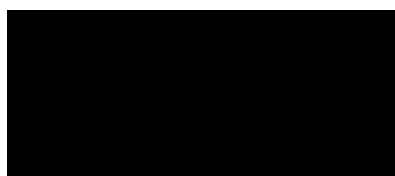


**Southampton Audi Wintone,
Brickfield Lane,
Chandlers Ford**

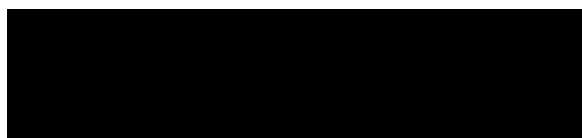
Drainage Report

Date: 17/10/22
Project No. 303916
Revision: 01

Prepared by:
[Tim Killingback]



Approved by:
[Nick Groves]



	Structural Engineering
	Civil Engineering
	CDM Consultants
	Sustainability and BREEAM
	Traffic and Transport
	Flood Risk Assessments
	Highway Engineering
	Event Engineering

Issue and Amendment Record:

Revision	Comment/Amendment	Prepared	Reviewed	Approved	Date
01	Draft - First Issue	TK	TK	NG	17.10.22

Contents

1.0	Introduction	3
2.0	Drainage	3
3.0	Appendices	4

1.0 Introduction

1.1 Location and context

Scott White and Hookins have been instructed by Harwoods Group to undertake a drainage report to assist in discharging planning conditions for a proposed extension to their existing workshop.

This site is located at Brickfield Lane, Chandlers Ford, SO53 4DP and had an O.S Land Ranger Grid Reference of SU 431 200.

The Proposed development comprises the extension of an existing steel framed workshop building plus associated drainage and external works. The existing topography survey of the proposed development area and drawings of the existing site can be found in **Appendix A**. The proposed site plan is provided at **Appendix B**.

This drainage report covers calculations and a drawing produced to indicate the current drainage capacity for the site and for its capability of discharging the proposed development.

2.0 Drainage

2.1 Existing Drainage

Existing surface water drainage from the roof of the building is collected by 4 No. rainwater pipes and discharges into a drainage channel which runs along three sides of the existing building. The existing car park area is laid with impermeable tarmac which falls towards the same drainage channel, this channel outfalls into the existing highway drainage via connection pipe.

The existing site impermeable area (roof and car park) is 0.181ha.

The existing drainage channel (indicated as swale on the calculations) is 51m long falling at a gradient of 1:181 and a depth of 200mm.

2.2 Proposed Drainage Strategy

Surface water

Runoff from the additional area of roof will drain via rainwater pipes and connect to the existing system, via extended drainage channels.

These additional drainage channels are not required for the additional roof space but purely to convey the surface water around the side of the proposed extension and to prevent any exceedance flows entering the building.

There will be no increase in the volume of water runoff as the proposed area of the new building is currently hard paved. This can be seen in the drainage calculations under **Appendix C**.

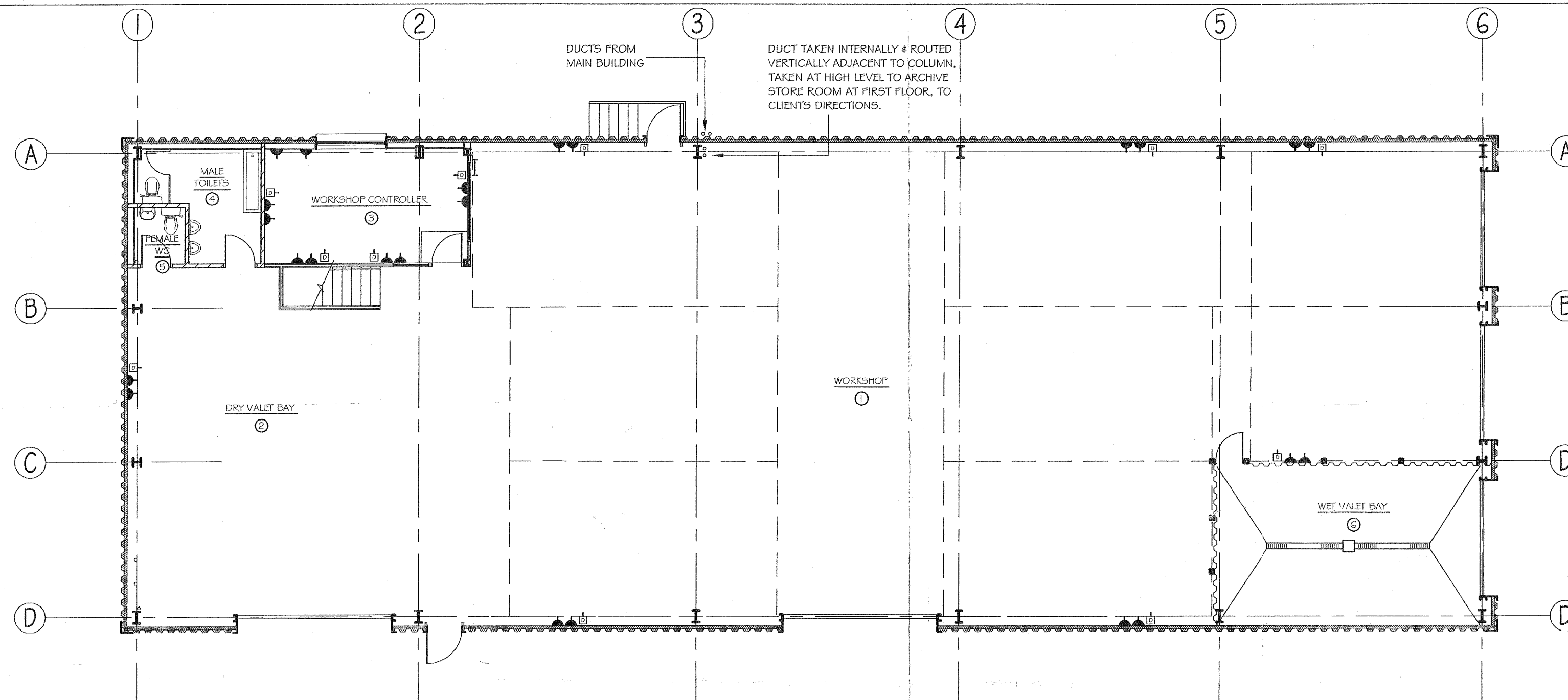
The existing ground levels are higher than the proposed floor level of the extension, so it will be necessary to create an upstand around the perimeter, or regrade the exiting paving, and provide a perimeter drain to avoid surface water coming back into the building. **Appendix D**.

