

Surface Water Drainage Calculation

**For
Twinham,
34 Hurst Road,
Hassocks,
East Sussex,
BN6 9NL**

**Date: August 2025
Project No: 63770 Rev01**

B | D

BELMONT DESIGNS
ARCHITECTURAL PRACTICE

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RH16 1PS
Tel: 01444 455161 Mobile 07885 387900

NOTES

DO NOT SCALE OFF THIS DRAWING.

CHECK ALL DIMENSIONS ON SITE BEFORE ANY WORK IS COMMENCED.
ALL GOODS MATERIALS AND WORKMANSHIP MUST CONFORM WITH CURRENT BUILDING REGULATIONS, BRITISH STANDARDS AND CODES OF PRACTICE.

A	26/02/2025	JM	Drainage
Rev	Date	By	Amendment

Client
Mr & Mrs J Bullivant

Site Address
Land adjacent to Twinham
34 Hurst Road
Hassocks
BN6 9NL

Project
Proposed detached dwelling
with parking

Drawing Title
Site Layout Plan - Planning

Date Dec 2024	Scale 1:100@A1	Drawn By JM
Job No B043.24	Dwg No 01	Checked By JTM
		Rev A

PROPOSED SITE LAYOUT PLAN





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Location Plan 1:1250@A1



Block Plan 1:500@A1

B | D

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Rev	Date	By	Amendment
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**Proposed detached dwelling
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Drawing Title
**Proposed Location and
Block Plans - Planning**

Date	Scale	Drawn By	JM
Dec 2024	1:100@A1	Checked By	JTM
Job No	Dwg No	Rev	
B.043.24	05	*	

EXISTING 0.6m x 2.0m DEEP FOUL
SEWAGE PUMPING STATION
CL: 64.00
BSL: 62.00(TBO)
DEPTH: 2.00m

NEW FW CONNECTION INTO
EXISTING PRIVATE MANHOLE
INCOMING PIPE INVERT
LEVEL: 63.32

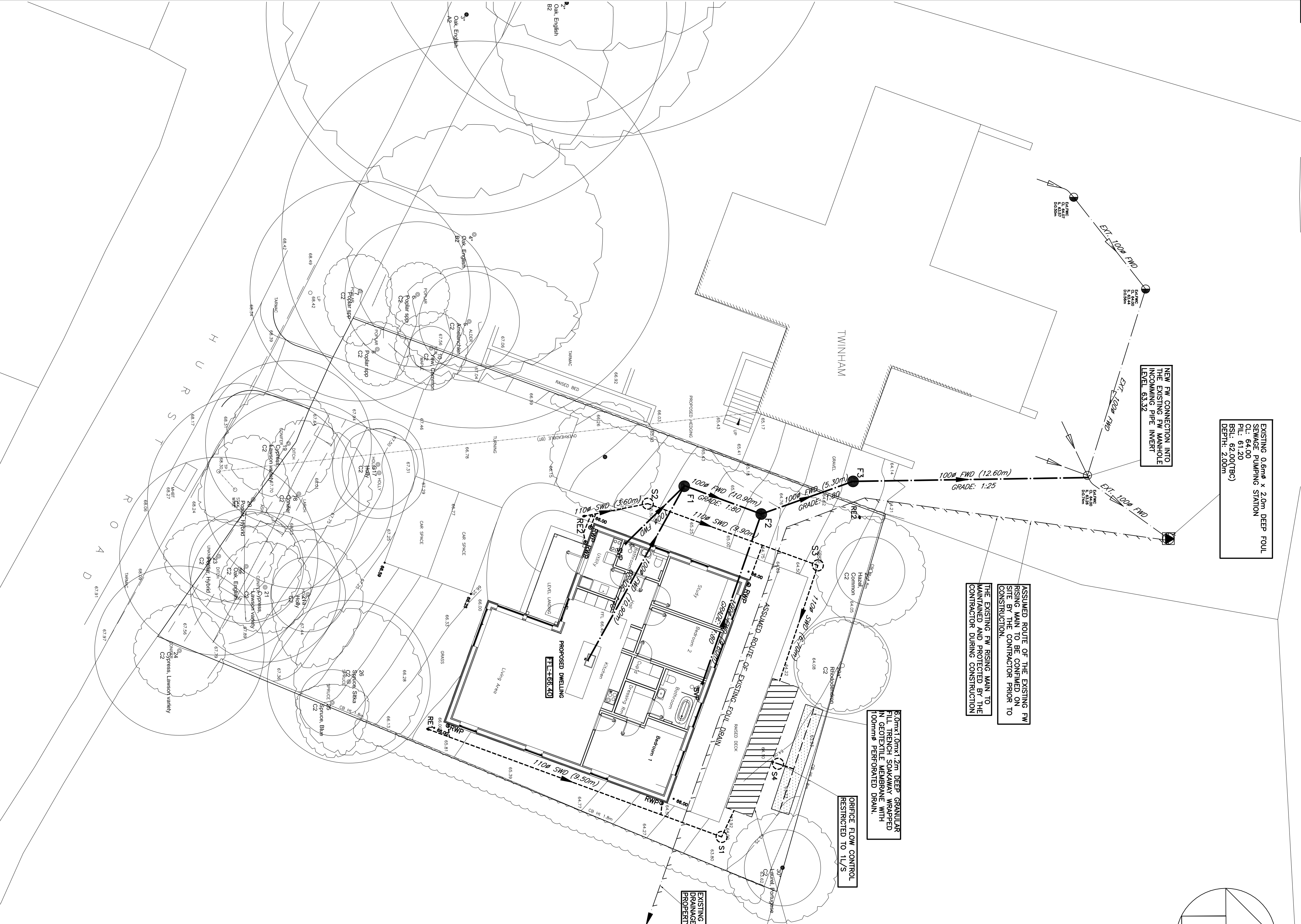
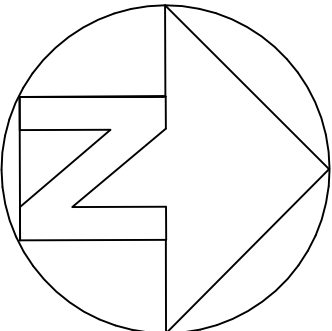
ASSUMED ROUTE OF THE EXISTING FW
RISING MAIN TO BE CONFIRMED ON
SITE BY THE CONTRACTOR PRIOR TO
CONSTRUCTION.
THE EXISTING FW RISING MAIN TO
BE MAINTAINED AND PROTECTED BY THE
CONTRACTOR DURING CONSTRUCTION

60mm DIA x 2m DEEP GRANULAR
ATTENUATION STORAGE TANK
IN GEOTEXTILE MEMBRANE WITH
100mm PERFORATED DRAIN.

PRICE FLOW CONTROL
RESTRICTED TO 1L/S

ATTENUATION STORAGE TANK
(500x500x600mm units)
CL 64.1 (TBO)
TOTL 63.80 (TBO)
BOTT 63.00 (TBO)
SINK SIZE: 6.50 x 0.60m dp
Note: Greater strength units may be required
depending on loadings subjected during the
construction period - Contractor to advise with
manufacturer.

EXISTING FW RISING MAIN TO PRIVATE
DRAINAGE SYSTEM ON THE TOWN SITE
PROPERTY TO BE MAINTAINED



KEY

- ★ SVP Soil Vent Pipe with Rodding Access
 - RWP Rain Water Pipe with Rodding Access
 - SS Stub Stack with Air Admittance Valve
 - RE Rodding Eye
 - CD Channel Drain
 - SW -Existing Private Surface Water Sewer
 - SW -Proposed Private Surface Water Sewer
 - SW -Proposed Private Perforate Drain
 - SW -Existing Public Surface Water Sewer
 - FW -Existing Private Foul Water Sewer
 - FW -Proposed Private Foul Water Sewer
 - FW -Existing Public Foul Water Sewer
 - FW -Existing Private Foul Water Pumping Main
- F6 Foul Manhole
- S6 Surface Water Manhole
- Ext.FLC
- Existing Private Foul Water Manhole
- Existing Private Foul Water Pumping Station
- SW Attenuation Tank
- SW Trench Soakaway

FOUL WATER MANHOLE SCHEDULE						
M/H REF	APPROX. COVER LEVEL	INVERT LEVEL	DEPTH (M)	M/H TYPE	COVER TYPE	COMMENTS
F1	65.46	64.86	0.60	3	B125	
F2	64.85	64.20	0.65	3	B125	
F3	64.43	63.83	0.60	3	B125	TO EXISTING FW MH IL:63.26
SURFACE WATER MANHOLE SCHEDULE						
M/H REF	APPROX. COVER LEVEL	INVERT LEVEL	DEPTH (M)	M/H TYPE	COVER TYPE	COMMENTS
RE1	66.00	65.40	0.60	RODDING EYE	-	
S1	64.00	63.50	0.50	3	B125	TO ATTENUATION TANK
RE2	66.00	65.40	0.60	RODDING EYE	-	
S2	65.65	65.00	0.65	3	B125	
S3	64.50	63.50	1.00	3A SILT TRAP	B125	TO ATTENUATION TANK
S4	64.00	63.00	1.00	3B 600ø FLOW CONTROL MH	B125	TO TRENCH SOAKAWAY

ALL DIMENSIONS AND LEVELS
TO BE CHECKED AND
CONFIRMED BY THE ARCHITECT
PRIOR TO CONSTRUCTION.

B	MENDED SW DRAINAGE LAYOUT	07/08/25JS	
A	MENDED DRAINAGE LAYOUT	05/06/25JS	
O	ORIGINAL ISSUE	30/04/25JS	
REV	DESCRIPTION	DATE	BY

DIXON HURST

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CONTRACT
**LAND ADJACENT TO TWINHAM
34 HURST ROAD,
HASOCKS, BN6 9NL**

DRAWING		
DRAWING NO.	63770 / 10	REV B
SCALE	1:125@ A1	DATE JULY 25
AutoCAD Ref:	63770-10.dwg	US
APPROVED		

In addition to these notes, reference shall be made to the specification of works and the relevant Architect's and Specialist's drawings and specifications. The Contractor is responsible for verifying all site dimensions before commencing work.

All dimensions are in millimetres unless noted otherwise.

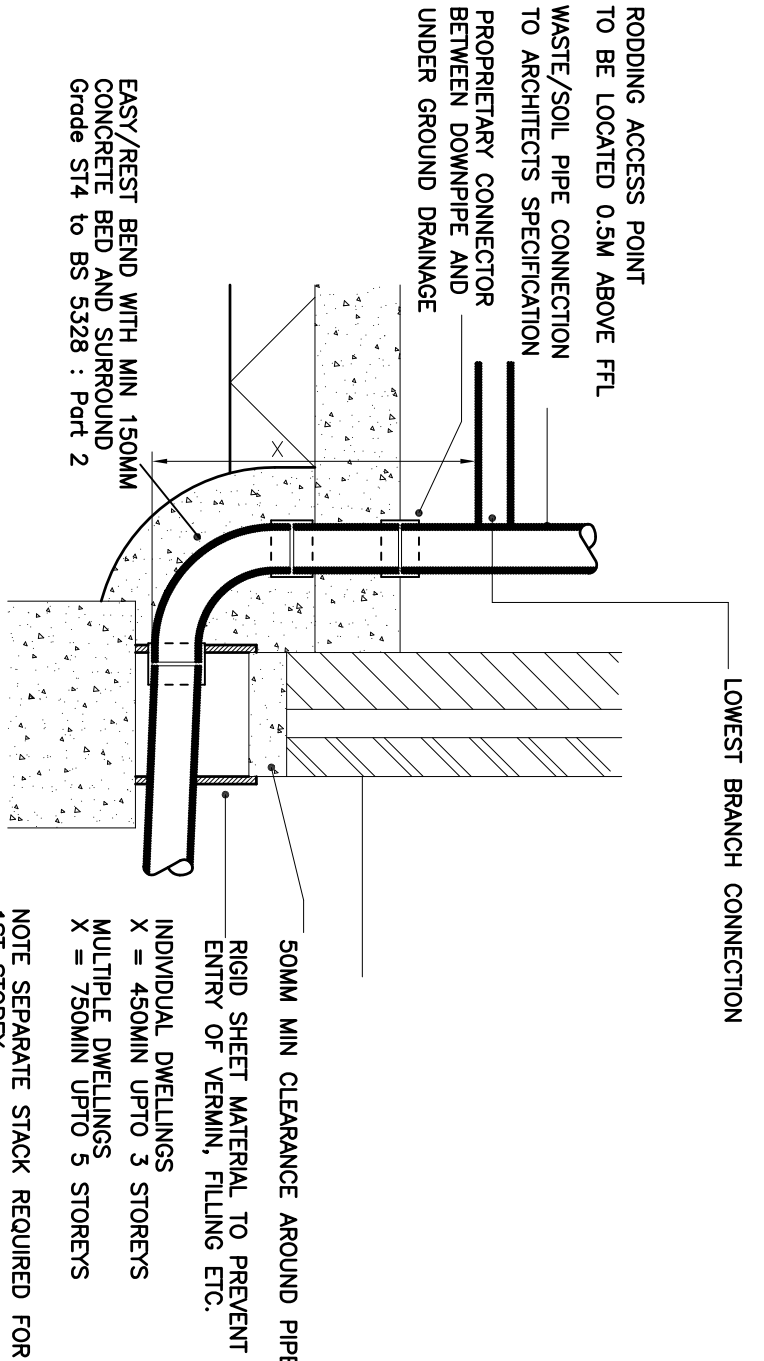
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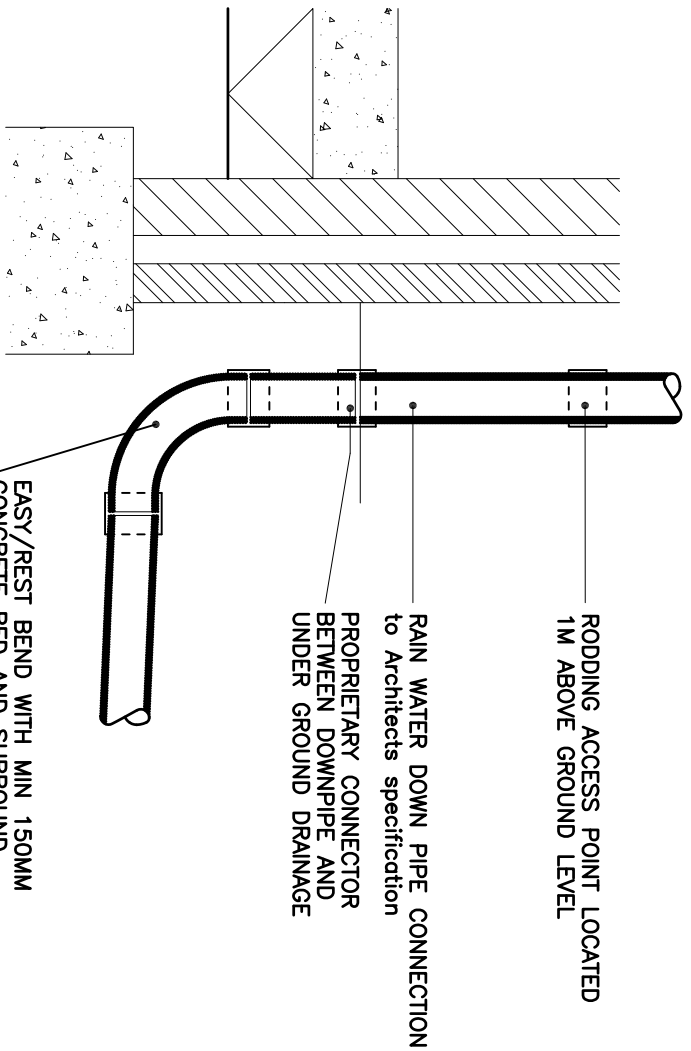
The Contractor is responsible for the stability of the building whilst the works are in progress.

NOTES

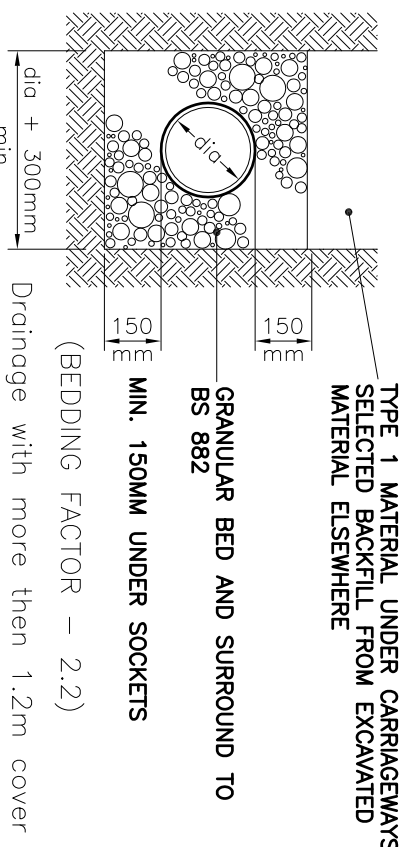
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- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE FOLLOWING DRAWING:
63770/11 DRAINAGE DETAILS
- CONTRACTOR IS TO TAKE NECESSARY PRECAUTIONS TO ENSURE THAT TRENCHES ARE KEPT CLEAR OF GROUND WATER DURING CONSTRUCTION.
- ALL DRAINAGE WORKS TO BE CARRIED OUT IN ACCORDANCE WITH 'SEWERS FOR ADOPTION' 7TH EDITION.
- ALL ADOPTED PIPEWORK TO BE 100ø VITRIFIED CLAY UNLESS NOTED OTHERWISE.
- ALL PIPEWORK THROUGH WALLS TO BE IN ACCORDANCE WITH THE BUILDING REGULATIONS.
- ALL PIPEWORK UNDER ROADS WITH LESS THAN 900MM COVER TO HAVE 150MM CONCRETE SURROUND.
- MINIMUM GRADIENT TO DRAINS TO BE 1:40 FOR 110ø OR 110ø FW AND 1:100 FOR 110ø SW.
- ALL ADOPTED PIPEWORK, DRAINAGE LATRACS OR PIPE CONNECTIONS TO THE PUBLIC SHALL BE VITRIFIED 150ø PIPE MATERIAL TO SOUTHERN WATER APPROVAL.
- POSITIONS OF MANHOLES SHOWN ON THIS DRAWING ARE INDICATIVE ONLY. ACTUAL LOCATIONS TO BE FINALIZED ON SITE.
- PROVIDE CONCRETE LINTELS OVER OPENINGS WHERE PIPES PASS THROUGH WALLS. ALLOW FOR 150MM CLEARANCE ALL ROUND PIPE.



