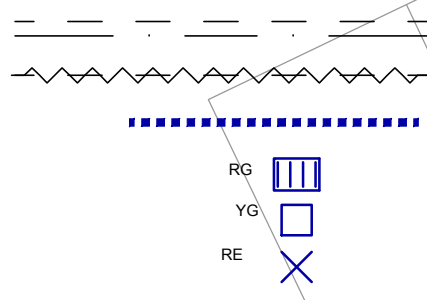


Legend



Existing Foul/Surface Sewer/Drain to be retained
Existing Foul/Surface Sewer/Drain to be abandoned
Channel Drain
Road Gully
Yard Gully
Rodding Eye

Foul Sewer/Drain
Soil and Vent Pipe / Gully Connection
Air Admittance Valve (durgu) / Stub Stack
FW Type 4 Inspection Chamber (1900 min)
FW Type 3 Inspection Chamber (4500 min)
FW Type 1/2 Manhole
Vertical/Ramped Backdrop

Surface Water Sewer/Drain
Rainwater Pipe
SW Type 4 Inspection Chamber (1900 min)
SW Type 3 Inspection Chamber (4500 min)
SW Type 1/2 Manhole
Back Inlet Gully
Finished Floor Level
FW Pumped Rising Main

SW Attenuation Tank (Adopted)
SW Attenuation Tank (Private)

1. SW Drainage Design

- 1.1. Proposed Site - Main Site Plots 1-5 & 13-43**
- 1.1.1. All SW runoff to be discharged to SWS as soil infiltration on site is not viable
1.1.2. SW flows to be restricted using Hydrobrake in line with LLFA requirements to:
1.1.2.1. 28.5l/s for 1 in 1 yr
1.1.2.2. 30.0l/s for 1 in 30yr, 1 in 100 yr + 40% CC allowance
1.1.3. Design to cater for 100yr SRP + 40% CC allowance
1.1.4. Storage provided using Enlarge pipes (adopted) and modular crate system (private)
- 1.2. Proposed Site - Emergency Access Site Plots 6-12**
- 1.2.1. All SW runoff to be discharged to SWS as soil infiltration on site is not viable
1.2.2. SW flows to be restricted using Hydrobrake in line with LLFA requirements to:
1.2.2.1. 1.8 l/s for 1 in 1 yr - Flows tba with LLFA
1.2.2.2. 1.8 l/s for 1 in 30yr Flows tba with LLFA
1.2.2.3. 2.2 l/s 1 in 100 yr + 40% CC allowance - Flows tba with LLFA
1.2.3. Design to cater for 100yr SRP + 40% CC allowance
1.2.4. Storage provided using Enlarge pipes (adopted) and modular crate system (private)

2. FW Drainage Design

- 2.1. Proposed Flow from Site**
2.1.1. Peak FW Flow 43No Dwellings = 2.00 l/s Peak FW Flow (SFA)

NOTE THE FOLLOWING:

Southern Water Agreements

1. Section 106 Foul & Storm Sewer Connections
1.1. SW-Ref-S106-xxx
2. Section 104 New Foul & Storm Sewers
2.1. SW-Ref-S104-xxx
3. Section 185 Ex SWS & FWS Diversion
3.1. SW-Ref-S185-xxx

HRD Flow Control

4. Main Site - Plots 1-5, 13-43
4.1. HRD Hydrobrake Flow control restricting flows to 30l/s @ 1.2m head
4.1. HRD-Ref-SHE-0234-3000-1200-3000
4.2. Refer to Quotation dated xx-Ref-xx
5. Emergency Access Site - Plots 6-12
5.1. HRD Hydrobrake Flow control restricting flows to 30l/s @ 1.2m head
5.1. HRD-Ref-SHE-0234-3000-1200-3000
5.2. Refer to Quotation dated xx-Ref-xx

Private Attenuation Tank Design & Details

6. Main Site - Plots 1-5, 13-43
6.1. Refer ESS to dwgs xx dated xx
7. Emergency Access Site - Plots 6-12
7.1. Refer to Wehoite dwgs xx dated xx

