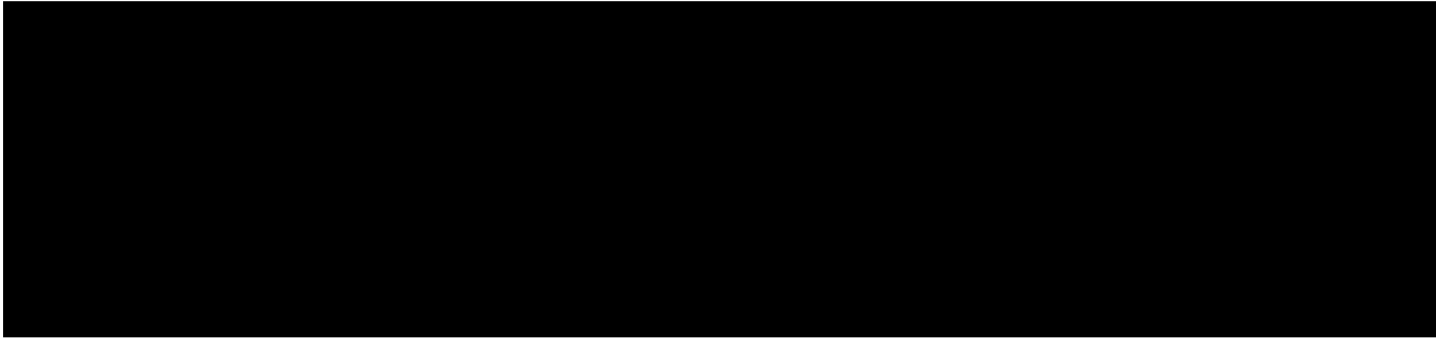
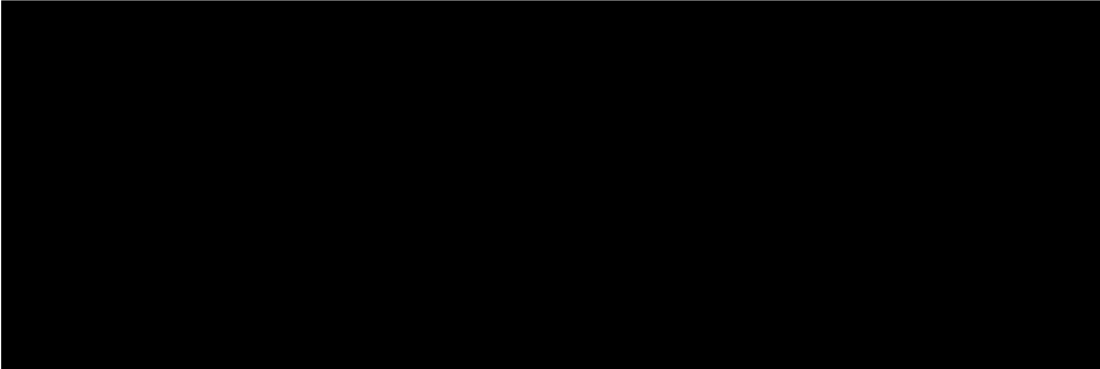






From: Steve Worthington 
Sent: 15 August 2017 18:20
To: Paul Cann
Cc: Barber, Robert; Michael Eastham; Terry Seymour; 'Kennett, Darren'; Karren Johnston
Subject: RE: Land East of Hook Lane - Discharge of Conditions - Drainage information

Good Afternoon Paul.

In response to your comments below.

The Windes calculations have been revised to show the corrected gradients at 1.007, 6.000 & 6.001.
The flooding to the pipes mentioned are located in areas not all adjacent to the swales. Typically there will be available storage within the sub-base of the permeable paving where any potential water not being able to be conveyed at the time of a 100 yr + cc can be stored. Any excess water can also be contained within the boundaries of the carriageway and will find a route to the gullies at the lower levels. It is anticipated that depths within the carriageway would not exceed 25mm.

This is all shown on Drawing 473 - Exceedance Flows

In the Maintenance Manual, a paragraph has been added on the Flow Control Maintenance.

I have been in touch with Darren Kennett at Barratts who has assured me that the station has been ordered with suitable alarm, however the telemetry system will be added into the package, once the station goes on maintenance.

