

Robert Clark

Chartered Civil Engineer

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Paul Cann
Senior Engineer, Drainage and Coastal
Engineering Services
Arun District Council
Arun Civic Centre
Maltravers Road
Littlehampton
West Sussex
BN17 5LF

Our Ref: 2031/RTFC

Your Ref:

19 May 2020

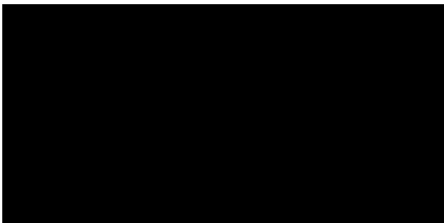
Dear Paul

Rond Point, Ham Manor Way, Angmering, West Sussex BN16 4JQ

On behalf of our client, please find enclosed an application for Ordinary Watercourse Land Drainage Consent.

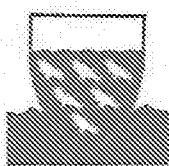
We look forward to hearing from you.

Yours sincerely



Robert Clark

Willow Cottage, Herne Lane, Rustington, West Sussex BN16 3EE



West Sussex Flood Risk Partnership

Application for Ordinary Watercourse Land Drainage Consent [1a]

Introduction

Before completing this form you are recommended to contact us for advice on your proposal.

Please read through the guidance notes and the application form carefully before you fill the form in.

It should take you about 20 mins to fill in this form and it can be completed online

If you are not sure about anything in this form, contact your Local District or Borough Council using the details at the bottom of this form.

Contents

- 1.About you, the applicant
- 2.Your address
- 3.Agent or Consultants details
- 4.Interest in the Land
- 5.Location of Work
- 6.Description and Purpose of Proposed Work
- 7.Plans and Sections
- 8.Construction Details
- 9.Environment Agency Interests
- 10.Planning Approvals
- 11.Maintenance of Structure
- 12.Effects on the Environment
- 13.Fees
- 14.Checklist
- 15.Declaration

1 The Applicant

Are you applying as a company, an individual, a group of individuals (partnership) or a public body? Please tick the appropriate box.

- | | | |
|-----------------------------|-------------------------------------|-------------------|
| Company | ☐ | Go to section 1.1 |
| Individual | ☒ | Go to section 1.2 |
| Group of individuals | ☐ | Go to section 1.3 |
| Public body | ☐ | Go to section 1.4 |

1.1 Applications from companies

To apply as a company, you must be formally registered with Companies House. Please see Companies House website for more information.

Company name, as registered with Companies House

Company registration number

Office address registered with Companies House

Address

Postcode _____

Country _____

Contact telephone numbers, including the area code

Phone _____
Mobile _____
Email _____

Now go straight to section 3.

1.2 Applications from individuals

Give your full name.

Title (Mr, Mrs, Miss etc) Mrs

First name KATHERINE

Last name JONES

Now go straight to section 2.

1.3 Applications from groups of individuals

What type of group are you?

Charity ☐

Group of individuals ☐

Club ☐

Partnership ☐

Other ☐

Name of your group

Give details of your group's main representative

Title (Mr, Mrs, Miss etc) _____

First name _____

Last name _____

Position _____

Now go straight to section 2.

West Sussex Flood Risk Partnership – Please contact your Local Authority Land Drainage Team

7 Plans and Sections:

7.1 Please provide a description and reference number of all plans and sections you have provided (see the guidance notes). Please attach separate sheets if required

2031/1.2 SURFACE WATER
DRAINAGE LAYOUT

2031/1.2 SURFACE WATER
DRAINAGE CONSTRUCTION
DETAILS

8 Construction Details

8.1 Are the works permanent or Temporary?

Permanent ☒ X
Temporary, ☐ if so;
for how long? -----

8.2 Date Construction Work is proposed to start?

Date (DD/MM/YYYY) 01/08/2020

9 Environment Agency Interests

9.1 Do the proposed works involve or affect the following?

Impounding (holding back a watercourse) ☐
Abstracting (removing) Water ☐
Fish or fisheries ☐
Disposing of Waste Material ☐
Water Quality ☐

If yes, please contact the Environment Agency on 03708 506 506

10 Planning Approvals

Fill in this Section if you have been given planning permission for the proposed works. Otherwise go to Section 11.

