

Ian Clark

From: Kazys Narbutas Consulting [REDACTED]
Sent: 28 July 2020 12:30
To: Mahmud Choudhury
Cc: Michael Hartnett; Sylvia Rowbotham; Ian Clark; Lauren Dyer; Colin Button
Subject: RE: Langford, Horsemere Green Lane, Climping, BN17 5QZ: Ref CM/64/19/PL - Revised Engineering Details
Attachments: Horsemere Green Lane S106Approval Letter_30-04-2020.pdf; KNC1933-501-02-A Standard Construction Details.pdf; KNC1933-502-01-E Drainage Layout.pdf

Follow Up Flag: Follow up
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Categories: Climping

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Mo

Apologies for my delayed response.

Please find attached a copy of the latest drainage layout, standard manhole detail and the letter received from Southern Water confirming approval for the S106 sewer connection. This should be enough to enable discharge of Condition 19 for foul drainage.
Please contact me should anything further be required for this Condition.

Regards

[REDACTED]

Kazys Narbutas

K A Z Y S · N A R B U T A S · C O N S U L T I N G
Civil Engineering Consultant

Unit 5B
Tanners Court
Tanners Lane
East Wellow
Romsey
SO51 6DP

[REDACTED]

From: Mahmud Choudhury [REDACTED]
Sent: 27 July 2020 12:41
To: Kazys Narbutas Consulting [REDACTED]
Cc: Michael Hartnett [REDACTED]; Sylvia Rowbotham [REDACTED]; Ian

Clark [REDACTED]; Lauren Dyer [REDACTED] Colin Button [REDACTED]

Subject: RE: Langford, Horsemere Green Lane, Climping, BN17 5QZ: Ref CM/64/19/PL - Revised Engineering Details

Hi Kazys,

As discussed on Friday, please could you arrange to send over your civil package to discharge planning condition **ITEM 19**. We will arrange to submit this to the planners this week.

I understand you are currently working on the surface water items and this information will be with us in due course.

Thanks.

Mahmud Choudhury B.Arch, ICIOB • Technical Manager • [REDACTED]

carlton design partnership ltd

Selwyn House, 32a Castle Way, Southampton
SO14 2AW

[REDACTED] H1 2HZ
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From: Kazys Narbutas Consulting

Sent: 23 July 2020 11:38

To: Mahmud Choudhury [REDACTED]

Cc: Michael Hartnett [REDACTED]; Sylvia Rowbotham [REDACTED]; Ian Clark [REDACTED]; Lauren Dyer [REDACTED] Colin Button [REDACTED]

Subject: RE: Langford, Horsemere Green Lane, Climping, BN17 5QZ: Ref CM/64/19/PL - Revised Engineering Details

This email originated from outside Carlton Design.

Mo

I've made no application to the Planner to discharge conditions.
I've just received additional survey information which should enable me to produce more information for Paul Cann regarding the surface water conditions. I'm happy to submit information for the foul drainage discharge now as that will require the planner to approach Southern Water, however I was under the impression that each application to discharge requires a fee and it was proposed to make a full submission of all drainage conditions.
Please advise on the appropriate action.

Regards

[REDACTED]

Kazys Narbutas

Unit 5B
Tanners Court
Tanners Lane
East Wellow
Romsey
SO51 6DP

From: Mahmud Choudhury [REDACTED]
Sent: 23 July 2020 10:01
To: Kazys Narbutas Consulting <[REDACTED]>
Cc: Michael Hartnett [REDACTED]; Sylvia Rowbotham [REDACTED]; Ian Clark [REDACTED]; Lauren Dyer [REDACTED]; Colin Button <[REDACTED]>
Subject: RE: Langford, Horsemere Green Lane, Climping, BN17 5QZ: Ref CM/64/19/PL - Revised Engineering Details

Kazys/Mike,

Please confirm if the DOC application has been submitted?

I understand the planning authority will need to consult with SW before discharge.

Thanks.

Mahmud Choudhury B.Arch, ICIOB • Technical Manager • [REDACTED]

carlton design partnership ltd

Selwyn House, 32a Castle Way, Southampton
SO14 2AW

[REDACTED]
registered office: BCI Ltd, Burlington House, Old Christchurch Rd, BH1 2HZ
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From: Mahmud Choudhury
Sent: 13 July 2020 12:30
To: Kazys Narbutas Consulting [REDACTED]
Cc: Michael Hartnett [REDACTED]; Sylvia Rowbotham [REDACTED]; Ian Clark [REDACTED]; Lauren Dyer [REDACTED]; Colin Button [REDACTED]
Subject: RE: Langford, Horsemere Green Lane, Climping, BN17 5QZ: Ref CM/64/19/PL - Revised Engineering Details

Hi Kazys,

Sorry for the late response. We would expect the DOC application to be submitted by yourself or MJH.

Cheers.