Your point 4 is addressed on Drawing 453 C3

Kind regards,

Steve

Steve Worthington
Senior Engineer



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Cc: Steve Worthington [REDACTED] Barber, Robert [REDACTED]
Michael Eastham <Michael.Eastham@arun.gov.uk>; Terry Seymour [REDACTED] 'Kennett,
Darren' [REDACTED]
Subject: RE: Land East of Hook Lane - Discharge of Conditions - Drainage information

Hi Karren

Comments in respect to points below;

1. Noted.
2.
 - a) Noted
 - b) Noted but 1.007 still has a different gradient to that shown on the plan.
 - c) Noted
 - d) Noted
 - e) 6.000 and 6.001 have different gradients to that shown on the plan.
 - f) Noted
 - g) Noted
 - h) Flooding is predicted on pipes 1.000, 1.001, 3000, 3.001, 2.002, 5.000, 5.001, and 1.003. Please advise of flood extents/depths. I assume available storage in the permeable paving/swales hasn't been allowed for in the calculations?
3. Could you point out in document where hydrobrake maintenance is covered and where it specifies the chosen pumping station alarm arrangement/notification.
4. Detail to protect the northern boundary noted, but I can't see how the eastern boundary will be dealt with in order to cater for surface runoff/ seepage through the bank, from the higher ground. I.e. perhaps an impervious clay barrier/French drain arrangement?

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
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From: Karren Johnston [REDACTED]
Sent: 11 August 2017 18:36
To: Paul Cann
Cc: Steve Worthington; Barber, Robert; Michael Eastham; Terry Seymour; 'Kennett, Darren'
Subject: RE: Land East of Hook Lane - Discharge of Conditions - Drainage information

Hi Paul

Thanks for your comments below. Please find attached revised drawing 321 which addresses points 1 and 4. Also attached is the revised Maintenance Manual addressing points 2 and 3.

Kind regards,

Karren

Karren Johnston BEng (Hons) CEng MICE
Engineering Associate



Rogers Cory Partnership Ltd
Architectural & Civil Consultants
The Old School Old School Road
Hook Hampshire RG27 9NJ

[REDACTED]

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From: Paul Cann [<mailto:Paul.Cann@arun.gov.uk>]
Sent: 11 August 2017 11:20
To: Karren Johnston [REDACTED]
Cc: Steve Worthington [REDACTED] Barber, Robert [REDACTED]
Michael Eastham <Michael.Eastham@arun.gov.uk>; Terry Seymour [REDACTED] 'Kennett, Darren' [REDACTED]
Subject: RE: Land East of Hook Lane - Discharge of Conditions - Drainage information

Hi Karren

Comments;

1. Notes relating to item 1 noted, but the note only needs to refer to the ditch south of the new access, as there is no ditch north of it. Please amend drg.
2. MD Calculations –
 - a) Provide a numbered network plan.
 - b) Pipe diameters/gradients, etc for 1.005, 1.006, 1.007 and 1.008 are different to what is shown on the plans.
 - c) 1.008 shows a different outfall level.
 - d) S27 to HW not included in calcs.
 - e) Pipes leading to tanks/ponds need to be included in calcs.
 - f) Pumping station shown at manhole S4 rather than S3.
 - g) Pond 1 base shown as 8.200 but should be 9.000.
3. The maintenance manual needs to make specific reference to grille maintenance, hydrobrake maintenance and silt removal (when required) from the southern and eastern boundaries. Details of the alarm/response arrangements for the pumping station should also be specified. The manual needs to specify who (ie. management company) will be responsible for maintaining the surface water/land drainage system and how it will be funded.
4. I don't think a fin drain is the answer as this could potentially move flows quicker to the lower areas and may not totally eradicate the chance of water passing to the lower ground In Cherry Trees during extreme conditions. An impermeable barrier built into the construction where adjacent to the northern and eastern boundaries of Cherry Trees should be considered. A detail will be required.

Look forward to receiving your revised drg/calcs and manual.

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

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From: Karren Johnston [REDACTED]
Sent: 10 August 2017 20:45
To: Paul Cann
Cc: Steve Worthington; Barber, Robert; Michael Eastham; Terry Seymour; 'Kennett, Darren'
Subject: RE: Land East of Hook Lane - Discharge of Conditions - Drainage information

Paul,

Please find attached in response to your comments below (responses in RED).

Please note that the microdrainage calcs are appended in the O&M manual.

With regard to item 4 instead of barrier as you have suggested we have introduced a fin drain to move the surface water from the impermeable strata to low lying areas.

Kind regards,

Karren

Karren Johnston BEng (Hons) CEng MICE
Engineering Associate



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

Sent: 10 August 2017 11:52

To: 'Kennett, Darren' [REDACTED]

Cc: Steve Worthington [REDACTED] Karren Johnston [REDACTED] Barber, Robert [REDACTED] Michael Eastham <Michael.Eastham@arun.gov.uk>

Subject: RE: Land East of Hook Lane - Discharge of Conditions - Drainage information

Hi Darren

Comments;

1. I await an updated drawing to say that the shallow ditch alongside Hook Lane will be retained in part and cleaned out. Note added to Drawing Attached.
2. Still awaiting microdrainage calcs required for the main surface water system – see item 33 email dated 13.7.17 from Steve. Microdrainage Calcs attached.
3. Still awaiting the maintenance manual originally received in March - needs updating to reflect the current proposals. (Condition no. 9) – see item 34 email dated 13.7.17 from Steve. Maintenance Manual attached.
4. Access road drainage – I note Steve's thinking and the constraints that have led to this unconventional arrangement. You need to be absolutely sure that there will be no detriment to the property 'Cherry Trees' as a result of these proposals, including during the 1 in 100 year storm event + climate change allowance. Please confirm. It may be a good idea to introduce an impermeable barrier where the road construction/excess flow area is higher than their ground levels? Fin drain added refer to attached drawing.

