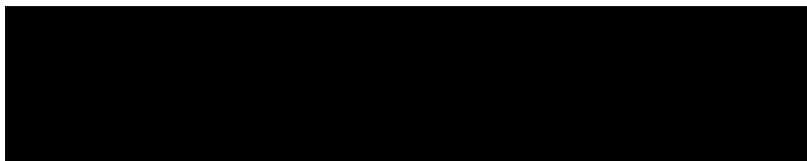




Please upload the 3 attached REVISED drainage plans from the applicant onto Ocella for BE/135/18/PL – Salt Box.

Thanks,

Michael

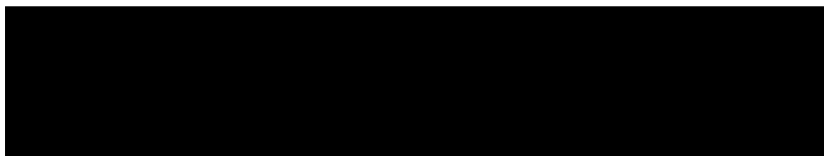


M

7901 & 7020 have just come in as per my request for minor mods of Hydrock
7021 is as it was yesterday but updates what you have on the system

I'll do our email of no objection shortly

R



Hi Roger,

Thanks for your call. Please find attached updated drawings following our conversation:

SAL-HYD-00-ZZ-SK-C-7901_P04

- Cover levels text as 2.000.
- Noted added with regards to access along the culvert.
- Please note the length is currently shown on there (second bit of text)

SAL-HYD-00-ZZ-DR-C-7020_P05

- Note updated to state 155m.
- Catchpit text added.

Kind regards,

Jason Magee
Senior Infrastructure Engineer



[REDACTED]

Good afternoon Roger,

Following our conversation please see attached amended calcs and drawings. Items as follows:

- Manholes with catchpits added every 50m through the culvert for maintenance. Length shown as 157m to accommodate the manholes.
- Benching loss accounted for within cross-sectional area of culvert (area reduced to 7.2m²). Therefore culvert increased to 155m.
- Manholes S7 and S8 raised to cover level of 2.000 as discussed these will be in form of chimney manholes.
- Calculations without surcharge outfall sent for both networks to show downstream pipes don't exceed discharge rate. (Network uses 3.0 l/s in the 100 year without surcharge scenario).
- Head of water:
 1. Network 2 – Top of culvert - HydroBrake = 1.530m
 2. Network 3 Unit 1 – Top of tank - HydroBrake = 1.220m
 3. Network 3 Unit 9 – Top of tank - HydroBrake = 1.050m

Email also attached from Innovyze explaining how to review this irregularity, which was the only option available. This was unsuccessful approach. As there is no additional catchment run-off going into these pipe we consider this an anomaly.

Kind regards,

Jason Magee
Senior Infrastructure Engineer

[REDACTED]

From: Jason Magee
Sent: 21 October 2019 15:19
To: Roger Spencer <[REDACTED]>
Cc: Paul Cann <[REDACTED]>; Michael Eastham <[REDACTED]>; 'Mike Griffin' <[REDACTED]>
Subject: FW: Salt box - Network 2 and 3 Microdrainage Schematics

Hi Roger,

Please see attached revised calculations and drawings following your comments.

Network 3 Unit 1-9

SAL-HYD-00-ZZ-CA-C-0003 - Network 3 / SAL-HYD-00-ZZ-SK-C-7900 P03

- We have now moved the drainage runs S3-S5 into the hardstanding just outside Unit 1 to suit levels.
- Car park levels have not changed, the first Drawnet model had not updated to the required flood compensation levels, apologies for the confusion here.
- All levels around Unit 1 and car park are above the flood compensation and have been considered in the model. Cover levels should now reflect this.

Network 2 Access Road

SAL-HYD-00-ZZ-CA-C-0002 - Network 2 / SAL-HYD-00-ZZ-SK-C-7901 P02

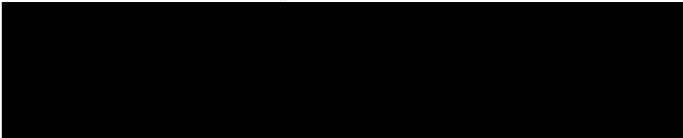
- We have updated the culvert to amend the cross-sectional discrepancy (now 5000mm x 1500mm) at 7.5m² cross section.
- We have also allowed for the surcharge outfall and therefore increased the size accordingly (140m).
- Shows flooding at MH 57 and 58 (because cover levels at 1.800).