10.1 Planning Authority

10.2 Application Number

10.3 Approval Date

Date (DD/MM/YYYY) : -----

11 Maintaining the Structure

11.1 Name of Person or Organisation responsible for maintaining the structure

During Construction APPLICANT

Upon Completion APPLICANT

12 Effects on the Environment

12.1 Please attach brief details of any effects the work will have on the environment together with any proposals for improvements you will make or action you will take to mitigate/compensate for the effects.

WORKS WILL MAINTAIN
CAND DRAINAGE FLOOD
PATH

13 Fees

Our Ordinary Watercourse Consent fees are set at £150 per structure or application and should be made out to the appropriate District or Borough Council; please contact us for any queries or multiple applications. Additional fees may be charged for complex / involved applications.

14 Checklist

Please read through this list and tick the items you are sending with this application.

Completed Form ☒
Any associated documents, plans and calculations ☒
Applicable Fee ☒
Environmental/Ecological Reports ☐
Method Statement ☐

The Data Protection Act 1998

The Data Protection Act 1998

We will process the information you provide so that we can deal with your enquiry.

We may also process or release the information to:

- offer you documents or services relating to environmental matters;
- consult the public, public organisations and other organisations (for example, the Health and Safety Executive, local authorities, the emergency services, Welsh Government
- carry out research into environmental issues and develop solutions to problems;
- provide information from the public register to anyone who asks;
- prevent anyone from breaking environmental law, investigate cases where environmental law may have been broken, and take any action that is needed;
- assess whether customers are satisfied with our service and improve it where necessary; and
- respond to requests for information under the Freedom of Information Act 2000 and the Environmental Information Regulations 2004 (taking into account any exemptions under the General Data Protection Regulation).

We may pass the information on to our agents or representatives to do these things for us.

15 Declaration

By signing below you are declaring that, as far as you know, the information given in this application, including the plan and any supporting documents, is true.

Signature



Title (Mr, Mrs, Miss etc)
First name KATHERINE
Last name JONES
Position OWNER

Today's date 12/05/20

Next steps

Please return this form together with any supporting documents to the Land Drainage Engineer, listed below, in which your application is located.

Adur and Worthing Council

Laura Gibbons

Telephone: [REDACTED]

Email: [REDACTED]

Address: The Town Hall, Chapel Road, Worthing, BN11 1HA

Arun District Council

Paul Cann

Telephone: [REDACTED]

Email: [REDACTED]

Address: Arun Civic Centre, Maltravers Road, Littlehampton, BN17 5LF

Chichester District Council

Paul Cann

Telephone: [REDACTED]

Email: [REDACTED]

Address: Arun Civic Centre, Maltravers Road, Littlehampton, BN17 5LF

Crawley Borough Council

John Braidley

Telephone: [REDACTED]

Email: [REDACTED]

Address: Town Hall, The Boulevard, Crawley RH10 1UZ

Horsham District Council

Martin Brightwell

Telephone: [REDACTED]

Email: [REDACTED]