Regards

Paul Cann
Senior Engineer (Drainage & Coastal)

Paul Cann | Senior Engineer (Drainage & Coastal), Engineering Services, Arun District Council | Location: First Floor, Arun Civic Centre,
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From: Kennett, Darren [REDACTED]
Sent: 07 August 2017 16:57
To: Paul Cann
Cc: Steve Worthington; Karren Johnston; Barber, Robert
Subject: Land East of Hook Lane - Discharge of Conditions - Drainage information

Hi Paul,

Please find a response from RCP below along with updated drawings for your comment/approval.

On a side note, Freeflow are undertaking further CCTV works to the surface water culvert on Friday 11th Aug.

Thankyou & Regards

Darren



BARRATT
DEVELOPMENTS PLC

Darren Kennett
Senior Technical Project Manager



<http://www.barrattddevelopments.co.uk>

BDW Southampton | Tollbar House | Tollbar Way
Hedge End | Southampton SO30 2UH

Hi Paul

7. Note on 454 C4 now refers to outfall headwall from Pond 1 as well.
12. Updated drawing attached. 22.1 C2

Permeable paving for access road ---

- * The permeable paved access road will not increase the existing greenfield runoff in this location.

- The sub base stone is to be wrapped in a permeable geotextile, and there will be a percentage of the sub base that will have some potential to act as storage. I have indicated the overland flow routing on drawing 321. The blue arrows indicate the flow paths for the access road and the grey arrows are the flow paths for the existing ground beneath the road construction. There is no positive drainage in this area due to the no dig restrictions and the road as designed is intended to mimic the greenfield condition whereby the surface water will be able to find its way into the ground over the whole area.
- Flows that pass through the porous asphalt layers will eventually find the lowest point in the access road sub base which will be around chainage 15.00 on the southern channel. It is anticipated that from this point any flows, that have not flowed north through the sub base to the east of chainage 15.00, can be conveyed by a short permeable pipe in the sub-base layer to an open space area north of the access road where any excess run off will percolate into the existing sub strata.
- The percentage voids in the 4/20 coarse aggregate material in the sub-base will be low (5-10%) and will provide between 11-22m³ of potential storage volume.
- The access road & footway area draining through the sub-base will be 502m².
- Windes calculations attached, would indicate that on a 30 year return period, the surface water runoff volume would be 14.7 cum.. This volume would dissipate through the permeable paving and at the interface of the existing ground would route to an area north of the access road. This area would form a shallow hollow to contain any runoff within the site.

Kind regards,

Steve

Steve Worthington
Senior Engineer



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

Sent: 03 August 2017 12:02

To: Steve Worthington

Cc: Karen Johnston Terry Seymour 'Brad Slingo'

'Darren Kennett'

Subject: RE: Land East of Hook Lane - Discharge of Conditions - Drainage information

Hi Steve

7. Noted but note also needs to refer to headwall in pond 1.

- 12. Construction details received direct from Barratts but your drawings need to be updated to suit.
- 13. Received direct from Barratts.
- 26. Await excavation of trial holes.
- 32. Noted.

Permeable paving for access road –

- a) Microdrainage calculations/winter percolation testing data needs to be provided to support the proposals.
- b) Due to the variable finished road surface levels, the permeable pavement may need to incorporate a stepped base/impermeable barriers to prevent water in the storage layers all ending up at the lowest point and not making use of the available storage. Please confirm/detail.
- c) I assume the road (chainage 2.437 to 10.000) will be traditional construction and run off onto the permeable pavement?
- d) What is preventing water from exiting the permeable pavement (in the raised section) and discharging onto the lower adjacent ground?

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

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From: Steve Worthington [REDACTED]
Sent: 01 August 2017 16:53
To: Paul Cann
Cc: Karren Johnston; Terry Seymour; 'Brad Slingo'; 'Darren Kennett'
Subject: RE: Land East of Hook Lane - Discharge of Conditions - Drainage information

Good Afternoon Paul.

Thanks for meeting us on site yesterday.

I trust that with the information provided by Darren and our response to the outstanding queries, that we can now clear the surface water drainage condition.