Following culvert update and change to S3-S5 location drawings SAL-HYD-00-ZZ-SK-C-7900 and SAL-HYD-00-ZZ-DR-C-7020-7020 have also been updated.

Kind regards,

Jason Magee

Senior Infrastructure Engineer



From: Mike Griffin 

Sent: 18 October 2019 17:58

To: Roger Spencer <k>

Cc: Paul Cann <>; Michael Eastham <>; Jason Magee <t>

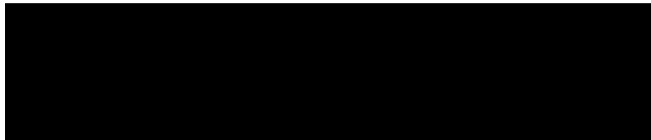
Subject: RE: Salt box - Network 2 and 3 Microdrainage Schematics

Hi Roger,

I've asked Jason (who did the calcs) to give you a call

Mike Griffin

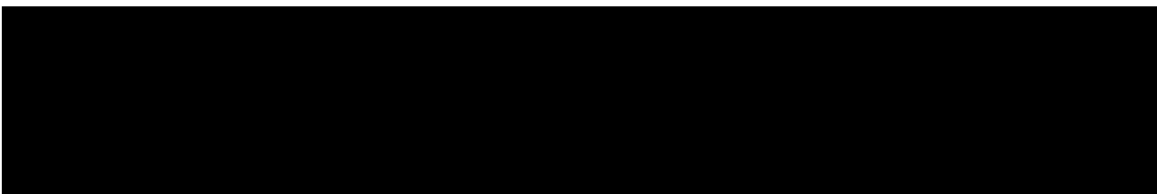
Principal Infrastructure Engineer



Hydrock Consultants Limited, company number 3118932 registered in England and Wales at Over Court Barns, Over Lane, Almondsbury, Bristol, BS32 4DF.

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Dear Mike,

Thanks for sending those three files through.

I note from SAL-HYD-00-ZZ-SK-C-7900_P02.PDF that you have raised the cover levels of S1 – S6 to above the 1.85m flood level. However, the other S6 & S7 (on network refs S2.000 & S2.001 have similarly been raised but they are within the car park – is this whole area to be raised – in which will this not affect the compensation calculations?

I also note that you have only corrected Network 2 tank Major Dim and not the resulting Xsect Area – still at 15m² does this have an effect on the MicroDrainage calcs?

Regards,

Roger

Now attached.....

Mike Griffin
Principal Infrastructure Engineer

hydrock.com



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Roger,

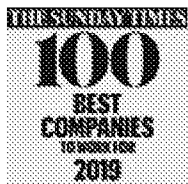
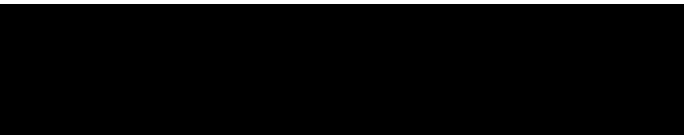
Final bits of information as discussed.

- Network 3 Calcs with Surcharged Outfall printout
- Updated schematic Network 3
- Network 2 Calcs with typo corrected.

Kind Regards

Mike Griffin

Principal Infrastructure Engineer



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Hi Roger,

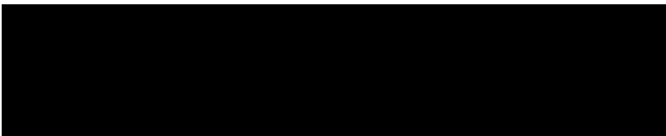
As discussed, please find enclosed Network Schematics for Networks 2 and 3 of site wide drainage which reference against the MicroDrainage calculations as requested.

Let me know if you require anything else.

Kind Regards

Mike Griffin

Principal Infrastructure Engineer





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