TYPICAL SOIL VENT PIPE DETAILS
SCALE 1:20

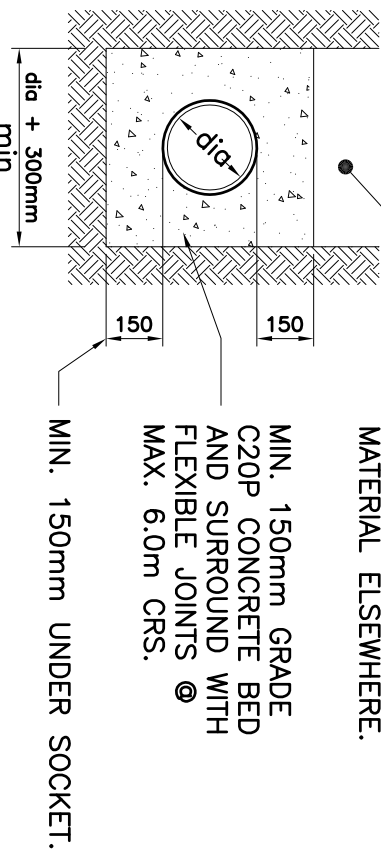


TYPICAL RAIN WATER DOWNPIPE DETAIL
SCALE 1:20



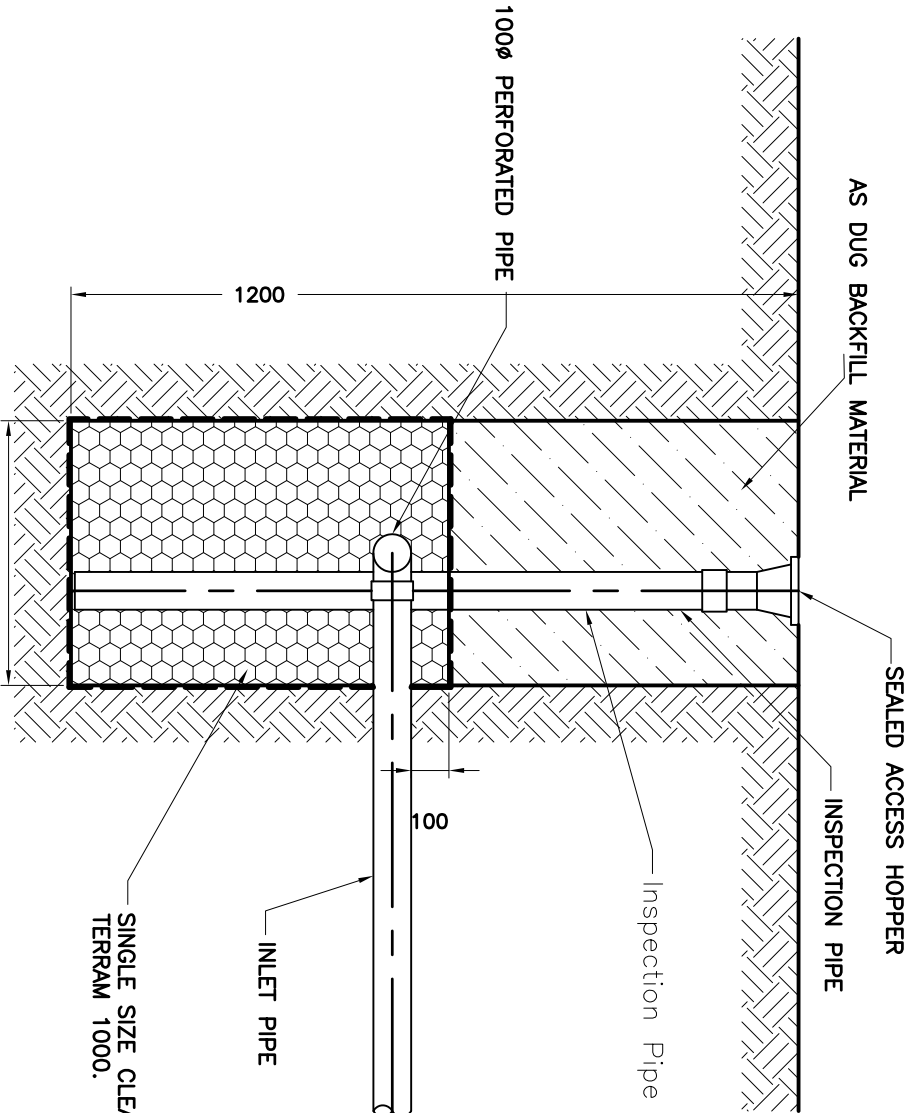
TYPE 'S'