- 7. Can you advise which drawing number has been updated, noting a solid concrete base to accommodate the grille fixing on the bagwork headwalls. - See drawing 454
- 12. Awaiting full construction details of pumping station. The longitudinal section needs to show the base level of the pumping station and the revised rising main discharge level. – the design for the SW pumping station is awaited
- 13. Awaiting technical data sheets for pumping station. – the design is awaited
- 26. To be discussed on site today. Decision rests with ourselves, not WSCC Highways, as the land drainage consenting authority. We have informed WSCC Highways accordingly. – following discussion, Barratt will be carrying out some further investigations on the drainage alongside Hook Lane. Subject to findings, some further work may be required. This will follow in due course.

32. Noted but there is certainly ground raising in the SE corner in order to accommodate the drainage arrangements. -- This is a local raising of ground levels around the proposed outfall to the eastern boundary ditch and was implemented as per email discussions. As discussed this information will be sent to the planners confirming that other than this minor increase, there are no other changes to site levels or the FFLs.

In addition, I have attached the construction details for the access road for your information.

Kind regards,

Steve

Steve Worthington
Senior Engineer



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

Sent: 31 July 2017 11:26

To: Steve Worthington

Cc: Karren Johnston

Terry Seymour

'Brad Slingo'

'Darren Kennett'

Subject: RE: Land East of Hook Lane - Discharge of Conditions - Drainage information

Hi Steve

Comments in response to those outstanding;

4. Noted.

5. Noted.

6. Noted.

7. Can you advise which drawing number has been updated, noting a solid concrete base to accommodate the grille fixing on the bagwork headwalls.

12. Awaiting full construction details of pumping station. The longitudinal section needs to show the base level of the pumping station and the revised rising main discharge level.

13. Awaiting technical data sheets for pumping station.

16. Noted.

20. Noted.

24. Noted.

26. To be discussed on site today. Decision rests with ourselves, not WSCC Highways, as the land drainage consenting authority. We have informed WSCC Highways accordingly.

27. Noted.

28. Noted.

32. Noted but there is certainly ground raising in the SE corner in order to accommodate the drainage arrangements.

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

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From: Steve Worthington [REDACTED]
Sent: 27 July 2017 15:09
To: Paul Cann
Cc: Karren Johnston; Terry Seymour; 'Brad Slingo'; 'Darren Kennett'
Subject: RE: Land East of Hook Lane - Discharge of Conditions - Drainage information

Good Afternoon Paul

In response to your email below.

4. Show pipe on longitudinal section and specify pipe invert at headwall (should be say 150mm above the ditch bed level after cleaning out). Based upon the gradient/levels, I assume it will be connected via external backdrop to MH S5 (adjust drawings). Note on drawing 463E mentions installing non return valve at upstream end, presume you mean downstream end as stated on drg. 221D (alter as necessary). I note the proposal to use a concrete bag headwall, however, it will need to be modified to provide fixing points for the grille (note or detail drawing). Provide cranked grille detail from Athlon Ltd. -- A longitudinal section of the outfall pipe from the southern ditch has been added to the Surface Water Long Section drg. 222. Notes on 463 have been revised.
5. Detail noted on drg. 463E. Provide cranked grille detail from Athlon Ltd. The horizontal roof section of the grille needs to be greater than that shown on the cross section. -- Drawings have been updated to show typical details of the grille.
6. Noted. I think, just make it clear on drg. 454F that erosion control is required on the bank opposite the rising main discharge. The rising main outlet invert is the same as the new bed level for the ditch. Can this invert be raised slightly to give some freeboard (say 100mm)? -- Notes on drawings have been updated about the erosion control and the rising main outlet invert has been raised 100mm.
7. I note the proposal to use a concrete bag headwall, however, it will need to be modified to provide fixing points for the grille (note or detail drawing). Provide cranked grille detail from Athlon Ltd. -- Notes have been updated to bagwork headwalls to include additional concrete face & apron to allow for the cranked grille.
16. CP7 & CP8 seem to have the same invert level. -- Inverts have been updated.

