### **Cotefield Business Park**

REVISION: V1 DATE: 30 OCTOBER 2020





Structures & Infrastructure

### Drainage Strategy Report Cotefield Business Park

#### SOLID.

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Job Number	1831S
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Date	30/10/2020

PROJECT DE	TAILS			
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## Drainage Strategy Report

#### **1. INTRODUCTION**

#### 1.1. Objective of this report

The objective of this document is to determine the strategy for the disposal of surface water produced as a result of the development of the site located to the west of the A4260 Oxford Road, Bodicote, Banbury OX15 4AQ.

#### 1.2 Constraints and limitations

The information presented in this report is based on a review of site visits and site investigations supplied by third parties. No warranty can be given on its accuracy and validity. This report excludes consideration of potential hazards arising from any activities at the Site other than normal use and occupancy for the intended land use. Hazards associated with any other activities have not been assessed and must be subject to a specific risk assessment by the responsible parties.

#### 1.3 Purpose of this report

As part of this study a number of records and third party consultations have been undertaken. The main documents reviewed were:

#### Third Party

#### Key Documents:

- Thames Water
- Ground Investigation
- EA desktop information
- Desktop ground information

#### 2. SITE INFORMATION

#### 2.1 Existing Site

The site is located to the west of the A4260 Oxford Road, Bodicote, Banbury OX15 4AQ at Ordnance Survey National Grid Reference SP 468 374. The site currently is an overflow parking area for the Business Park and as a construction compound for the adjacent housing development. The car park finish is well compacted Type 1 as such this surface is considered to be semi impermeable.

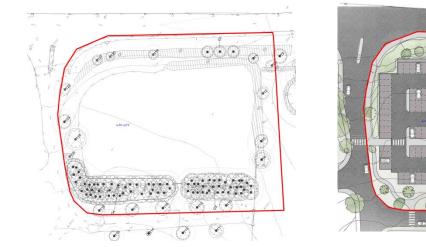




Figure 1: Existing site

#### 2.1 Proposed Development

It is proposed a new building to be used as a food retail store and supermarket. The external areas are the access road and parking areas.

Please refer to **Appendix A** for details of the existing and proposed site layout.

Table1: Existing and Proposed distribution of permeable and impermeable areas. The total site area does not correspond to the planning area.

Areas Description	Existing Site (Ha)	Redeveloped Site (Ha)
Total Site Area	0.628	0.628
Impermeable Surface	0.320	0.193

Total Permeable area of the redeveloped site: 0.23 Ha

**DAD** 

### 3. ASSESSMENT AND MITIGATION OF FLOOD RISKS TO THE SITE

The sources of flooding and specific mitigation are described in table 3 below.

Table 2: Source of flooding assessment and mitigation

Source of Flooding	Assessment	Mitigation
Flooding from water courses onto site (Fluvial)	The EA flood maps show that the site is located within Flood Zone 1. For this site the probability of flooding is likely to be low.	No mitigation is required
Flooding from groundwater	The SFRA flood map shows that the site is not susceptible to groundwater flooding.	No mitigation is required
Tidal/coastal	Site is not near coast	Not applicable
Surface water (overland flows)	The EA flood map shows that the site is at LOW risk of flooding from surface water. The likelihood of overland flows in minimal as the flows are intercepted by the public road before they come onto the site.	No mitigation is required
Canals	Site is not near to a canal	Not applicable
Reservoirs	The development is outside of the area that could be flooded if a large reservoir were to fail.	No mitigation is required

#### 4. SUSTAINABLE DRAINAGE SYSTEM HIERARCHY AND DISCHARGE POINT

The SuDS techniques were evaluated in relation to the available site information and site visits. The aim is to provide a sustainable design that could accommodate the proposed attenuation volume and replicated the existing drainage regime. The SuDS hierarchy is shown in Figure 2 below.

Most Sustainable	SUDS technique	Flood Reduction	Pollution Reduction	Landscape & Wildlife Benefit
	Living roofs	~	~	~
Î	Basins and ponds - Constructed wetlands - Balancing ponds - Detention basins - Retention ponds	~	~	~
	Filter strips and swales	~	~	~
	Infiltration devices - soakaways - infiltration trenches and basins	~	~	Ý
¥	Permeable surfaces and filter drains - gravelled areas - solid paving blocks - porous paviors	~	~	
Least Sustainable	Tanked systems - over-sized pipes/tanks - storms cells	~		

Figure 2: The SuDS Hierarchy (Source:EA Thames region, 21006, SuDS a practical guide)

Permeable surfacing will be provided on the driveway and parking areas.