3.0 Appendices

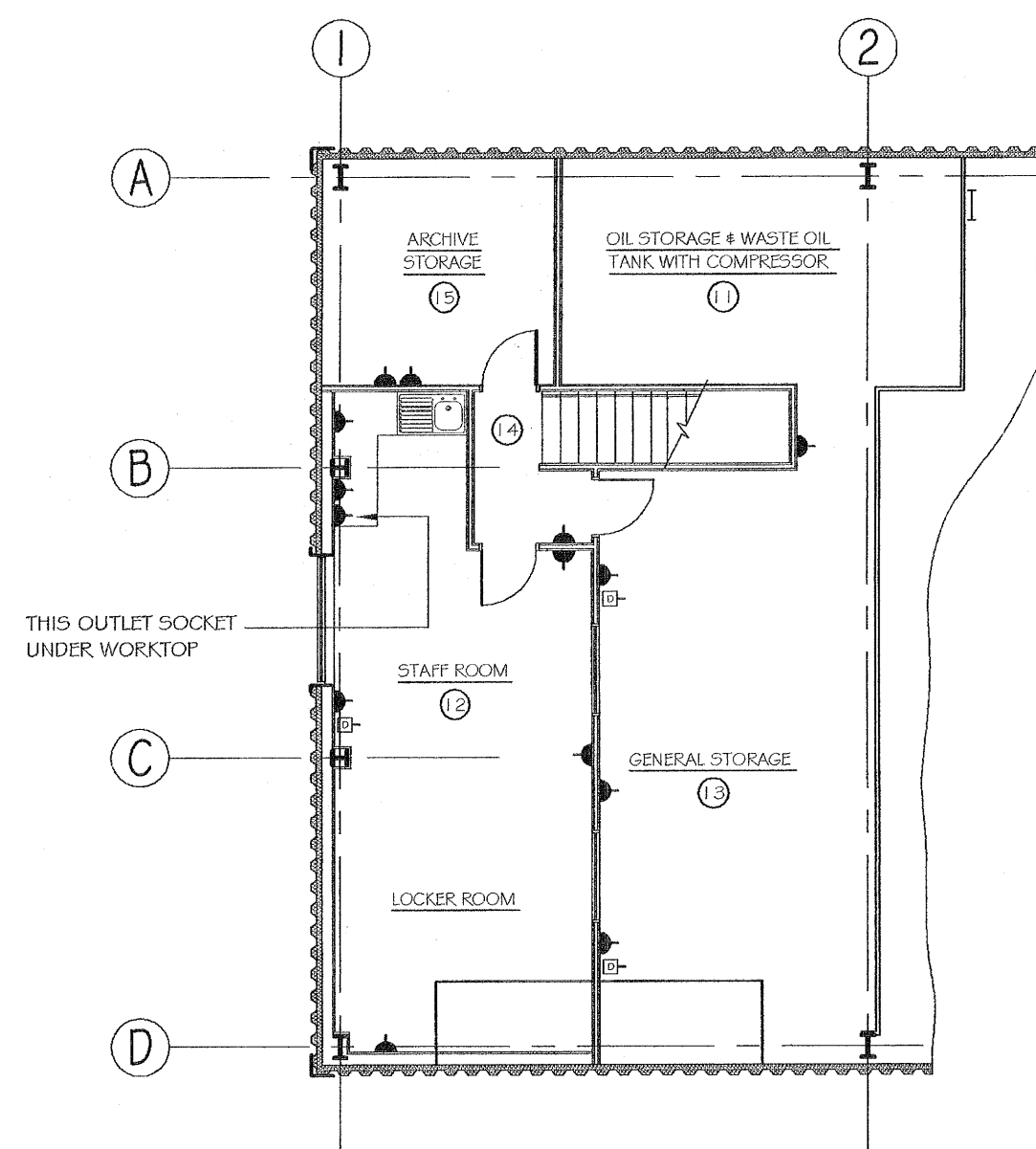
- A. Existing topography survey and existing drawings
- B. Proposed site layout
- C. Drainage calculations
- D. Drainage layout

