

From: Juan Baeza
Sent: 19 January 2018 13:42
To: Planning.Responses
Cc: Amanda Scholes
Subject: WA/78/17/DOC

Please scan email plus attachment.

Thanks

Juan Baeza Area Team Leader – Planning Department, Arun District Council | Location: First Floor, Arun Civic Centre, Maltravers Road, Littlehampton, BN17 5LF

Internal: 37765 | External: +44 (0) 1903 737765 | E-mail: juan.baeza@arun.gov.uk

Visit Arun's web site at www.arun.gov.uk



Save the environment - think before you print.

From: Brendan Haworth [REDACTED]
Sent: 19 January 2018 13:26
To: Paul Cann
Cc: 'Andrew Davey'; 'Mark Willis'; Des McCall; Jack Dexter; Juan Baeza; 'Daphne Hobbs-Green'
Subject: RE: Walberton

Dear Paul.

Thank you for your e-mail below.

Attached are the applicant's details and build-up for the permeable paved areas.

We assumed that permeable paving would not need any storage, as rain water dropping onto the surface will just percolate down into the ground. I can see that this may be effected by the ratio of permeable to impermeable surface and that block paving may not be the best solution in all situations. If you think block paving as described is inappropriate then, we will ask the client to consider permeable paving constructed purely from granular material.

Daphne

Couple of things:

1. What are your thoughts on paved areas being formed from granular material only – without checking, I am not sure what was proposed at planning stage?
2. We assume Mark will provide proposed landscaping levels for Paul

Brendan Haworth



From: Paul Cann [<mailto:Paul.Cann@arun.gov.uk>]

Sent: Friday, January 19, 2018 11:38 AM

To: Brendan Haworth [REDACTED]

Subject: RE: Walberton

Brendan

Will need full details of the permeable pavement construction, including levels/supporting storage calculations, etc.

Regards

Paul Cann
Senior Engineer (Drainage & Coastal)

Paul Cann | Senior Engineer (Drainage & Coastal), Engineering Services, Arun District Council | Location: First Floor, Arun Civic Centre,
Maltravers Road, Littlehampton, BN17 5LF

Internal: 37819 | External: +44 (0) 1903 737819 | Fax: +44 (0) 1903 716019 | E-mail: Paul.Cann@arun.gov.uk

Arun is Working in Partnership with Chichester District Council

Visit Arun's web site at <http://www.arun.gov.uk/> and www.chichester.gov.uk



Save the environment - think before you print.

From: Brendan Haworth [REDACTED]

Sent: 18 January 2018 15:13

To: Paul Cann

Cc: Andrew Davey; Mark Willis; Des McCall; Jack Dexter; Juan Baeza; Daphne Hobbs-Green

Subject: RE: Walberton

Dear Paul

Sorry about the peace-meal reply.

On point 7 of your e-mail, it has been confirmed by the applicant that all the hard landscaping areas will be permeable and therefore will not contribute to the soakaway calculation.

Brendan Haworth



From: Paul Cann [<mailto:Paul.Cann@arun.gov.uk>]

Sent: Wednesday, January 17, 2018 4:14 PM

To: Brendan Haworth

Cc: Andrew Davey <andrew.davey@arun.gov.uk>

Subject: RE: Walberton

Hi Brendan

Comments;

1. Please provide all the readings associated with the 13 minute percolation test ie. water level readings from 0 mins to 13mins, so the rate can be checked.
2. The storage calcs show a minimum soakaway depth of 1.944m being required. How can this be achieved based upon the design requirements. ie. soakaway base must not extend more than 2m below ground level and you also need to achieve adequate cover to the crates for protection.
3. Please show manhole cover/invert levels, including pipe invert at connection to soakaway.
4. Specify base level of soakaway ie. a level max. 2m below ground level.
5. Provide construction detail/section of soakaway (to include permeable geotextile wrapping).
6. Manhole SW4 is to be a catchpit (provide construction detail).
7. How is the driveway being drained? Provide full details/calculations.

I await your revised drawings, etc. Any queries please let me know.

Regards

Paul Cann
Senior Engineer (Drainage & Coastal)

Paul Cann | Senior Engineer (Drainage & Coastal), Engineering Services, Arun District Council | Location: First Floor, Arun Civic Centre,
Maltrovers Road, Littlehampton, BN17 5LF

Internal: 37819 | External: +44 (0) 1903 737819 | Fax: +44 (0) 1903 716019 | E-mail: Paul.Cann@arun.gov.uk

Arun is Working in Partnership with Chichester District Council

Visit Arun's web site at <http://www.arun.gov.uk/> and www.chichester.gov.uk



Save the environment - think before you print.