20. Noted but I think the pipelines between S8 and S23 need to have the gradient improved. This can be achieved by adjust the backdrop into S8. -- The longitudinal section S8-S23 has been revised to increase the gradient of this pipe run. drg. 222
24. Some of the connections to the swale on drg. 452F fall short of connecting to the French drain. Please extend the lines, so it is clear. Pipes extended as requested. Alternatively, If the proposal is to connect through the bank of the swale, then headwalls are required (specify on drg).
26. I have visited site today and note that the land drainage system in Hook Lane is very fragmented. There is a shallow ditch along part of the frontage. It is unclear as to whether a pipe exists across the remainder. This needs to be investigated. Please also provide details of how the surface of the access road/bell mouth will be drained. -- In negotiation with WSCC on the Section 278 Highways Agreement for the access off Hook Lane, this was discussed. The S278 plan attached, now has technical approval.
27. Provide cranked grille detail from Athlon Ltd. The horizontal roof section of the grille needs to be greater than that shown on the cross section. -- Drawings have been updated to show typical details of the grille. Specify 300mm diameter/gradient pond outlet on drg. 454F. -- This has been added to the drawings
28. Noted. I assume excess water utilises the lowered area above tank no.2 by escaping from the vented covers of the catchpits. -- That is correct.
32. External levels have not been raised on this development. All levels were agreed with the Planning Dept. and were shown on the Levels Strategy Plan which is attached.

Revised drawings are attached for your consideration & clearance of conditions.

Looking forward to our meeting on Monday where I trust we can resolve any outstanding issues.

Kind regards,

Steve

Steve Worthington
Senior Engineer



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

Sent: 25 July 2017 11:59

To: Steve Worthington

Cc: Karren Johnston Terry Seymour 'Brad Slingo'
'Darren Kennett'

Subject: RE: Land East of Hook Lane - Discharge of Conditions - Drainage information [Filed 25 Jul 2017 12:07]

Hi Steve

Comments in response to those below;

1. Noted.
2. Noted.
3. Noted.
4. Show pipe on longitudinal section and specify pipe invert at headwall (should be say 150mm above the ditch bed level after cleaning out). Based upon the gradient/levels, I assume it will be connected via external backdrop to MH S5 (adjust drawings). Note on drawing 463E mentions installing non return valve at upstream end, presume you mean downstream end as stated on drg. 221D (alter as necessary). I note the proposal to use a concrete bag headwall, however, it will need to be modified to provide fixing points for the grille (note or detail drawing). Provide cranked grille detail from Athlon Ltd.
5. Detail noted on drg. 463E. Provide cranked grille detail from Athlon Ltd. The horizontal roof section of the grille needs to be greater than that shown on the cross section.
6. Noted. I think, just make it clear on drg. 454F that erosion control is required on the bank opposite the rising main discharge. The rising main outlet invert is the same as the new bed level for the ditch. Can this invert be raised slightly to give some freeboard (say 100mm)?
7. I note the proposal to use a concrete bag headwall, however, it will need to be modified to provide fixing points for the grille (note or detail drawing). Provide cranked grille detail from Athlon Ltd.
8. Noted.
9. Noted.
10. Noted.
11. Noted.
12. Awaiting.
13. Awaiting.
14. Noted.
15. Noted.
16. CP7 & CP8 seem to have the same invert level.
17. Noted.
18. Noted.
19. Noted.
20. Noted but I think the pipelines between S8 and S23 need to have the gradient improved. This can be achieved by adjust the backdrop into S8.
21. Noted.
22. Noted.
23. Noted.
24. Some of the connections to the swale on drg. 452F fall short of connecting to the French drain. Please extend the lines, so it is clear. Alternatively, If the proposal is to connect through the bank of the swale, then headwalls are required (specify on drg).
25. Noted.
26. I have visited site today and note that the land drainage system in Hook Lane is very fragmented. There is a shallow ditch along part of the frontage. It is unclear as to whether a pipe exists across the remainder. This needs to be investigated. Please also provide details of how the surface of the access road/bell mouth will be drained.
27. Provide cranked grille detail from Athlon Ltd. The horizontal roof section of the grille needs to be greater than that shown on the cross section. Specify 300mm diameter/gradient pond outlet on drg. 454F.
28. Noted. I assume excess water utilises the lowered area above tank no.2 by escaping from the vented covers of the catchpits.
29. Noted.
30. Noted.
31. Noted.
32. Awaiting.
33. To be provided at a later date.

Look forward to your comments/revisions.

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

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Save the environment - think before you print.

From: Steve Worthington [REDACTED]
Sent: 13 July 2017 10:58
To: Paul Cann
Cc: Karren Johnston; Terry Seymour; 'Brad Slingo'; 'Darren Kennett'
Subject: RE: Land East of Hook Lane - Discharge of Conditions - Drainage information

Good Morning Paul

We have now addressed the points in your email of the 27th June and have attached (see below) revised & new drawings in support of information issued to discharge the surface water drainage conditions.

Please note that because of the size of the attachments, that these will be sent by external source, wetransfer.com. Please check your email for a link to these drawings. Sometimes the email may end up in the junk email folder.