Appendix A

Existing topography survey and Existing Building Drawings



GROUND FLOOR PLAN



FIRST FLOOR PLAN

LEGEND

- ▲ TWIN 13 AMP SWITCHED OUTLET SOCKET
- DATA OUTLET, TELEPHONE & POWER IN RJ 45 SOCKETS

B- AMENDED & RE-ISSUED FOR TENDER. - SEP 2006
A- ISSUED FOR QUOTATION - JUNE 2006

peter harry
DESIGNS
BUILDING
DESIGN
CONSULTANTS
023 80871290

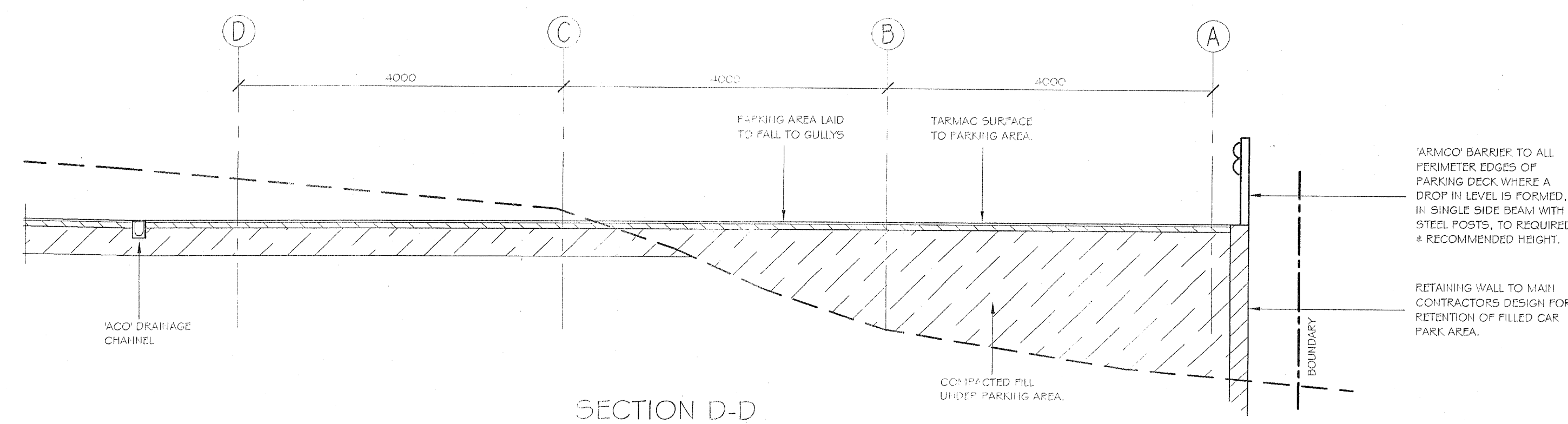
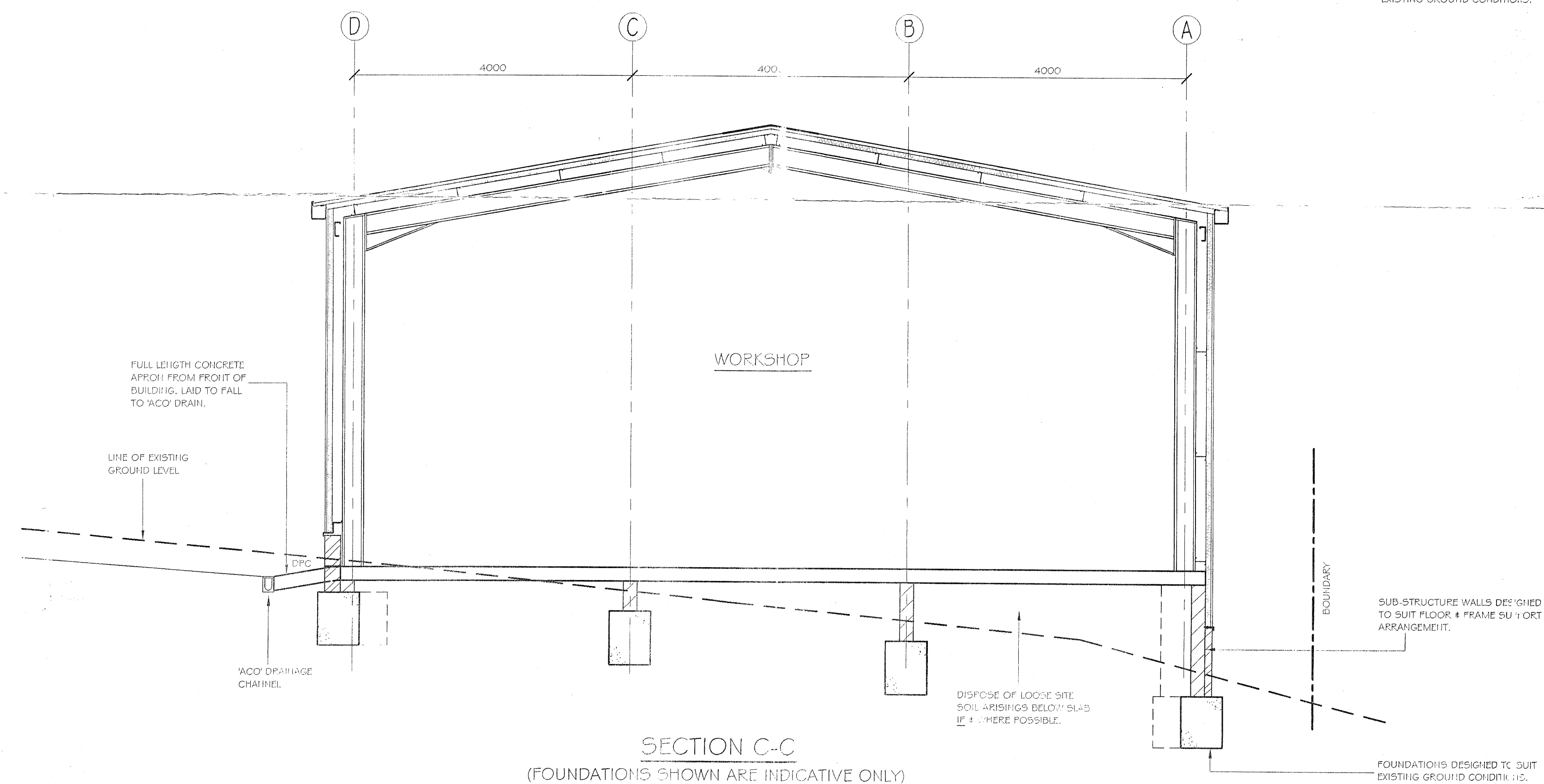
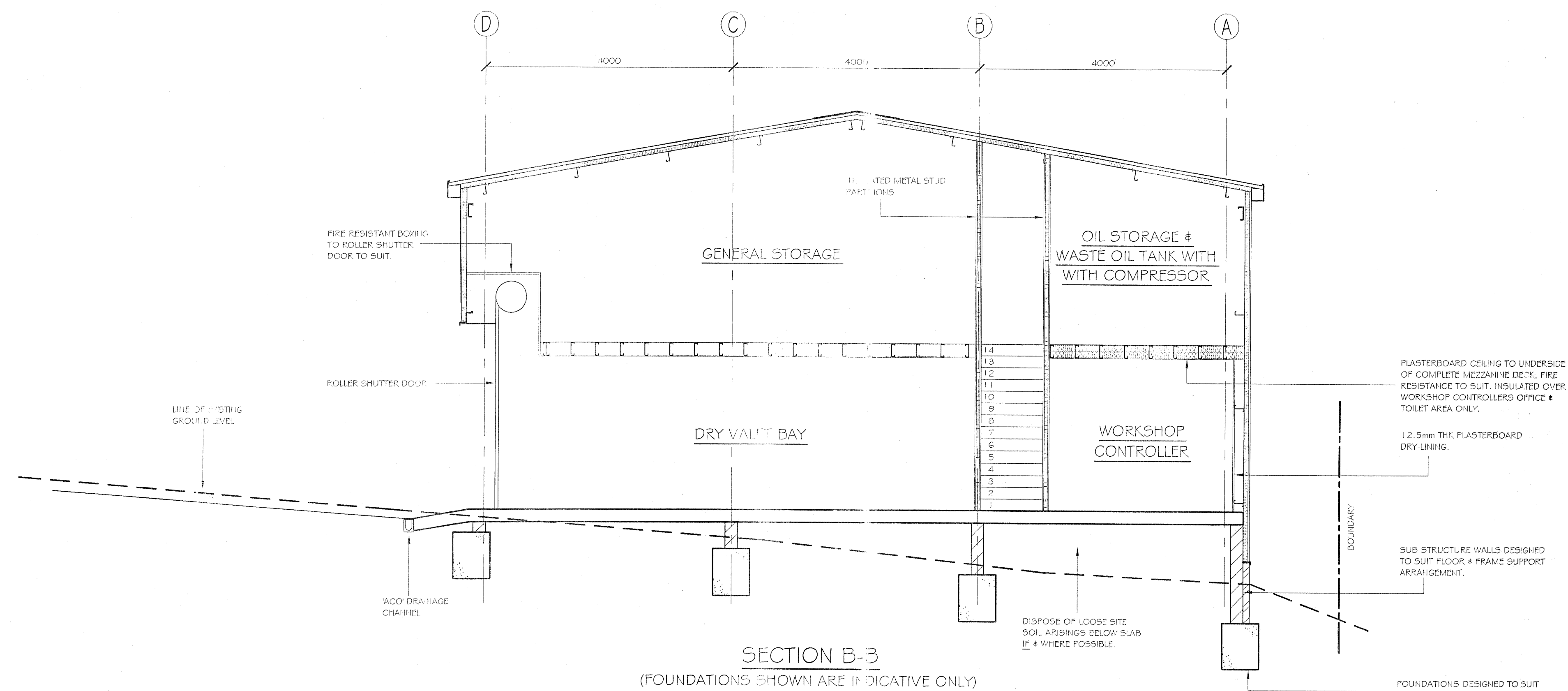
CAR WORKSHOP & VALET BAY BUILDING,
ASSOCIATED & ANCILLARY PARKING WITH
INTERCONNECTED ROADWAY AND REPOSITIONED
'ATLANTIC HOUSE' PARKING