Infiltration testing has been carried out. The soakaway tests were over excavated by 1.5m below the based and left open. No ground water was found.

Based on the results of the soakaway tests the permeability rate is 5.836 x10-5 m/s (0.21009m/hr) at a depth of 1.5m bgl. The infiltration rate at shallow depth (0.65m bgl) is 5.086 x10-6m/s (0.18309m/hr).

#### See **Appendix C** for details.

#### 5. SURFACE WATER DRAINAGE SYSTEM

#### 5.1 Proposed Surface Water System

A pipe system will convey the surface water from the roof and hard surfaces to the shallow infiltration systems. Please refer to **Appendix D** for the drainage strategy which shows the pipe networks (pipe sizes and gradients), inspection chambers and the proposed soakaway locations. Microdrainage calculations are attached in **Appendix D**.

	Existing Site Discharge Rate l/s	Proposed Site Discharge Rate m/hr
1 in 2 (Qbar)	1.4	0.18309
1 in 30	3.2	0.18309
1 in 100	4.5	0.18309
1 in 100 +40%	N/A	0.18309

Treatment will be provided by the permeable surfacing.

#### 5.2 Designing For Exceedence

The model results confirmed that the site will maintain all the flows produced by the 1:100+CC events. Should a storm greater that this magnitude occurs or the system fails, the soft and hard landscaping areas are designed to route flows away from the properties and maintain emergency access/egress routes clear.

All flood water will be directed towards the Open field and away from the new development.

The drainage strategy drawing **in Appendix D** shows the intended routes of surface water during exceedance events.

#### 6. MAINTENANCE

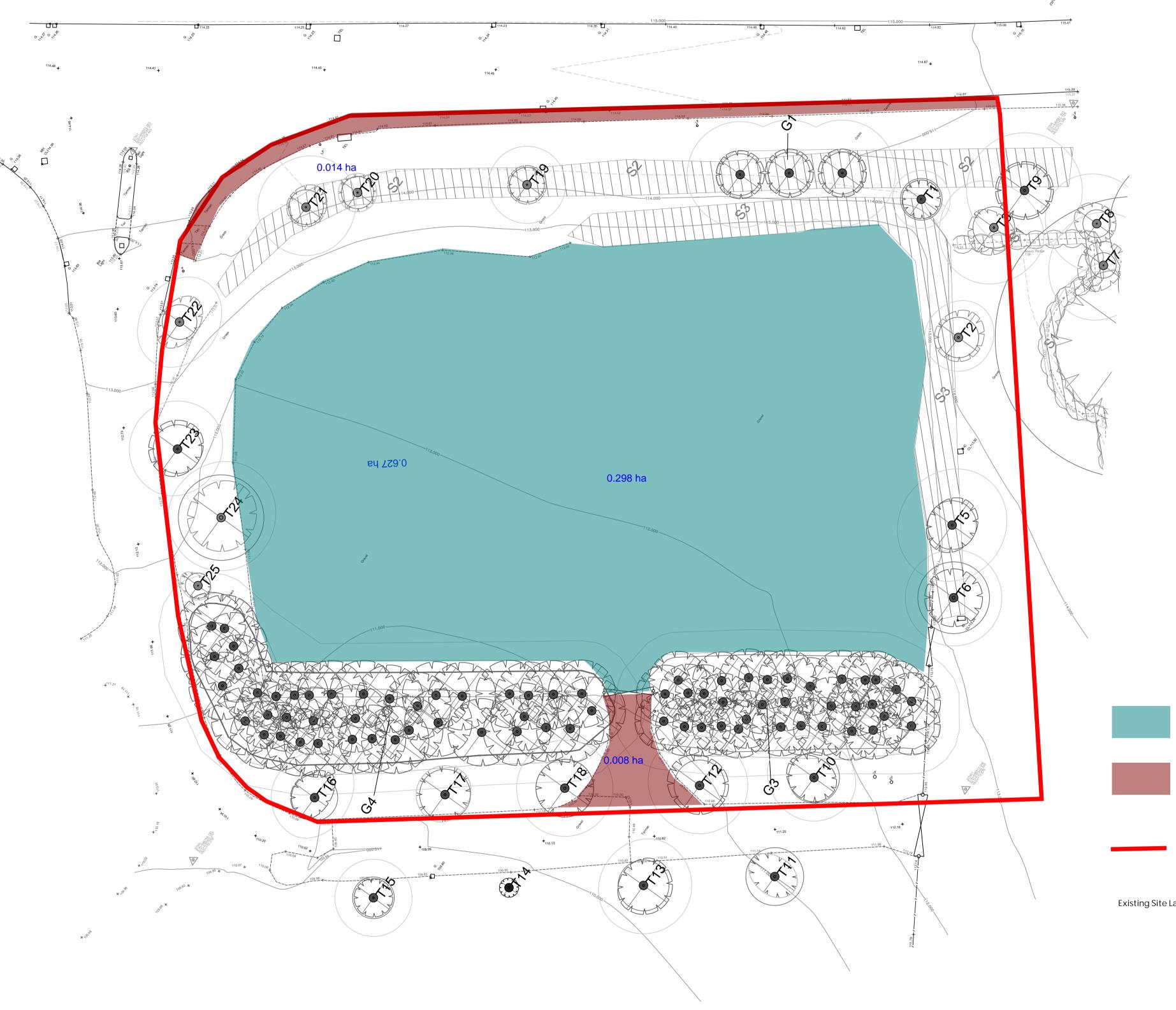
TAB 20.