Mahmud Choudhury B.Arch, ICIOB • Technical Manager • [REDACTED]

carlton design partnership ltd

Selwyn House, 32a Castle Way, Southampton
SO14 2AW

carlton design partnership ltd reg:7326416
registered office: BCT Ltd, Burlington House, Old Christchurch Rd, BH1 2HZ
Visit our website at: www.carltondesignpartnership.com

From: Paul Cann

Sent: 08 July 2020 10:50

To: Kazys Narbutas Consulting <[REDACTED]> Sarah Burrow <[REDACTED]>

Cc: Michael Hartnett <[REDACTED]> Sylvia Rowbotham <[REDACTED]>

Mahmud Choudhury <[REDACTED]>

Subject: RE: Langford, Horsemere Green Lane, Climping, BN17 5QZ: Ref CM/64/19/PL - Revised Engineering Details

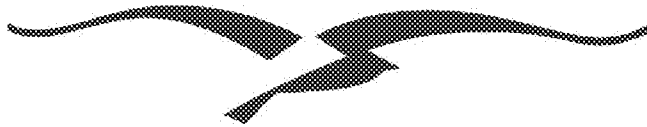
This email originated from outside Carlton Design.

Hi Kazys

In respect to foul water, the applicant would need to make a DOC application and the planners would then need to consult with Southern Water in terms of its discharge.

Regards

Paul Cann
Principal Drainage Engineer
Engineering Services



[REDACTED]
Arun District Council, Civic Centre, Maltravers Rd, Littlehampton, West Sussex, BN17 5LF
www.arun.gov.uk

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From: Kazys Narbutas Consulting <[REDACTED]>

Sent: 03 July 2020 16:13

To: Paul Cann <[REDACTED]> Sarah Burrow <[REDACTED]>

Cc: Michael Hartnett <[REDACTED]> Sylvia Rowbotham <[REDACTED]>

Mahmud Choudhury <[REDACTED]>

Subject: RE: Langford, Horsemere Green Lane, Climping, BN17 5QZ: Ref CM/64/19/PL - Revised Engineering Details

Paul

The weeks seem to have passed by since I sent the revised drainage submission in to you, I did get an automatic response to say you would be away until the 22nd June, hopefully you are now getting up-to-date with your backlog so, any idea when you will be responding? Since writing I have discovered a letter from Southern Water consenting to the foul drainage connection so hopefully that will enable you to discharge Condition 19 of the Planning Consent.

I look forward to hearing from you.

Regards

[REDACTED]

Kazys Narbutas

K A Z Y S · N A R B U T A S · C O N S U L T I N G
Civil Engineering Consultant

Unit 5B
Tanners Court
Tanners Lane
East Wellow
Romsey
SO51 6DP

[REDACTED]

From: Kazys Narbutas Consulting

Sent: 15 June 2020 12:38

To: 'Paul Cann' [REDACTED]

Cc: Michael Hartnett [REDACTED] Sylvia Rowbotham [REDACTED]

'Mahmud Choudhury' [REDACTED]

Subject: Langford, Horsemere Green Lane, Climping, BN17 5QZ: Ref CM/64/19/PL - Revised Engineering Details

Paul

Thank you for your response to my recent submission of drainage details for the above development. Based on your comments I have re-designed the drainage system to cater for storage of the 100yrs storm +40% for climate change with no allowance for infiltration in the calculations.

The houses and garages drain directly into the open ditch which should now provide the natural habitat as requested.

Drives and parking areas are constructed in permeable block paving and water contained in the open graded sub base will discharge into the open graded sub base of the access road, I have avoided the use of permeable block paving that you suggested. The parking court at the southern end of the site will provide storage in the open graded sub base with an outfall into the drainage ditch through a fin drain.

I trust this amended design will now be acceptable and enable you to advise your planning colleague that the drainage conditions for the site can be discharged. Please let me know if you require anything further.

I look forward to hearing back from you.

Many thanks

Regards

Kazys Narbutas

KAZYS · NARBUTAS · CONSULTING
Civil Engineering Consultant

Unit 5B
Tanners Court
Tanners Lane
East Wellow
Romsey
SO51 6DP

From: Paul Cann

Sent: 18 May 2020 11:57

To: Kazys Narbutas Consulting [REDACTED]

Cc: Michael Hartnett [REDACTED]; Sylvia Rowbotham [REDACTED]
Mahmud Choudhury [REDACTED]; Sarah Burrow
[REDACTED]

Subject: RE: Langford, Horsemere Green Lane, Climping, BN17 5QZ: Ref CM/64/19/PL (Email 1 of 2)

Hi Kazys

Comments;