TYPICAL PIPE JOINTING DETAIL
SCALE 1:20

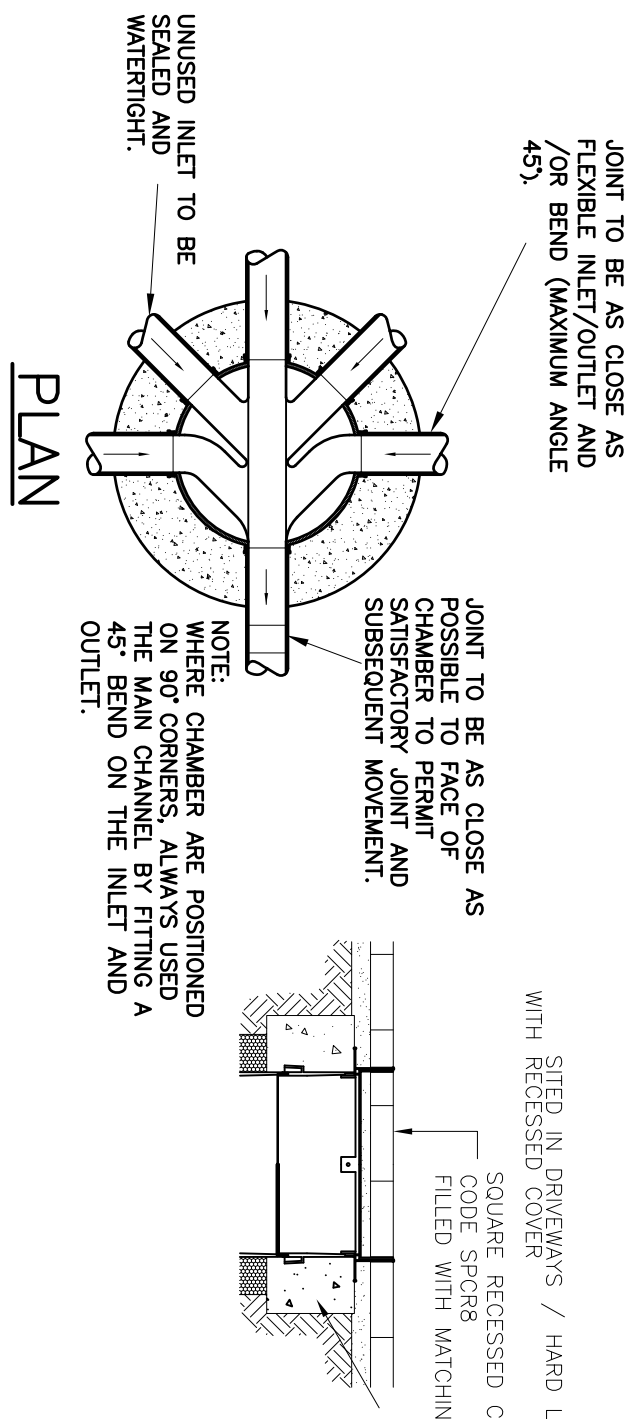


CONCRETE PIPE BEDDING

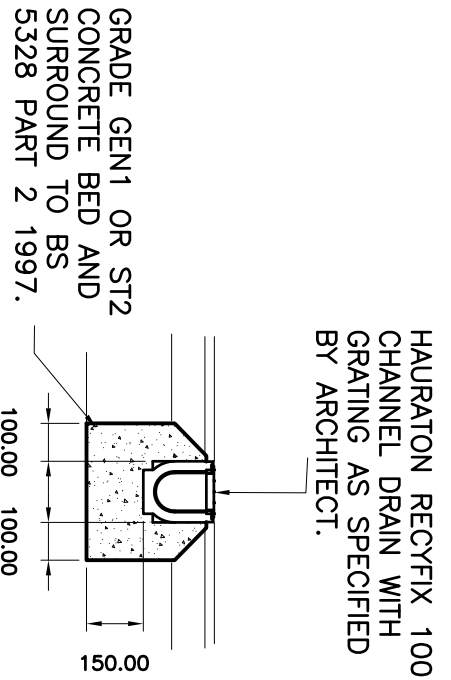
PIPE BEDDING DETAIL
SCALE 1:20



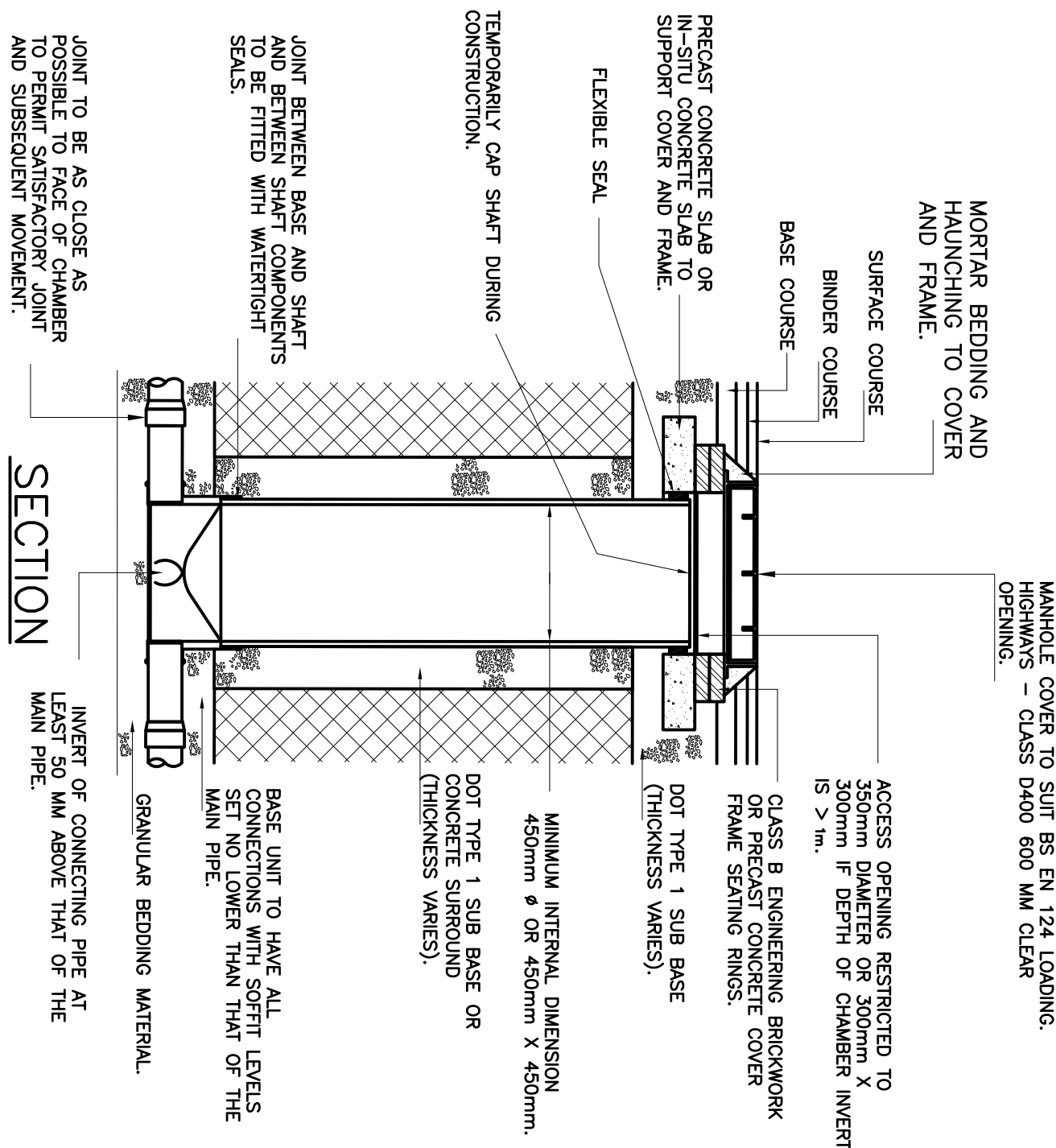
TRENCH SOAKAWAY DETAIL
SCALE 1:20



RODDING EYE ACCESS POINT DETAIL
SCALE 1:20

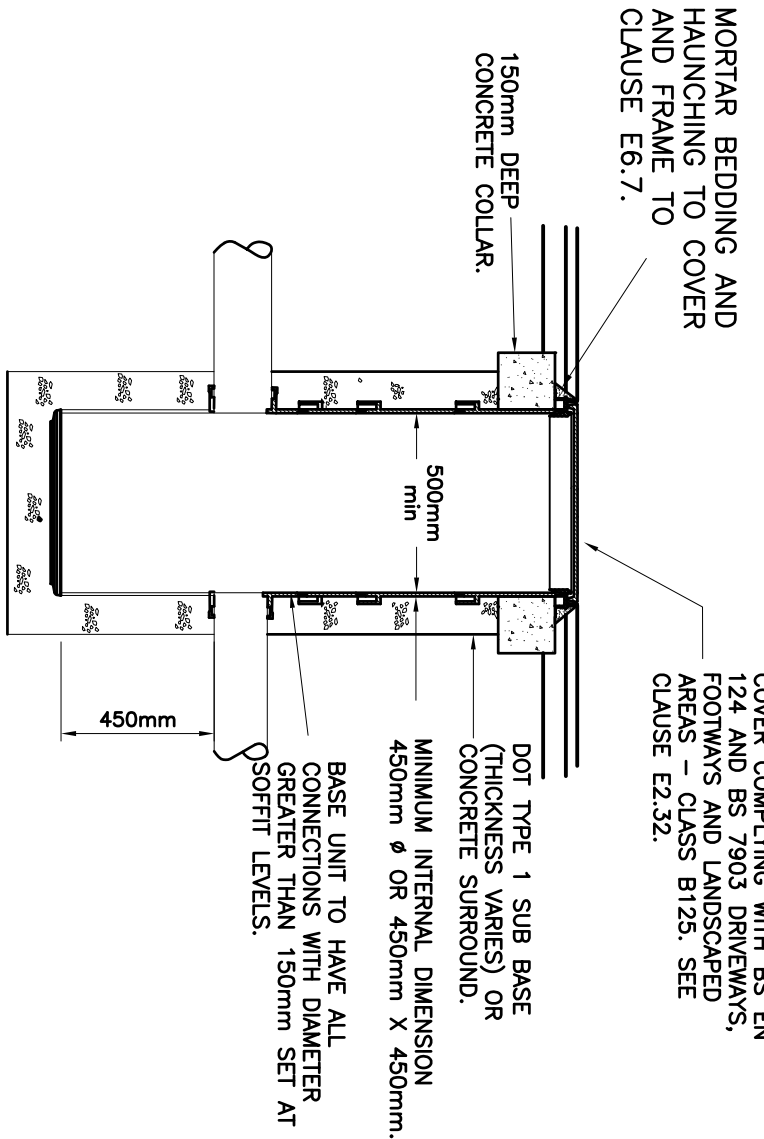


RECYFIX CHANNEL DRAIN (250kN)
SCALE 1:20

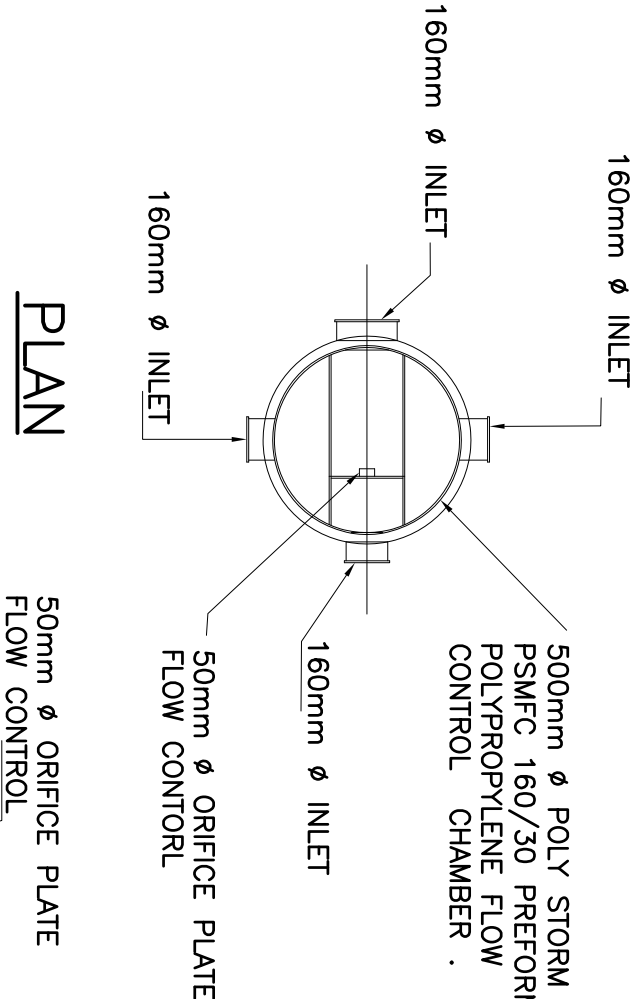


TYPE 3 - 450P POLYPROPYLENE INSPECTION CHAMBER (MAX. DEPTH 3.0M TO PIPE SOFFIT).
SCALE 1:20

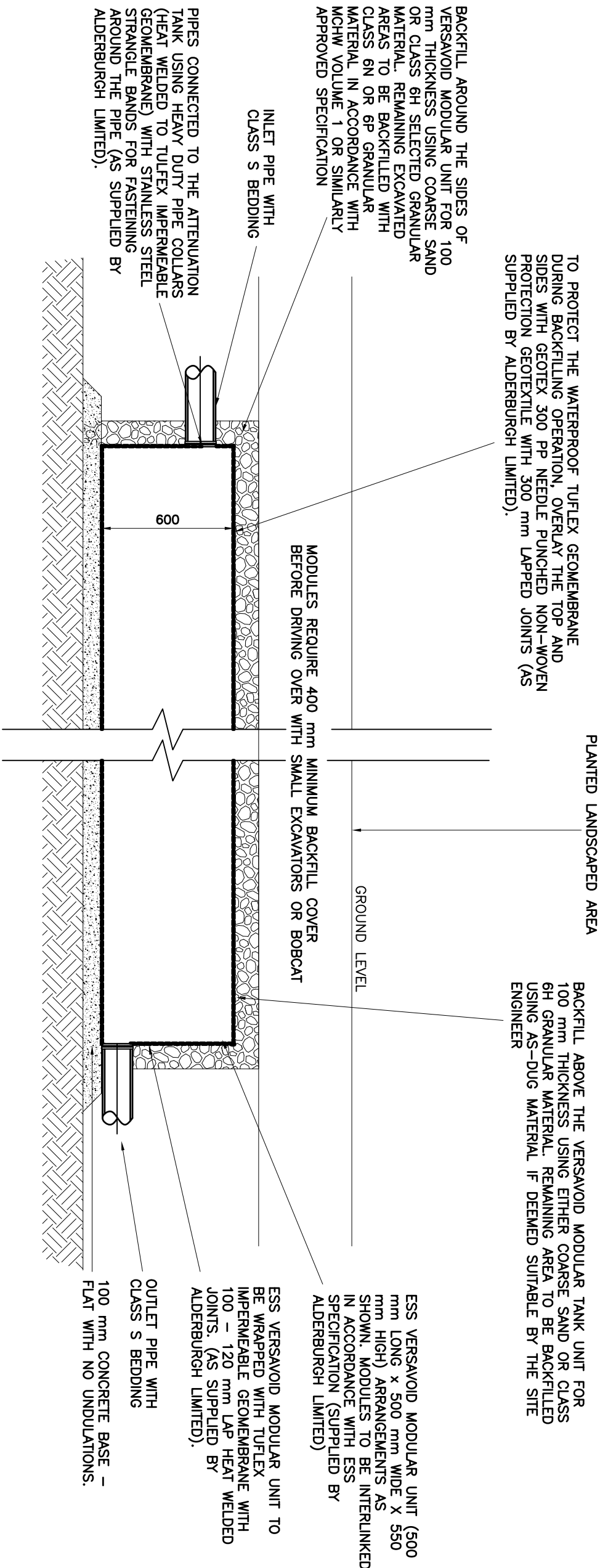
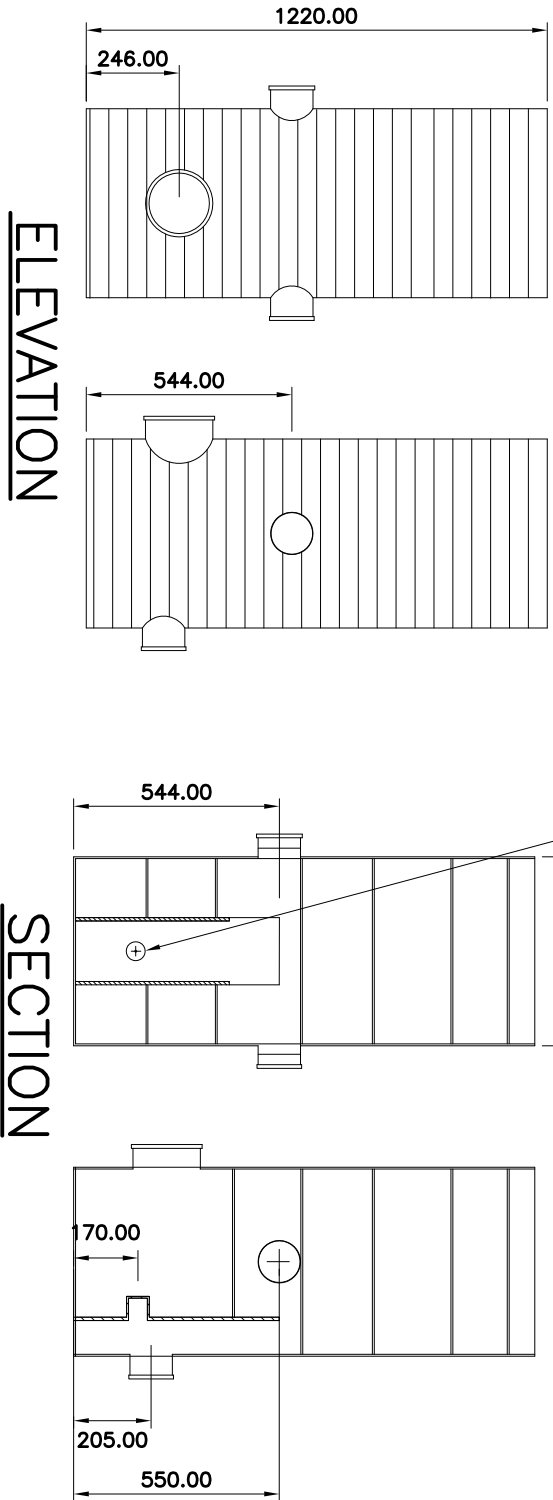
NOTE: PLASTIC CHAMBERS AND RING SHALL COMPLY WITH BS EN 13598-1 AND BS EN 13598-2 OR HAVE EQUIVALENT INDEPENDENT APPROVAL.



TYPE 3A-500P POLYPROPYLENE SILT TRAP INSPECTION CHAMBER.
SCALE 1:20



TYPE 3B-600P POLYPROPYLENE FLOW CONTROL MANHOLE CHAMBER.
SCALE 1:20



ESS VERSA VOID STORAGE TANK UNDER LANDSCAPED AREA
SCALE 1:20

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A	AMENDED DRAINAGE DETAILS	07/08/25JS
0	ORIGINAL ISSUE	05/06/25JS
REV	DESCRIPTION	DATE

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HASSOCKS, BN6 9NL

DRAINAGE DETAILS

DRAWING NO.	REV	CHECKED
63770 / 11	A	
SCALE	DATE	DRAWN
1:200 A1	11/01/25	JS
AutoCAD Ref: 63770-10.dwg		

This drawing is produced using AutoCAD. Only written dimensions are to be respected.

Dixon Hurst Kemp		Page 2
Victoria Court 22 St Pancras West Sussex PO19 7GD	Twinham 34 Hurst Road Hass... Surface Water Drainage Attenuation Tank Design	
Date July 25	Designed by JS	
File ATTENUATION TANK.SRCX	Checked by	
Elstree Computing Ltd	Source Control w.12.6	

Summary of Results for 1 year Return Period (+45%)

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Control (l/s)	Max Σ Outflow (l/s)	Max Volume (m³)	Status
240 min Winter	63.125	0.125	0.0	0.4	0.4	1.3	0 K
360 min Winter	63.103	0.103	0.0	0.4	0.4	1.1	0 K
480 min Winter	63.087	0.087	0.0	0.4	0.4	0.9	0 K
600 min Winter	63.074	0.074	0.0	0.3	0.3	0.8	0 K
720 min Winter	63.064	0.064	0.0	0.3	0.3	0.7	0 K
960 min Winter	63.051	0.051	0.0	0.3	0.3	0.5	0 K
1440 min Winter	63.037	0.037	0.0	0.2	0.2	0.4	0 K
2160 min Winter	63.030	0.030	0.0	0.2	0.2	0.3	0 K
2880 min Winter	63.027	0.027	0.0	0.1	0.1	0.3	0 K
4320 min Winter	63.022	0.022	0.0	0.1	0.1	0.2	0 K
5760 min Winter	63.020	0.020	0.0	0.1	0.1	0.2	0 K
7200 min Winter	63.018	0.018	0.0	0.1	0.1	0.2	0 K
8640 min Winter	63.016	0.016	0.0	0.1	0.1	0.2	0 K
10080 min Winter	63.015	0.015	0.0	0.1	0.1	0.2	0 K

Storm Event	Rain (mm/hr)	Time-Peak (mins)
240 min Winter	7.499	156
360 min Winter	5.677	222
480 min Winter	4.658	284
600 min Winter	3.996	344
720 min Winter	3.526	404
960 min Winter	2.895	520
1440 min Winter	2.194	752
2160 min Winter	1.659	1108
2880 min Winter	1.362	1460
4320 min Winter	1.032	2208
5760 min Winter	0.848	2936
7200 min Winter	0.726	3680
8640 min Winter	0.639	4408
10080 min Winter	0.574	5088

Dixon Hurst Kemp		Page 3
Victoria Court 22 St Pancras West Sussex PO19 7GD	Twinham 34 Hurst Road Hass... Surface Water Drainage Attenuation Tank Design	
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Elstree Computing Ltd	Source Control w.12.6	

Rainfall Details

Rainfall Model	FSR	Winter Storms	Yes
Return Period (years)	1	Cv (Summer)	0.750
Region	England and Wales	Cv (Winter)	0.840
M5-60 (mm)	20.000	Shortest Storm (mins)	15
Ratio R	0.347	Longest Storm (mins)	10080
Summer Storms	Yes	Climate Change %	+45

Time / Area Diagram

Total Area (ha) 0.016

Time (mins)	Area (ha)	Time (mins)	Area (ha)	Time (mins)	Area (ha)
0-4	0.005	4-8	0.005	8-12	0.005

Dixon Hurst Kemp		Page 4
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Model Details

Storage is Online Cover Level (m) 64.100

Cellular Storage Structure

Invert Level (m) 63.000 Safety Factor 2.0
Infiltration Coefficient Base (m/hr) 0.00000 Porosity 0.95
Infiltration Coefficient Side (m/hr) 0.00000

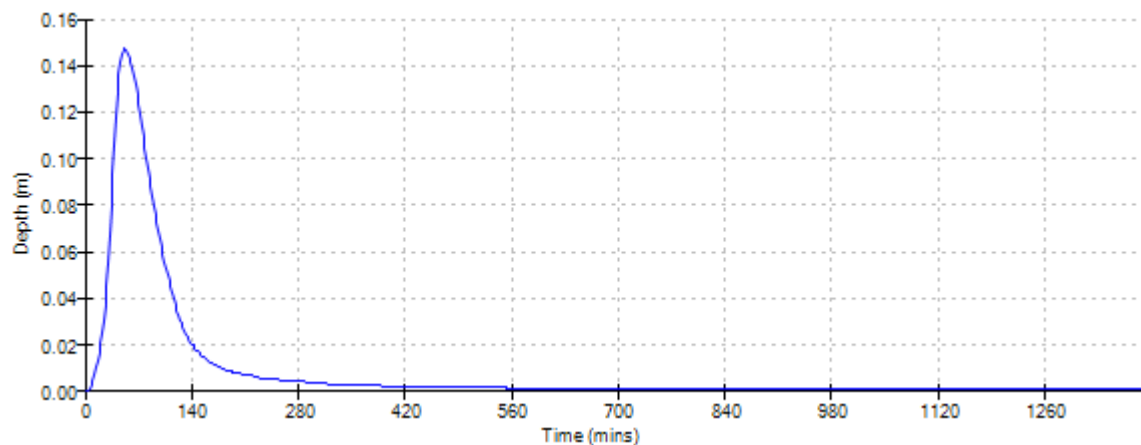
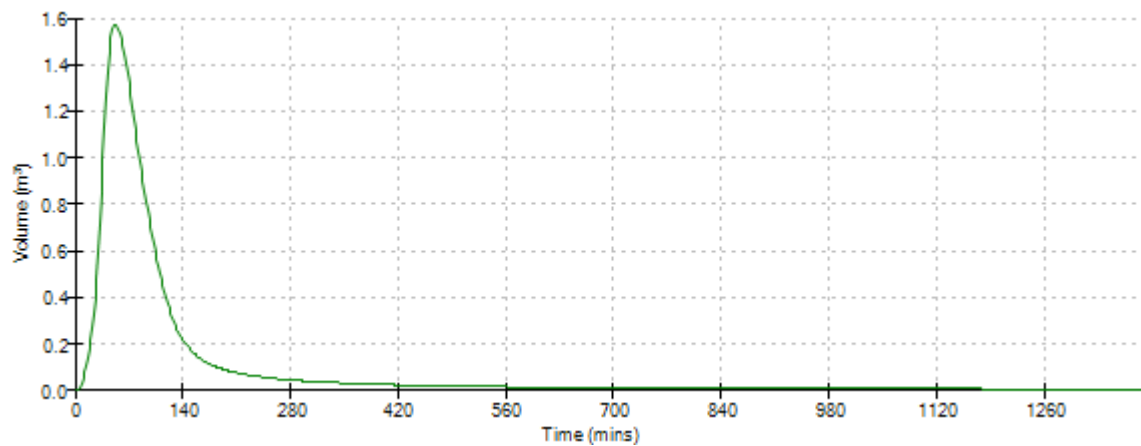
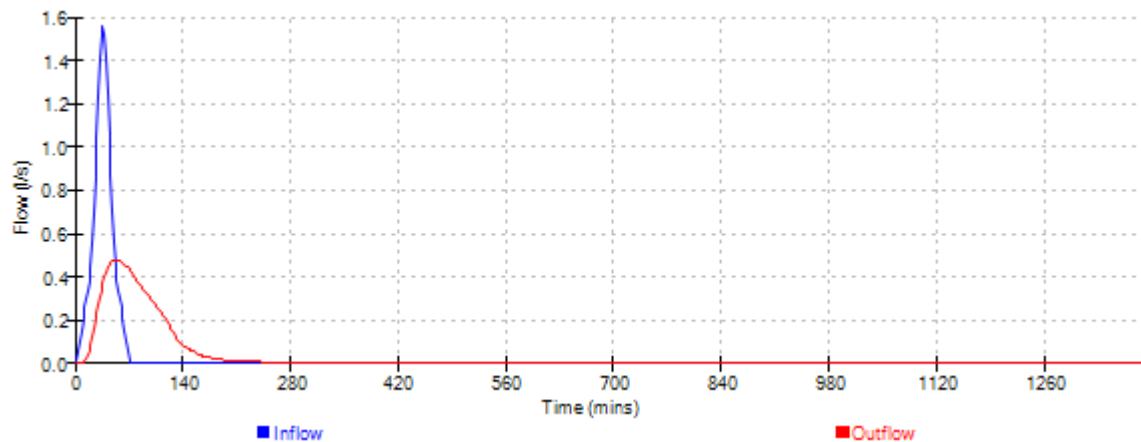
Depth (m)	Area (m ²)	Inf. Area (m ²)	Depth (m)	Area (m ²)	Inf. Area (m ²)
0.000	11.3	11.3	0.700	0.0	22.1
0.600	11.3	22.1			

orifice Outflow Control

Diameter (m) 0.025 Discharge Coefficient 0.600 Invert Level (m) 63.000

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Victoria Court 22 St Pancras West Sussex PO19 7GD	Twinham 34 Hurst Road Hass...	
	Surface Water Drainage Attenuation Tank Design	
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Event: 60 min Winter



Dixon Hurst Kemp		Page 1					
Victoria Court 22 St Pancras West Sussex PO19 7GD	Twinham 34 Hurst Road Hass...						
Date July 25	Surface Water Drainage Attenuation Tank Design						
File ATTENUATION TANK.SRCX	Designed by JS						
Elstree Computing Ltd	Checked by						
Source Control w.12.6							
Summary of Results for 30 year Return Period (+45%)							
Half Drain Time : 55 minutes.							
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Control (l/s)	Max Outflow (l/s)	Max Volume (m³)	Status
15 min Summer	63.248	0.248	0.0	0.6	0.6	2.7	0 K
30 min Summer	63.311	0.311	0.0	0.7	0.7	3.3	0 K
60 min Summer	63.350	0.350	0.0	0.8	0.8	3.7	0 K
120 min Summer	63.361	0.361	0.0	0.8	0.8	3.9	0 K
180 min Summer	63.349	0.349	0.0	0.8	0.8	3.7	0 K
240 min Summer	63.332	0.332	0.0	0.7	0.7	3.5	0 K
360 min Summer	63.297	0.297	0.0	0.7	0.7	3.2	0 K
480 min Summer	63.267	0.267	0.0	0.7	0.7	2.9	0 K
600 min Summer	63.240	0.240	0.0	0.6	0.6	2.6	0 K
720 min Summer	63.218	0.218	0.0	0.6	0.6	2.3	0 K
960 min Summer	63.182	0.182	0.0	0.5	0.5	1.9	0 K
1440 min Summer	63.134	0.134	0.0	0.5	0.5	1.4	0 K
2160 min Summer	63.093	0.093	0.0	0.4	0.4	1.0	0 K
2880 min Summer	63.070	0.070	0.0	0.3	0.3	0.7	0 K
4320 min Summer	63.047	0.047	0.0	0.2	0.2	0.5	0 K
5760 min Summer	63.036	0.036	0.0	0.2	0.2	0.4	0 K
7200 min Summer	63.032	0.032	0.0	0.2	0.2	0.3	0 K
8640 min Summer	63.029	0.029	0.0	0.1	0.1	0.3	0 K
10080 min Summer	63.027	0.027	0.0	0.1	0.1	0.3	0 K
15 min Winter	63.279	0.279	0.0	0.7	0.7	3.0	0 K
30 min Winter	63.352	0.352	0.0	0.8	0.8	3.8	0 K
60 min Winter	63.397	0.397	0.0	0.8	0.8	4.2	0 K
120 min Winter	63.402	0.402	0.0	0.8	0.8	4.3	0 K
180 min Winter	63.380	0.380	0.0	0.8	0.8	4.1	0 K
Storm Event	Rain (mm/hr)	Time-Peak (mins)					
15 min Summer	105.082	22					
30 min Summer	70.021	33					
60 min Summer	44.676	52					
120 min Summer	27.642	86					
180 min Summer	20.622	120					
240 min Summer	16.674	154					
360 min Summer	12.359	220					
480 min Summer	9.980	284					
600 min Summer	8.449	348					
720 min Summer	7.371	408					
960 min Summer	5.939	530					
1440 min Summer	4.374	770					
2160 min Summer	3.217	1128					
2880 min Summer	2.585	1480					
4320 min Summer	1.896	2208					
5760 min Summer	1.521	2928					
7200 min Summer	1.282	3648					
8640 min Summer	1.116	4400					
10080 min Summer	0.992	5120					
15 min Winter	105.082	23					
30 min Winter	70.021	34					
60 min Winter	44.676	56					
120 min Winter	27.642	92					
180 min Winter	20.622	130					
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Dixon Hurst Kemp		Page 2
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Date July 25	Designed by JS	
File ATTENUATION TANK.SRCX	Checked by	
Elstree Computing Ltd	Source Control w.12.6	