Maintenance and Management Plan Guidance from SuDS, CIRIA C753 (2015) is to be followed for the effective maintenance of the proposed SuDS techniques.

Maintenance schedule	Required action	Typical frequency
Regular maintenance	Brushing and vacuuming (standard cosmetic sweep over whole surface)	Once a year, after autumn leaf fall, or reduced frequency as required, base site-specific observations of clogging manufacturer's recommendations – p particular attention to areas where w runs onto pervious surface from adja impermeable areas as this area is me likely to collect the most sediment
	Stabilise and mow contributing and adjacent areas	As required
Occasional maintenance	Removal of weeds or management using glyphospate applied directly into the weeds by an applicator rather than spraying	As required – once per year on less frequently used pavements
	Remediate any landscaping which, through vegetation maintenance or soil slip, has been raised to within 50 mm of the level of the paving	As required
Remedial Actions	Remedial work to any depressions, rutting and cracked or broken blocks considered detrimental to the structural performance or a hazard to users, and replace lost jointing material	As required
	Rehabilitation of surface and upper substructure by remedial sweeping	Every 10 to 15 years or as required (i infiltration performance is reduced du significant clogging)
	Initial inspection	Monthly for three months after install
Monitoring	Inspect for evidence of poor operation and/or weed growth – if required, take remedial action	Three-monthly, 48 h after large storm first six months
	Inspect silt accumulation rates and establish appropriate brushing frequencies	Annually
	Monitor inspection chambers	Annually