Address: Parkside, Chart Way, Horsham, RH12 1RL

Mid Sussex District Council

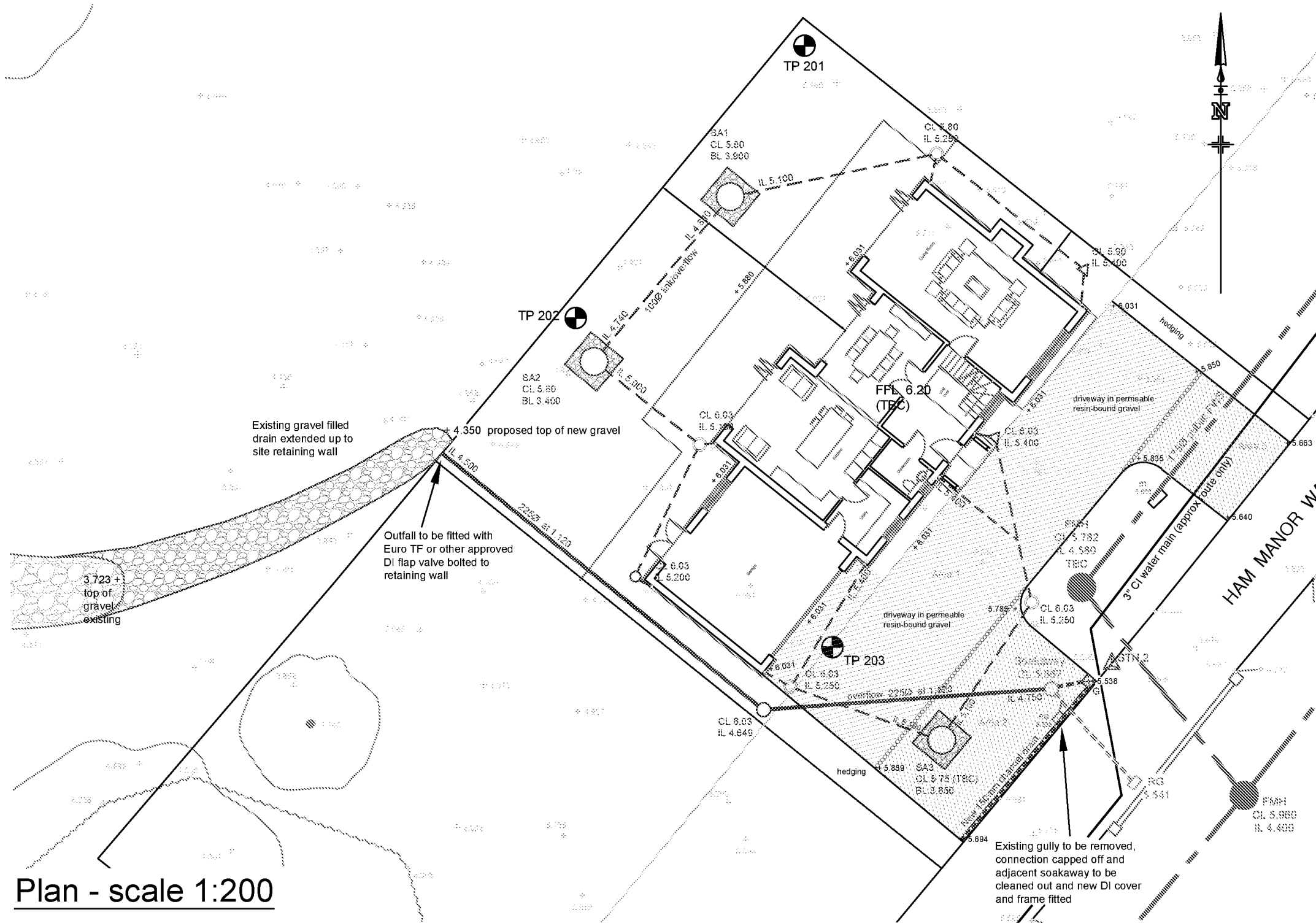
Fiona Bishop

Telephone: [REDACTED]

Email: [REDACTED]

Address: Oaklands Road, Haywards Heath, RH16 1SS

Please tell us if you have any communication needs such as needing information in a different language or alternative format (for example, in large print or in Braille)



Plan - scale 1:200

Surface Water Drainage Design Notes

Ground conditions here comprise a little Topsoil over Head Deposits of brown slightly sandy gravelly clay over the Lewes Nodular Chalk Formation. There was some Made Ground in places. The Head Deposits were found at 0.10 to 0.15m below ground level. The Upper Chalk was encountered as an off-white mottled light orangey brown weak structureless chalk at depths varying between 1.35 and 2.4m below ground level.