for SOUTHAMPTON AUDI
at FORMER 'FARLING HOUSE'
BRICKFIELD LANE
CHANDLERS FORD
HAMPSHIRE

GROUND & FIRST FLOOR POWER/DATA
OUTLET POSITIONS

Rev. B

scale	date	drm.	drg. no.
1:100	JUNE 2006	BPC/RJB	1453



C- AMENDED & ISSUED FOR RE-TENDER. - SEP 2006
 B- ISSUED FOR TENDER. - JUNE 2006
 A- AMENDED TO COMMENTS. - MAY 2006

peter harr
DESIGNS
 BUILDING
 DESIGN
 CONSULTANTS
 023 80871290

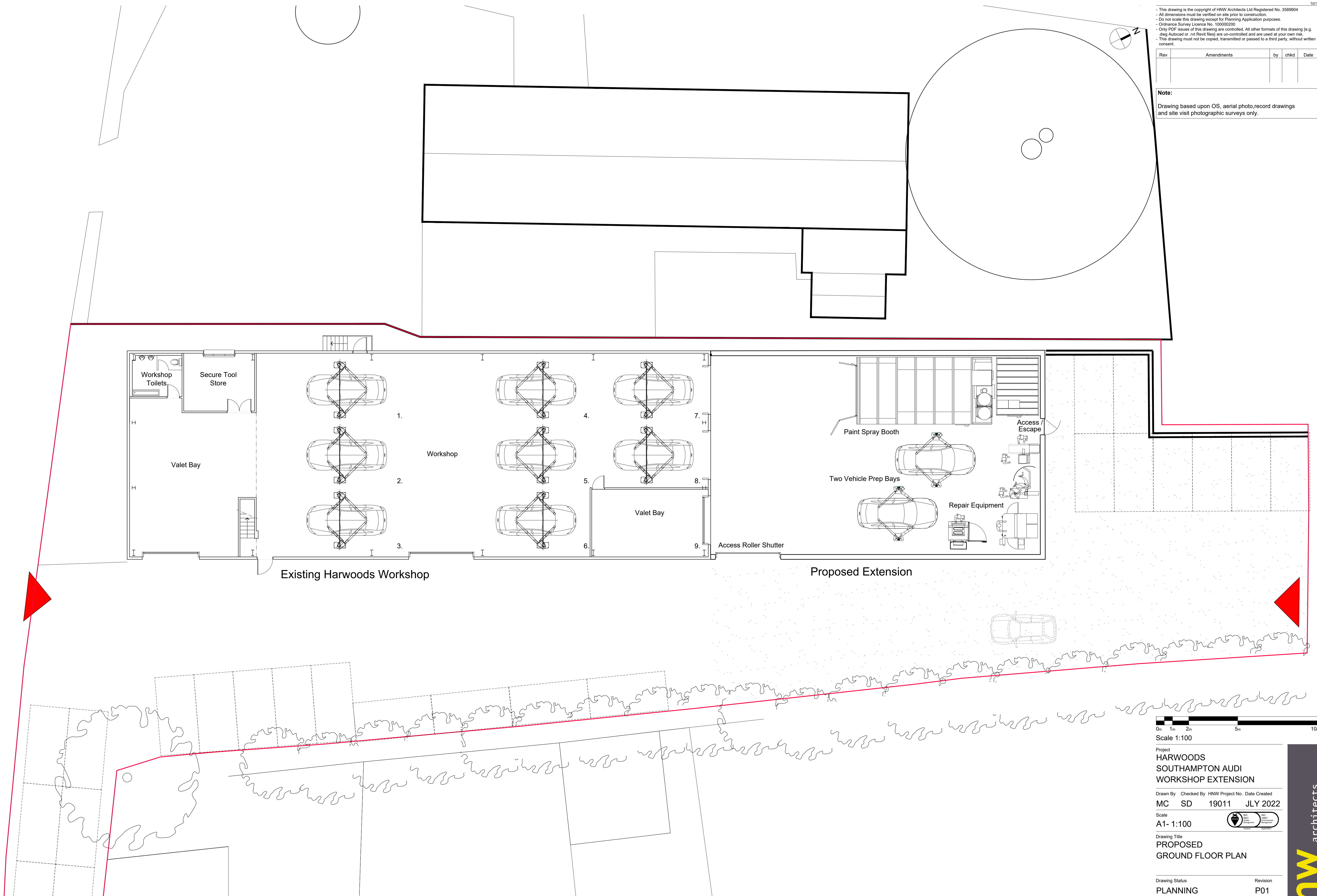
CAR WORKSHOP & VALET BAY BUILDING,
 ASSOCIATED & ANCILLARY PARKING WITH
 INTERCONNECTED ROADWAY AND REPOSITIONED
 'ATLANTIC HOUSE' PARKING

for SOUTHAMPTON AUDI
 at FORMER 'FARLING HOUSE'
 BRICKFIELD LANE
 CHANDLERS FORD
 HAMPSHIRE

SECTIONS	date	drn.	Rev. C
scale 1:50	MAY 2006	BPC/RJB	1439

Appendix B

Proposed site layout



Ground Floor Plan - As Proposed

100118

- This drawing is the copyright of HNW Architects Ltd Registered No. 35899004

- All dimensions must be verified on site prior to construction.

- Do not scale this drawing except for Planning Application purposes.

- Ordnance Survey Licence No. 100000200

- Only PDF issues of this drawing are controlled. All other formats of this drawing (e.g. .dwg Autocad or .rvt Revit files) are un-controlled and are used at your own risk.

- This drawing must not be copied, transmitted or passed to a third party, without written consent.

Rev	Amendments	by	chkd	Date

Note:

Drawing based upon OS, aerial photo, record drawings and site visit photographic surveys only.

0m1m2m5m10m

Scale 1:100

Project

HARWOODS
SOUTHAMPTON AUDI
WORKSHOP EXTENSION

Drawn By

MC

Checked By

SD

HNW Project No.

19011

Date Created

JLY 2022

Scale

A1- 1:100

Drawing Title

PROPOSED
GROUND FLOOR PLAN

Drawing Status

PLANNING

Revision

P01

Drawing Number

19011-HNW-ZZ-ZZ-DR-A-2200

61 North Street, Chichester, West Sussex, PO19 1JH

hnw

architects

Appendix C

Drainage calculations

Scott White and Hookins							Page 1
St Nicholas House St Nicholas Road Sutton SM1 1EL				Designed by tkillingback Checked by			
Date 17/10/2022 13:51 File							
Micro Drainage				Source Control 2020.1.3			
Summary of Results for 100 year Return Period (+40%)							
Half Drain Time : 0 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	33.753	0.103	0.0	108.4	108.4	1.0	O K
30 min Summer	33.700	0.050	0.0	99.5	99.5	0.2	O K
60 min Summer	33.650	0.000	0.0	74.8	74.8	0.0	O K
120 min Summer	33.650	0.000	0.0	49.5	49.5	0.0	O K
180 min Summer	33.650	0.000	0.0	37.7	37.7	0.0	O K
240 min Summer	33.650	0.000	0.0	30.6	30.6	0.0	O K
360 min Summer	33.650	0.000	0.0	22.5	22.5	0.0	O K
480 min Summer	33.650	0.000	0.0	18.1	18.1	0.0	O K
600 min Summer	33.650	0.000	0.0	15.2	15.2	0.0	O K
720 min Summer	33.650	0.000	0.0	13.3	13.3	0.0	O K
960 min Summer	33.650	0.000	0.0	10.6	10.6	0.0	O K
1440 min Summer	33.650	0.000	0.0	7.7	7.7	0.0	O K
2160 min Summer	33.650	0.000	0.0	5.6	5.6	0.0	O K
2880 min Summer	33.650	0.000	0.0	4.5	4.5	0.0	O K
4320 min Summer	33.650	0.000	0.0	3.3	3.3	0.0	O K
5760 min Summer	33.650	0.000	0.0	2.6	2.6	0.0	O K
7200 min Summer	33.650	0.000	0.0	2.2	2.2	0.0	O K
8640 min Summer	33.650	0.000	0.0	1.9	1.9	0.0	O K
10080 min Summer	33.650	0.000	0.0	1.7	1.7	0.0	O K
15 min Winter	33.750	0.100	0.0	108.0	108.0	1.0	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Discharge Volume (m³)	Time-Peak (mins)			
15 min Summer	130.405	0.0	43.5	10			
30 min Summer	87.611	0.0	59.3	17			
60 min Summer	56.129	0.0	76.2	0			
120 min Summer	34.675	0.0	94.1	0			
180 min Summer	25.749	0.0	104.9	0			
240 min Summer	20.687	0.0	112.3	0			
360 min Summer	15.234	0.0	124.1	0			
480 min Summer	12.237	0.0	132.9	0			
600 min Summer	10.316	0.0	140.0	0			
720 min Summer	8.967	0.0	146.1	0			
960 min Summer	7.182	0.0	156.0	0			
1440 min Summer	5.242	0.0	170.8	0			
2160 min Summer	3.818	0.0	186.6	0			
2880 min Summer	3.045	0.0	198.4	0			
4320 min Summer	2.209	0.0	215.9	0			
5760 min Summer	1.757	0.0	229.0	0			
7200 min Summer	1.472	0.0	239.8	0			
8640 min Summer	1.274	0.0	249.1	0			
10080 min Summer	1.128	0.0	257.3	0			
15 min Winter	130.405	0.0	50.1	10			
©1982-2020 Innovyze							

