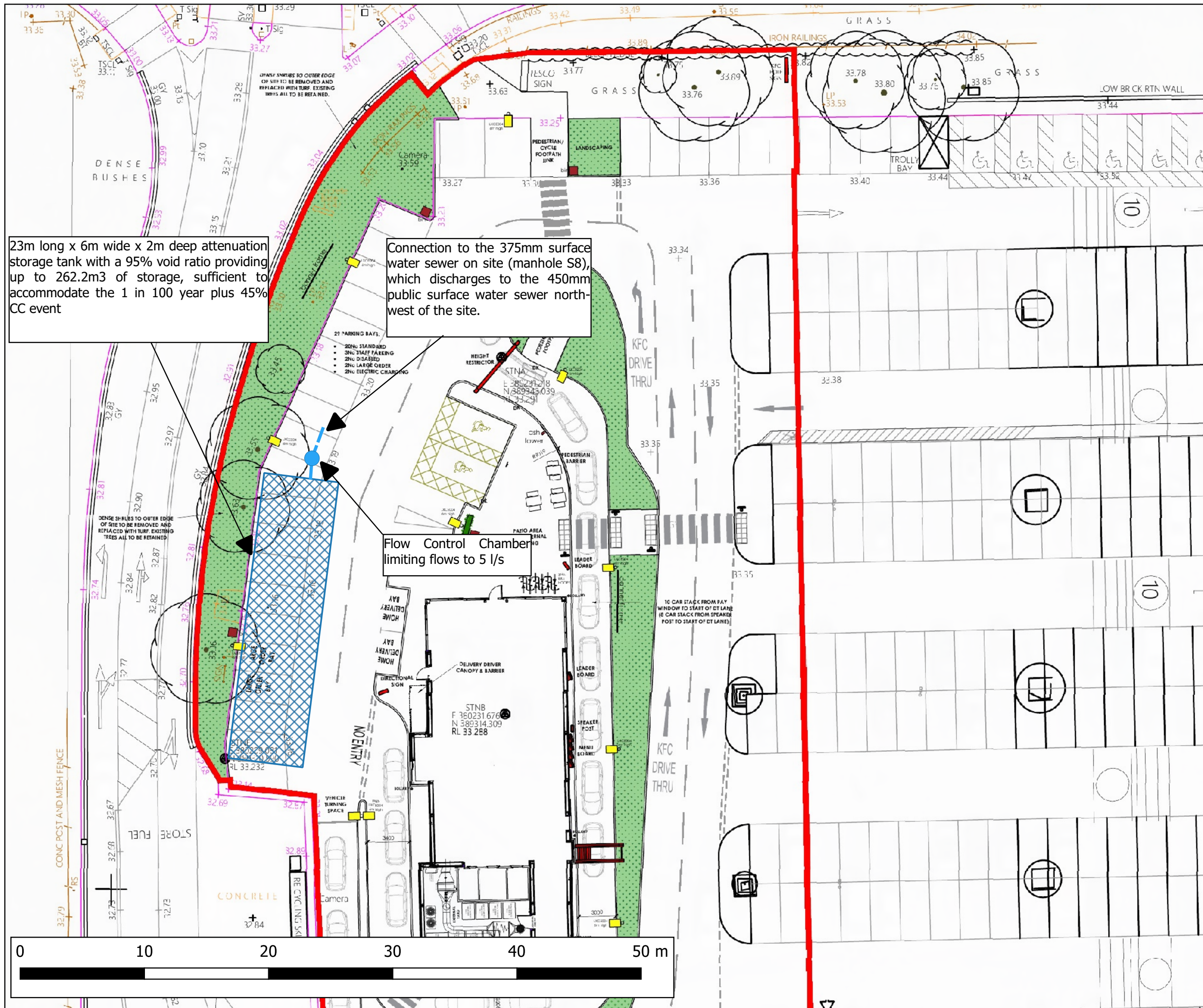


Waterco Ltd		Page 7
Eden Court Lon Parcwr Business Park Denbighshire LL15 1NJ	14948 - Altrincham Road Manchester	
	1 in 100 year + 45% CC	
Date 24/10/2022	Designed by MW	
File	Checked by AW	
XP Solutions	Source Control 2020.1.3	