# Appendix A

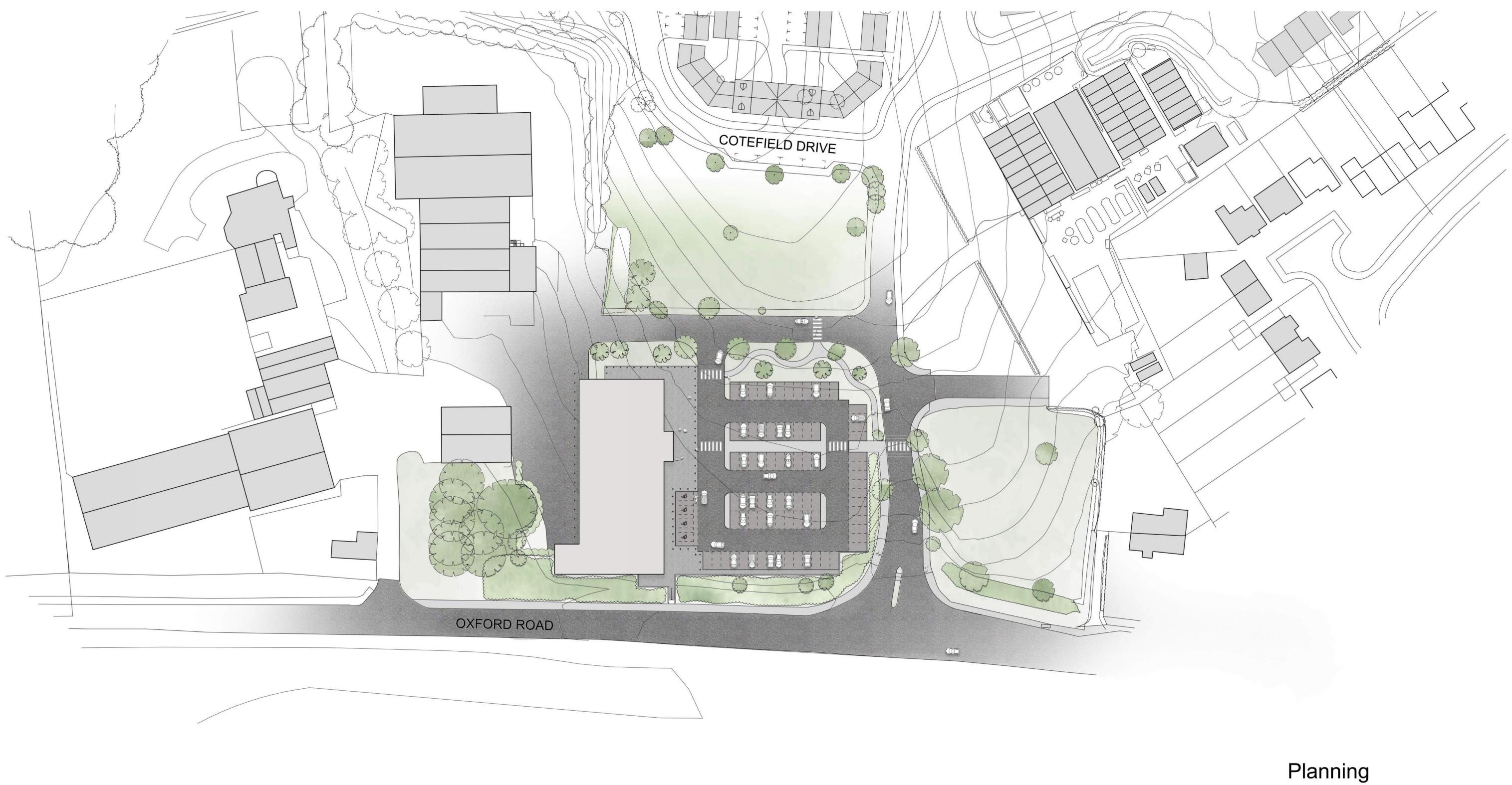


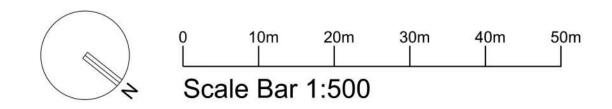


Existing Type 1 Car Park

Tarmac Surface

Existing Site Layout





	Project: Cotefield Farm		Job No: <b>39</b>	04	2
prosper	Drawing Title: Proposed Site Plan		Drawing No.		rev.
			<sup>Date:</sup> Mar	201	9
1 Water End Barns Water End Eversholt MK17 9EA	Client:		Drawn: BM	Che	cked: -
t 01525 309 400 hello@prosper-design.com prosper-design.com	Will Bratt		Scale: 1:500	)@4	<b>\</b> 1
		41 <sup>-</sup>			

# Appendix C





### BRE365 Soil Infiltration Rate Calculations Cotefield Business Park

Solid Job No: Solid Doc Ref: Date: 1831S 1831S-BBC-SOLID-XX-UD-CA-C-001 30/10/2020

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Solid Doc Ref: 1831S-BBC-SOLID-XX-UD-CA-C-001
<b>Status:</b> S4 - Building Regs
Issued by: ARD

CONTENTS		

APPROVAL			
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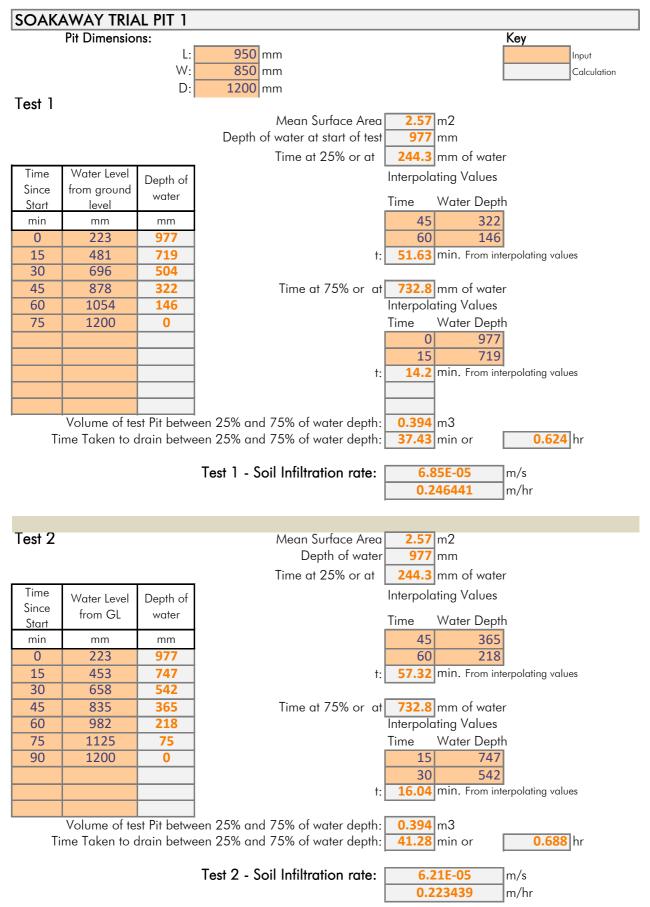
REVISION HISTORY				
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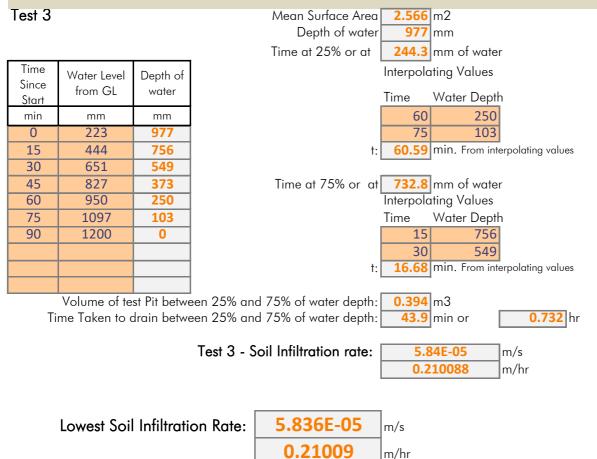