Scott White and Hookins							Page 2
St Nicholas House St Nicholas Road Sutton SM1 1EL							
Date 17/10/2022 13:51 File		Designed by tkillingback Checked by					
Micro Drainage			Source Control 2020.1.3				
<u>Summary of Results for 100 year Return Period (+40%)</u>							
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
30 min Winter	33.666	0.016	0.0	88.9	88.9	0.0	O K
60 min Winter	33.650	0.000	0.0	58.8	58.8	0.0	O K
120 min Winter	33.650	0.000	0.0	36.8	36.8	0.0	O K
180 min Winter	33.650	0.000	0.0	27.5	27.5	0.0	O K
240 min Winter	33.650	0.000	0.0	22.1	22.1	0.0	O K
360 min Winter	33.650	0.000	0.0	16.3	16.3	0.0	O K
480 min Winter	33.650	0.000	0.0	13.1	13.1	0.0	O K
600 min Winter	33.650	0.000	0.0	11.0	11.0	0.0	O K
720 min Winter	33.650	0.000	0.0	9.6	9.6	0.0	O K
960 min Winter	33.650	0.000	0.0	7.7	7.7	0.0	O K
1440 min Winter	33.650	0.000	0.0	5.6	5.6	0.0	O K
2160 min Winter	33.650	0.000	0.0	4.1	4.1	0.0	O K
2880 min Winter	33.650	0.000	0.0	3.3	3.3	0.0	O K
4320 min Winter	33.650	0.000	0.0	2.4	2.4	0.0	O K
5760 min Winter	33.650	0.000	0.0	1.9	1.9	0.0	O K
7200 min Winter	33.650	0.000	0.0	1.6	1.6	0.0	O K
8640 min Winter	33.650	0.000	0.0	1.4	1.4	0.0	O K
10080 min Winter	33.650	0.000	0.0	1.2	1.2	0.0	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Discharge Volume (m³)	Time-Peak (mins)			
30 min Winter	87.611	0.0	66.5	17			
60 min Winter	56.129	0.0	85.3	0			
120 min Winter	34.675	0.0	105.4	0			
180 min Winter	25.749	0.0	117.4	0			
240 min Winter	20.687	0.0	125.8	0			
360 min Winter	15.234	0.0	139.0	0			
480 min Winter	12.237	0.0	148.8	0			
600 min Winter	10.316	0.0	156.8	0			
720 min Winter	8.967	0.0	163.6	0			
960 min Winter	7.182	0.0	174.7	0			
1440 min Winter	5.242	0.0	191.3	0			
2160 min Winter	3.818	0.0	209.0	0			
2880 min Winter	3.045	0.0	222.2	0			
4320 min Winter	2.209	0.0	241.9	0			
5760 min Winter	1.757	0.0	256.5	0			
7200 min Winter	1.472	0.0	268.6	0			
8640 min Winter	1.274	0.0	279.0	0			
10080 min Winter	1.128	0.0	288.2	0			
©1982-2020 Innovyze							

Scott White and Hookins		Page 3																																	
St Nicholas House St Nicholas Road Sutton SM1 1EL																																			
Date 17/10/2022 13:51 File	Designed by tkillingback Checked by																																		
Micro Drainage		Source Control 2020.1.3																																	
<u>Rainfall Details</u> <table> <tr> <td>Rainfall Model</td> <td>FSR</td> <td>Winter Storms</td> <td>Yes</td> </tr> <tr> <td>Return Period (years)</td> <td>100</td> <td>Cv (Summer)</td> <td>0.750</td> </tr> <tr> <td>Region</td> <td>England and Wales</td> <td>Cv (Winter)</td> <td>0.840</td> </tr> <tr> <td>M5-60 (mm)</td> <td>19.800</td> <td>Shortest Storm (mins)</td> <td>15</td> </tr> <tr> <td>Ratio R</td> <td>0.350</td> <td>Longest Storm (mins)</td> <td>10080</td> </tr> <tr> <td>Summer Storms</td> <td>Yes</td> <td>Climate Change %</td> <td>+40</td> </tr> </table> <u>Time Area Diagram</u> Total Area (ha) 0.181 <table> <tr> <th colspan="2">Time (mins)</th> <th>Area</th> </tr> <tr> <th>From:</th> <th>To:</th> <th>(ha)</th> </tr> <tr> <td>0</td> <td>4</td> <td>0.181</td> </tr> </table>			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)	19.800	Shortest Storm (mins)	15	Ratio R	0.350	Longest Storm (mins)	10080	Summer Storms	Yes	Climate Change %	+40	Time (mins)		Area	From:	To:	(ha)	0	4	0.181
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)	19.800	Shortest Storm (mins)	15																																
Ratio R	0.350	Longest Storm (mins)	10080																																
Summer Storms	Yes	Climate Change %	+40																																
Time (mins)		Area																																	
From:	To:	(ha)																																	
0	4	0.181																																	
©1982-2020 Innovyze																																			