Summary of Results for 30 year Return Period (+45%)

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Control (l/s)	Max Σ Outflow (l/s)	Max Volume (m³)	Status
240 min Winter	63.352	0.352	0.0	0.8	0.8	3.8	0 K
360 min Winter	63.300	0.300	0.0	0.7	0.7	3.2	0 K
480 min Winter	63.257	0.257	0.0	0.6	0.6	2.7	0 K
600 min Winter	63.222	0.222	0.0	0.6	0.6	2.4	0 K
720 min Winter	63.193	0.193	0.0	0.6	0.6	2.1	0 K
960 min Winter	63.150	0.150	0.0	0.5	0.5	1.6	0 K
1440 min Winter	63.100	0.100	0.0	0.4	0.4	1.1	0 K
2160 min Winter	63.064	0.064	0.0	0.3	0.3	0.7	0 K
2880 min Winter	63.047	0.047	0.0	0.2	0.2	0.5	0 K
4320 min Winter	63.033	0.033	0.0	0.2	0.2	0.4	0 K
5760 min Winter	63.029	0.029	0.0	0.1	0.1	0.3	0 K
7200 min Winter	63.026	0.026	0.0	0.1	0.1	0.3	0 K
8640 min Winter	63.024	0.024	0.0	0.1	0.1	0.3	0 K
10080 min Winter	63.022	0.022	0.0	0.1	0.1	0.2	0 K

Storm Event	Rain (mm/hr)	Time-Peak (mins)
240 min Winter	16.674	166
360 min Winter	12.359	234
480 min Winter	9.980	298
600 min Winter	8.449	362
720 min Winter	7.371	424
960 min Winter	5.939	546
1440 min Winter	4.374	782
2160 min Winter	3.217	1132
2880 min Winter	2.585	1480
4320 min Winter	1.896	2192
5760 min Winter	1.521	2888
7200 min Winter	1.282	3600
8640 min Winter	1.116	4376
10080 min Winter	0.992	5136

Dixon Hurst Kemp		Page 3
Victoria Court 22 St Pancras West Sussex PO19 7GD	Twinham 34 Hurst Road Hass... Surface Water Drainage Attenuation Tank Design	
Date July 25	Designed by JS	
File ATTENUATION TANK.SRCX	Checked by	
Elstree Computing Ltd	Source Control w.12.6	

Rainfall Details

Rainfall Model	FSR	Winter Storms	Yes
Return Period (years)	30	Cv (Summer)	0.750
Region	England and Wales	Cv (Winter)	0.840
M5-60 (mm)	20.000	Shortest Storm (mins)	15
Ratio R	0.347	Longest Storm (mins)	10080
Summer Storms	Yes	Climate Change %	+45

Time / Area Diagram

Total Area (ha) 0.016

Time (mins)	Area (ha)	Time (mins)	Area (ha)	Time (mins)	Area (ha)
0-4	0.005	4-8	0.005	8-12	0.005

Dixon Hurst Kemp		Page 4
Victoria Court 22 St Pancras West Sussex PO19 7GD	Twinham 34 Hurst Road Hass... Surface Water Drainage Attenuation Tank Design	
Date July 25	Designed by JS	
File ATTENUATION TANK.SRCX	Checked by	
Elstree Computing Ltd	Source Control w.12.6	

Model Details

Storage is Online Cover Level (m) 64.100

Cellular Storage Structure

Invert Level (m) 63.000 Safety Factor 2.0
Infiltration Coefficient Base (m/hr) 0.00000 Porosity 0.95
Infiltration Coefficient Side (m/hr) 0.00000

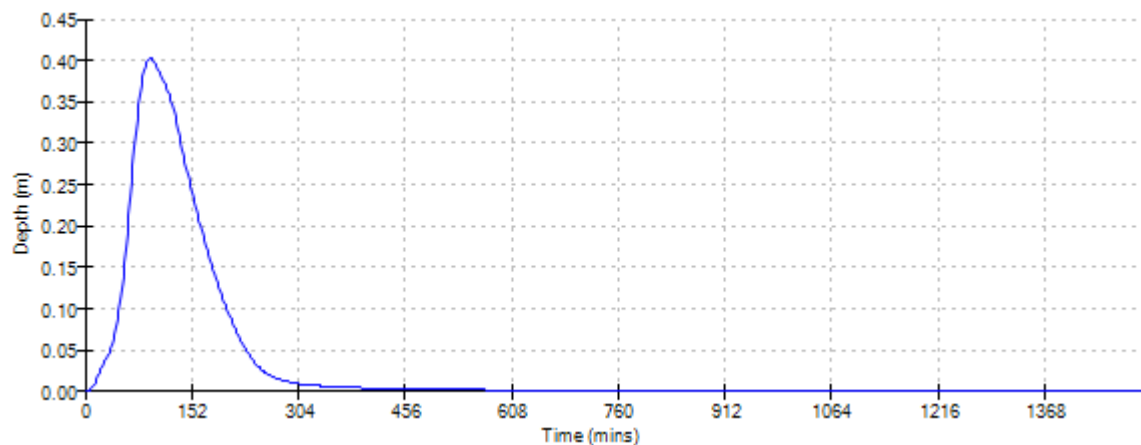
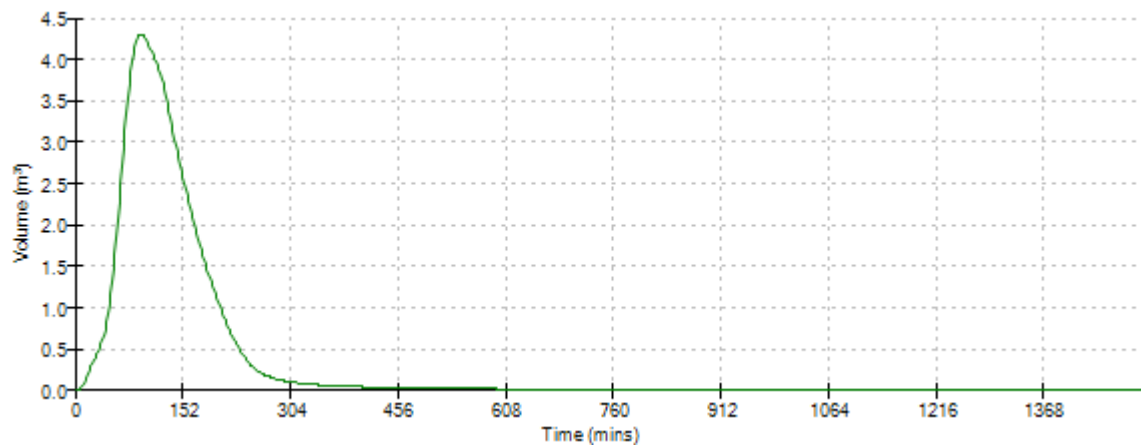
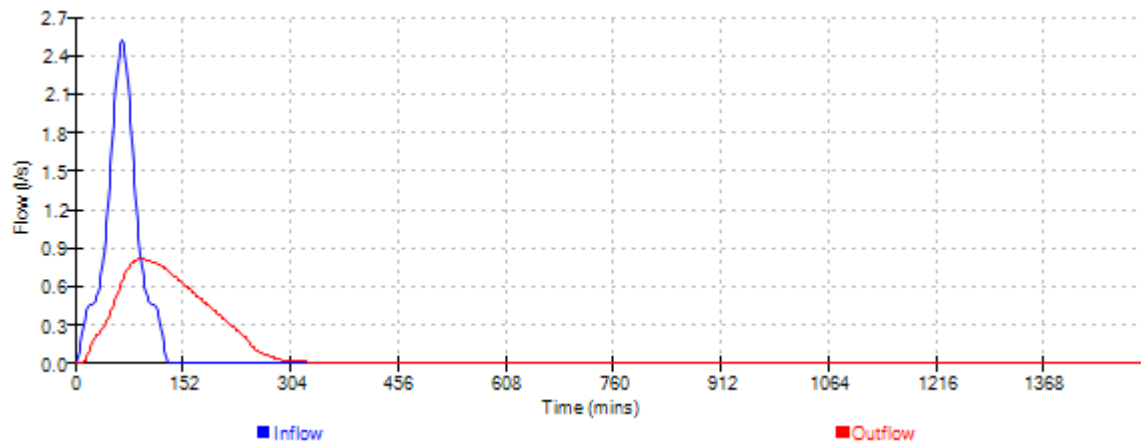
Depth (m)	Area (m ²)	Inf. Area (m ²)	Depth (m)	Area (m ²)	Inf. Area (m ²)
0.000	11.3	11.3	0.700	0.0	22.1
0.600	11.3	22.1			

orifice Outflow Control

Diameter (m) 0.025 Discharge Coefficient 0.600 Invert Level (m) 63.000

Dixon Hurst Kemp		Page 5
Victoria Court 22 St Pancras West Sussex PO19 7GD	Twinham 34 Hurst Road Hass...	
	Surface Water Drainage Attenuation Tank Design	
	Designed by JS	
Date July 25	Checked by	
File ATTENUATION TANK.SRCX	Source Control w.12.6	
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Event: 120 min Winter



Dixon Hurst Kemp		Twinham 34 Hurst Road Hass...		Page 1			
Victoria Court		Surface Water Drainage					
22 St Pancras		Attenuation Tank Design					
West Sussex PO19 7GD		Designed by JS					
Date July 25		Checked by					
File ATTENUATION TANK.SRCX		Source Control w.12.6					
Elstree Computing Ltd							
Summary of Results for 100 year Return Period (+45%)							
Half Drain Time : 65 minutes.							
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Control (l/s)	Max Σ Outflow (l/s)	Max Volume (m³)	Status
15 min Summer	63.326	0.326	0.0	0.7	0.7	3.5	0 K
30 min Summer	63.416	0.416	0.0	0.8	0.8	4.5	0 K
60 min Summer	63.474	0.474	0.0	0.9	0.9	5.1	0 K
120 min Summer	63.494	0.494	0.0	0.9	0.9	5.3	0 K
180 min Summer	63.480	0.480	0.0	0.9	0.9	5.1	0 K
240 min Summer	63.458	0.458	0.0	0.9	0.9	4.9	0 K
360 min Summer	63.413	0.413	0.0	0.8	0.8	4.4	0 K
480 min Summer	63.372	0.372	0.0	0.8	0.8	4.0	0 K
600 min Summer	63.337	0.337	0.0	0.7	0.7	3.6	0 K
720 min Summer	63.307	0.307	0.0	0.7	0.7	3.3	0 K
960 min Summer	63.257	0.257	0.0	0.6	0.6	2.8	0 K
1440 min Summer	63.190	0.190	0.0	0.5	0.5	2.0	0 K
2160 min Summer	63.131	0.131	0.0	0.4	0.4	1.4	0 K
2880 min Summer	63.097	0.097	0.0	0.4	0.4	1.0	0 K
4320 min Summer	63.063	0.063	0.0	0.3	0.3	0.7	0 K
5760 min Summer	63.046	0.046	0.0	0.2	0.2	0.5	0 K
7200 min Summer	63.037	0.037	0.0	0.2	0.2	0.4	0 K
8640 min Summer	63.033	0.033	0.0	0.2	0.2	0.3	0 K
10080 min Summer	63.030	0.030	0.0	0.2	0.2	0.3	0 K
15 min Winter	63.368	0.368	0.0	0.8	0.8	3.9	0 K
30 min Winter	63.471	0.471	0.0	0.9	0.9	5.0	0 K
60 min Winter	63.540	0.540	0.0	0.9	0.9	5.8	0 K
120 min Winter	63.554	0.554	0.0	1.0	1.0	5.9	0 K
180 min Winter	63.529	0.529	0.0	0.9	0.9	5.7	0 K
Storm Event			Rain (mm/hr)	Time-Peak (mins)			
15 min Summer			136.149	23			
30 min Summer			91.587	34			
60 min Summer			58.739	54			
120 min Summer			36.305	88			
180 min Summer			26.955	122			
240 min Summer			21.679	156			
360 min Summer			15.967	224			
480 min Summer			12.831	288			
600 min Summer			10.820	352			
720 min Summer			9.407	414			
960 min Summer			7.537	536			
1440 min Summer			5.504	778			
2160 min Summer			4.010	1132			
2880 min Summer			3.199	1496			
4320 min Summer			2.322	2208			
5760 min Summer			1.848	2936			
7200 min Summer			1.549	3672			
8640 min Summer			1.341	4384			
10080 min Summer			1.188	5040			
15 min Winter			136.149	23			
30 min Winter			91.587	34			
60 min Winter			58.739	58			
120 min Winter			36.305	94			
180 min Winter			26.955	132			
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Dixon Hurst Kemp		Page 2
Victoria Court 22 St Pancras West Sussex PO19 7GD	Twinham 34 Hurst Road Hass... Surface Water Drainage Attenuation Tank Design	
Date July 25	Designed by JS	
File ATTENUATION TANK.SRCX	Checked by	
Elstree Computing Ltd	Source Control w.12.6	

Summary of Results for 100 year Return Period (+45%)

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Control (l/s)	Max Σ Outflow (l/s)	Max Volume (m³)	Status
240 min Winter	63.493	0.493	0.0	0.9	0.9	5.3	0 K
360 min Winter	63.426	0.426	0.0	0.8	0.8	4.6	0 K
480 min Winter	63.368	0.368	0.0	0.8	0.8	3.9	0 K
600 min Winter	63.320	0.320	0.0	0.7	0.7	3.4	0 K
720 min Winter	63.280	0.280	0.0	0.7	0.7	3.0	0 K
960 min Winter	63.219	0.219	0.0	0.6	0.6	2.3	0 K
1440 min Winter	63.145	0.145	0.0	0.5	0.5	1.6	0 K
2160 min Winter	63.091	0.091	0.0	0.4	0.4	1.0	0 K
2880 min Winter	63.064	0.064	0.0	0.3	0.3	0.7	0 K
4320 min Winter	63.041	0.041	0.0	0.2	0.2	0.4	0 K
5760 min Winter	63.033	0.033	0.0	0.2	0.2	0.3	0 K
7200 min Winter	63.029	0.029	0.0	0.1	0.1	0.3	0 K
8640 min Winter	63.026	0.026	0.0	0.1	0.1	0.3	0 K
10080 min Winter	63.025	0.025	0.0	0.1	0.1	0.3	0 K

Storm Event	Rain (mm/hr)	Time-Peak (mins)
240 min Winter	21.679	168
360 min Winter	15.967	238
480 min Winter	12.831	304
600 min Winter	10.820	368
720 min Winter	9.407	432
960 min Winter	7.537	554
1440 min Winter	5.504	792
2160 min Winter	4.010	1148
2880 min Winter	3.199	1500
4320 min Winter	2.322	2200
5760 min Winter	1.848	2928
7200 min Winter	1.549	3664
8640 min Winter	1.341	4408
10080 min Winter	1.188	5104

Dixon Hurst Kemp		Page 3
Victoria Court 22 St Pancras West Sussex PO19 7GD	Twinham 34 Hurst Road Hass... Surface Water Drainage Attenuation Tank Design	
Date July 25	Designed by JS	
File ATTENUATION TANK.SRCX	Checked by	
Elstree Computing Ltd	Source Control w.12.6	

Rainfall Details

Rainfall Model	FSR	Winter Storms	Yes
Return Period (years)	100	Cv (Summer)	0.750
Region	England and Wales	Cv (Winter)	0.840
M5-60 (mm)	20.000	Shortest Storm (mins)	15
Ratio R	0.347	Longest Storm (mins)	10080
Summer Storms	Yes	Climate Change %	+45

Time / Area Diagram

Total Area (ha) 0.016

Time (mins)	Area (ha)	Time (mins)	Area (ha)	Time (mins)	Area (ha)
0-4	0.005	4-8	0.005	8-12	0.005

Dixon Hurst Kemp		Page 4
Victoria Court 22 St Pancras West Sussex PO19 7GD	Twinham 34 Hurst Road Hass... Surface Water Drainage Attenuation Tank Design	
Date July 25	Designed by JS	
File ATTENUATION TANK.SRCX	Checked by	
Elstree Computing Ltd	Source Control w.12.6	

Model Details

Storage is Online Cover Level (m) 64.100

Cellular Storage Structure

Invert Level (m) 63.000 Safety Factor 2.0
Infiltration Coefficient Base (m/hr) 0.00000 Porosity 0.95
Infiltration Coefficient Side (m/hr) 0.00000

