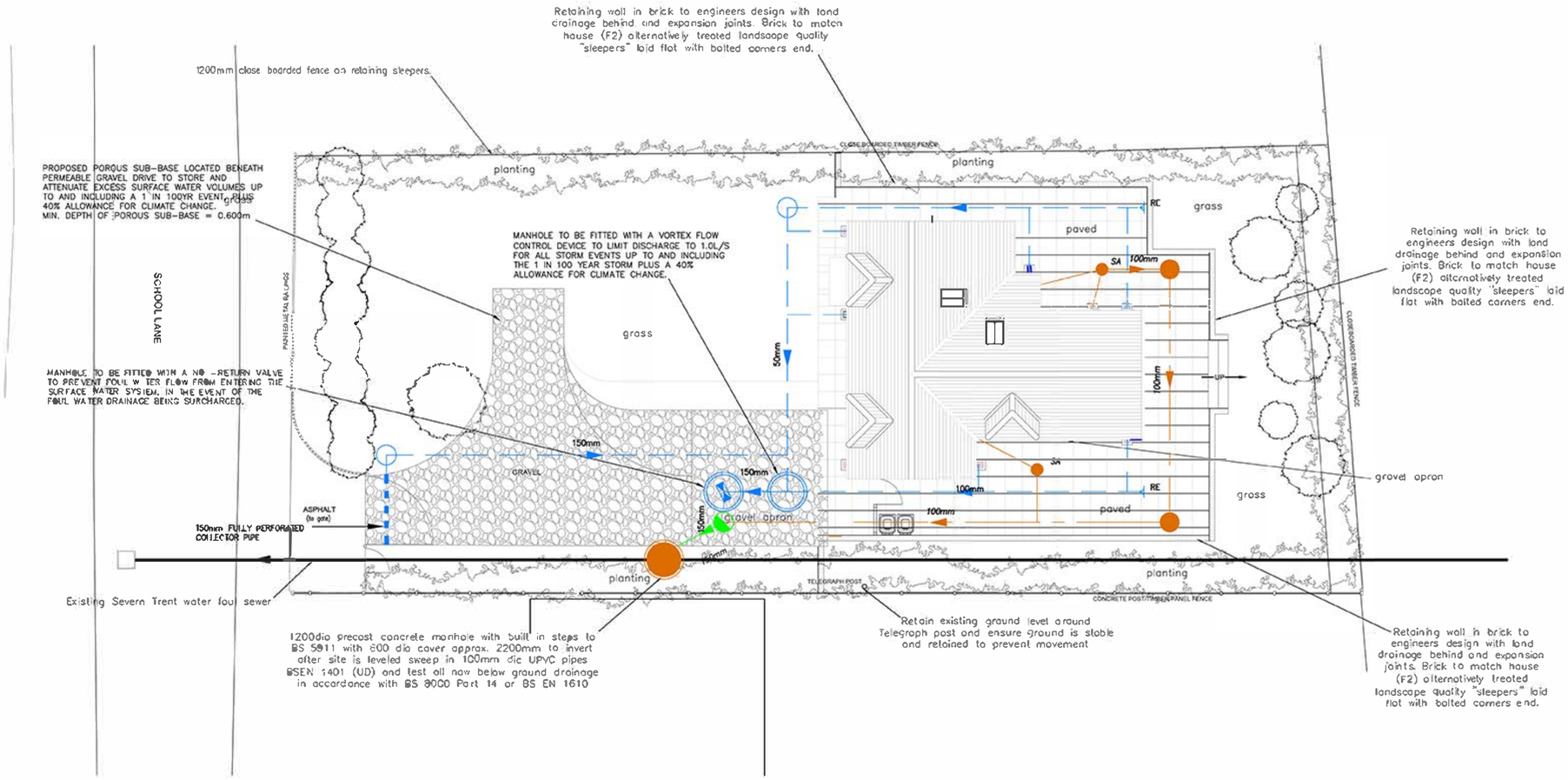
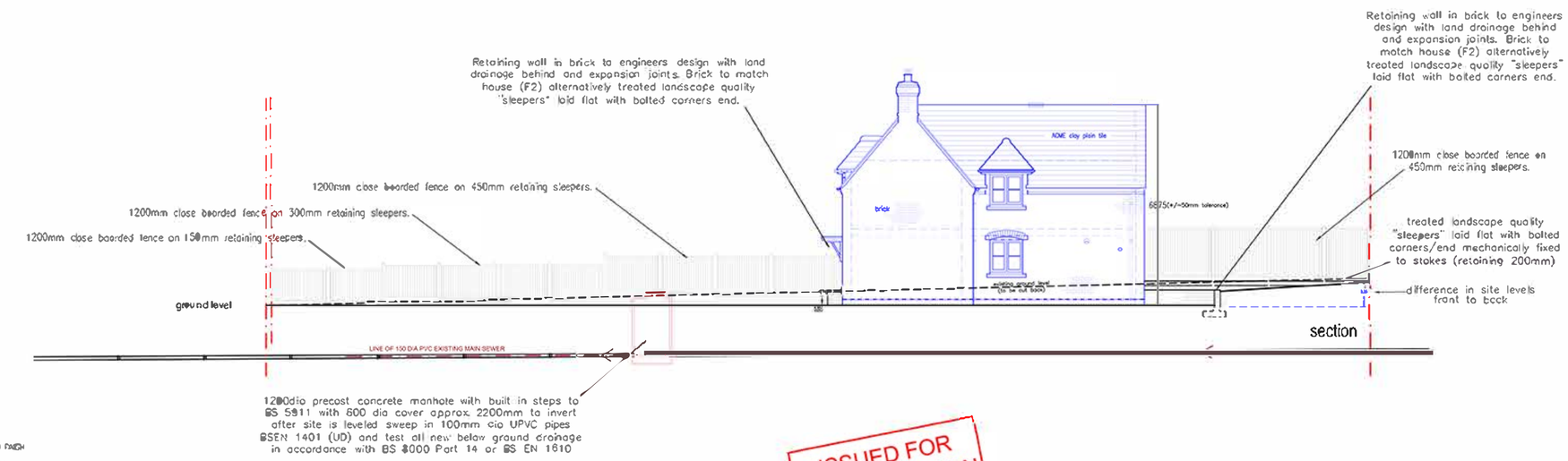
DRAINAGE LEGEND