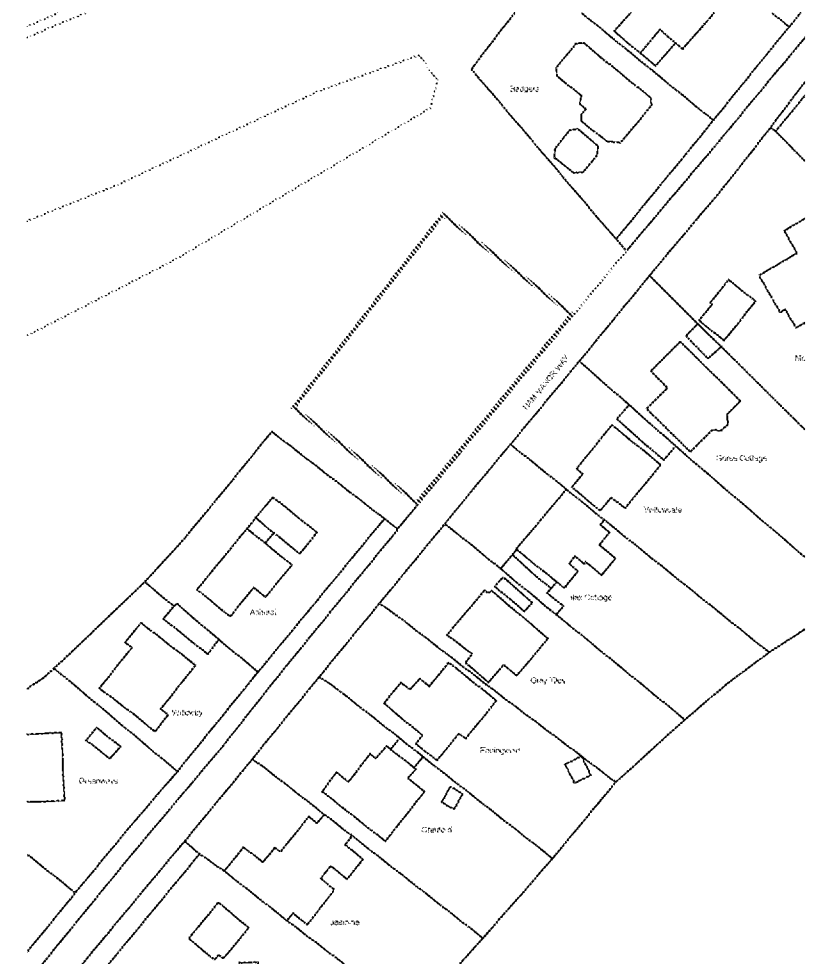
The test pits extended to a maximum of 3.2m below ground level and groundwater was only encountered in the base of the deepest pit during investigations carried out by Land Science in early December 2019. Subsequent groundwater monitoring in two boreholes on the site from early September 2019 to February 2020 showed groundwater levels rising to a maximum of 2.75m below ground level in mid December 2019.

The drainage design is based on percolation tests carried out to BRE 365 in three separate test pits by Land Science in early December 2019. Soil infiltration rates varying between 7.57×10^{-4} m/s and 3.19×10^{-5} m/s were obtained, with the lower values obtained at shallow depth in the Head. The lower of these results has been used in the calculations.

Three 1.2m dia. concrete ring soakaways have been designed as shown. These will collect water from roof areas, with the two in the rear being linked. The design will be suitable to drain the new roof areas without flooding on a 1 in 100 year rainfall event + 40° climate change addition. The front drive will be in permeable resin-bound gravel incorporating a line of concrete stanks 200mm high to retain stored water at the design level - see construction details.