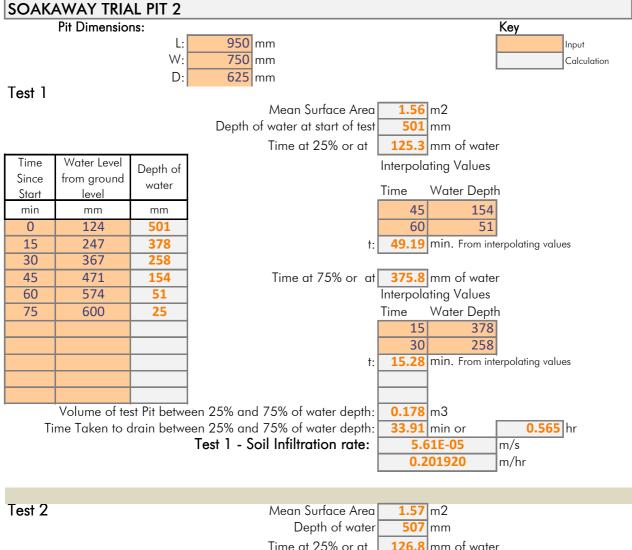


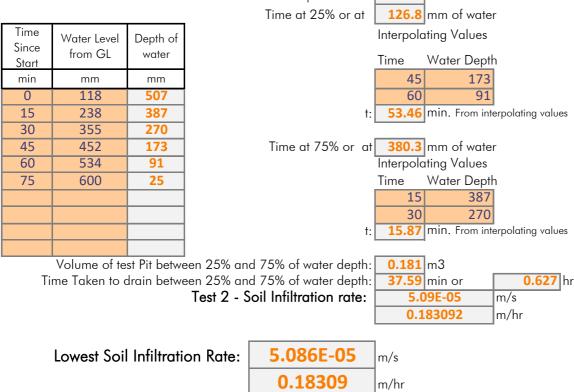














# Appendix D



Solid Structures		Page 1
Solid Studio, Chipping Norton		
Oxfordshire		
OX7 5BJ		Micro
Date 30/10/2020 16:06	Designed by Argemiro	Drainage
File Existing Site.SRCX	Checked by	Diamage
Innovyze	Source Control 2019.1	
<u>ICP SU</u>	IDS Mean Annual Flood	
	Input	
Return Period (years) 2 Area (ha) 0.320	SAAR (mm) 700 Urban 0.000 Soil 0.450 Region Number Region 6	
	Results I/s	
	QBAR Rural 1.4	
	QBAR Urban 1.4	
	Q2 years 1.2	
	Q1 year 1.2	
	Q30 years 3.2	
	Q100 years 4.5	

