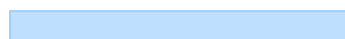
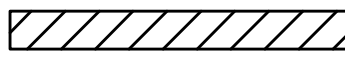
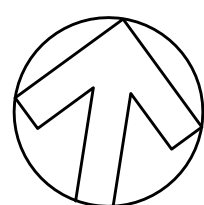


1. BASED ON TRADITIONAL SURFACE WATER DRAINAGE ARRANGEMENT. THE ARRANGEMENT WILL BE INTEGRATED INTO THE DRAINAGE STRATEGY WHICH PROVIDES CONVEYANCE FOR AN EVENT UP TO AND INCLUDING THE 1 IN 30 YEAR RETURN PERIOD, AND WILL BE OFFERED FOR ADOPTION TO THAMES WATER
2. STORAGE AREAS AND POSITIONING OF SUDS ARE APPROXIMATE ONLY AND WILL BE SUBJECT TO REFINEMENT FOLLOWING FURTHER HYDRAULIC ANALYSIS AND SCHEME LAYOUT REFINEMENT.
3. ALL SURFACE WATER STORAGE ARRANGEMENTS ARE DESIGNED TO ACCOMMODATE THE CRITICAL 1 IN 100 YEAR + 40% CLIMATE CHANGE RAINFALL EVENTS.

	PROPOSED SURFACE WATER SEWER
	PROPOSED FOUL WATER SEWER
	PROPOSED FOUL WATER RISING MAIN
	PHASE BOUNDARY
	OVERLAND EXCEEDANCE FLOW ROUTES
	PROPOSED ATTENUATION BASIN
	PROPOSED INFILTRATION BASIN
	PROPOSED SWALE
	EXISTING POND TO BE RETAINED
	15m NETWORK RAIL BOUNDARY OFFSET
	COMPLEMENTARY HABITAT BUFFER ZONE
	EXISTING SURFACE WATER FLOODING – HIGH RISK
	EXISTING SURFACE WATER FLOODING – MEDIUM RISK
	EXISTING SURFACE WATER FLOODING – LOW RISK



INFILTRATION BASIN

INFILTRATION RATE: $4.60 \times 10^{-4} \text{ m/s}$

TOP OF BANK LEVEL = 61.700m

BASE LEVEL = 61.100m

TOTAL CAPACITY = 518m³

1:1 = 32m³

1:30 = 35m³

1:100+40% = 35m³

PHASE 1A

PROPOSED HYDROBRAKE
MAX. DISCHARGE RATE
167.2 l/s

ATTENUATION BASIN
TOP OF BANK LEVEL = 64
OUTFALL LEVEL = 62.305m
TOTAL CAPACITY = 9898m³
1:1 = 1429m³
1:30 = 3791m³
1:100+40% = 7975m³

PHASE 3

PHASE 1R

PHASE 2

PHASE 4

SCHOOL LAND
SURFACE WATER
CONNECTION

SCHOOL LAND
FOUL WATER
CONNECTION

Neighbourhood

PHASE 6

EXISTING POND TO REMAIN

Residential

PHASE 5

FOUL WATER OUTFALL FWMH 2901
EXACT LOCATION TO BE CONFIRMED
SUBJECT TO ANGLIAN WATER APPROVAL

UNTIL TECHNICAL APPROVAL HAS BEEN OBTAINED FROM THE
 RELEVANT LOCAL AUTHORITIES OR STATUTORY BODIES, IT SHOULD
 BE UNDERSTOOD THAT ALL DRAWINGS ARE ISSUED AS
 PRELIMINARY AND NOT FOR CONSTRUCTION. SHOULD THE
 CONTRACTOR AND / OR EMPLOYER COMMENCE WORK PRIOR TO
 APPROVAL BEING GIVEN, IT IS ENTIRELY AT THEIR OWN RISK

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CLIENT

BARRETT DAVID WILSON HOMES

ARCHITECT-

MCBAINS

Figure 1

HIGHOVER FARM, HITCHIN

TITLE:

SITE WIDE DRAINAGE STRATEGY

SCALE @ A1:

CHECKED:

APPROVED:	
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PROJECT No: 70098227

DESIGNED:	RH
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DRAWN:
RH

May 23

HOF-WSP-XXX-ZZ-SK-C-0004

P02

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S2 - FOR INFORMATION