KEY

- Proposed storm drainage 100mm dia at min 1:100
- Existing public foul water sewer
- Proposed 1.2m dia. concrete ring soakaways, depth as specified
- Proposed permeable surfaces
- Existing ground levels in metres AOD
- Cover level of surface water manholes
- Base level of soakaways
- Invert level of surface water drains
- Finished drive levels - Note: minimum of 250mm of CGA to be provided under resin bound surface
- TP 201 Percolation test points
- Proposed 250 Dia. inspection chamber (Osma Shallow or similar approved)
- Proposed 450 Dia. inspection chamber (Osma Universal or similar approved)
- Proposed silt trap inspection chamber
- Proposed C250 channel drain with suitable 150 DI grating
- Proposed 450x900 PE trapped road gully with 150mm Rigidrain connection to existing soakaway
- Proposed 225Ø Rigidrain drainage pipe with suitable 600mmØ inspection chamber
- Proposed line of 200mm high concrete stanks in permeable sub-base - see construction details



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Location Plan - scale 1:1250

NOTE

This drawing had been produced for discharge of planning conditions only. All levels and details to be checked for Building Regulations approval and construction purposes

Percolation Test Results

TP 201 7.57×10^{-4} m/s
TP 202 5.04×10^{-4} m/s
TP 203 3.19×10^{-5} m/s

Note: These are the lowest results from test carried out in each test pit

-	Original	RC	14.5.20
Rev.	Description	Dm.	Date
Project			
Rond Point Ham Manor Way Angmering			
Client			
Mr and Mrs Jones			
Drawing Title			
SW Drainage Layout			
© This drawing is copyright It may not be copied or reproduced without written authority			
Scale		At original	A3
As shown			
Drawing Number		Revision	-
2031/L1.2			

Soakaways in soft landscaped areas

These may be fitted with Class A15 ductile iron covers and frames.

Reinstatement to be topsoil and turf above soakaway granular surround

Class D400 manhole cover and frame 600mmx600mm to BS EN 124 to be used in adoptable highways and private roads/drives and car parks with class B125 elsewhere, bedded and haunched with mortar.

