

Daun Johnson | Technical Support Unit Assistant, Directorate of Place, Arun District Council | Location: GroundFloor, Phoenix House,  
Arun Civic Centre, Maltravers Road, Littlehampton, BN17 5LF  
Internal: 37762 | External: +44 (0) 1903 737762 | E-mail: daun.johnson@arun.gov.uk

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**From:** Simon Davis <Simon.Davis@arun.gov.uk>  
**Sent:** 29 January 2021 10:53  
**To:** Planning.Responses <Planning.Responses@arun.gov.uk>  
**Subject:** Cinders Nursery Phase 2 ref Y/140/20/DOC

Final drainage comments

**Simon J Davis MRTPI**  
Principal Planning Officer  
Directorate of Place

**T:** 01903 737874  
**E:** [simon.davis@arun.gov.uk](mailto:simon.davis@arun.gov.uk)



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

**Sent:** 29 January 2021 09:39

**To:** Kazys Narbutas Consulting [REDACTED]

**Subject:** RE: Cinders Nursery Phase 2, Cinders Lane: Planning Consent Y/32/17/OUT

Hi Kazys

Drawings now acceptable.

I will have to let Simon update everybody in terms of the discharge of planning conditions.

Regards

**Paul Cann**  
Principal Drainage Engineer  
Engineering Services

**T:** 01903 737819

**E:** [paul.cann@arun.gov.uk](mailto:paul.cann@arun.gov.uk)

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**From:** Kazys Narbutas Consulting [REDACTED]

**Sent:** 28 January 2021 17:29

**To:** Paul Cann <[Paul.Cann@arun.gov.uk](mailto:Paul.Cann@arun.gov.uk)>

**Subject:** RE: Cinders Nursery Phase 2, Cinders Lane: Planning Consent Y/32/17/OUT

Paul

Thank you for your response to my recent submission and your issuing of the Ordinary Watercourse Land Drainage Consent.

Crayfern Homes are aware of what steps they have to take during construction and will be contacting you prior to work commencing.

Referring to the points you raised in blue that require attention (answered in green):

22. Plot 26 (Phase 1) – specify invert level of existing manhole S4/4. This manhole is not now part of the drainage for Plots 2-18 & 2-19 and details not required for Phase 2 ok. Please update long section with revised headwall references. References amended and revised drawing KNC2006-503-01-C attached

27. Drawing 501 01 Rev B – permeable block paving detail type 3 not relevant? – delete There is an area of permeable block paving which is situated at the eastern end of the site and in the lay-bys. It is identifiable on the drainage layout and also on the attached surfacing drawing KNC2006-507-01 Rev B. Noted but type 1 material is specified within the construction which is not permeable ie. how does water reach the attenuation sub base? I assume this is a typo as drg. KNC2006/501-03 Rev B shows a porous granular sub base. Your comments are correct, drg KNC2006-501-01-D has been amended and is attached.

28. Specify hydrobrake model on HB1 construction detail drawing. Specify ST4 concrete base, benching and block for hydrobrake fixing. Specify overflow invert level and surround pipe in min. 150mm thick ST4 concrete. Include step rungs. Specify class B engineering brickwork under cover/frame. Hydro Brake

model specified and all other comments incorporated on drg KNC2006-501-03 Rev B ok but alter reference to headwall HA to H2. Outfall reference has been amended to H2, revised drawing KNC2006-501-03-C attached.

I trust the issuing of these amend details will enable you to advise your Planning colleague that the conditions relating to surface water drainage can be discharged.

Many thanks

Regards

**Kazys**

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

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

**Sent:** 27 January 2021 15:55

**To:** Kazys Narbutas Consulting [REDACTED]

**Subject:** RE: Cinders Nursery Phase 2, Cinders Lane: Planning Consent Y/32/17/OUT

Hi Kazys

Land drainage consent enclosed for the outfall to the existing ditch (dated tomorrow) – please advise the contractor to contact us prior to works commencing.

See also comments in blue below requiring some minor alterations;

I await your revised drawings.

Regards

**Paul Cann**  
Principal Drainage Engineer  
Engineering Services

**T:** 01903 737819

**E:** [paul.cann@arun.gov.uk](mailto:paul.cann@arun.gov.uk)



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**From:** Kazys Narbutas Consulting [REDACTED]  
**Sent:** 18 January 2021 08:33  
**To:** Paul Cann <[Paul.Cann@arun.gov.uk](mailto:Paul.Cann@arun.gov.uk)>

[REDACTED]

**Subject:** Cinders Nursery Phase 2, Cinders Lane: Planning Consent Y/32/17/OUT

Paul

Thank you for your extensive comments which I have responded to as shown in red below.

All the drawings have been attached to the 'We Transfer' link below but I have also attached to this e-mail the OWC application with the appropriate details and the MicroDrainage calculations. Hopefully this revised package will enable you to advise your planning colleague that the surface water drainage conditions can be discharged when my client makes the formal application to discharge Conditions 8, 9, 10, 11, 12, 16 & 17.

I look forward to hearing back from you but please contact me should you need to discuss any aspects.

