

DRAINAGE STRATEGY:

SUDS HIERARCHY

THE HIERARCHY OF POTENTIAL METHODS FOR DISPOSING OF SURFACE WATER ARE SHOWN BELOW IN ORDER OF PREFERENCE:

- DISCHARGE VIA INFILTRATION
- DISCHARGE TO WATERCOURSE
- DISCHARGE TO A SURFACE WATER SEWER
- DISCHARGE TO A COMBINED SEWER

BRE365 SOAKAWAY TESTING SHOULD BE UNDERTAKEN TO CONFIRM INFILTRATION RATES. IT HAS BEEN ASSUMED THAT THE SITE WILL NOT INFILTRATE AS GEOLOGICAL MAPS SUGGEST THE SITE IS UNDERLAIN BY IMPERMEABLE STRATA. SURFACE WATER WILL THEREFORE DISCHARGE INTO THE EXISTING WATERCOURSE THAT BORDERS THE SITE.

IF POSITIVE INFILTRATION RATES ARE FOUND, THEN A SOAKAWAY SHOULD BE DESIGNED AND INSTALLED.

SURFACE WATER STRATEGY

THE DRAINAGE NETWORK HAS BEEN DESIGNED TO ATTENUATE FOR RETURN PERIODS OF UP TO 100 YEARS PLUS A 50% CLIMATE CHANGE ALLOWANCE.

THE SITE WILL BE SERVED BY AN ATTENUATION TANK, WITH THE DISCHARGE RATE RESTRICTED BY A VORTEX FLOW CONTROL DEVICE.

THE RUN-OFF RATE FOR THE SITE WILL BE RESTRICTED TO 2.50L/S FOR RETURN PERIODS UP TO 100 YEARS PLUS A 50% ALLOWANCE FOR CLIMATE CHANGE.ALTHOUGH THIS IS ABOVE THE EXISTING RUNOFF RATE, THIS HAS BEEN USED TO MITIGATE AGAINST BLOCKAGE TO THE HYDROBRAKE FLOW CONTROL.

MAINTENANCE:

 DRAINAGE TO BE THE RESPONSIBILITY OF OCCUPIER (MAINTENANCE PACK TO BE PROVIDED)

KEY:



G

RE

IC

ST IC

FOUL DRAINAGE COMBINED DRAINAGE **RISING MAIN**

> GEOCELLULAR ATTENUATION BASKETS (SEE DRAWING C-1061)

PERMEABLE FINISH

GULLEY RODDING EYE **INSPECTION CHAMBER** SILT TRAP INSPECTION CHAMBER

ALL EXISTING DRAINAGE LEVELS TO BE CHECKED AND CONFIRMED PRIOR TO COMMENCEMENT

PRELIMINARY SUBJECT TO CONFIRMATION OF LLFA ACCEPTANCE OF DISCHARGE CONNECTION LOCATIONS AND FLOW RATES

RB RG RG P01 07-10-2024 SKETCH ISSUE REV DATE BY CHK APP DESCRIPTION DRAWING STATUS:

SKETCH

CLIENT

ARCHITECT:

BEC

-

PROJECT

MEADOW ROAD, WHITEHAVEN

DRAINAGE LAYOUT (OPTION 2) PROJECT No. ORIGINATOR PHASE LEVEL TYPE ROLE DRAWING No. REV: STATUS 24360 - GAD - ZZ - 00 - DR - C - 1000 SK01 S2 SEPT 2024 1:100 RB RB RG RG **GADSDEN CONSULTING**

01229 813333

www.gadsdens.co.uk