[redacted]

From: Luke Evans
Sent: Thursday, November 21, 2024 4:03 PM
To: David Lamb; FRMConsultations
Cc: Sally Miller; Reiss Sadler
Subject: [External] 3/24/1255/OUT - Land South of A507 and West of A10, Buntingford

Afternoon,

Hertfordshire County Council (HCC) in its roles as the LLFA has provided an updated consultation response in relation to the proposed planning application 3/24/1255/OUT- Land located to the south of Baldock Road, west of Buntingford.

This email and supporting information has been compiled to provide the requested additional information, with a summary of the response provided below.

Applicant Response to LLFA Comments:

The following information has been provided in response to the LLFA comments received on the 8th November 2024:

- Since our previous response, the applicant has provided a catchment drawing alongside calculations providing a comparison between existing and proposed discharge rates entering the ditch in the south-eastern corner of the site. This information indicates that in lower return period events, the discharge to the ditch is greater than the existing rates (we do note there is a large betterment in higher return period events). The total discharge to the ditch (e.g. development discharge plus the remaining existing greenfield catchment) should be no greater than the current pre-development QBAR rate draining to the ditch for all return periods.
  To ensure that the total development discharge to the ditch remains less than the current existing greenfield catchment draining to the ditch for all return periods, the proposed hydrobrake has been changed to a unit that has a more linear discharge profile. The proposed attenuation basin has been sized to accommodate the peak design head during the Q100+40% event, however, during smaller events the design head is lower and hence the outflow from this alternative hydrobrake unit is reduced.

  The result of this change means that the discharge rate for the critical 100year + 40% climate change event still does not exceed the greenfield Qbar rate, with the discharge for the remaining return periods shown to be less than the Qbar rate. Consequently, the max outflow from the development parcel has been sufficiently reduced so that when combined with the remaining greenfield catchment discharging to the ditch, the total discharge is less than the existing greenfield catchment for all storm events.

  The change of the hydrobrake unit has resulted in a very small increase to the required storage to accommodate the 1 in 100year +40% event. A storage volume of 3200m^3 is now required, however, this can be accommodated within the original sized basin with no impact on the proposals.

  I have attached revised capacity calculations and infodrainage calculations which show the max outflow for each event and demonstrates that the development discharge does not exceed the existing greenfield rate for all storm events along with the revised storage calculations and drainage drawing.

Please could this additional information be reviewed and an updated consultation response provided based on the latest information?

Regards,

Luke Evans [redacted]

Principal Civil Engi
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