1. Provide long section of eastern boundary ditch, showing existing/proposed levels. – This is shown on Drg No. BSO/E4462/472
2. Add note to drawing with reference to the eastern offsite culvert/ditch – ie. to be repaired as necessary to ensure full working order, to the satisfaction of ADC Engineers. . – This is shown on Drg No. BSO/E4462/454 F
3. Detail how the eastern boundary ditch is going to be disconnected from the southern ditch to ensure no backflow to the southern ditch. . – This is shown on Drg No. BSO/E4462/454 & 504 F. A berm is to be constructed to split the ditch sections with a maximum ground level of 10.000m
4. Clean out southern boundary ditch to provide localised attenuation/drainage, to the satisfaction of ADC engineers (add note) and connect this ditch to the onsite Suds via a pipe, say 300mm diameter (provide full details). I would suggest installing a non-return flap on the pipe as it enters the suds system. A cranked grille/headwall will be required on the ditch outlet. . – This is shown on Drg No. BSO/E4462/463 E
5. Ditch outfall headwall (to existing 225mm diameter pipe) – A cranked type grille will be required with 75mm spacing's. Will need to be custom fabricated to suit the situation. Adapt existing headwall to suit. A concrete apron may need to be constructed if one doesn't already exist. Provide a revised detailed construction drawing, including bar thicknesses/dimensions/galvanising spec/fixings, etc. . – This is shown on Drg No. BSO/E4462/463 E
6. Outfall to ditch from pumping station – section c-c headwall detail needs to show true representation in terms of details/levels/rising main diameter/pipe invert level. A grille is also not required. The bagwork needs adjustment to replicate the bed of the ditch. The bagwork is shown as 'stepped' which is not what is required. I would suggest that the erosion control on the far bank takes the form of concrete paving slabs. See enclosed detail to base the proposal on. – This section & details has been removed from the drawing. A

compliance reference to the WSCC standard detail S278/38/23 has been added to the drawings in general where concrete bagwork headwalls are required, and this applies to the outfall from the pumping station.

7. Attenuation pond 1 outlet/inlet headwall – Increase pipe diameter to say 300mm. Again the bagwork is shown ‘stepped’ – see comment no.6 (see note in 6 above). Specify pipe invert (9.000m?) – the details shows a drop/step between the basin bed level of 9.000m and the pipe invert 9.000m. A cranked trash screen is required – a similar detail is required as that specified in comment no.5
8. Attenuation pond 1 to connect to S34 via external backdrop (no cap to be put onto the rodding eye-add note). . – This is shown on Drg No. BSO/E4462/463 E
9. Pipework upstream of S34 – provide manholes/access chambers on all changes of direction/connection and entries to tank. Include pipe diameters/levels/gradients. Min. diameter 300mm. S34 to S5 – upsize to 300mm dia. . – This has been revised on all plans /sections & schedules
10. Adjust attenuation pond 1 and/or tank so that the crates are not located under the pond bank slope (see layout drg). . – The crates have been relocated to avoid the pond banks.
11. Attenuation pond 1 – provide full details of the land drain in the pond base. . – This is shown on Drg No. BSO/E4462/463 E & 464 E
12. Provide full construction details of pumping station. The longitudinal section needs to show the base level of the pumping station. The SW pumping station design is being resolved at the moment and will be forwarded on receipt from the designer.
13. Provide technical data sheets for pumping station. – As above
14. Provide technical data sheet for hydrobrakes. – Technical design data sheets are attached for your information.
15. Control chamber S5 detail shows a different incoming pipe diameter to that shown on the layout drawings. Chamber requires step irons/rungs. Pipe from pond to connect at soffit to soffit level. Rocker pipe should be noted as the pipe length beyond the pipe that passes through the manhole wall. Reduce benching to provide a larger sump in front of hydrobrake. Mount pull handle in brickwork directly above the hydrobrake. Alter note 4 on drawing from 6th edition to 7th edition. . – The control chamber details BSO/E4462/465 & 466 have been revised. Rocker pipes/additional connections, step rungs & moving the pull handle have been revised/added. We have added a note to the details about the sump. We cannot show a larger sump as this is detailed on the Hydrobrake Technical information and specifying a larger sump would render the design invalid. SFA 6th Edition plus Interim Addendum is being used by Southern Water at the present time.
16. Attenuation tank 1 & 2– clearly label catchpits on layout drawing and provide fully detailed drawing of catchpits, ie. greater detail than that shown on drg. BSO/E4462/467. . – Catchpit & schedule are shown on Drg No. BSO/E4462/464 E.
17. Attenuation tank 1 – there appears to be a secondary link pipe between the two tanks show on the plans but no details are given. Ie. immediately east of CP1. . – This has been removed from the design.
18. Provide full details of permeable paving/fin drains. Permeable pavement between plots 71/72 appears to have no outlet. . – This is shown on Drg No. BSO/E4462/323. The outlets have been checked.
19. Provide full details of swales including KO’s. All outlets/inlets require headwalls – provide details. The outlet pipes need to connect with the flow in the main pipes, not against. Examples are swales in plots 71,72,73. – The Drainage Layouts BSO/E4462/452 F & 454 F have been updated to show swale information. Additional information/schedules for the catchpit outfalls in the swales has been added to BSO/4462/462 F.
20. A number of pipes in the network do not achieve a satisfactory gradient to achieve a full bore velocity of 1 m/s, a recognised in ‘Sewers for Adoption’. Please adjust gradients. – As this network is not to be adopted and is in the greater part a system of attenuation, the designer is satisfied that the network is suitable.
21. Provide manhole construction details, including external backdrop details and specify locations of catchpit manholes. . – Manhole construction & backdrop shown on Drg No. BSO/E4462/413 A & 414 A. Catchpit manholes have been added to the Drainage layouts as required.
22. Specify pipe bedding details on long sections for where there is >1.2m cover. . – Concrete bed & surround has been shown on the long sections where required.
23. There seems to be an odd pipe arrangement immediately south of plot 60. rodding eye . – The requirement to locate drainage in the rear gardens 5m clear of the rear elevation has been applied.
24. Provide copy of drawing BSO/E4462/462 to include full details of northern boundary swales and specify all pipe details/inverts upstream of manhole S26. Specify all pipe details relating to the link pipe between the two swales (pipe diameter to be 225mm dia. or greater if possible). All inlets/outlets require headwalls – provide details. What is draining into the swale north of plot 22? Drain plot 22 into it? . – This is shown on Drg No. BSO/E4462/472