1. 6 months ground water monitoring has not been provided, luckily the monitoring just about captured the peaks we experienced this winter.
2. The infiltration testing did not comply with BRE365 ie. pits were not refilled (ie. 3 tests required in each pit) and the holes were not sufficiently monitored, meaning that final readings had to be estimated. The tests (March 2020) were also carried out too deep ie. should have been carried out at depths based upon the peak Dec 2019 groundwater levels, not the groundwater levels at the time of the tests.
3. As a result of item 2, there are two options;
 - a) Based upon the fact that that infiltration would not provide a sole means of surface water disposal, irrespective of further infiltration testing (As detailed in item 'b' below), an attenuation system storing the 1 in 100 year event + 40% and a restricted outflow to the ditch at QBAR would be required. Shallow infiltration would be utilised where ever possible but the infiltration not included in the calculations.
 - b) Undertake further infiltration testing in strict accordance with BRE365 next winter at an agreed time and depths and design a hybrid system of attenuation/restricted discharge to ditch and infiltration, whereby the infiltration rates can be used in the calculations.
4. Is the aquacell feature on the western boundary utilising an existing ditch?
5. The western boundary feature should be an open feature (calculations would need to account for all rainfall falling directly onto open features). Bed levels to be above Dec 2019 recorded ground water levels. Utilise permeable paving on the access drive too?
6. Land drainage consent – culvert under access road to be min. 450mm diameter (assuming suitable cover can be achieved). Fully detailed construction drawings required including invert levels, etc. Provide

levels/diameters/locations of existing culverts immediately upstream and downstream. Provide fully detailed construction detail and pipe invert levels for the proposed headwall connection to the ditch.

Until such time, that we can agree the principles of items 3-5 above, there is little point in looking at any detailed design proposals.

Regards

Paul Cann
Principal Engineer (Drainage)

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

From: Kazys Narbutas Consulting [REDACTED]
Sent: 03 May 2020 23:09
To: Paul Cann [REDACTED] Sarah Burrow [REDACTED]
Cc: Michael Hartnett <[REDACTED]> Sylvia Rowbotham <[REDACTED]>
Mahmud Choudhury [REDACTED]
Subject: Langford, Horsemere Green Lane, Climping, BN17 5QZ: Ref CM/64/19/PL (Email 1 of 2)

Paul/Sarah

I am working for MJH Executive Homes who have recently secured their planning consent on the above site. There are several conditions relating to drainage matters that I am looking to discharge. A formal application to discharge these conditions will be made through the appropriate planning channels but in the meantime I am sending you information directly so that any issues can be resolved with you. You may be aware of the submission of preliminary information that was submitted with the planning application but for completeness and for your information I will include the relevant information again.

Surface Water Drainage

Condition 5:

In line with the SuDS hierarchy the use of infiltration methods has been investigated and the results have shown that this method of surface water disposal is limited. Winter groundwater monitoring has been undertaken and infiltration testing to a depth above the level of the highest recorded groundwater was undertaken. Results of these investigations can be found in the Crossfield Consulting geotechnical report. (Table 1.3, Pg24) [2nd E-mail] Briefly the highest recorded groundwater level in the four monitoring wells across the site was 0.72 m bgl. with an average level of about one metre.

Infiltration testing undertaken provided an advised rate of 2.0 E-06.

Based on this information it was not deemed feasible to install domestic soakaways to cater for roof drainage but the use of permeable paving for driveways and parking courts was considered to be the appropriate means of surface water disposal.

it is proposed that the surface water flow from the roofs and access road will discharge into an Aquacell lined ditch running alongside the access road, this can be seen on the drainage layout KNC1933-502-01. [2nd E-mail] Due to the low infiltration rate it is proposed to have an additional overflow outfall discharging into the adjacent ditch at the calculated green field run off. The drainage system has been designed to cater for the 1 in 100 years storm + 40% climate change allowance and a FOS of 10. We have calculated that the proposed drainage network will cater for the 1 in 10 years storm event with a 40% allowance for climate change without recourse to the proposed overflow.

MicroDrainage and run off calculations are attached.

Condition 6

An application for Ordinary Watercourse Land Drainage Consent has been completed and attached. Details of headwalls and outfall structures can be found on the attached standard details. Can you please advise how I can forward you the application fee electronically as I am not in a position to send a cheque.

Condition 7

Attached is a copy of the SuDS Maintenance and Management Manual produced for the site.

Condition 8

On completion of the works 'As Built' drawings will be submitted to you.

Foul Water Drainage

Conditions 19 & 29

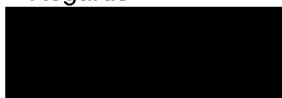
The drainage layout drawing shows the proposals to discharge foul drainage from the site. A Section 106 application has been submitted to Southern Water to grant consent to connect into the public sewer in Horsemere Green Lane.

I trust that the above comments and submitted information will enable you to advise your planning colleagues that the appropriate conditions can be discharged.

Shoulds any aspect require discussion or further information please contact me.

Many thanks.

Regards



Kazys Narbutas

K A Z Y S · N A R B U T A S · C O N S U L T I N G
Civil Engineering Consultant

Unit 5B
Tanners Court

Tanners Lane
East Wellow
Romsey
SO51 6DP



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

DX 57406 Littlehampton

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