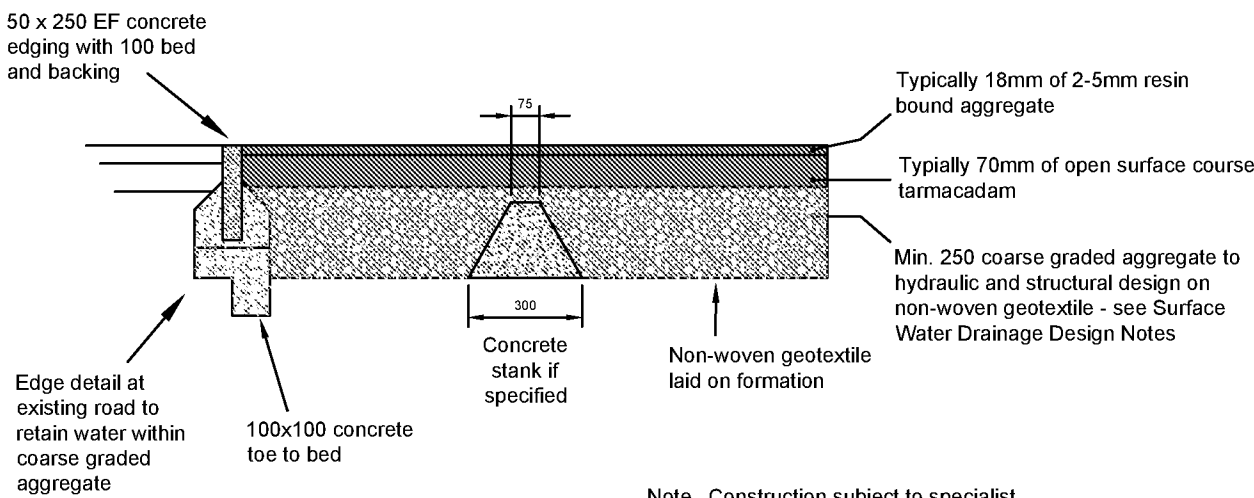
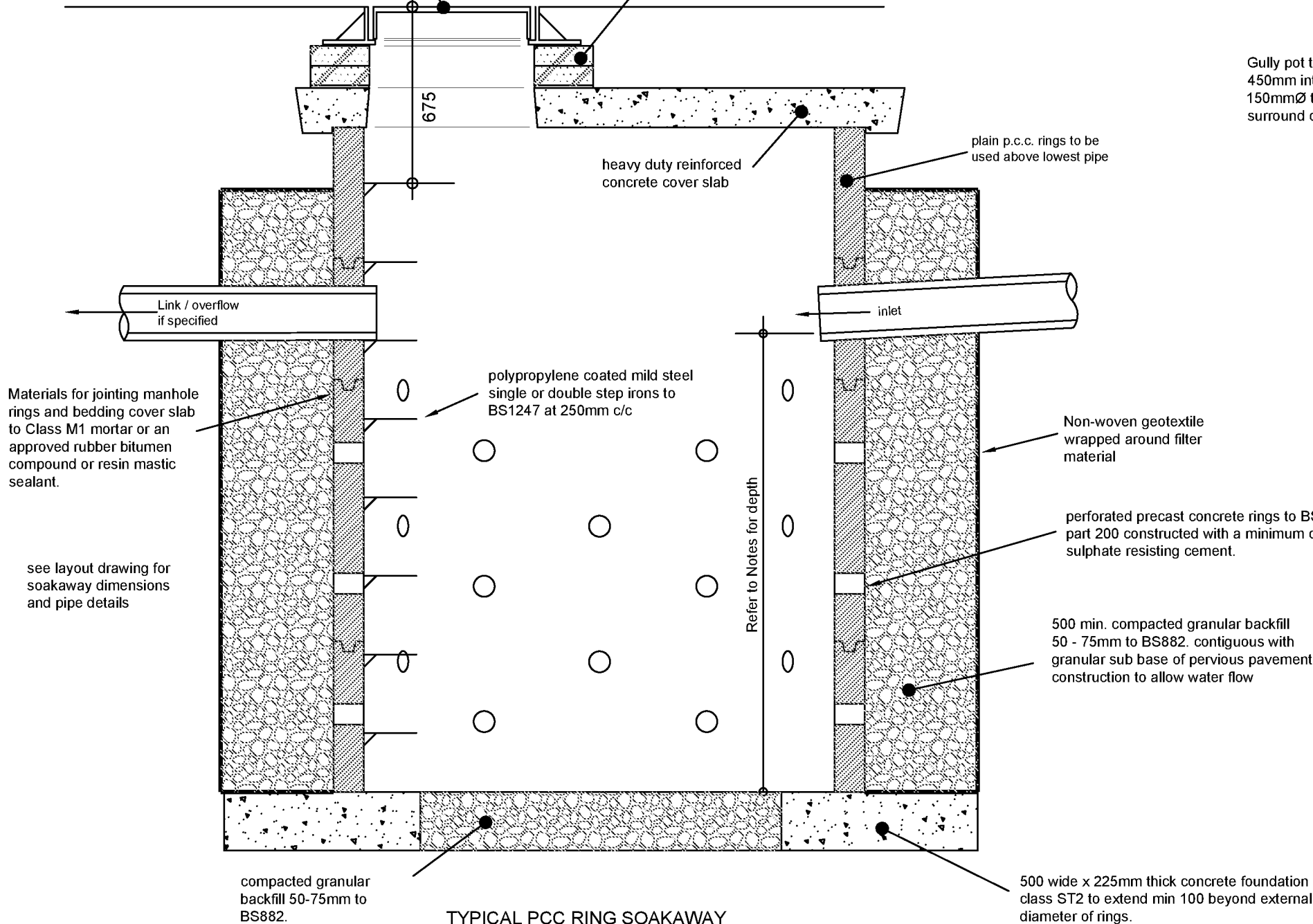
All brickwork to be Class B engineering to BS 3921 - 2 courses min; 4 courses max; 225mm thick

Gully connection to soakaway to be in 150mmØ Rigidian bedded and surrounded with 150mm thick grade ST4 concrete

Gully pot to BS5911 or in ribbed HDPE 450mm internal diameter 900mm deep with 150mmØ trapped outlet, with 150mm bed and surround of class ST4 concrete.