25. Specify pond volumes and base/bank levels on layout plan. . -- This is shown on all drainage drawings where appropriate.
26. Provide drainage details for access road off Hook Lane including full details of proposed ditch crossing. The ditch crossing at the junction of Hook Lane with the development access has been designed out following liaison with the WSCC highways engineer with respect to the Section 278 Agreement works at the junction.
27. Attenuation pond 2 - provide full details of the land drain in the pond base. Specify outlet pipe diameter (min. 300mm), levels and gradient. Outlet/inlet headwall - bagwork is shown 'stepped' – see comment no.6. A cranked trash screen is required – a similar detail is required as that specified in comment no.5. -- This is shown on Drg No. BSO/E4462/470 A
28. Attenuation tank no.2 - Pipework upstream of S35 to tank – provide manholes/access chambers on all changes of direction/connection and entries to tank. Include pipe diameters/levels/gradients. Min. 300mm diameter. S17 to S35 – upsize to 300mm dia. -- All items addressed and shown on the drainage layouts/sections & schedules Please explain/show how lowered area above the tank will be utilised for storage/interconnected. -- The lowered area around pond 2 and over tank 2 is to provide temporary storage of surface water during peak storm events exceeding the designed storm event of 100 year + 30% climate change.
29. Control chamber S8 detail shows two incoming 375mm pipes, one above the other – please show clearly as a backdrop. The 300m pipe should also be shown as a backdrop. Chamber requires step irons/rungs. Pipe from pond to connect at soffit to soffit level. Rocker pipe should be noted as the pipe length beyond the pipe that passes through the manhole wall. Reduce benching to provide a larger sump in front of hydrobrake. Mount pull handle in brickwork directly above the hydrobrake. Alter note 4 on drawing from 6th edition to 7th edition. -- The control chamber details BSO/E4462/465 & 466 have been revised. Rocker pipes/additional connections, step rungs & moving the pull handle have been revised/added. We have added a note to the details about the sump. We cannot show a larger sump as this is detailed on the Hydrobrake Technical information and specifying a larger sump would render the design invalid. SFA 6th Edition plus Interim Addendum is being used by Southern Water at the present time.
30. Attenuation tanks nos. 1 & 2 – all link pipes between the crates and catchpits to be min. 300mm diameter. -- This is shown on all drainage drawings where necessary.
31. Confirm that all ponds/tanks have been checked against floatation. Confirmed
32. Provide a drawing showing any areas of ground raising on the site, clearly indicating proposed and existing levels. This will need to be considered by the planners. -- Copies of the External levels layouts are attached for information. Note that the existing and proposed levels are shown on these drawings.
33. Provide full microdrainage calculations to reflect the revised proposals. -- to follow
34. Maintenance manual will need to include technical data for pumping station and hydrobrakes. -- Noted -this will be issued later

Kind regards,

Steve

Steve Worthington
Senior Engineer



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----- Original message -----

From: Paul Cann <Paul.Cann@arun.gov.uk>

Date: 27/06/2017 10:29 (GMT+00:00)

To: Terry Seymour [REDACTED]

Subject: RE: Land East of Hook Lane - Discharge of Conditions - Drainage information