From: Brendan Haworth [REDACTED]
Sent: 15 January 2018 16:36
To: Paul Cann
Cc: Andrew Davey; Mark Willis; Des McCall; Jack Dexter; Juan Baeza
Subject: RE: Walberton

Dear Paul

Thank you for your e-mail below.

The chamber used to monitor ground water levels was excavated on the 4th January at approximately 11am (450mm wide by 2m deep by 3m long). There was no ground water evident in the chamber immediately after excavation. The chamber was inspected again 24hrs later and was dry. Therefore no ground water observed. Photos of the pit at the time of excavation and 24 hours later were sent to you earlier by e-mail.

The same chamber was then used to determine the infiltration rate as follows:

Test 1 – 75% to 25% 10mins

Test 2 – 75% to 25% 12mins

Test 3 – 75% to 25% 13mins

(The chamber used to measure infiltration rate was 450mm wide by 2m deep by 3m long using 500mm below ground level as the chamber-full datum).

Attached is our amended drawing and soakaway calculation show the soakaway size and position using the infiltration test results above.

As I understand it, the discharge of condition application was lodged previously and this is the last items to be signed off. Could you confirm that you have everything you need for the surface water sign off?

Thank you for your help and guidance with this.

Brendan Haworth



From: Paul Cann [<mailto:Paul.Cann@arun.gov.uk>]

Sent: Monday, January 15, 2018 11:05 AM

To: Brendan Haworth [REDACTED]

Cc: Andrew Davey <arun.davey@arun.gov.uk> [REDACTED]

Subject: RE: Walberton

Hi Brendan

I note the percolation test results which are very good. Please forward the percolation test readings so we can check the infiltration rate, together with confirmation that groundwater was not encountered.

I look forward to receiving your design drawings (layout and construction details). Please note that the depth from ground level to the base of the soakaway must not exceed the depth of your trial hole.

Regards

Paul Cann
Senior Engineer (Drainage & Coastal)

Paul Cann | Senior Engineer (Drainage & Coastal), Engineering Services, Arun District Council | Location: First Floor, Arun Civic Centre,
Maltrovers Road, Littlehampton, BN17 5LF

Internal: 37819 | External: +44 (0) 1903 737819 | Fax: +44 (0) 1903 716019 | E-mail: Paul.Cann@arun.gov.uk

Arun is Working in Partnership with Chichester District Council

Visit Arun's web site at <http://www.arun.gov.uk/> and www.chichester.gov.uk



Save the environment - think before you print.

From: Brendan Haworth [REDACTED]
Sent: 08 January 2018 16:08
To: Paul Cann
Cc: Andrew Davey; Mark Willis; Des McCall; Jack Dexter
Subject: RE: Walberton

Dear Paul

Andrew has just phone through the percolation test results.

Attached is the soakaway design taking into account the test results from today.

The soakaway is designed for 1 in 100 year event with 30% climate change.

You'll see the test results from today in the calculation sheet but for ease, they were:

Test 1 – 75% to 25% 10mins

Test 2 – 75% to 25% 12mins

Test 3 – 75% to 25% 13mins

If you are happy with the result then we can update the drawing and formally submit.

How do you want the results for water table monitoring and infiltration reporting?

Brendan Haworth



From: Paul Cann [<mailto:Paul.Cann@arun.gov.uk>]

Sent: Friday, January 5, 2018 11:32 AM

To: Brendan Haworth [REDACTED]

Subject: RE: Walberton

Noted Brendan

Obviously the proposed formation level for the soakaways should not extend any deeper than your trial holes.

Regards

Paul Cann
Senior Engineer (Drainage & Coastal)

Paul Cann | Senior Engineer (Drainage & Coastal), Engineering Services, [Arun District Council](#) | Location: First Floor, Arun Civic Centre,
Maltravers Road, Littlehampton, BN17 5LF

Internal: 37819 | External: +44 (0) 1903 737819 | Fax: +44 (0) 1903 716019 | E-mail: Paul.Cann@arun.gov.uk

Arun is Working in Partnership with Chichester District Council

Visit Arun's web site at <http://www.arun.gov.uk/> and www.chichester.gov.uk



Save the environment - think before you print.

From: Brendan Haworth [REDACTED]

Sent: 05 January 2018 10:47

To: Paul Cann

Cc: Andrew Davey; Mark Willis; Des McCall

Subject: Walberton

Dear Paul

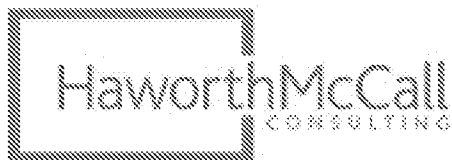
Andrew visited site this morning and has sent through the attached photos. Andrew reported that the pit is dry and no evidence of ground water.