Scott White and Hookins		Page 4																																								
St Nicholas House St Nicholas Road Sutton SM1 1EL																																										
Date 17/10/2022 13:51 File	Designed by tkillingback Checked by																																									
Micro Drainage		Source Control 2020.1.3																																								
<u>Model Details</u> Storage is Online Cover Level (m) 33.850 <u>Swale Structure</u> <table> <tr> <td>Infiltration Coefficient Base (m/hr)</td> <td>0.00000</td> <td>Length (m)</td> <td>65.0</td> </tr> <tr> <td>Infiltration Coefficient Side (m/hr)</td> <td>0.00000</td> <td>Side Slope (1:X)</td> <td>1.0</td> </tr> <tr> <td>Safety Factor</td> <td>2.0</td> <td>Slope (1:X)</td> <td>181.0</td> </tr> <tr> <td>Porosity</td> <td>1.00</td> <td>Cap Volume Depth (m)</td> <td>0.000</td> </tr> <tr> <td>Invert Level (m)</td> <td>33.650</td> <td>Cap Infiltration Depth (m)</td> <td>0.000</td> </tr> <tr> <td>Base Width (m)</td> <td>1.0</td> <td></td> <td></td> </tr> </table> <u>Pipe Outflow Control</u> <table> <tr> <td>Diameter (m)</td> <td>0.300</td> <td>Entry Loss Coefficient</td> <td>0.500</td> </tr> <tr> <td>Slope (1:X)</td> <td>80.0</td> <td>Coefficient of Contraction</td> <td>0.600</td> </tr> <tr> <td>Length (m)</td> <td>13.500</td> <td>Upstream Invert Level (m)</td> <td>33.270</td> </tr> <tr> <td>Roughness k (mm)</td> <td>0.600</td> <td></td> <td></td> </tr> </table>			Infiltration Coefficient Base (m/hr)	0.00000	Length (m)	65.0	Infiltration Coefficient Side (m/hr)	0.00000	Side Slope (1:X)	1.0	Safety Factor	2.0	Slope (1:X)	181.0	Porosity	1.00	Cap Volume Depth (m)	0.000	Invert Level (m)	33.650	Cap Infiltration Depth (m)	0.000	Base Width (m)	1.0			Diameter (m)	0.300	Entry Loss Coefficient	0.500	Slope (1:X)	80.0	Coefficient of Contraction	0.600	Length (m)	13.500	Upstream Invert Level (m)	33.270	Roughness k (mm)	0.600		
Infiltration Coefficient Base (m/hr)	0.00000	Length (m)	65.0																																							
Infiltration Coefficient Side (m/hr)	0.00000	Side Slope (1:X)	1.0																																							
Safety Factor	2.0	Slope (1:X)	181.0																																							
Porosity	1.00	Cap Volume Depth (m)	0.000																																							
Invert Level (m)	33.650	Cap Infiltration Depth (m)	0.000																																							
Base Width (m)	1.0																																									
Diameter (m)	0.300	Entry Loss Coefficient	0.500																																							
Slope (1:X)	80.0	Coefficient of Contraction	0.600																																							
Length (m)	13.500	Upstream Invert Level (m)	33.270																																							
Roughness k (mm)	0.600																																									
©1982-2020 Innovyze																																										

Scott White and Hookins							Page 2
St Nicholas House St Nicholas Road Sutton SM1 1EL							
Date 17/10/2022 14:44 File SW - Proposed Impermeab...							
			Designed by tkillingback Checked by				
Micro Drainage			Source Control 2020.1.3				
<u>Summary of Results for 100 year Return Period (+40%)</u>							
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
30 min Winter	33.666	0.016	0.0	88.9	88.9	0.0	O K
60 min Winter	33.650	0.000	0.0	58.8	58.8	0.0	O K
120 min Winter	33.650	0.000	0.0	36.8	36.8	0.0	O K
180 min Winter	33.650	0.000	0.0	27.5	27.5	0.0	O K
240 min Winter	33.650	0.000	0.0	22.1	22.1	0.0	O K
360 min Winter	33.650	0.000	0.0	16.3	16.3	0.0	O K
480 min Winter	33.650	0.000	0.0	13.1	13.1	0.0	O K
600 min Winter	33.650	0.000	0.0	11.0	11.0	0.0	O K
720 min Winter	33.650	0.000	0.0	9.6	9.6	0.0	O K
960 min Winter	33.650	0.000	0.0	7.7	7.7	0.0	O K
1440 min Winter	33.650	0.000	0.0	5.6	5.6	0.0	O K
2160 min Winter	33.650	0.000	0.0	4.1	4.1	0.0	O K
2880 min Winter	33.650	0.000	0.0	3.3	3.3	0.0	O K
4320 min Winter	33.650	0.000	0.0	2.4	2.4	0.0	O K
5760 min Winter	33.650	0.000	0.0	1.9	1.9	0.0	O K
7200 min Winter	33.650	0.000	0.0	1.6	1.6	0.0	O K
8640 min Winter	33.650	0.000	0.0	1.4	1.4	0.0	O K
10080 min Winter	33.650	0.000	0.0	1.2	1.2	0.0	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Discharge Volume (m³)	Time-Peak (mins)			
30 min Winter	87.611	0.0	66.5	17			
60 min Winter	56.129	0.0	85.3	0			
120 min Winter	34.675	0.0	105.4	0			
180 min Winter	25.749	0.0	117.4	0			
240 min Winter	20.687	0.0	125.8	0			
360 min Winter	15.234	0.0	139.0	0			
480 min Winter	12.237	0.0	148.8	0			
600 min Winter	10.316	0.0	156.8	0			
720 min Winter	8.967	0.0	163.6	0			
960 min Winter	7.182	0.0	174.7	0			
1440 min Winter	5.242	0.0	191.3	0			
2160 min Winter	3.818	0.0	209.0	0			
2880 min Winter	3.045	0.0	222.2	0			
4320 min Winter	2.209	0.0	241.9	0			
5760 min Winter	1.757	0.0	256.5	0			
7200 min Winter	1.472	0.0	268.6	0			
8640 min Winter	1.274	0.0	279.0	0			
10080 min Winter	1.128	0.0	288.2	0			
©1982-2020 Innovyze							