Solid Structures	Page 1
Solid Studio, Chipping Norton	
Oxfordshire	
OX7 5BJ	Micro
Date 30/10/2020 16:45	Designed by Argemiro
File Existing Site.MDX	Checked by
Innovyze	Network 2019.1
STORM SEWER DES	SIGN by the Modified Rational Method
De	sign Criteria for Storm
Pipe Sizes STA	NDARD Manhole Sizes STANDARD
Return Period (year M5-60 (mi Ratio Maximum Rainfall (mm/l Maximum Time of Concentration (mir Foul Sewage (l/s/h Volumetric Runoff Coe	m)19.700Add Flow / Climate Change (%)0p R0.408Minimum Backdrop Height (m)0.200hr)50Maximum Backdrop Height (m)1.500ns)30Min Design Depth for Optimisation (m)0.400na)0.000Min Vel for Auto Design only (m/s)1.00
Time	Area Diagram for Storm
Tim (min	
0	0-4 0.112 4-8 0.052
Total Ar	rea Contributing (ha) = 0.164
Total	Pipe Volume (m³) = 0.773
Netwo	rk Design Table for Storm
•	Г.Е. Base k HYD DIA Section Type Auto nins) Flow (I/s) (mm) SECT (mm) Design
1.001 10.000 0.059 168.2 0.041	6.00   0.0   0.600   o   150   Pipe/Conduit   ♂     0.00   0.0   0.600   o   225   Pipe/Conduit   ♂     0.00   0.0   0.600   o   225   Pipe/Conduit   ♂
N	letwork Results Table
PN Rain T.C. US/IL	Σ I.Area Σ Base Foul Add Flow Vel Cap Flow
(mm/hr) (mins) (m)	(ha) Flow (l/s) (l/s) (l/s) (m/s) (l/s) (l/s)
1.000 50.00 6.17 <b>112.450</b>	0.123 0.0 0.0 0.0 1.00 17.7 16.7
1.00150.006.33112.2761.00250.006.42112.216	0.164   0.0   0.0   0.0   1.01   40.0   22.2     0.164   0.0   0.0   0.0   1.01   40.0   22.2
E FI	ing Outfall Datails for Starm
Free Flow	ring Outfall Details for Storm
Outfall Outfall Pipe Number Name	C. Level I. Level Min D,L W (m) (m) I. Level (mm) (mm) (m)
1.002	113.000 112.187 0.000 0 0

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Sim	ulation Criteria for Storm	
Malura stria Dura «Co		
Volumetric Runoff Co Areal Reduction Fac		
Hot Start (mir	ns) 0 Inlet Coeffiecient 0.80	00
Hot Start Level (m	m) 0 Flow per Person per Day (l/per/day) 0.00	00
Manhole Headloss Coeff (Glob Foul Sewage per hectare (I		50 1
Number of Input Hydrographs 0 Nu Number of Online Controls 1 Numb	Imber of Offline Controls   0   Number of Time/Area D     er of Storage Structures   2   Number of Real Time (	
<u>S</u> 1	nthetic Rainfall Details	
Rainfall Model	FSR Profile Type Summer	
Return Period (years)	2 Cv (Summer) 0.750	
Region Eng M5-60 (mm)	gland and Wales Cv (Winter) 0.840 19.700 Storm Duration (mins) 30	
Ratio R	0.408	

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Online Controls for Storm

Pump Manhole: S03-Car Park, DS/PN: 1.002, Volume (m<sup>3</sup>): 1.2

Invert Level (m) 112.216

Depth (m) Flow (l/s)