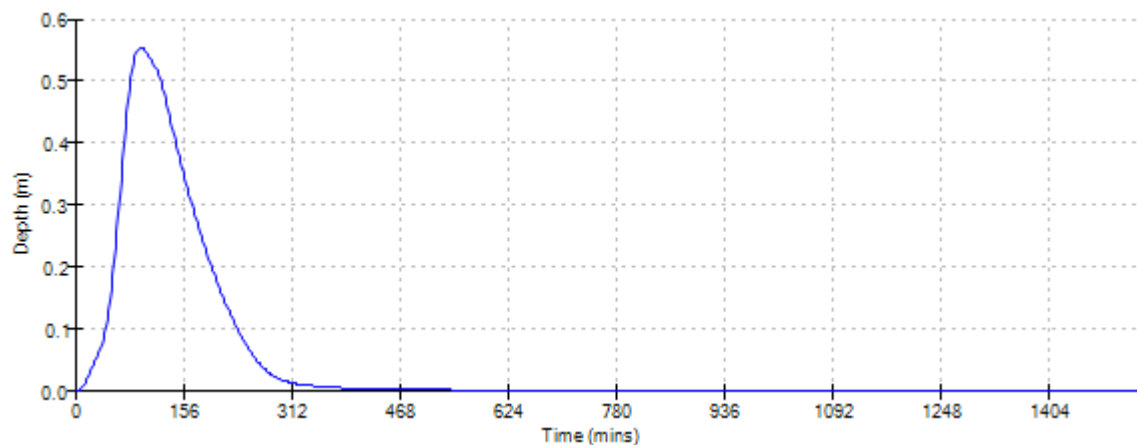
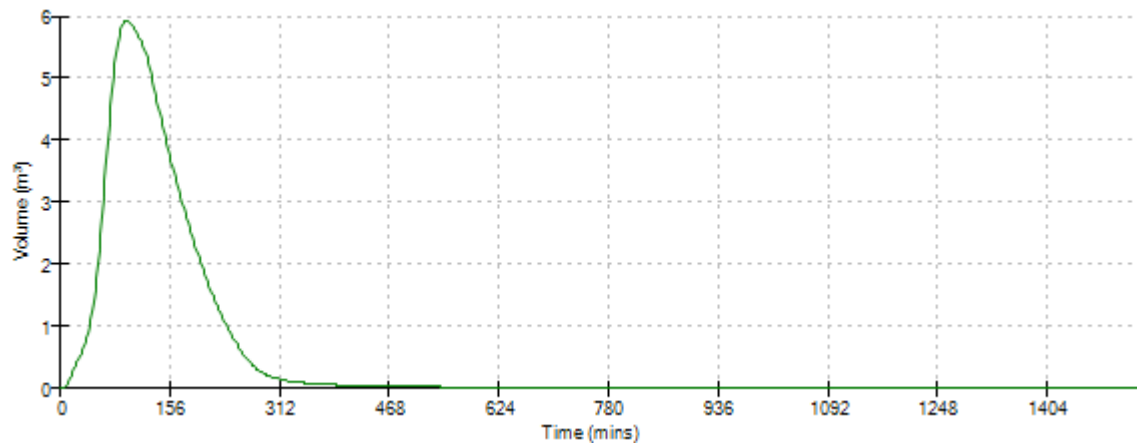
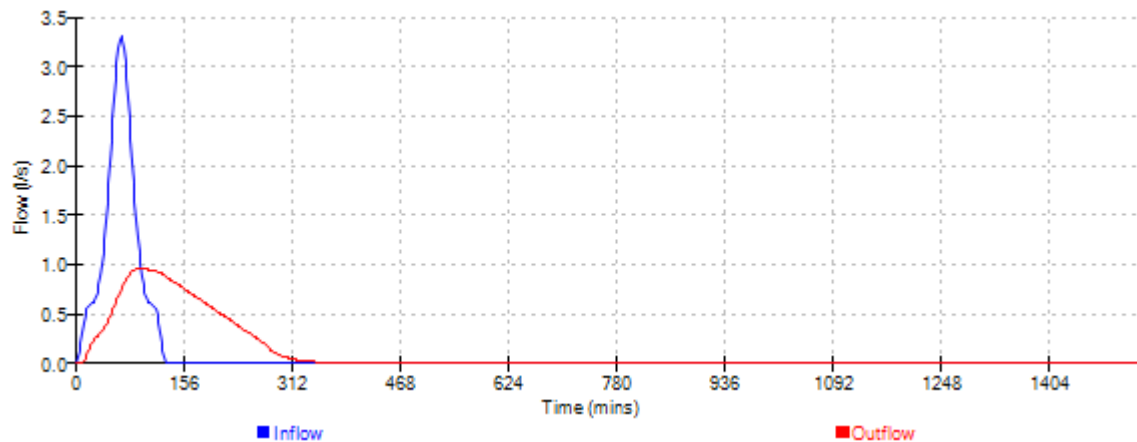
Depth (m)	Area (m ²)	Inf. Area (m ²)	Depth (m)	Area (m ²)	Inf. Area (m ²)
0.000	11.3	11.3	0.700	0.0	22.1
0.600	11.3	22.1			

orifice Outflow Control

Diameter (m) 0.025 Discharge Coefficient 0.600 Invert Level (m) 63.000

Dixon Hurst Kemp		Page 5
Victoria Court 22 St Pancras West Sussex PO19 7GD	Twinham 34 Hurst Road Hass...	
	Surface Water Drainage Attenuation Tank Design	
Date July 25	Designed by JS	
File ATTENUATION TANK.SRCX	Checked by	
Elstree Computing Ltd	Source Control w.12.6	

Event: 120 min Winter



Dixon Hurst Kemp			Page 1		
Victoria Court 22 St Pancras West Sussex PO19 7GD		Twinham 34 Hurst Road Hass... Surface Water Drainage Trench Soakaway Design Rev01			
Date July 25		Designed by JS			
File TRENCH DESIGN 1 IN 10...		Checked by			
Elstree Computing Ltd		Source Control w.12.6			
Summary of Results for 1 year Return Period (+45%)					
Half Drain Time : 64 minutes.					
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
15 min Summer	62.681	0.081	0.0	0.1	0 K
30 min Summer	62.701	0.101	0.0	0.2	0 K
60 min Summer	62.717	0.117	0.0	0.2	0 K
120 min Summer	62.726	0.126	0.0	0.2	0 K
180 min Summer	62.727	0.127	0.0	0.2	0 K
240 min Summer	62.724	0.124	0.0	0.2	0 K
360 min Summer	62.716	0.116	0.0	0.2	0 K
480 min Summer	62.707	0.107	0.0	0.2	0 K
600 min Summer	62.698	0.098	0.0	0.2	0 K
720 min Summer	62.690	0.090	0.0	0.2	0 K
960 min Summer	62.675	0.075	0.0	0.1	0 K
1440 min Summer	62.655	0.055	0.0	0.1	0 K
2160 min Summer	62.643	0.043	0.0	0.1	0 K
2880 min Summer	62.637	0.037	0.0	0.1	0 K
4320 min Summer	62.629	0.029	0.0	0.0	0 K
5760 min Summer	62.624	0.024	0.0	0.0	0 K
7200 min Summer	62.621	0.021	0.0	0.0	0 K
8640 min Summer	62.619	0.019	0.0	0.0	0 K
10080 min Summer	62.617	0.017	0.0	0.0	0 K
15 min Winter	62.691	0.091	0.0	0.2	0 K
30 min Winter	62.714	0.114	0.0	0.2	0 K
60 min Winter	62.733	0.133	0.0	0.2	0 K
120 min Winter	62.741	0.141	0.0	0.2	0 K
180 min Winter	62.740	0.140	0.0	0.2	0 K
Storm Event	Rain (mm/hr)		Time-Peak (mins)		
15 min Summer	42.867		22		
30 min Summer	28.558		34		
60 min Summer	18.560		56		
120 min Summer	11.847		90		
180 min Summer	9.076		126		
240 min Summer	7.499		160		
360 min Summer	5.677		228		
480 min Summer	4.658		294		
600 min Summer	3.996		358		
720 min Summer	3.526		420		
960 min Summer	2.895		540		
1440 min Summer	2.194		768		
2160 min Summer	1.659		1124		
2880 min Summer	1.362		1476		
4320 min Summer	1.032		2208		
5760 min Summer	0.848		2936		
7200 min Summer	0.726		3664		
8640 min Summer	0.639		4344		
10080 min Summer	0.574		5136		
15 min Winter	42.867		23		
30 min Winter	28.558		35		
60 min Winter	18.560		60		
120 min Winter	11.847		98		
180 min Winter	9.076		136		
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Dixon Hurst Kemp		Page 2
Victoria Court 22 St Pancras West Sussex PO19 7GD	Twinham 34 Hurst Road Hass... Surface Water Drainage Trench Soakaway Design Rev01	
Date July 25	Designed by JS	
File TRENCH DESIGN 1 IN 10...	Checked by	
Elstree Computing Ltd	Source Control w.12.6	

Summary of Results for 1 year Return Period (+45%)

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
240 min Winter	62.736	0.136	0.0	0.2	OK
360 min Winter	62.721	0.121	0.0	0.2	OK
480 min Winter	62.705	0.105	0.0	0.2	OK
600 min Winter	62.691	0.091	0.0	0.2	OK
720 min Winter	62.679	0.079	0.0	0.1	OK
960 min Winter	62.659	0.059	0.0	0.1	OK
1440 min Winter	62.644	0.044	0.0	0.1	OK
2160 min Winter	62.634	0.034	0.0	0.0	OK
2880 min Winter	62.628	0.028	0.0	0.0	OK
4320 min Winter	62.622	0.022	0.0	0.0	OK
5760 min Winter	62.618	0.018	0.0	0.0	OK
7200 min Winter	62.616	0.016	0.0	0.0	OK
8640 min Winter	62.614	0.014	0.0	0.0	OK
10080 min Winter	62.612	0.012	0.0	0.0	OK

Storm Event	Rain (mm/hr)	Time-Peak (mins)
240 min Winter	7.499	172
360 min Winter	5.677	244
480 min Winter	4.658	312
600 min Winter	3.996	376
720 min Winter	3.526	438
960 min Winter	2.895	550
1440 min Winter	2.194	766
2160 min Winter	1.659	1128
2880 min Winter	1.362	1492
4320 min Winter	1.032	2176
5760 min Winter	0.848	2936
7200 min Winter	0.726	3736
8640 min Winter	0.639	4344
10080 min Winter	0.574	5152

Dixon Hurst Kemp		Page 3
Victoria Court 22 St Pancras West Sussex PO19 7GD	Twinham 34 Hurst Road Hass... Surface Water Drainage Trench Soakaway Design Rev01	
Date July 25	Designed by JS	
File TRENCH DESIGN 1 IN 10...	Checked by	
Elstree Computing Ltd	Source Control w.12.6	

Rainfall Details

Rainfall Model	FSR	Winter Storms	Yes
Return Period (years)	1	Cv (Summer)	0.750
Region	England and Wales	Cv (Winter)	0.840
M5-60 (mm)	20.000	Shortest Storm (mins)	15
Ratio R	0.347	Longest Storm (mins)	10080
Summer Storms	Yes	Climate Change %	+45

Time / Area Diagram

Total Area (ha) 0.002

Time (mins)	Area (ha)	Time (mins)	Area (ha)	Time (mins)	Area (ha)
0-4	0.001	4-8	0.001	8-12	0.001

Dixon Hurst Kemp		Page 4
Victoria Court 22 St Pancras West Sussex PO19 7GD	Twinham 34 Hurst Road Hass... Surface Water Drainage Trench Soakaway Design Rev01	
Date July 25	Designed by JS	
File TRENCH DESIGN 1 IN 10...	Checked by	
Elstree Computing Ltd	Source Control w.12.6	

Model Details

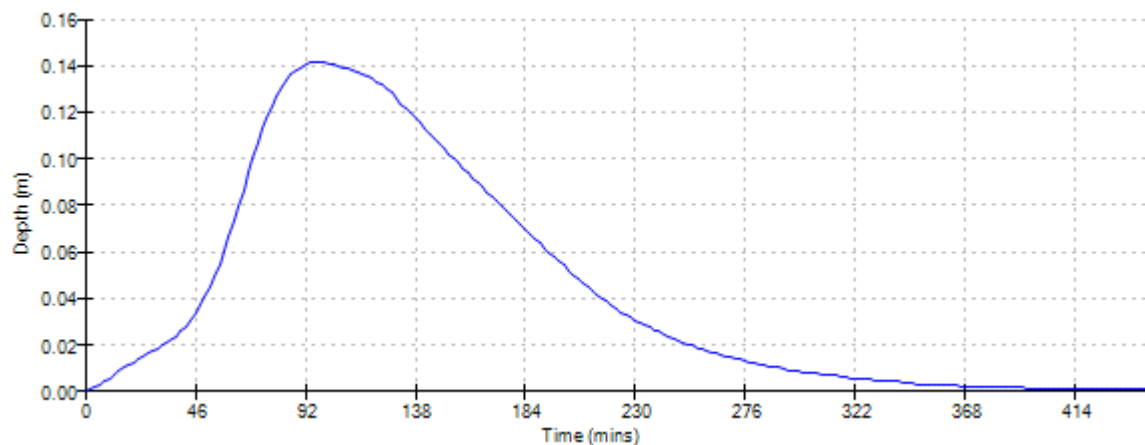
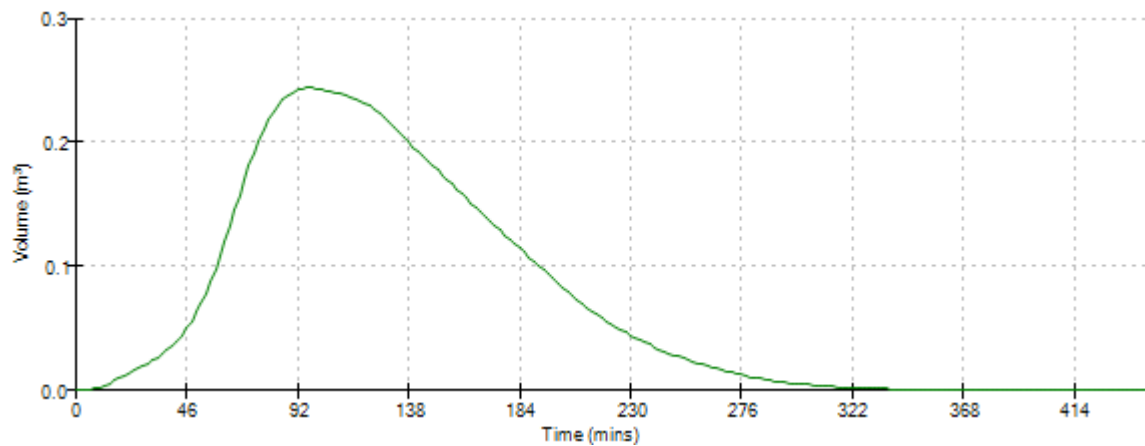
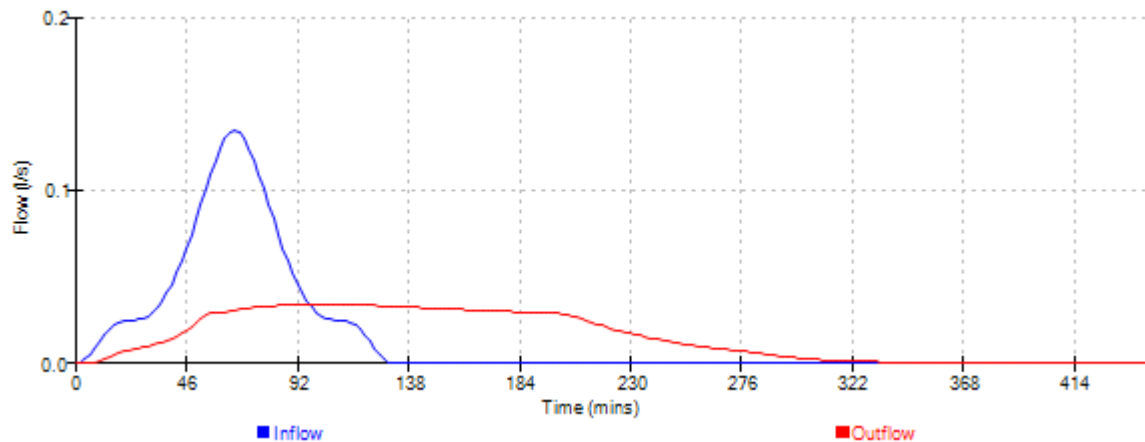
Storage is Online Cover Level (m) 63.800

Trench Soakaway Structure

Infiltration Coefficient Base (m/hr)	0.03100	Trench Width (m)	1.0
Infiltration Coefficient Side (m/hr)	0.03100	Trench Length (m)	6.0
Safety Factor	2.0	Slope (1:X)	500.0
Porosity	0.30	Cap Volume Depth (m)	0.000
Invert Level (m)	62.600	Cap Infiltration Depth (m)	0.000

Dixon Hurst Kemp		Page 5
Victoria Court 22 St Pancras West Sussex PO19 7GD	Twinham 34 Hurst Road Hass...	
	Surface Water Drainage Trench Soakaway Design Rev01	
Date July 25	Designed by JS	
File TRENCH DESIGN 1 IN 10...	Checked by	
Elstree Computing Ltd	Source Control w.12.6	

Event: 120 min Winter



Dixon Hurst Kemp			Page 1			
Victoria Court 22 St Pancras West Sussex PO19 7GD		Twinham 34 Hurst Road Hass... Surface Water Drainage Trench Soakaway Design Rev01				
Date July 25		Designed by JS				
File TRENCH DESIGN 1 IN 10...		Checked by				
Elstree Computing Ltd		Source Control W.12.6				
<u>Summary of Results for 30 year Return Period (+45%)</u>						
Half Drain Time : 141 minutes.						
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status	
15 min Summer	62.804	0.204	0.0	0.4	O K	
30 min Summer	62.862	0.262	0.0	0.5	O K	
60 min Summer	62.912	0.312	0.0	0.6	O K	
120 min Summer	62.938	0.338	0.0	0.6	O K	
180 min Summer	62.940	0.340	0.0	0.6	O K	
240 min Summer	62.937	0.337	0.0	0.6	O K	
360 min Summer	62.925	0.325	0.0	0.6	O K	
480 min Summer	62.910	0.310	0.0	0.5	O K	
600 min Summer	62.894	0.294	0.0	0.5	O K	
720 min Summer	62.879	0.279	0.0	0.5	O K	
960 min Summer	62.850	0.250	0.0	0.4	O K	
1440 min Summer	62.800	0.200	0.0	0.3	O K	
2160 min Summer	62.742	0.142	0.0	0.2	O K	
2880 min Summer	62.701	0.101	0.0	0.2	O K	
4320 min Summer	62.654	0.054	0.0	0.1	O K	
5760 min Summer	62.643	0.043	0.0	0.1	O K	
7200 min Summer	62.637	0.037	0.0	0.1	O K	
8640 min Summer	62.632	0.032	0.0	0.0	O K	
10080 min Summer	62.629	0.029	0.0	0.0	O K	
15 min Winter	62.829	0.229	0.0	0.4	O K	
30 min Winter	62.896	0.296	0.0	0.5	O K	
60 min Winter	62.954	0.354	0.0	0.6	O K	
120 min Winter	62.987	0.387	0.0	0.7	O K	
180 min Winter	62.989	0.389	0.0	0.7	O K	
Storm Event	Rain (mm/hr)		Time-Peak (mins)			
15 min Summer	105.082		24			
30 min Summer	70.021		37			
60 min Summer	44.676		64			
120 min Summer	27.642		110			
180 min Summer	20.622		140			
240 min Summer	16.674		174			
360 min Summer	12.359		244			
480 min Summer	9.980		312			
600 min Summer	8.449		382			
720 min Summer	7.371		448			
960 min Summer	5.939		580			
1440 min Summer	4.374		836			
2160 min Summer	3.217		1200			
2880 min Summer	2.585		1560			
4320 min Summer	1.896		2212			
5760 min Summer	1.521		2936			
7200 min Summer	1.282		3672			
8640 min Summer	1.116		4384			
10080 min Summer	0.992		5088			
15 min Winter	105.082		24			
30 min Winter	70.021		37			
60 min Winter	44.676		64			
120 min Winter	27.642		118			
180 min Winter	20.622		148			
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Dixon Hurst Kemp		Page 2
Victoria Court 22 St Pancras West Sussex PO19 7GD	Twinham 34 Hurst Road Hass... Surface Water Drainage Trench Soakaway Design Rev01	
Date July 25	Designed by JS	
File TRENCH DESIGN 1 IN 10...	Checked by	
Elstree Computing Ltd	Source Control w.12.6	