Event: 360 min Winter



Appendix H Concept Drainage Sketch



Notes:			
1) This sketch has not been subject to formal checks or approvals. Its validity and use must therefore be limited to discussion and information purposes only.			
2) Unless otherwise noted the risks associated with this proposal are not considered to be extra ordinary and within the remit of an experienced and competent contractor.			
3) All dimensions in millimetres and all levels in metres above ordnance datum unless shown otherwise.			
4) This drawing is an ammendment of the 'Proposed Site Plan' by 'Frank Belshaw Building Surveyors Limited'. This drawing provides a concept only and is not intended for detailed design.			
LEGEND			
Site Boundary			
Attenuation Storage Tank			
Surface Water Drain			
Flow Control Chamber limiting flows to 5l/s			
CLIENT:			
Chicken Cabins Ltd			
 www.waterco.co.uk			
SCHEME:			
Altrincham Road, Manchester			
PLOT TITLE:			
Concept Drainage Sketch			
PLOT STATUS:			DATE:
SKETCH			18-11-2022
DRAWN:	CHECKED:	APPROVED:	PLOT SCALE AT A3:
MW	AW	NJ	1:300
PLOT NAME:			REVISION:
_Concept_Drainage_Sketch			-

Appendix I Maintenance Schedule

Operation and Maintenance Requirements for Attenuation Storage Tanks

Maintenance Schedule	Required Action	Typical Frequency
Regular maintenance	Inspect and identify any areas that are not operating correctly. If required, take remedial action	Monthly for 3 months, then annually
	Remove debris from the catchment surface (where it may cause risks to performance)	Monthly
	For systems where rainfall infiltrates into the tank from above, check surface of filter for blockage by sediment, algae or other matter; remove and replace surface infiltration medium as necessary	Annually
	Remove sediment from pre-treatment structures and/ or internal forebays	Annually, or as required
Remedial actions	Repair/rehabilitate inlets, outlet, overflows and vents	As required
Monitoring	Inspect/check all inlets, outlets, vents and overflows to ensure that they are in good condition and operating as designed	Annually
	Survey inside of tank for sediment build-up and remove if necessary	Every 5 years or as required

Ref. Table 21.3, CIRIA C753 'The SuDS Manual'

The maintenance requirements detailed above are to be undertaken by the site owner.

Name :

Position :

Date :

Signed on behalf of the site owner :

Appendix J Concept Designers Risk Assessment

Project: Altrincham Road, Manchester
Report Reference: Drainage Strategy

Project No: 14948

Prepared by: Megan Williams
Checked by: Aled Williams
Reviewed by: Nigel Jones

Date: 02/11/2022
Date: 16/11/2022
Date: 16/11/2022

Requirement:

The Construction (Design and Management) Regulations 2015 (CDM 2015) place an obligation on the Designer to take all reasonable steps to provide, with the design, sufficient information about the design, construction or maintenance of the structure, to adequately assist the client, other designers and contractors to comply with their duties under CDM. The Designer has undertaken this assessment to identify any extra-ordinary risks, or those that would not be expected on this particular project by an experienced and competent Contractor. The aim is to avoid needless paperwork and bureaucracy and ensure the assessment is project specific, relevant and proportionate to the risk.

DRA Summary

Each of the following risk areas has been considered using the question below. Is a risk present which is considered to be **extra-ordinary or unexpected** in this instance?

If **YES** - A detailed risk assessment is required at design stage

If **UNKNOWN** - Insufficient information has been provided at concept design stage and the risks are unknown. Further consideration must be given at design stage(s)

If **NO** - No further action is required.

Hazard Ref.	Risk Areas	YES, UNKNOWN or NO	Comments
1	Ground Conditions	Unknown	Refer to the Site Investigation Report (Report No. CCL03397.CN07)
2	Hazardous Environment	Unknown	Within close proximity to petrol filling station. To be confirmed at detail design stage.
3	Existing Working Environment	Unknown	To be confirmed at detail design stage
4	Existing Services	Yes	Drainage and power supply serving car wash and car park
5	Proximity to Other Structure(s)	Yes	Petrol filling station to south
6	Near Waterbody / flood risk	No	No nearby watercourses
7	Proximity to Other Activities	Unknown	To be confirmed at detail design stage
8	Sequence of Construction	Unknown	To be confirmed at detail design stage
9	Access	Unknown	Access provided from internal access road off Altrincham Road (A560) to the north
10	Interfaces	Unknown	To be confirmed at detail design stage
11	Confined Space Working	Unknown	To be confirmed at detail design stage
12	Maintenance Considerations	Unknown	To be confirmed at detail design stage
13	Working at Height	Unknown	To be confirmed at detail design stage
14	Steep Slopes	No	
15	Demolition / Refurbishment / Repair	No	
16	Welfare	Unknown	To be confirmed at detail design stage
17	Occupational Health	Unknown	To be confirmed at detail design stage
18	Environmental Issues	Unknown	To be confirmed at detail design stage
19	Other Significant Hazards not Identified Above	Unknown	To be confirmed at detail design stage
20	Residual Risk to Future Users	Unknown	To be confirmed at detail design stage