Scott White and Hookins		Page 3																																	
St Nicholas House St Nicholas Road Sutton SM1 1EL																																			
Date 17/10/2022 14:44	Designed by tkillingback																																		
File SW - Proposed Impermeab...	Checked by																																		
Micro Drainage		Source Control 2020.1.3																																	
<u>Rainfall Details</u> <table> <tr> <td>Rainfall Model</td> <td>FSR</td> <td>Winter Storms</td> <td>Yes</td> </tr> <tr> <td>Return Period (years)</td> <td>100</td> <td>Cv (Summer)</td> <td>0.750</td> </tr> <tr> <td>Region</td> <td>England and Wales</td> <td>Cv (Winter)</td> <td>0.840</td> </tr> <tr> <td>M5-60 (mm)</td> <td>19.800</td> <td>Shortest Storm (mins)</td> <td>15</td> </tr> <tr> <td>Ratio R</td> <td>0.350</td> <td>Longest Storm (mins)</td> <td>10080</td> </tr> <tr> <td>Summer Storms</td> <td>Yes</td> <td>Climate Change %</td> <td>+40</td> </tr> </table> <u>Time Area Diagram</u> Total Area (ha) 0.181 <table> <tr> <th colspan="2">Time (mins)</th> <th>Area</th> </tr> <tr> <th>From:</th> <th>To:</th> <th>(ha)</th> </tr> <tr> <td>0</td> <td>4</td> <td>0.181</td> </tr> </table>			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)	19.800	Shortest Storm (mins)	15	Ratio R	0.350	Longest Storm (mins)	10080	Summer Storms	Yes	Climate Change %	+40	Time (mins)		Area	From:	To:	(ha)	0	4	0.181
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)	19.800	Shortest Storm (mins)	15																																
Ratio R	0.350	Longest Storm (mins)	10080																																
Summer Storms	Yes	Climate Change %	+40																																
Time (mins)		Area																																	
From:	To:	(ha)																																	
0	4	0.181																																	
©1982-2020 Innovyze																																			

Scott White and Hookins		Page 4
St Nicholas House St Nicholas Road Sutton SM1 1EL		
Date 17/10/2022 14:44 File SW - Proposed Impermeab...	Designed by tkillingback Checked by	
Micro Drainage Source Control 2020.1.3		

Model Details

Storage is Online Cover Level (m) 33.850

Swale Structure

Infiltration Coefficient Base (m/hr)	0.00000	Length (m)	86.0
Infiltration Coefficient Side (m/hr)	0.00000	Side Slope (1:X)	1.0
Safety Factor	2.0	Slope (1:X)	181.0
Porosity	1.00	Cap Volume Depth (m)	0.000
Invert Level (m)	33.650	Cap Infiltration Depth (m)	0.000
Base Width (m)	1.0		

Pipe Outflow Control

Diameter (m)	0.300	Entry Loss Coefficient	0.500
Slope (1:X)	80.0	Coefficient of Contraction	0.600
Length (m)	13.500	Upstream Invert Level (m)	33.270
Roughness k (mm)	0.600		

©1982-2020 Innovyze

Appendix D

Proposed drainage layout



Notes

GENERAL

- This drawing is to be read in conjunction with all relevant Engineers and Architects drawings and with the Specification.
- For setting out refer to Architects drawings.
- All dimensions are in millimetres and levels are in metres unless noted otherwise.
- Contractor to take all relevant dimensions on site. Any discrepancies to be advised to the Engineer.
- Contractor to check/scan for services prior to construction to avoid any damage during works.
- This drawing is based on HNW Architects plan dated September 2022

KEY

- Existing outfall pipe connection to highway drainage
- Existing drainage channel to be kept
- Existing drainage channel to be broken out and removed to tip off site
- Proposed drainage channel around building extension to pick up additional roof drainage.

Existing rainwater downpipe to be relocated to end of the proposed extension.

Proposed building extension additional roof area approx. 265m²

Existing aco drainage channel to be broken out and removed offsite to tip.

Existing rainwater downpipe to remain and collect roof water from proposed building extension.

Existing Building Roof area approx. 470m²

PRELIMINARY - NOT FOR CONSTRUCTION

P01	Preliminary Issue	RD	TK	NG	17.10.22
Rev	Amendment	Dm	Chkd	Appd	Date

Project
Southampton Audi Winstone Building

Drawing

Drainage Strategy

Client
Harwoods Limited

Scott White and Hookins
Structural Engineering Civil Engineering Sustainability and BREEAM CDM Consultancy

Harman House, Andover Road, Winchester, Hampshire SO23 7BS
T: +44 (0)1962 844855 W: www.swh.co.uk E: info@swh.co.uk

Scale at A1 - 1:200

303916-SWH-XX-XX-DR-C-0500-P01

Project | Originator | Zone | Level | Type | Role | Number | Rev.

CP004-01_FM_ST_008_D

DO NOT SCALE FROM THIS DRAWING