



	Existing Foul/Surface Sewer/Drain to be abandoned
	Channel Drain
RG	Road Gully
YG	Yard Gully
RE	Rodding Eye
	SW Pumped Rising Main
	FW Pumped Rising Main

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

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- Surface Water Sewer/Drain
Rainwater Pipe
SW Type 4 Inspection Chamber (1900 min)
SW Type 3 Inspection Chamber (450Ø min)
SW Type 1/2 Manhole
Back Inlet Gully
Finished Floor Level

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- The diagram illustrates the layout of the SW Attenuation Tank, Crane Base, and Existing/Proposed Sewer easement. The SW Attenuation Tank is a rectangular area with diagonal hatching. The Crane Base is a rectangular area with a grid of diagonal lines. The Existing/Proposed Sewer easement is a rectangular area with a grid of diagonal lines.

- SW DRAINAGE DESIGN BASED ON:**
- 100 Yr SRP plus 40% climate change allowance
 - Soakaways not viable on site - Refer to Geotech SI - SIR below 1×10^{-6} m/s
 - Proposed 5l/s restricted discharge (min to prevent blockage to flow control) to on site watercourse with attenuation wet pond and HRD flow control provided on site
 - Non Porous Paved areas served by trapped RG/CDs
 - New connection to watercourse proposed, subject to LFA/EA/LPA consent.

- FW DRAINAGE DESIGN:
- No FWS present locally
 - No connections required - tbc by client/architect

- SUBJECT TO CONFIRMATION OF:**
- External levels & CD/RG positions
 - Foundation & floor construction
 - Landscaping
 - Proposed Surfacing
 - Driveway extent
 - Restricted SW outfalls to Watercourse
 - LLFA/EA Watercourse Outfall Consent

SUBJECT TO THE APPROVAL OF:
LPA/LLFA/EA
BUILDING CONTROL/NHBC

B	Issued For BUDGET/APPROVAL ONLY	09/03/21
A	Issued For BUDGET/APPROVAL ONLY	16/11/20
-	Issued For BUDGET/APPROVAL ONLY	14/01/20
REV	DESCRIPTION	DATE



PROJECT	BARN EXTENSION BARFOOTS - LITTLE SEFTER PAGHAM Rd, BOGNOR REGIS W SUSSEX, PO20 1LN						
DRAWING	PROPOSED SW DRAINAGE LAYOUT						
Prj No	FC2846/02				REV	B	
SCALE	1:225	DATE	JAN 20	INITIAL	MH	CHWD	-
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- # NOTES
1. This drawing is to be read in conjunction with drawing Nos. FC2846/01-25.
 2. All drainage is to remain private.
 3. All pipes to be adopted, or connecting to adopted sewers, and/or situated under highway to be verified by a BS EN 258 x BS655 (SWR only), or Concrete pipes to BE EN 1916 & BS5911:Part 1, or Thermoplastic Structured wall sewer pipes to WIS 4-35-01 (class BkNsqm) and be capable of withstanding 4000 PSI setting pressure.
 4. Cover levels shown are approximate. Covers and frames shall be set to finished ground levels and falls.
 5. All drainage to be constructed to BS EN 752:1999 and subject to the approval of Building Control/LPA and the Environment Agency.
 6. Gully and channel drain positions are liable to amendment when the design levels have been determined.
 7. All downpipes 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.
 8. All below ground concrete to accord with ACEC site classification of ~~XXXX~~.
 9. Aco channel drain to be K1000s 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
 10. The Contractor should construct works in accordance with the Local Authority specification for the works they are to undertake.
 11. Road gully pipes are to be 150mm dia, with concrete surround and flexible joints, all other unreinforced pipes are assumed to be 100mm dia
FW min gradient - 1 in 40 (100 dia) min 1WC's connected
FW min gradient - 1 in 80 (100 dia) min 1WC connected
FW min gradient - 1 in 150 (150 dia) min SWC's
SW min gradient - 1 in 100 (100/150 dia)
 12. 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.
 13. Before commencing construction the Contractor must check the invert levels of existing sewers to which connections are to be made. In addition the Contractor must locate and determine invert levels of the existing spurs to which connections are proposed. Additional spur/manhole connections are to be agreed with the relevant authority. Any discrepancies are to be notified to the Engineer immediately, prior to construction.
 14. Road reinstatements are to be to the Highway Authority approval.
 15. No private areas are to drain onto adoptable areas and vice versa.
 16. 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 a position should as far as is practicable be removed. Other pipes should be sealed at both ends and at any other point of connection and solidified at intervals not exceeding 25m with Class G3 or G4).

NOTE THE FOLLOWING:

1. SW Discharges to watercourse
 - 1.1. Restricted SW discharge to watercourse
 - 1.1.1. LPA/LLFA approvals
 - 1.1.1.1. Ref & Dated
2. HRD Hydrobrake Flow Control
 - 2.1. 5l/s @ 0.4m head
 - 2.1. Refer to HRD Design & Details dated xx/xx/xx
 - 2.2. HRD Ref: HQT-xxx