Summary of Results for 30 year Return Period (+45%)

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
240 min Winter	62.983	0.383	0.0	0.7	0 K
360 min Winter	62.964	0.364	0.0	0.6	0 K
480 min Winter	62.940	0.340	0.0	0.6	0 K
600 min Winter	62.916	0.316	0.0	0.6	0 K
720 min Winter	62.893	0.293	0.0	0.5	0 K
960 min Winter	62.850	0.250	0.0	0.4	0 K
1440 min Winter	62.779	0.179	0.0	0.3	0 K
2160 min Winter	62.703	0.103	0.0	0.2	0 K
2880 min Winter	62.657	0.057	0.0	0.1	0 K
4320 min Winter	62.639	0.039	0.0	0.1	0 K
5760 min Winter	62.632	0.032	0.0	0.0	0 K
7200 min Winter	62.627	0.027	0.0	0.0	0 K
8640 min Winter	62.624	0.024	0.0	0.0	0 K
10080 min Winter	62.621	0.021	0.0	0.0	0 K

Storm Event	Rain (mm/hr)	Time-Peak (mins)
240 min Winter	16.674	186
360 min Winter	12.359	264
480 min Winter	9.980	338
600 min Winter	8.449	410
720 min Winter	7.371	480
960 min Winter	5.939	618
1440 min Winter	4.374	878
2160 min Winter	3.217	1236
2880 min Winter	2.585	1536
4320 min Winter	1.896	2208
5760 min Winter	1.521	2936
7200 min Winter	1.282	3672
8640 min Winter	1.116	4376
10080 min Winter	0.992	5144

Dixon Hurst Kemp		Page 3
Victoria Court 22 St Pancras West Sussex PO19 7GD Date July 25 File TRENCH DESIGN 1 IN 10...	Twinham 34 Hurst Road Hass... Surface Water Drainage Trench Soakaway Design Rev01 Designed by JS Checked by	
Elstree Computing Ltd	Source Control w.12.6	

Rainfall Details

Rainfall Model	FSR	Winter Storms	Yes
Return Period (years)	30	Cv (Summer)	0.750
Region	England and Wales	Cv (Winter)	0.840
M5-60 (mm)	20.000	Shortest Storm (mins)	15
Ratio R	0.347	Longest Storm (mins)	10080
Summer Storms	Yes	Climate Change %	+45

Time / Area Diagram

Total Area (ha) 0.002

Time (mins)	Area (ha)	Time (mins)	Area (ha)	Time (mins)	Area (ha)
0-4	0.001	4-8	0.001	8-12	0.001

Dixon Hurst Kemp		Page 4
Victoria Court 22 St Pancras West Sussex PO19 7GD	Twinham 34 Hurst Road Hass... Surface Water Drainage Trench Soakaway Design Rev01	
Date July 25	Designed by JS	
File TRENCH DESIGN 1 IN 10...	Checked by	
Elstree Computing Ltd	Source Control w.12.6	

Model Details

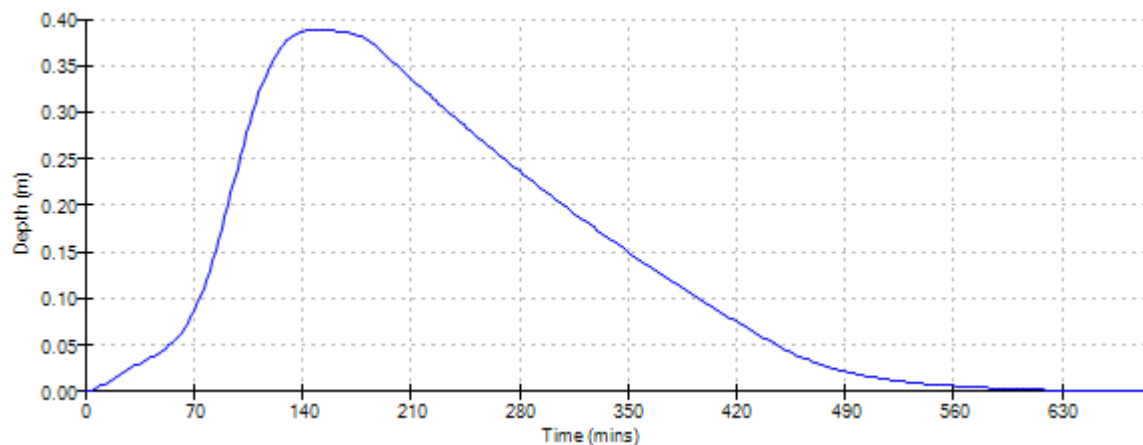
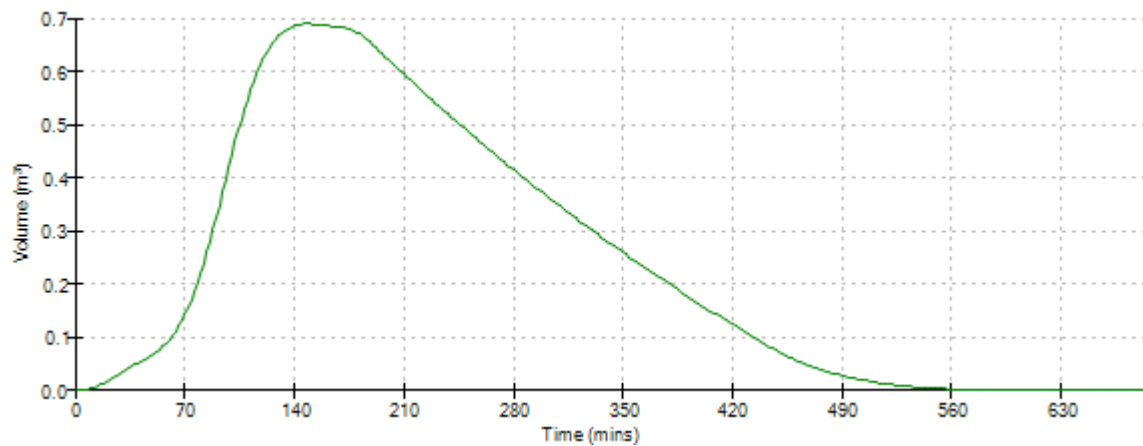
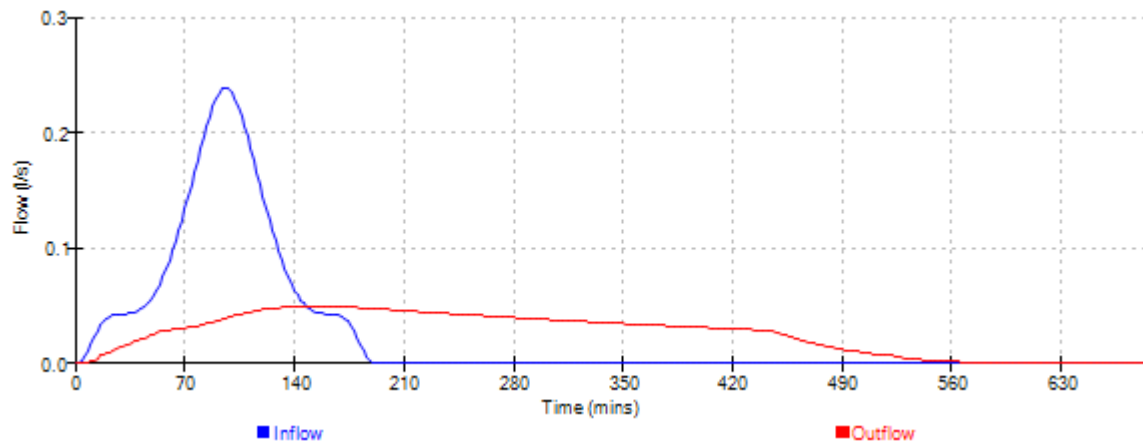
Storage is Online Cover Level (m) 63.800

Trench Soakaway Structure

Infiltration Coefficient Base (m/hr)	0.03100	Trench Width (m)	1.0
Infiltration Coefficient Side (m/hr)	0.03100	Trench Length (m)	6.0
Safety Factor	2.0	Slope (1:X)	500.0
Porosity	0.30	Cap Volume Depth (m)	0.000
Invert Level (m)	62.600	Cap Infiltration Depth (m)	0.000

Dixon Hurst Kemp		Page 5
Victoria Court 22 St Pancras West Sussex PO19 7GD	Twinham 34 Hurst Road Hass... Surface Water Drainage Trench Soakaway Design Rev01	
Date July 25	Designed by JS	
File TRENCH DESIGN 1 IN 10...	Checked by	
Elstree Computing Ltd	Source Control w.12.6	

Event: 180 min Winter



Dixon Hurst Kemp		Page 1			
Victoria Court 22 St Pancras West Sussex PO19 7GD	Twinham 34 Hurst Road Hass... Surface Water Drainage Trench Soakaway Design Rev01				
Date July 25	Designed by JS				
File TRENCH DESIGN 1 IN 10...	Checked by				
Elstree Computing Ltd	Source Control w.12.6				
Summary of Results for 100 year Return Period (+45%)					
Half Drain Time : 169 minutes.					
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
15 min Summer	62.866	0.266	0.0	0.5	0 K
30 min Summer	62.948	0.348	0.0	0.6	0 K
60 min Summer	63.019	0.419	0.1	0.7	0 K
120 min Summer	63.061	0.461	0.1	0.8	0 K
180 min Summer	63.065	0.465	0.1	0.8	0 K
240 min Summer	63.060	0.460	0.1	0.8	0 K
360 min Summer	63.046	0.446	0.1	0.8	0 K
480 min Summer	63.027	0.427	0.1	0.8	0 K
600 min Summer	63.008	0.408	0.1	0.7	0 K
720 min Summer	62.989	0.389	0.0	0.7	0 K
960 min Summer	62.954	0.354	0.0	0.6	0 K
1440 min Summer	62.892	0.292	0.0	0.5	0 K
2160 min Summer	62.819	0.219	0.0	0.4	0 K
2880 min Summer	62.764	0.164	0.0	0.3	0 K
4320 min Summer	62.691	0.091	0.0	0.2	0 K
5760 min Summer	62.654	0.054	0.0	0.1	0 K
7200 min Summer	62.644	0.044	0.0	0.1	0 K
8640 min Summer	62.638	0.038	0.0	0.1	0 K
10080 min Summer	62.634	0.034	0.0	0.1	0 K
15 min Winter	62.899	0.299	0.0	0.5	0 K
30 min Winter	62.992	0.392	0.0	0.7	0 K
60 min Winter	63.075	0.475	0.1	0.8	0 K
120 min Winter	63.128	0.528	0.1	0.9	0 K
180 min Winter	63.131	0.531	0.1	0.9	0 K
Storm Event	Rain (mm/hr)	Time-Peak (mins)			
15 min Summer	136.149	25			
30 min Summer	91.587	38			
60 min Summer	58.739	64			
120 min Summer	36.305	118			
180 min Summer	26.955	148			
240 min Summer	21.679	180			
360 min Summer	15.967	248			
480 min Summer	12.831	318			
600 min Summer	10.820	386			
720 min Summer	9.407	456			
960 min Summer	7.537	588			
1440 min Summer	5.504	848			
2160 min Summer	4.010	1220			
2880 min Summer	3.199	1588			
4320 min Summer	2.322	2292			
5760 min Summer	1.848	2944			
7200 min Summer	1.549	3672			
8640 min Summer	1.341	4408			
10080 min Summer	1.188	5136			
15 min Winter	136.149	25			
30 min Winter	91.587	38			
60 min Winter	58.739	64			
120 min Winter	36.305	118			
180 min Winter	26.955	154			
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Dixon Hurst Kemp		Page 2
Victoria Court 22 St Pancras West Sussex PO19 7GD	Twinham 34 Hurst Road Hass... Surface Water Drainage Trench Soakaway Design Rev01	
Date July 25	Designed by JS	
File TRENCH DESIGN 1 IN 10...	Checked by	
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Summary of Results for 100 year Return Period (+45%)

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
240 min Winter	63.125	0.525	0.1	0.9	0 K
360 min Winter	63.104	0.504	0.1	0.9	0 K
480 min Winter	63.076	0.476	0.1	0.8	0 K
600 min Winter	63.047	0.447	0.1	0.8	0 K
720 min Winter	63.019	0.419	0.1	0.7	0 K
960 min Winter	62.967	0.367	0.0	0.6	0 K
1440 min Winter	62.879	0.279	0.0	0.5	0 K
2160 min Winter	62.782	0.182	0.0	0.3	0 K
2880 min Winter	62.713	0.113	0.0	0.2	0 K
4320 min Winter	62.648	0.048	0.0	0.1	0 K
5760 min Winter	62.638	0.038	0.0	0.1	0 K
7200 min Winter	62.632	0.032	0.0	0.0	0 K
8640 min Winter	62.628	0.028	0.0	0.0	0 K
10080 min Winter	62.625	0.025	0.0	0.0	0 K

Storm Event	Rain (mm/hr)	Time-Peak (mins)
240 min Winter	21.679	190
360 min Winter	15.967	268
480 min Winter	12.831	342
600 min Winter	10.820	416
720 min Winter	9.407	488
960 min Winter	7.537	628
1440 min Winter	5.504	896
2160 min Winter	4.010	1276
2880 min Winter	3.199	1624
4320 min Winter	2.322	2212
5760 min Winter	1.848	2944
7200 min Winter	1.549	3672
8640 min Winter	1.341	4352
10080 min Winter	1.188	5128

Dixon Hurst Kemp		Page 3
Victoria Court 22 St Pancras West Sussex PO19 7GD	Twinham 34 Hurst Road Hass... Surface Water Drainage Trench Soakaway Design Rev01	
Date July 25	Designed by JS	
File TRENCH DESIGN 1 IN 10...	Checked by	
Elstree Computing Ltd	Source Control w.12.6	

Rainfall Details

Rainfall Model	FSR	Winter Storms	Yes
Return Period (years)	100	Cv (Summer)	0.750
Region	England and Wales	Cv (Winter)	0.840
M5-60 (mm)	20.000	Shortest Storm (mins)	15
Ratio R	0.347	Longest Storm (mins)	10080
Summer Storms	Yes	Climate Change %	+45

Time / Area Diagram

Total Area (ha) 0.002

Time (mins)	Area (ha)	Time (mins)	Area (ha)	Time (mins)	Area (ha)
0-4	0.001	4-8	0.001	8-12	0.001

Dixon Hurst Kemp		Page 4
Victoria Court 22 St Pancras West Sussex PO19 7GD	Twinham 34 Hurst Road Hass... Surface Water Drainage Trench Soakaway Design Rev01	
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Elstree Computing Ltd	Source Control w.12.6	

Model Details

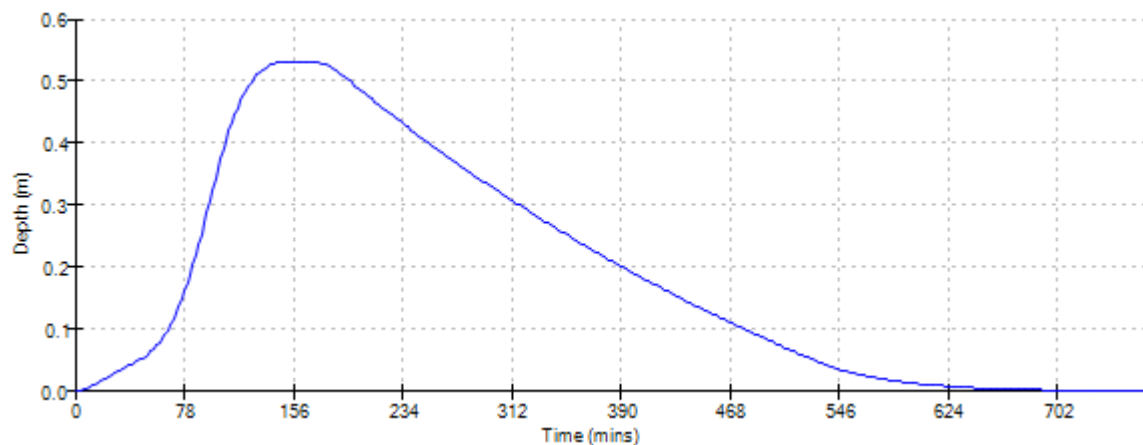
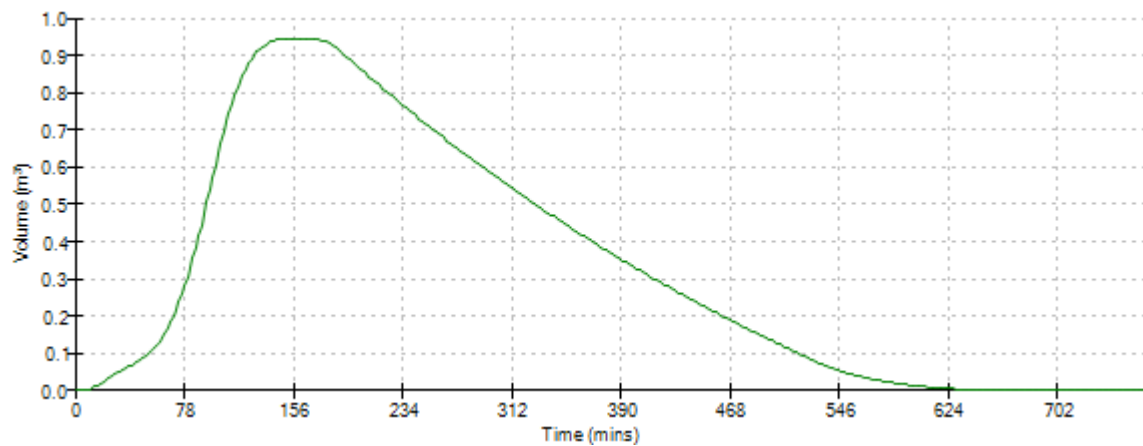
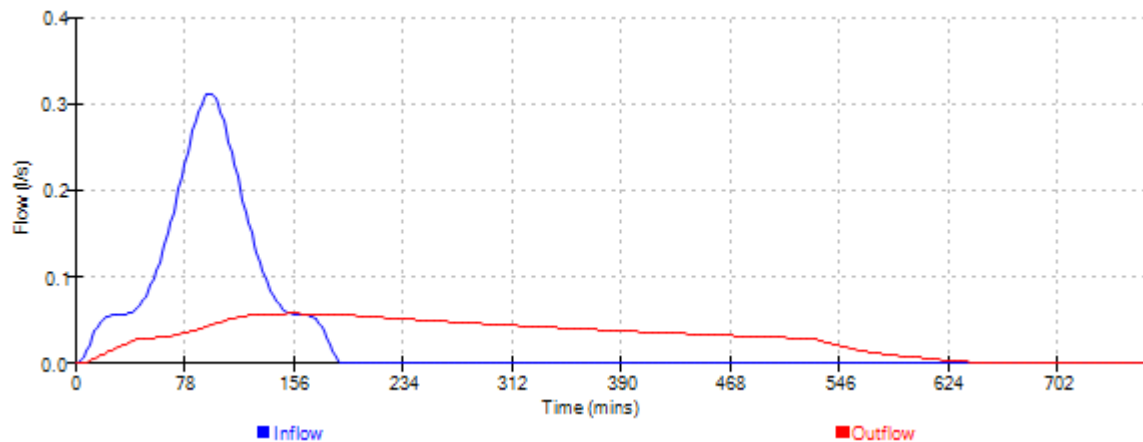
Storage is Online Cover Level (m) 63.800