[REDACTED]

Regards

**Kazys**

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]

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**From:** Paul Cann [<mailto:Paul.Cann@arun.gov.uk>]  
**Sent:** 25 November 2020 13:43  
**To:** Kazys Narbutas Consulting [REDACTED] Mandy L [REDACTED]

[REDACTED]

**Subject:** RE: Cinders Nursery Phase 2, Cinders Lane: Planning Consent Y/32/17/OUT

Hi Kazys/Mandy

Comments below;

Suds (Condition 8)

1. Plots 18 & 19 – were flows accounted for in the design of the phase 1 storage tank? The attenuation tank serving Phase 1 was slightly too small to facilitate 2-18 & 2-19, so surface water discharge from these plots discharges into the sub base attenuation serving Phase 2. Revised MicroDrainage calculations and the drained area plan KNC2006-505-01 are resubmitted for the amended areas. All details can be seen on the file 'MicroDrainage Design Calculations Submission January 2021' ok
2. Specify gradients and pipe diameters on all pipe lengths. Gradients and diameters are now shown on all pipe lengths. ok
3. Where connections are being made to pipelines rather than direct to manholes – add note 'all connections to be made using oblique 45 degree junctions'. Note 18 has been added regarding connections. ok
4. Plots 1-5 – clearly show how the channel drain connects to the adjacent pipeline. Sump gully required at end of channel drain. This area has been redesigned to a permeable surfacing and so a channel drain is no longer required. ok
5. Specify pipe invert levels at diffuser units. Diffusers have been referenced and type & levels are shown on the drainage table On drawing KNC2006-502-01 Rev F ok
6. Show all driveway finished levels and yard gully cover levels (including plots 18 & 19). Driveway and gully levels are shown on the drainage layout and attached drawing KNC2006-506-01 ok
7. Silt trap manhole detail – specify sump depth. Sump depth specified on drg KNC2006-501-02 Rev B (Rev C) ok
8. Plots 16 & 17 – IL of ST50 too high ie. Higher than invert of S100/1 and same level as R21. Levels have been amended. ok
9. Plot 15 – IL of ST51 too high ie. same level as R22 . Levels have been amended ok
10. Plots 11 & 12 – IL of ST53 too high ie. Same level as R24. . Levels have been amended ok
11. Plots 10 & 11 – ST54 to R25 – gradient too slack. . Levels have been amended ok
12. Plots 8 & 9 - IL of ST55 too high ie. Higher than invert of R26. . Levels have been amended ok
13. Plots 7 & 8 - IL of ST56 too high ie. Higher than invert of R27. . Levels have been amended ok
14. Plot 6 - ST57 to R28 – gradient too slack. . Levels have been amended ok
15. Plots 1 to 5 - ST58 to R30 – gradient too slack. IL of ST58 too high ie. Higher than invert of R29. IL of ST59 too high ie. Higher than invert of S100/2. . Levels have been amended ok
16. All channel drains to have sump outlets – include on plan and construction detail. Note 19 added to plan and standard detail text ok
17. Fin drain outlet from granular storage – make its presence/extent clear on the plan. I appreciate it is included in the construction details. Description and extent highlighted on plan ok
18. Specify invert level of outlet pipe from granular storage to HB1. To avoid confusion with Phase 2 discharge manhole has now been labelled HB2 and outfall level is shown on plan and detail. ok
19. Road gullies – specify sump depth on construction detail. Sump depth specified on drg KNC2006-501-02 Rev B ok
20. Road gullies – specify pipe outlet invert levels and invert level at diffusers. Invert levels specified as 5 above ok
21. Show granular storage formation levels on plan. I appreciate there is a longitudinal section too. Storage invert levels shown on plan KNC2006-506-01 Rev B
22. Plot 26 (Phase 1) – specify invert level of existing manhole S4/4. This manhole is not now part of the drainage for Plots 2-18 & 2-19 and details not required for Phase 2 ok. Please update long section with revised headwall references.
23. Plot 12 – yard gully missing? Noted and now included ok
24. Include construction detail of diffuser unit arrangement for where properties connect to the granular sub base. Detail included on standard detail KNC2006-501-Rev C. ok
25. Confirm that the formation level of the granular storage is not below the level of peak recorded winter groundwater levels identified on Phase 1. As

discussed the formation level is below the level of the highest recorded groundwater level. It is now proposed to line the sub base storage areas with an impermeable membrane to prevent any groundwater rising into the storage areas. ok

26. Drawing 501-03 Rev A - Aquire Spire storage pipe detail not relevant – delete. This detail has been removed from the drawing ok
27. Drawing 501 01 Rev B – permeable block paving detail type 3 not relevant? – delete There is an area of permeable block paving which is situated at the eastern end of the site and in the lay-bys. It is identifiable on the drainage layout and also on the attached surfacing drawing KNC2006-507-01 Rev B. Noted but type 1 material is specified within the construction which is not permeable ie. how does water reach the attenuation sub base? I assume this is a typo as drg. KNC2006/501-03 Rev B shows a porous granular sub base.
28. Specify hydrobrake model on HB1 construction detail drawing. Specify ST4 concrete base, benching and block for hydrobrake fixing. Specify overflow invert level and surround pipe in min. 150mm thick ST4 concrete. Include step rungs. Specify class B engineering brickwork under cover/frame. Hydro Brake model specified and all other comments incorporated on drg KNC2006-501-03 Rev B ok but alter reference to headwall HA to H2.