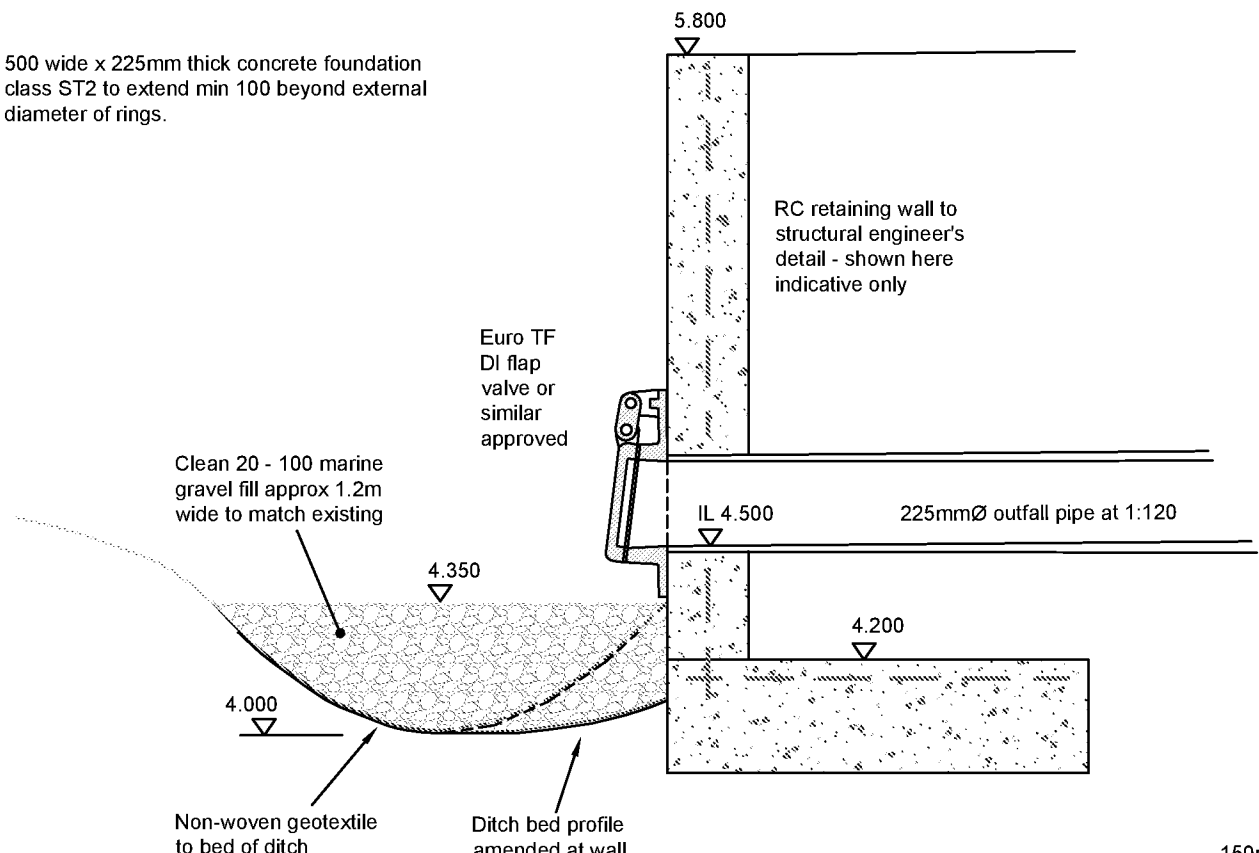
Typical precast concrete road gully

Typical Access Chamber Detail - Type 4
(for use in landscaped areas and footways)
Scale 1:20