Adopted Enlarge Pipe Attenuation Tank Design & Details

8. Refer to Wehoite dwgs xx dated xx

NOTES

- This drawing is to be read in conjunction with drawing Nos. FC2789/01-40.
- Existing onsite drainage is shown on drawing FC2789/01-04.
- All adopted drainage and connections to the sewer system are to be constructed in accordance with 'Sewers for Adoption' 6/7th Edition or as stipulated in the Southern Water Addendum.
- Refer to Drawings FC2789/15-18 for proposed adopted sewers and sewer diversions.
- Connections to the adopted drainage system are subject to the approval of Southern Water the Drainage Authority. Diverted, divested, build close to/over sewers, and new sewers are subject to SW approval. All other drainage is to remain private.
- All pipes and fittings to be adopted, or connecting to adopted sewers, and/or situated under highway to be vitrified clay (min 40kN/m) to BS EN 295 & BS65 (SWS only), or Concrete pipes to BE EN 1916 & BS5911 Part 1, or Thermoplastic Structured wall sewer pipes to BS EN 13476-1-4 and WIS 4-35-01 (class 8kN/sqm), or Ductile Iron BS EN 598, and be capable of withstanding 4000 PSI jetting pressure.
- Cover levels shown are approximate. Covers and frames shall be set to finished ground levels and falls.
- All drainage to be constructed to BS EN 752:1999 and subject to the approval of Building Control/LPA and the Environment Agency.
- Gully and channel drain positions are liable to amendment when the design levels have been determined.
- All downpipes to new dwellings are to be sealed, ie connected directly to the stormwater drain. Access points to be provided 1m above ground level for external RWP's and 1m above FFL for internal RWP's.
- All below ground concrete to accord with AGEG-site classification of AG-1s - refer to Geotechnical investigation
- Aco channel drain to be K100S with grade C250 Quicklock 'Heelguard' cast iron grating or equivalent, where adjacent to kerbing or within pedestrian areas. Elsewhere Aco channel drain to be Road Drain 100 Class F. All channel drain outlets to have oil traps
- The Contractor should construct works in accordance with the Local Authority specification for the works they are to undertake.
- Road gully/Channel outlet pipes are to be 150mm dia. with concrete surround and flexible joints, all other un-referenced pipes are assumed to be 100mm dia. FW min gradient - 1 in 40 (100 dia) min 1 WC connected FW min gradient - 1 in 80 (100 dia) min 1 WC connected FW min gradient - 1 in 150 (150 dia) min 5WC's SW min gradient - 1 in 100 (100/150 dia)
- If any sub soil drainage systems are uncovered during the Works contact the Engineer for instructions. Generally sub soil drains affected are to be diverted around new Works and connected into the surface water drainage system. Pipe diameters and gradients are to be maintained.
- Before commencing construction the Contractor must check the invert levels of existing sewers to which connections are made. In addition the Contractor must locate and determine invert levels of the existing spurs to which connections are proposed. Additional spurnhole connections are to be agreed with the relevant adopting authority. Any discrepancies are to be notified to the Engineer immediately, prior to construction.
- Road reinstatements are to be to the Highway Authority approval.
- No private areas are to drain onto adoptable areas and vice versa.
- All redundant drainage to be abandoned once the Contractor and Client have satisfied themselves that no connections remain live. Drains and sewers less than 1.5m deep which are in open ground should as far as is practicable be removed. Other pipes should be sealed at both ends and at any other point of connection and solidly filled at intervals not exceeding 25m with Class G3 or G4).

SUBJECT TO THE APPROVAL OF:
LPA - Planning Conditions
BUILDING CONTROL/ANHC
Southern Water SW106/SW104
HCC Highways

Subject to confirmation of the following:
Foundations
Confirmation of winter Ground water table levels
Formpave Design
Office & Hydrobrake flow control design
PCC Culvert design

C	General Update	13/08/19
B	Issued For BUDGET/APPROVAL ONLY	07/08/19
A	Issued For BUDGET/APPROVAL ONLY	10/05/19
REV	DESCRIPTION	DATE

abmh
ABMH Civils Ltd
1 The Grove, Felpham, Bognor Regis, West Sussex PO22 7EY
Mark Mob: 07761 950000
Email: mark@abmh.co.uk / Web: www.abmh.co.uk

PROJECT	WOODCROFT LANE WATERLOOVILLE HAMPSHIRE PO8 9QD
DRAWING	PROPOSED DRAINAGE LAYOUT SHEET 1 OF 6
SCALE	1:125
DATE	MAY 19
INITIAL	MH
CHKD	-
REV	C

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