1.000 0.0000

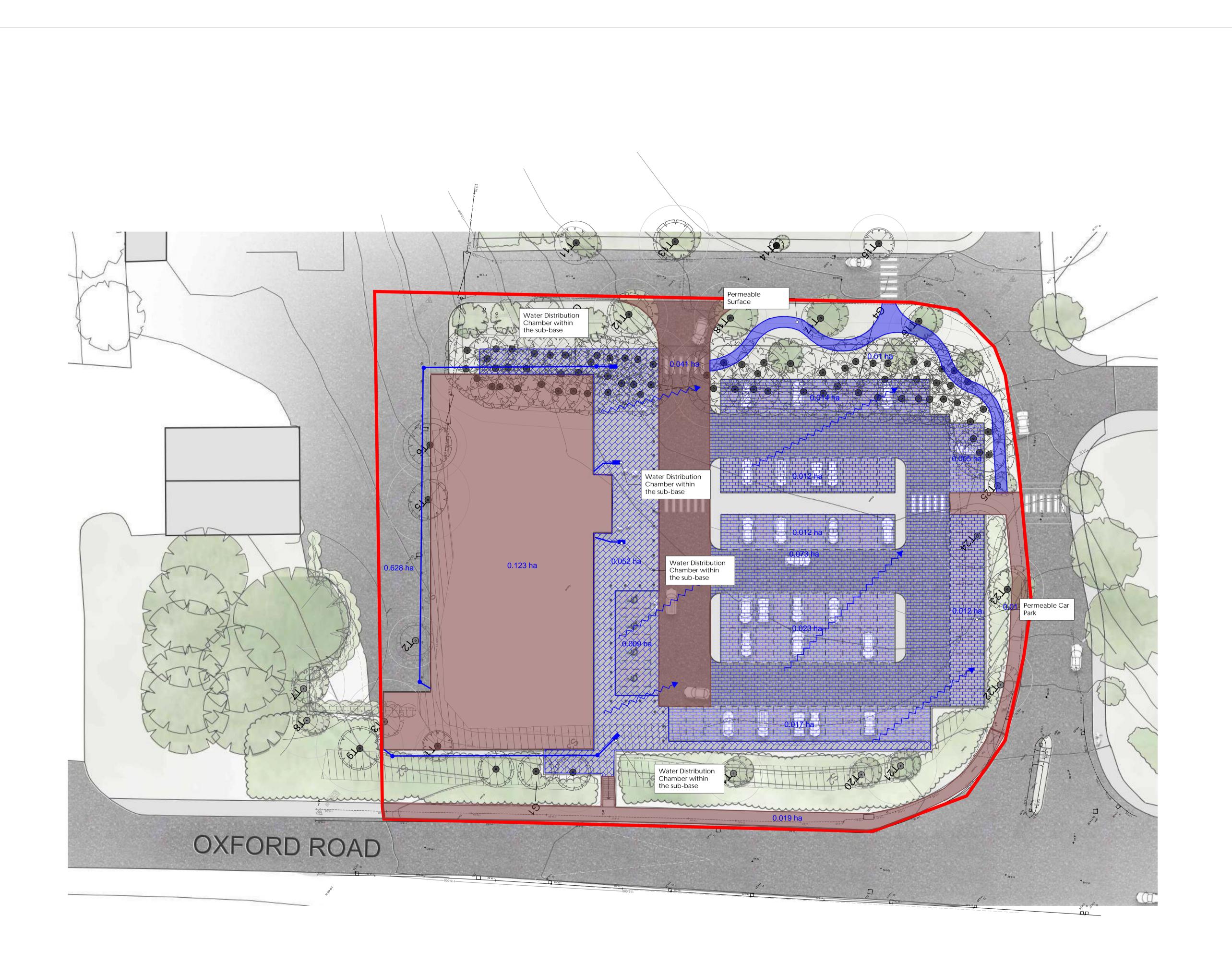
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11100920		
	ge Structures for Storm	
Forous Car Fark Marin	nole: S01-Main Building, DS/PN: 1.000	
Infiltration Coefficient Base (r		
Membrane Percolation (mr Max Percolation		
Safety Fa		
Por	osity 0.30 Evaporation (mm/day) 3	
Invert Leve	I (m) 112.450 Cap Volume Depth (m) 0.450	
Porous Car Park Mo	anhole: S03-Car Park, DS/PN: 1.002	
Infiltration Coefficient Base (r	n/hr) 0.18309 Width (m) 168.0	
Membrane Percolation (mr	n/hr) 1000 Length (m) 100.0	
Max Percolation Safety Fa		
Por	osity 0.30 Evaporation (mm/day) 3	
Invert Leve	I (m) 112.500 Cap Volume Depth (m) 0.350	
Volu	ume Summary (Static)	
Length Calco	ulations based on Centre-Centre	
Pipe US	Storage MH Structure Total	
•	me Volume (m <sup>3</sup> ) Volume (m <sup>3</sup> )	
1.000 S01-Mai		
	ess Road 0.000 0.000 -Car Park 1764.000 1764.000	
1.002 503	-Car Park 1764.000 1764.000	
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<u>1 year Return Period Summary of</u>	Critical Results by Maximum Level (Rank 1) for S	<u>Storm</u>
Areal Reduction Factor	Simulation Criteria	
Hot Start (mins		
Hot Start Level (mm Manhole Headloss Coeff (Globa	n) 0 Inlet Coeffiecient 0.800 I) 0.500 Flow per Person per Day (I/per/day) 0.000	
Foul Sewage per hectare (1/s		,
Number of Input Hydrographs 0 Nur Number of Online Controls 1 Numbe	nber of Offline Controls 0 Number of Time/Area Dia r of Storage Structures 2 Number of Real Time Co	grams 0 ontrols 0
	nthetic Rainfall Details	
Rainfall Model Region England and	FSR M5-60 (mm) 19.700 Cv (Summer) 0.750 Wales Ratio R 0.408 Cv (Winter) 0.840	
Margin for Flood Risk	Warning (mm) 300.0 DVD Status OFF lysis Timestep Fine Inertia Status OFF	
Ana	lysis Timestep Fine Inertia Status OFF DTS Status ON	
Profile(s		
Return Period(s) (years		
Climate Change (%	b) 0, 0, 40	
		Water
	n Climate First (X) First (Y) First (Z) Over d Change Surcharge Flood Overflow Ad	flow Level
······································	1 +0%	112.469
	1 +0% 1/15 Summer 1 +0% 1/15 Summer	112.506 112.500
Surcharged F		Laural
US/MH Depth V PN Name (m)	/olume Flow / Overflow Flow (m³) Cap. (l/s) (l/s) Status E	Level Exceeded
1.000 S01-Main Building -0.131	0.000 -0.03 -0.5 OK	
1.001 S02-Access Road 0.005 1.002 S03-Car Park 0.059	0.000 0.10 3.3 SURCHARGED 0.000 0.00 0.0 SURCHARGED	
1.002 303-Cal Faix 0.039		
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Solid Structures		Page 6
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Areal Reduction Factor Hot Start (mins) Hot Start Level (mm)	) 0 MADD Factor * 10m³/ha Storage 2.000 ) 0 Inlet Coefficient 0.800 ) 0.500 Flow per Person per Day (l/per/day) 0.000	