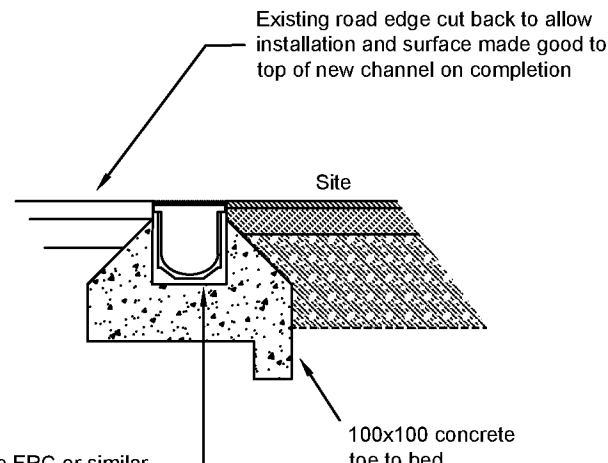


Typical Resin Bound Permeable Paving

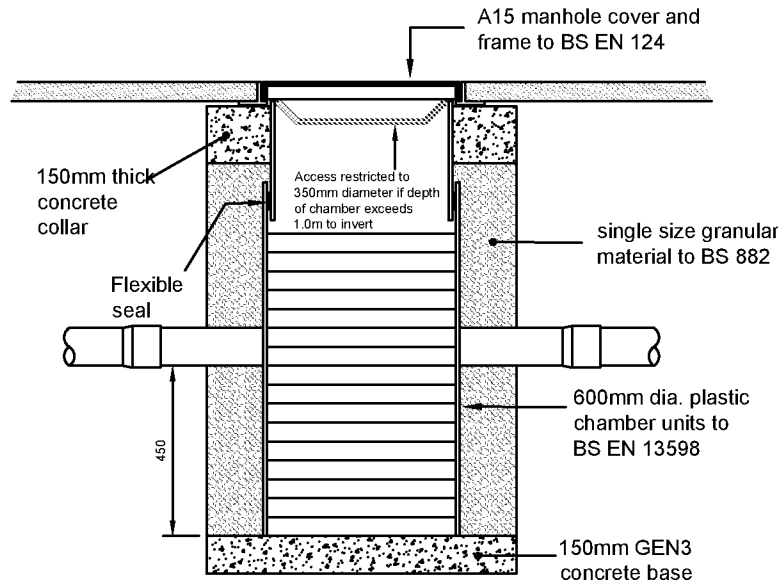
Note Construction subject to specialist design by supplier and CBR or other approved testing of the formation strength



Outfall detail at retaining wall



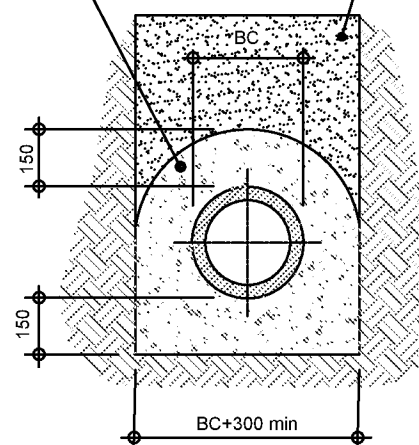
Channel Drain detail



Typical Silt Trap Inspection Chamber Detail
(for use in areas not subject to vehicle loading)

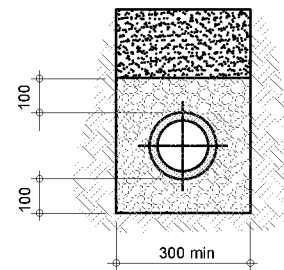
Plain concrete class ST2 to be separated at each joint with an approved compressible material.

Type 1 granular sub-base to road formation



CONCRETE SURROUND (CLASS Z)

To be used where cover to crown of pipe is less than 600mm under soft landscaped areas and less than 900mm under other vehicular areas and footways



GRANULAR SURROUND (CLASS S)

To be used where cover to crown of pipe is greater than 600mm under private soft landscaped areas and greater than 900mm under drives. Concrete bed and surround to be used elsewhere

-	Original	PC		RTFC	14.5.20
Rev.	Description	App.	Chk.	Dm.	Date
Client					
Mr and Mrs Jones					
Project					
Rond Point Ham Manor Way Angmering West Sussex					
Drawing Title					
Surface Water Drainage Construction Details					
© This drawing is copyright. It may not be copied or reproduced without their written authority					
Scale		As shown		At original	A2
Drawing Number				Revision	
2031/C1.2				-	