Hi Terry

Comments on proposals;

1. Provide long section of eastern boundary ditch, showing existing/proposed levels.
2. Add note to drawing with reference to the eastern offsite culvert/ditch – ie. to be repaired as necessary to ensure full working order, to the satisfaction of ADC Engineers.
3. Detail how the eastern boundary ditch is going to be disconnected from the southern ditch to ensure no backflow to the southern ditch.
4. Clean out southern boundary ditch to provide localised attenuation/drainage, to the satisfaction of ADC engineers (add note) and connect this ditch to the onsite Suds via a pipe, say 300mm diameter (provide full details). I would suggest installing a non-return flap on the pipe as it enters the suds system. A cranked grille/headwall will be required on the ditch outlet.
5. Ditch outfall headwall (to existing 225mm diameter pipe) – A cranked type grille will be required with 75mm spacing's. Will need to be custom fabricated to suit the situation. Adapt existing headwall to suit. A concrete apron may need to be constructed if one doesn't already exist. Provide a revised detailed construction drawing, including bar thicknesses/dimensions/galvanising spec/fixings, etc.
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9. Pipework upstream of S34 – provide manholes/access chambers on all changes of direction/connection and entries to tank. Include pipe diameters/levels/gradients. Min. diameter 300mm. S34 to S5 – upsize to 300mm dia.
10. Adjust attenuation pond 1 and/or tank so that the crates are not located under the pond bank slope (see layout drg).
11. Attenuation pond 1 – provide full details of the land drain in the pond base.
12. Provide full construction details of pumping station. The longitudinal section needs to show the base level of the pumping station.
13. Provide technical data sheets for pumping station.
14. Provide technical data sheet for hydrobrakes.

15. Control chamber S5 detail shows a different incoming pipe diameter to that shown on the layout drawings. Chamber requires step irons/rungs. Pipe from pond to connect at soffit to soffit level. Rocker pipe should be noted as the pipe length beyond the pipe that passes through the manhole wall. Reduce benching to provide a larger sump in front of hydrobrake. Mount pull handle in brickwork directly above the hydrobrake. Alter note 4 on drawing from 6th edition to 7th edition.
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17. Attenuation tank 1 – there appears to be a secondary link pipe between the two tanks show on the plans but no details are given. Ie. immediately east of CP1.
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19. Provide full details of swales including KO's. All outlets/inlets require headwalls – provide details. The outlet pipes need to connect with the flow in the main pipes, not against. Examples are swales in plots 71,72,73.
20. A number of pipes in the network do not achieve a satisfactory gradient to achieve a full bore velocity of 1 m/s, a recognised in 'Sewers for Adoption'. Please adjust gradients.
21. Provide manhole construction details, including external backdrop details and specify locations of catchpit manholes.
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23. There seems to be an odd pipe arrangement immediately south of plot 60.
24. Provide copy of drawing BSO/E4462/462 to include full details of northern boundary swales and specify all pipe details/inverts upstream of manhole S26. Specify all pipe details relating to the link pipe between the two swales (pipe diameter to be 225mm dia. or greater if possible). All inlets/outlets require headwalls – provide details. What is draining into the swale north of plot 22? Drain plot 22 into it?
25. Specify pond volumes and base/bank levels on layout plan.
26. Provide drainage details for access road off Hook Lane including full details of proposed ditch crossing.
27. Attenuation pond 2 - provide full details of the land drain in the pond base. Specify outlet pipe diameter (min. 300mm), levels and gradient. Outlet/inlet headwall - bagwork is shown 'stepped' – see comment no.6. A cranked trash screen is required – a similar detail is required as that specified in comment no.5.
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31. Confirm that all ponds/tanks have been checked against floatation.
32. Provide a drawing showing any areas of ground raising on the site, clearly indicating proposed and existing levels. This will need to be considered by the planners.
33. Provide full microdrainage calculations to reflect the revised proposals.
34. Maintenance manual will need to include technical data for pumping station and hydrobrakes.

I look forward to receiving your revised details. Any queries, please let me know.

Regards

Paul Cann
Senior Engineer (Drainage & Coastal)

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From: Terry Seymour [REDACTED]
Sent: 15 June 2017 19:37
To: Paul Cann
Cc: Kennett, Darren; Slingo, Bradley; Karren Johnston
Subject: Land East of Hook Lane - Discharge of Conditions - Drainage information

Hi Paul

I hope you are well,

I'm not sure if the detailed drainage information with drawings, calculations etc... has made its way over to you yet following the formal submission to the Council the other week, so I have attached the information for ease of reference to assist

Can you please let me know you have any comments, concerns, or require any additional information etc... and I can look to review these asap to assist with the discharge of conditions.

Many Thanks

Terry Seymour CEng MICE
Engineering Director



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