The plan now, is to undertake the percolation test to establish the infiltration rate. I spoke to Andrew this morning and the three tests will be carried out on Monday once Andrew has located and filled a water bowser.

When we determined the infiltration rate we will update our calculation for the soakaway and update our drawings.

Will you want to see these documents before Mark Willis (architect) sends them to the case officer to discharge the planning conditions relating to drainage?

Brendan Haworth



From: Andrew Davey [REDACTED]

Sent: Friday, January 5, 2018 10:30 AM

To: Brendan Haworth [REDACTED]

Subject: Walberton







Sent from my iPhone

<http://www.arun.gov.uk>

NLPG UPRN 100062237016

DX 57406 Littlehampton

Important Notice This e-mail is intended exclusively for the addressee and may contain information that is confidential and/or privileged. If you are not the intended recipient (or authorised to receive it for the addressee), please notify the sender and delete the e-mail immediately; using, copying, or disclosing it to anyone else, is strictly prohibited and may be unlawful. Any views, opinions or options presented are solely those of the author and do not necessarily represent those of Arun District Council. The information in this e-mail may be subject to public disclosure under the Freedom of Information Act 2000, therefore we cannot guarantee that we will not provide the whole or part of this e-mail to a third party. The Council reserves the right to monitor e-mails in accordance with relevant legislation. Whilst outgoing e-mails are checked for viruses, we cannot guarantee this e-mail is virus-free or has not been intercepted or changed and we do not accept liability for any damage caused. Any reference to "e-mail" in this disclaimer includes any attachments.

<http://www.arun.gov.uk>

NLPG UPRN 100062237016

DX 57406 Littlehampton

Important Notice This e-mail is intended exclusively for the addressee and may contain information that is confidential and/or privileged. If you are not the intended recipient (or authorised to receive it for the addressee), please notify the sender and delete the e-mail immediately; using, copying, or disclosing it to anyone else, is strictly prohibited and may be unlawful. Any views, opinions or options presented are solely those of the author and do not necessarily represent those of Arun District Council. The information in this e-mail may be subject to public disclosure under the Freedom of Information Act 2000, therefore we cannot guarantee that we will not provide the whole or part of this e-mail to a third party. The Council reserves the right to monitor e-mails in accordance with relevant legislation. Whilst outgoing e-mails are checked for viruses, we cannot guarantee this e-mail is virus-free or has not been intercepted or changed and we do not accept liability for any damage caused. Any reference to "e-mail" in this disclaimer includes any attachments.

<http://www.arun.gov.uk>

NLPG UPRN 100062237016

DX 57406 Littlehampton

Important Notice This e-mail is intended exclusively for the addressee and may contain information that is confidential and/or privileged. If you are not the intended recipient (or authorised to receive it for the addressee), please notify the sender and delete the e-mail immediately; using, copying, or disclosing it to anyone else, is strictly prohibited and may be unlawful. Any views, opinions or options presented are solely those of the author and do not necessarily represent those of Arun District Council. The information in this e-mail may be subject to public disclosure under the Freedom of Information Act 2000, therefore we cannot guarantee that we will not provide the whole or part of this e-mail to a third party. The Council reserves the right to monitor e-mails in accordance with relevant legislation. Whilst outgoing e-mails are checked for viruses, we cannot guarantee this e-mail is virus-free or has not been intercepted or changed and we do not accept liability for any damage caused. Any reference to "e-mail" in this disclaimer includes any attachments.

<http://www.arun.gov.uk>

NLPG UPRN 100062237016

DX 57406 Littlehampton

Important Notice This e-mail is intended exclusively for the addressee and may contain information that is confidential and/or privileged. If you are not the intended recipient (or authorised to receive it for the addressee), please notify the sender and delete the e-mail immediately; using, copying, or disclosing it to anyone else, is strictly prohibited and may be unlawful. Any views, opinions or options presented are solely those of the author and do not necessarily represent those of Arun District Council. The information in this e-mail may be subject to public disclosure under the Freedom of Information Act 2000, therefore we cannot guarantee that we will not provide the whole or part of this e-mail to a third party. The Council reserves the right to monitor e-mails in accordance with relevant legislation. Whilst outgoing e-mails are checked for viruses, we cannot guarantee this e-mail is virus-free or has not been intercepted or changed and we do not accept liability for any damage caused. Any reference to "e-mail" in this disclaimer includes any attachments.