Trench Soakaway Structure

Infiltration Coefficient Base (m/hr)	0.03100	Trench Width (m)	1.0
Infiltration Coefficient Side (m/hr)	0.03100	Trench Length (m)	6.0
Safety Factor	2.0	Slope (1:X)	500.0
Porosity	0.30	Cap Volume Depth (m)	0.000
Invert Level (m)	62.600	Cap Infiltration Depth (m)	0.000

Dixon Hurst Kemp		Page 5
Victoria Court 22 St Pancras West Sussex PO19 7GD	Twinham 34 Hurst Road Hass... Surface Water Drainage Trench Soakaway Design Rev01	
Date July 25	Designed by JS	
File TRENCH DESIGN 1 IN 10...	Checked by	
Elstree Computing Ltd	Source Control w.12.6	

Event: 180 min Winter



**LAND ADJACENT TO TWINHAM 34 HURST ROAD, HASSOCKS,
EAST SUSSEX, BN6 9NL.
PROPOSED MAINTENANCE & INSPECTION SCHEDULE FOR BELOW GROUND DRAINAGE
(FOUL WATER AND SURFACE WATER) INCLUDING SUSTAINABLE DRAINAGE SYSTEMS (SuDS)**

Item	Required Maintenance/Monitoring	Suggested Frequency	Responsibility
Foul Water Drainage	Check inspection chambers and manholes for damage, condition and function.	Every six months	Property Owner
	Undertake a CCTV drainage survey of the drainage network to establish condition.	Every ten years	Specialist
	Replace or repair malfunctioning parts or structures	As required	Specialist
Surface Water Drainage	Check inspection chambers and manholes for damage, condition and function	Every six months	Property Owner
	Undertake a CCTV drainage survey of the drainage network to establish condition.	Every ten years	Property Owner
	Replace or repair malfunctioning parts or structures.	As required	Specialist
Gullies and Channel Drains	Check gullies and channel drains for damage, condition and function.	Every six months	Property Owner
	Remove sediment, oil/grease, litter and debris.	As necessary	Property Owner
	Replace or repair malfunctioning parts or structures.	As required	Specialist
Surface Water Soakaway	Check silt traps and inspection chambers, and note the rate of sediment accumulation.	Every month for the first year and then annually, or as conditions require	Property Owner
	Undertake a CCTV drainage survey of tanks and soakaway chambers. Note sediment build up and remove sediment/debris if present.	Every five years, or as conditions require	Specialist
Petrol Interceptor	Inspection in accordance with manufacturer's requirements.	Every six months	Specialist
	Full service and general inspection with separator system emptied.	Every 5 years	
Permeable Block Paving	Sweep clean of debris and inspect integrity of bedding grit. Replace bedding grit locally if required.	Every six months	Property Owner
	Lift blocks and remove bedding grit and replace and re-bed paving.	Full bedding replacement currently recommended by manufacturers every 20 years	Specialist
Bioretention areas	Inspect infiltration surfaces for silting and ponding, record drain down time to monitor performance.	Quarterly	Property Owner

**LAND ADJACENT TO TWINHAM 34 HURST ROAD, HASSOCKS,
EAST SUSSEX, BN6 9NL.
PROPOSED MAINTENANCE & INSPECTION SCHEDULE FOR BELOW GROUND DRAINAGE
(FOUL WATER AND SURFACE WATER) INCLUDING SUSTAINABLE DRAINAGE SYSTEMS (SuDS)**

General	Check underdrains are free flowing and inlets/outlets are blockage free.	Quarterly	Property Owner
	Assess plants for health and invasive weed growth replace/remove as necessary.	Quarterly	Property Owner
	Remove litter and general detritus.	Quarterly and after heavy storms	Property Owner
	Remove and replace filter medium and vegetation	As required – SuDS Manual recommends every 20 years	Specialist
	Remove sediment, litter, debris and vegetation from the surface of pathways areas	As necessary and after heavy rainfall	Property Owner
Flood Flow Routes	Ensure flood flow routes are not obstructed (i.e. lower lying portions of the land that will direct surface water runoff away from vulnerable assets in the event of drainage failure).	Every six months and during periods of heavy rainfall	Property Owner

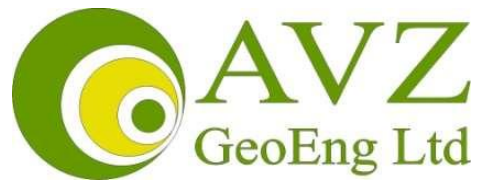
NOTES

The property owners will be responsible for the implementation of the maintenance schedule for below ground drainage or appoint appropriate persons and/or sub-consultants that are qualified to undertake these operations.

Maintenance is to be carried out by the property owners or by a specialist contractor, as noted in Responsibility column above.

This maintenance schedule has been produced with reference to the guidelines outlined in 'The SuDS Manual' (CIRIA C753: 2015). The suggested frequency of maintenance is considered a guide, and should not replace the guidance from manufacturers of proprietary systems.

Refer to Engineering drawings for location and details of below ground drainage assets and SuDS features.



34 Hurst Road, Hassocks, BN6 9NL

Mr John Bullivant

Ground Permeability Test Report

Project No SKZ_2583_1/25



JULY 2025

Document Control		
Revision	Issue Date	Reason for Revision
Draft		
Original	14 th July 2025	
A	1 st August 2025	Amended after review
B		
C		
D		

CONTENTS

INTRODUCTION.....	3
THE SITE	3
LIMITATIONS.....	4
SOAKAWAYS	4

FIGURES

- Figure 1: Site Location Plan
- Figure 2: Test Location Plan
- Figure 3: Soakaway Test Results
- Figure 4: Photo Logs

APPENDIX A Trial Pit Log

Your ref:
Our ref: SKZ_2583_1/25

July 2025

Mr John Bullivant
Twinham, 34 Hurst Road, Hassocks
West Sussex, England,
BN6 9NL

Dear John,

**FACTUAL LETTER REPORT ON GROUND PERMEABILITY TEST CARRIED OUT AT
34 HURST ROAD, HASSOCKS, BN6 9NL**

INTRODUCTION

AVZGeoEng Limited have been commissioned by Mr. John Bullivant ('the Client') to carry out permeability tests at the above site in accordance with the AVZ quotation ref: SKZ_2583_1/25.

THE SITE

The site, which may be found by approximate National Grid reference OS Grid Ref: E: 529570, N: 115670, is situated at 34 Hurst Road, Hassocks, BN6 9NL.

An extract of the Ordnance Survey map showing the location of the site is included in **Figure 1**.

The published 1:50,000 scale geological map of the area indicates that the site is underlain by Folkestone Formation - Sandstone as bedrock geology. Superficial Deposits are not indicated on the published Geological maps and records of the area.

The Folkestone Formation is a geological formation found in southeastern England. It is primarily composed of sandstone, which is a sedimentary rock formed from the consolidation and compaction of sand grains. Sandstone is characterized by its sandy texture, which is a result of its composition of predominantly sand-sized particles. These particles are typically made up of quartz, feldspar, mica, and other minerals. The exact composition can vary depending on the specific source and depositional environment. In the case of the Folkestone Formation, the sandstone is typically fine-

grained and well-sorted, meaning that the individual sand grains are relatively small and of similar size. This indicates that the sediment was transported and deposited in a relatively stable and low-energy environment, such as a river delta or a shallow marine setting. The colour of the sandstone in the Folkestone Formation can vary but is often light to medium brown, reflecting the presence of iron oxide minerals. The rock may also contain various sedimentary structures such as cross-bedding, which are inclined layers within the sandstone resulting from the migration of sand dunes or ripples during deposition.

The existing topography and history of development of the site suggest that in addition to these natural strata some made ground may be present on the site.

LIMITATIONS

Any opinions and interpretations expressed in this report are based on the ground conditions encountered during the site work and on the results of tests made in the field, together with AVZGeoEng conjectural interpretation between exploratory holes. There may, however, be other conditions prevailing at the site which have not been revealed by the investigation and which have therefore not been taken into account in this report. While the report may offer opinions on the possible configuration of strata, both between the excavations and below the maximum depth achieved by the investigation, these comments are for guidance only. It should also be noted that groundwater levels vary due to seasonal or other effects and may at times differ to those measured during the investigation. For investigations, which include environmental issues, the data obtained relate to the conditions which are relevant at the time of the investigation.

This report has been prepared by AVZGeoEng limited. No individual is personally liable in connection with the preparation of this report. By receiving this report and acting on it, the client or any other person accepts that no individual is personally liable whether in contract, tort, for breach of statutory duty or otherwise.

AVZGeoEng Limited prepared this Report for our Client. Any third parties using this Report do so entirely at their own risk. AVZGeoEng makes no warranty or representation whatsoever, express or implied, with respect to the use by a third party of any information contained in this Report or its suitability for any purpose. AVZGeoEng assumes no responsibility for any costs, claims, damages or expenses (including any consequential damages) resulting from the use of this Report or any information contained in this Report by a third party.

SOAKAWAYS

Soakaways are used to store the immediate surface water run-off from hard surfaced areas, such as roofs or car parks, and allow for infiltration into the adjacent soil. They need to provide the necessary capacity to receive run-off from a subsequent storm. The time taken for discharge depends upon the soakaway shape and size, and the surrounding soil's infiltration characteristics. Soakaway may not be an appropriate solution in areas of ground that have low permeability and where the maximum seasonal water table may be at or above the base of the proposed soakaway.

Infiltration test was carried out in a machine dug trial pit at location at the back garden of the proposed house as advised by the engineer suitable for the proposed soakaway, following the analogy and recommendations given in the BRE Digest 365 digest document. The trial pit with dimensions

L=1.2m, W=0.35m and H=1.65m was excavated and ground profile logged by AVZGeoEng's Engineer. The water level in the pit was recorded through a 42mm plastic pipe using a deep meter.

Due to low infiltration rates, the water level in the trial pit failed to drain below the 75% level within the time available for the test, results are presented in the **Figure 3.1**. The low permeability recorded are considered to be a function of the typically high fines (clay and silt) contents of the sub-soils and is considered to be limited and within the range expected for the ground conditions encountered during the site work (granular soil with considerable content of fine particles).

In addition to the above, infiltration test was also carried out in the standpipe installation fitted in BH2 during the main site work and located in close proximity of the trial pit test location. The standpipe was filled with water three times as per the procedure recommended in the BRE 365, the results of the tests indicate infiltration rates of 1.38×10^{-5} m/s as shown with the test results in **Figure 3.2**. The results of the test suggest that the ground profile below 1.65mbgl., provided considerably greater infiltration rates compared to the top section tested in the trial pit.

In conclusion, the top ground does not appear suitable for design and construction of traditional pit soakaways, however, blanket type soakaways such as crate type systems or trances may be feasible, subject to appropriate design,

Deep pits with the base reaching into the more permeable ground e.g. 3.0-3.5mbgl, or a borehole soakaway appear technically feasible option for discharging the rain water for the proposed scheme.

We trust that the above meets with your requirements, however, if should wish to discuss any of the matters further, please do not hesitate to contact us.

Yours Sincerely,
For AVZGeoEng Ltd

Author:

BSc (Hons) Silvanka Kadieva-Zarkovska
Senior Geotechnical Engineer

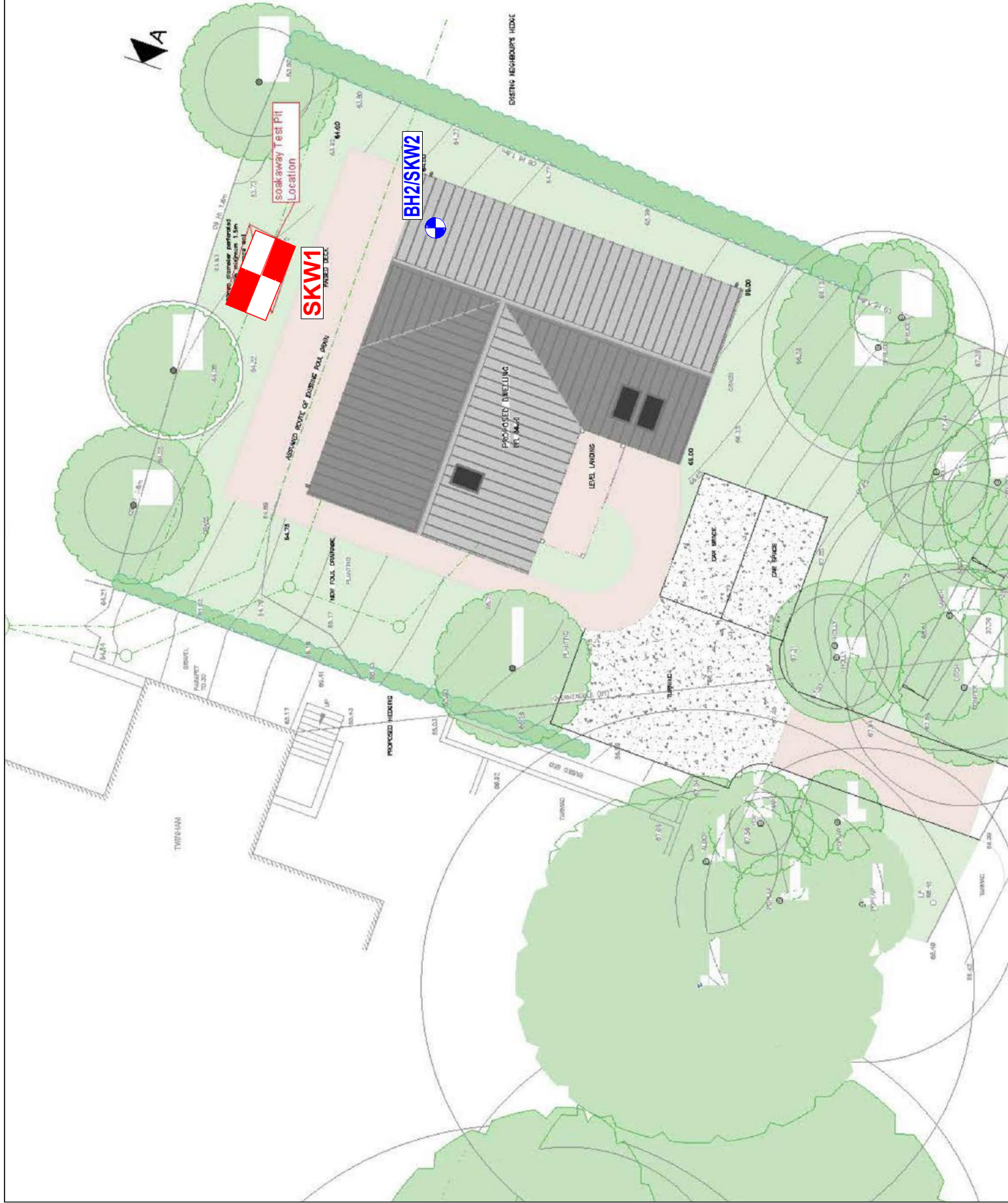


Approved:

Dipl. Ing. Boban Zarkovski CEng MICE
Associate



FIGURES



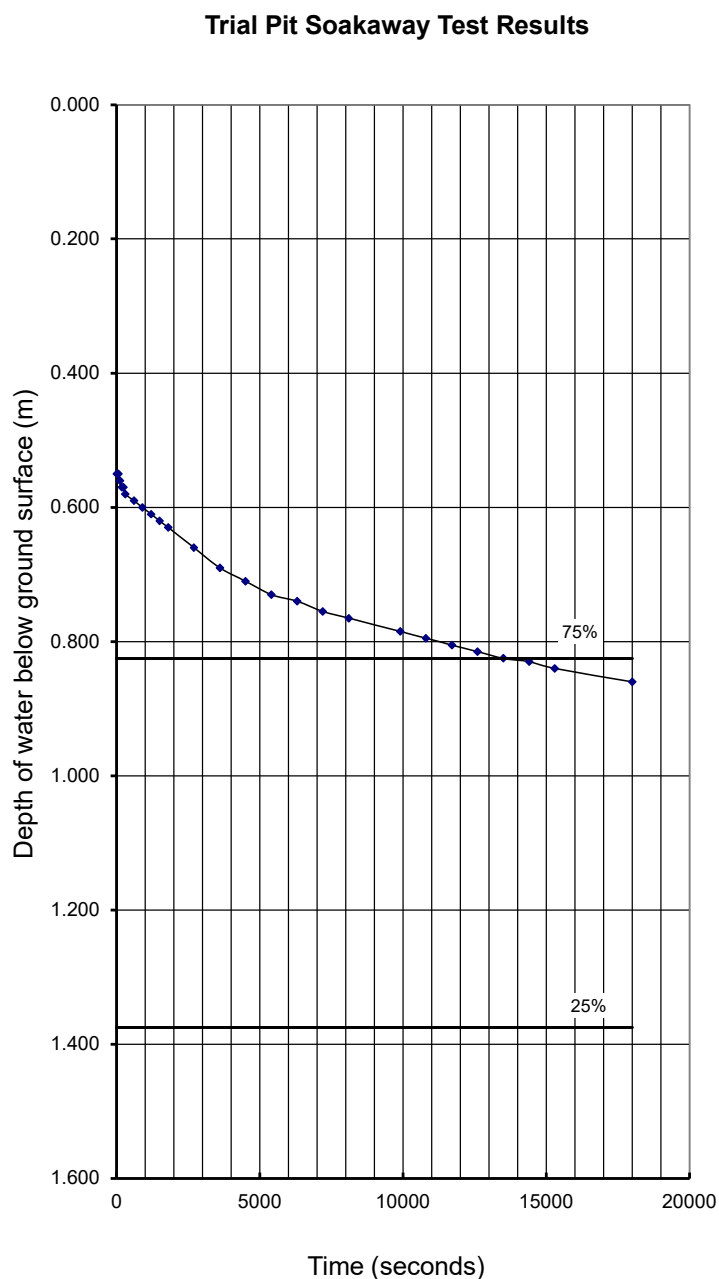
LEGEND:
BH/SKW - Borehole/soakaway
SKW - Trial pit/soakaway