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Syr Rainfall Model Region England and W	n <u>thetic Rainfall Details</u> FSR M5-60 (mm) 19.700 Cv (Summer) 0.750 Vales Ratio R 0.408 Cv (Winter) 0.840	
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1.000   S01-Main Building   30 Winter   30     1.001   S02-Access Road   15 Winter   30     1.002   S03-Car Park   30 Winter   30	+0% +0% 1/15 Summer +0% 1/15 Summer	112.508 112.519 112.501
· · · · · · · · · · · · · · · · · · ·	olume Flow / Overflow Flow	Level xceeded
1.000   S01-Main Building   -0.092     1.001   S02-Access Road   0.018     1.002   S03-Car Park   0.059	0.000   -0.04   -0.6   OK     0.000   0.42   14.1   SURCHARGED     0.000   0.00   0.0   SURCHARGED	
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Number of Input Hydrographs 0 Nun Number of Online Controls 1 Numbe	mber of Offline Controls 0 Number of Time/Area Diagram   er of Storage Structures 2 Number of Real Time Control	ns 0 bls 0
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Profile(s	s) Summer and Winter s) 15, 30, 60, 120, 240, 360, 480, 960, 1440	
Return Period(s) (years	s) 1, 30, 100	
Climate Change (%	6) 0, 0, 40	
	Climate First (X) First (X) First (Z) Overflow	Water
	n Climate First (X) First (Y) First (Z) Overflow I Change Surcharge Flood Overflow Act.	Level (m)
1.000 S01-Main Building 30 Winter 100 1.001 S02-Access Road 15 Winter 100		112.573 112.538
1.002 S03-Car Park 30 Winter 100		112.502
Surcharged F US/MH Depth	Flooded Pipe Volume Flow / Overflow Flow Lev	vel
PN Name (m)	(m <sup>3</sup> ) Cap. (l/s) (l/s) Status Exce	
1.000 S01-Main Building -0.027	0.000 0.70 10.9 OK	
1.001 S02-Access Road 0.037 1.002 S03-Car Park 0.060	0.000 0.79 26.2 SURCHARGED 0.000 0.00 0.0 SURCHARGED	
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# 1. All Structural Engineer's drawings are to be read in conjunction with all relevant Architect's & Services Engineer's drawings and specifications. Overland Flows Impermeable Surface Permeable Surface 100mm Permeable Paving Block 50mm Sharp Sand 350mm Type 3 Foundations ╞┱┙┰┙┱╹ Permeable Surface 100mm Permeable Paving Block 50mm Sharp Sand 450mm Type 3 Foundations $\overline{\mathbf{X}}$ PO1 First Issue 30.10.20 ARD ARD \_\_\_\_\_ \_\_\_\_\_ Date By Chk Rev Description SOLID. Structures & Infrastructure **Solid Studio** 12 Albion Street Chipping Norton OX7 5BJ T +44(0)1608 690 858 E info@solid-engineering.co.uk W solid-engineering.co.uk Project Cotefield Business Park Drawing Title SURFACE WATER DRAINAGE STRATEGY Scale 1·250 @ **A1**

NOTES

						1:250	Jeri
Role							
							Civil
Status / Sta	ge						
			S4 -	For F	Plann	ing App	oroval
Job No							
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Ref	Org	Zone	Level	Туре	Role	Number	Rev
CBP	SOLID	ХХ	ХХ	DR	С	0001	P01