#### Land Drainage Consent (Condition 9)

1. The discharge rate of 2 l/s is acceptable in this instance based upon the fact that any infiltration to ground has been discounted in the hydraulic calculations. Noted --
2. Show ditch bed levels at headwall and downstream on plan. Levels shown on drg KNC2006-502-01 Rev F ok
3. Manhole/headwall schedule shows the HA headwall as type H1 – label headwall construction detail as H1. This headwall has now been named H2 to avoid any confusion with other headwalls on the earlier phase. ok
4. Supply completed application form. Completed application for discharge to eastern ditch through H2 attached ok
5. I confirm that the £150 fee has been received. Noted --
6. Shorten the concrete apron to prevent it extending below the ditch bed. To terminate at the toe of the bank. This will allow the farmer to adjust ditch bed levels as necessary in the future. I have realised that the OWC for the previous phase approved the Tracey Concrete Standard Small headwall which is shown on the approved drawing KNC1826-501-04 Rev D. For continuity I am advocating the use of this headwall for the Phase 2 discharge so I have substituted this for the previously proposed brick construction headwall designated type HA. I trust this meets with your approval. ok

#### Maintenance Manual (Condition 10)

1. Include hydrobrake technical data sheets in the appendix. Hydro International standard detail and technical sheet for specified 'Hydro Brake' is now included ok
2. Include specific channel drain/sump and headwall maintenance. Maintenance of these items incorporated. ok
3. Item 2.0 – mention outlet from storage media ie. Fin drain. Reference to fin drain 4.1 ok
4. Highlight the importance of silt traps and their respective maintenance to prevent clogging of diffuser units. Referenced 3.2 ok

#### Access for maintenance (Condition 11)

1. Dimension ~~southern~~ western boundary fences, ensuring fences are at least 3m away from the top of the bank of the ~~southern~~ western boundary ditch. Critical dimension has now been shown on the Drainage Layout 502-01 and setting out drawing 506-01 ok

#### Western boundary ditch reinstatement

1. I confirm that land drainage consent was granted for this work. As part of the DOC application, you will need to not only submit the consent approval that you have provided but also the drawings associated with that approval. Consent approval for Western boundary and associated drawings attached in file 'OWC Consent for Western Boundary Ditch-May 2020' . --

Look forward to receiving your revised details.

Regards

**Paul Cann**  
Principal Drainage Engineer  
Engineering Services

**T:** 01903 737819

**E:** [paul.cann@arun.gov.uk](mailto:paul.cann@arun.gov.uk)

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**From:** Kazys Narbutas Consulting [REDACTED]  
**Sent:** 02 November 2020 16:09  
**To:** Paul Cann <[Paul.Cann@arun.gov.uk](mailto:Paul.Cann@arun.gov.uk)>; Sarah Burrow <[Sarah.Burrow@arun.gov.uk](mailto:Sarah.Burrow@arun.gov.uk)>  
**Cc:** Ian Sellar [REDACTED]  
**Subject:** Cinders Nursery Phase 2, Cinders Lane: Planning Consent Y/32/17/OUT

Paul

I have completed the detailed engineering design work for the above scheme and attached are my proposals together with substantiating information submitted for your comments prior to our formal application to discharge Conditions 8, 9, 10, 11, 12, 16 & 17

Specifically:

**Condition 8**, attached is a copy of the e-mail received from Sarah back in March confirming that groundwater monitoring and infiltration testing was not required.

**Condition 9**, attached is a copy of the OWC for the ditch and works to be undertaken on the west side. An OWC application has been made for the discharge on the east side, attached is a receipt of application.

**Condition 10**, attached is a copy of the SuDS Maintenance Manual addressing the points raised in the condition. In addition attached is a copy of the Water Quality Management document as referred to by Sarah in her e-mail.

**Condition 11**, Information and details of ditch maintenance are contained in the WQM document.

**Condition 12**, Details of the reparatory measures to the western ditch have been previously submitted and agreed.

**Condition 16**, I can confirm that upon completion of the works an updated copy of the SuDS Manual will be provided to the Planning Authority

**Condition 17**, I can confirm that on completion of the works 'As Built' drawings will be supplied to the LPA along with an independent report confirming that the works have been built in accordance with the approved plans.

In addition the following is submitted:

1. MicroDrainage calculations for the sub base attenuation storage designed in accordance with current EA criteria and a site plan showing discharge areas including an additional 10% allowance for 'urban creep'
2. A full set of engineering drawings showing drainage proposals, standard construction details and proposed finished levels.
3. Tarmac data sheet giving the specifications for the proposed granular storage that will achieve a porosity of 0.4.

If you have any issues or require anything further please contact me

Regards

**Kazys**

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  
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