AVZ
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Client
Mr John Bullivant
Project Title
**34 Hurst Road, Hassocks,
BN6 9NL**

Drawing Title					
Layout Investigation Points Plan					
Drawn	Date	Checked	Date	Approved	Date
SKZ	09/07/2025	BZ	09/07/2025	BZ	09/07/2025
Scale		Orig Scale		Dimensions	
NTS				M	
Project No.			Drawing File		
SKZ 2583 1/25					
Drawing No.			Rev.		
FIGURE 2					

Location	34 Hurst Road, Hassocks, BN6 9NL	Test No	SKW1
Client	Mr John Bullivant	Length of Trial Pit (m)	1.2
Job Number	2583/25	Width of Trial Pit (m)	0.3
Date	09-Jul-25	Water level at start (mbgl)	0.55
Operator	OJ	Depth to Base of Trial Pit (m)	1.65

[illegible]

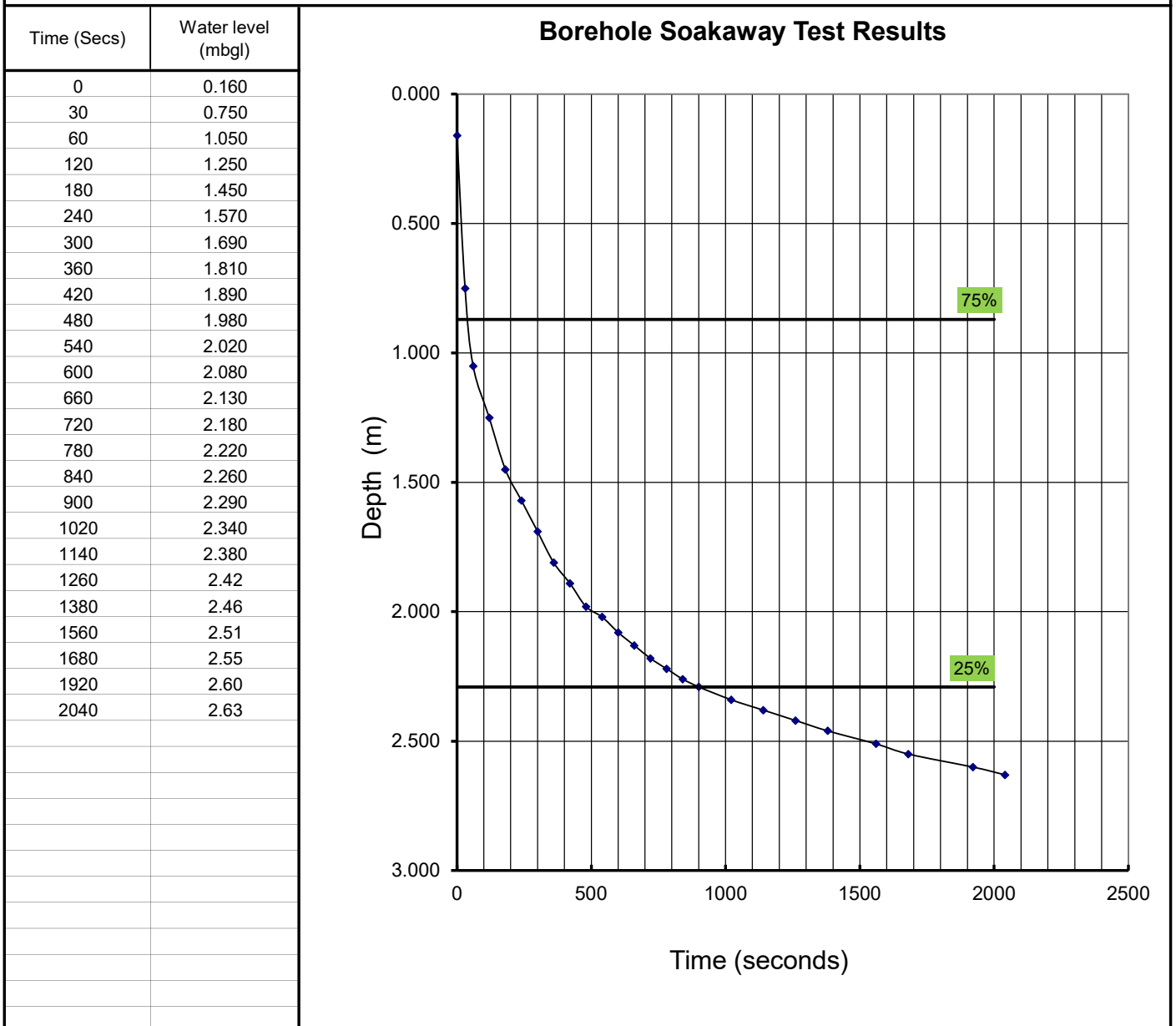
Results	
V_{p75-25} (m^3)	0.20
a_{p50} (m^2)	2.01
t_{p75} (s)	NA
t_{p25} (s)	NA
t_{p75-25} (s)	NA
Infiltration Rate (m/s)	NA

Values determined from graph

Figure
3.1

BOREHOLE SOAKAWAY TEST

Location	34 Hurst Road, Hassocks, BN6 9NL	Test No	Test 1
Client	Mr John Bullivant	Internal Borehole Diameter (m)	0.10
Job Number	2583/25	Water level at start (mbgl)	0.16
Date	09-Jul-25	Depth to Base (m)	3.00
Operator	OJ		



Results

Vp 75-25 (m3)	0.0048
ap 50 (m2)	0.454
tp 75-25 (s)	765.00
Infiltration Rate (m/s)	1.38E-05

35% porosity assumed for filter

Value determined from graph



Figure 3.2

		Factual Report on Ground Investigation		PHOTOGRAPHIC LOG	
Client: Mr John Bullivant		Site: 34 Hurst Road, Hassocks, BN6 9NL			Job No: SKZ_2583_1/25
Photo No.1	Figure 4	Description: JCB Performing at the location 			
Photo No.2	Figure 4	Description: Trial pit For infiltration test 			

Figure 4

Photo No.3	Figure 4	
Description: SKW - Monitoring		

Figure 4

APPENDIX A

BOREHOLE LOG

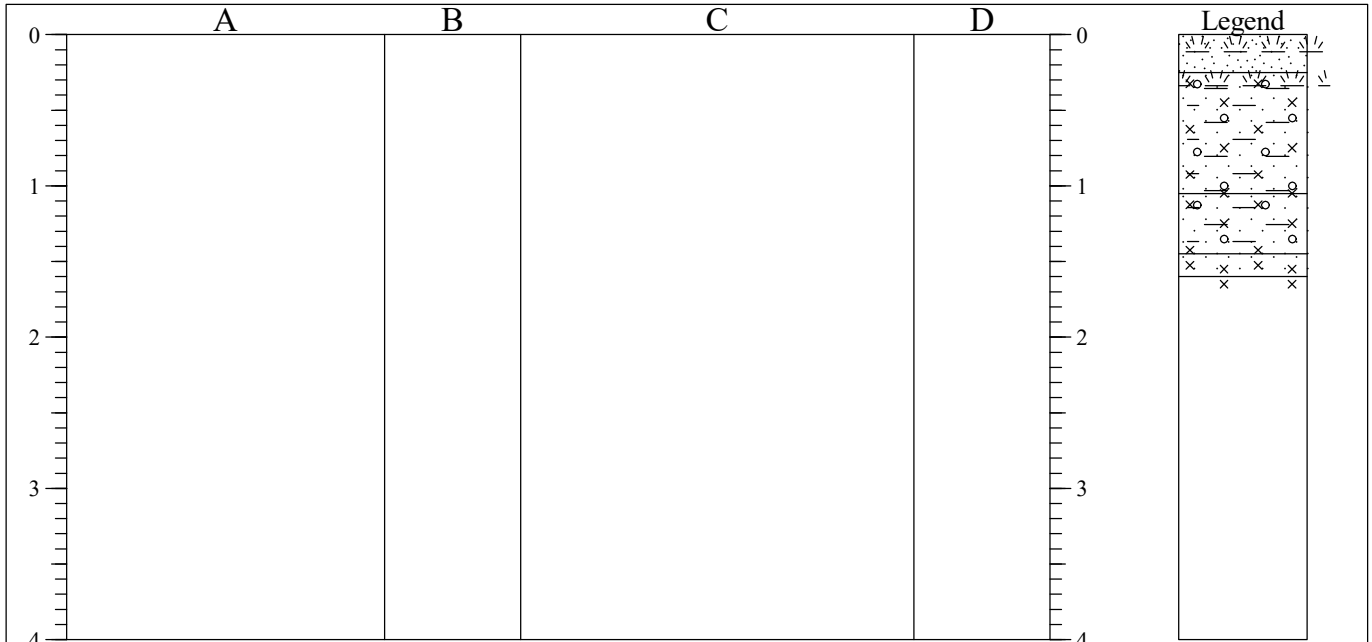
Project 34 Hurst Road, Hassocks, BN6 9NL				BOREHOLE No BH2/SKW2	
Job No SKZ_2583/25	Date 16-06-25 16-06-25	Ground Level (m)	Co-Ordinates (Local)		
Contractor AVZGeoEng Ltd				Sheet 1 of 1	

SAMPLES & TESTS			Water	STRATA				Geology	Instrument/ Backfill
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	DESCRIPTION		
1.20-1.65 1.20	SPT1	N33				0.15	Brown clayey sand and silt with roots and rootlets - topsoil.		
						0.95	Loose, yellow brown and light grey mottled sand and silt with occasional sandstone fragments. (likely Folkestone Formation)		
						1.10			
2.00-2.45 2.00	SPT2	N60				1.60	Loose, yellowish brown light grey mottled, silty SAND with occasional sandstone fragments. (Folkestone Formation)		
						1.80			
3.00-3.42 3.00	SPT3	N99/ 270 mm				3.40	Dense to very dense, light brown and light grey silty SAND. Sand is fine to medium. (Folkestone Formation)		

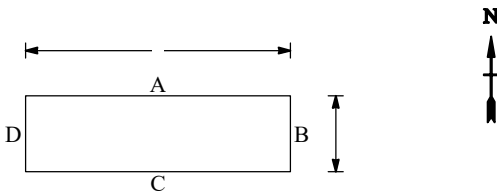
Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Depth	Date	Time	Casing Depth	Casing Dia. mm	Water Depth	From	To	Hours	From	To	
											The location was CAT scanned and inspection pit excavated by hand prior the commencement of the drilling. The borehole was backfilled with arisings on completion. Borehole remained dry.
All dimensions in metres Scale 1:50			Client Mr John Bullivant			Method/ Plant Used Terrier Drive in Sampling				Logged By B Žarkovski	

SOAKAWAY LOG

Project 34 Hurst Road, Hassocks, BN6 9NL				SKW No SKW1
Job No SKZ_2583_1/25	Date 09-07-25 09-07-25	Ground Level (m)	Co-Ordinates (Local)	
Contractor AVZGeoEng Ltd				Sheet 1 of 1



STRATA			SAMPLES & TESTS		
Depth	No	DESCRIPTION	Depth	No	Remarks/Tests
0.00-0.25		Brown clayey sand and silt with roots and rootlets - topsoil.			
0.25-1.05		Yellow brown and light grey mottled clayey sand and silt with occasional sandstone fragments. (likely Folkestone Formation)			
1.05-1.45		Yellowish brown light grey mottled, clayey silty SAND with occasional sandstone fragments. (Folkestone Formation)			
1.45-1.60		Light brown and light grey silty SAND. Sand is fine to medium. (Folkestone Formation)			

Shoring/Support: Stability: 	GENERAL REMARKS The location was CAT scanned and inspection pit excavated by JCB mini digger. The SKW was backfilled with arisings on completion.
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All dimensions in metres Scale 1:50	Client Mr John Bullivant	Method/ Plant Used JCB mini digger	Logged By B Žarkovski
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Service And Maintenance Report

SITE

SITE
Twinham

SERVICE TIME
10:35am on 24/12/2024

OPERATIVE
Engineer 1

General - Pumping Station

✓ Cut grass and overhanging bushes

✓ Clean all kiosks, covers and tank lids

✓ Check primary sludge levels

Visual effluent quality: N/A

Notes:
None

✓ Tidy site removing rubbish

✓ Check safety of system

✓ Ensure manhole covers are secure

Overall system operation: Ok



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VAT GB 942 8219 13

Registered in England and Wales no. 06767655

Registered office: 254 Upper Shoreham Road, Shoreham By Sea, BN43 6BF



Pumping Station

- | | |
|---|--|
| ✓ Control floats operation normal | ✓ Pump 1 operation normal |
| ✓ Alarm system OK if applicable | ✓ Check weeds in and around |
| ✓ Pump 2 operation normal (if applies) | ✓ Electrical system clean and safe |
| ✓ Kiosk condition acceptable | ✓ Wet well pipe / guide rails OK |
| ✓ Check control panel - electrics working OK and safe (no sparking, secure) | ✓ Wet well clean and scum removed |
| ✓ Control floats clean and secure (hang right, working) | ✓ Auto controls and electrics acceptable |
| ✓ Non-return valves normal | ✓ Wet well pipe work |
| ✓ Guide rails - not rusted, secure and pumps able to slide up and down | ✓ Chains and pipe work OK |
| ✓ Non return valves - condition / working | ✓ Pump down wet well |
| ✓ Pumps seated correctly | Sludge level: Good |
| Pump 1 megger reading: ok | Pump 1 operation: Good |
| Pump 2 megger reading: n/a | Pump 2 operation: n/a |
| Amp readings pump 1: ok | Amp readings pump 2: n/a |



Moody Sewage Ltd

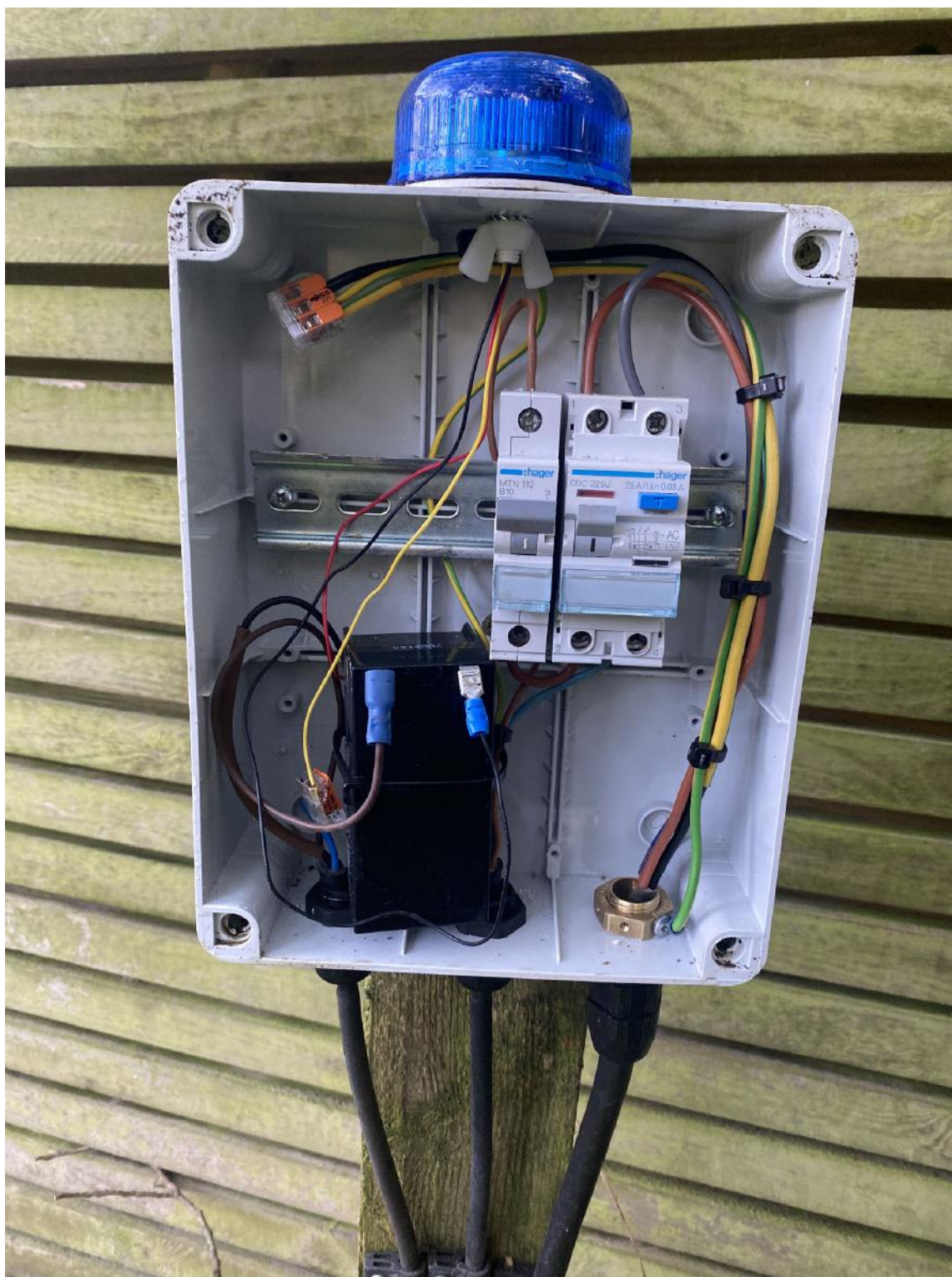
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