- RE — Surface water rodding eye
- 150mm — Surface water drain
- 150mm — Foul water drain
- Combined water drain
- SA — SW shallow inspection chamber
- SA — FW shallow inspection chamber
- Surface water inspection chamber
- Foul water inspection chamber
- Combined inspection chamber
- Surface water split-pit manhole
- Surface water manhole
- Denotes extent of gravel porous sub base.

DRAINAGE DESIGN NOTES

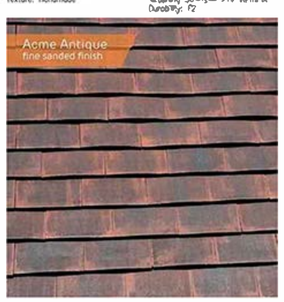
1. The site is located in Flood Zone 1 and based on the EA flood maps and data, considered a low risk of flooding from all sources.
2. Foul water flows generated by the development are proposed to be discharged to the existing Severn Trent Water foul sewer located in the south of the site, via a traditional gravity network. In accordance with Part H of the current building regulations.
3. The existing site currently has greenfield characteristics.
2. It is understood that ground conditions are unsuitable for infiltration drainage techniques following soakage testing undertaken on 30.09.19.
3. It is considered appropriate to drain the site to the foul water sewer crossing the southern area of the site, as it has been demonstrated that infiltration drainage techniques are not viable and that there are no watercourses or surface water sewer in the vicinity of the site. This would comply with the hierarchical approach adopted by Part H of the current building regulations.
4. Before discharging surface runoff to the sewer, flows will be restricted to 1l/s, using a vortex flow control device, with excess flows stored and attenuated onsite within porous sub-base material, for all return periods up to and including a 1 in 100 year design event with 40% allowance for climate change.
5. Water quality improvements will be provided in the form of permeable resin bound gravel and porous sub-base for the private driveway.





Orion Handmade
Size: 215x102.5x65mm
Colour: Red
Texture: Handmade

Brand: Ashwood Bakeson
Tolerance: T2/1
Pack Size: 624
Crushing Strength: >15 N/mm2
Durability: F2



ACME DOUBLE CHAMBER ANTIQUE FINE SANDED FINISH
MARLEY
TECHNICAL DATA Size of tile 265mm x 165mm
Minimum pitch 30°
Maximum pitch 90°
Maximum headlap 65mm (roof) 38mm (vertical)
Maximum gauge 100mm (roof) 115mm (vertical)
Cover width 180mm (vertical)
Tile thickness 11mm (nominal)
Covering capacity 60 tiles/m2 at 100mm gauge (roof) (nr) 53 tiles/m2 at 115mm gauge (vertical)
Weight of tiles 61kg/m2 (0.63 kN/m2) at 100mm gauge (roof) (approx) 56kg/m2 (0.55 kN/m2) at 115mm gauge (vertical)
Battens required 10.0 linear/m2 at 100mm gauge (roof) (nr) 8.7 linear/m2 at 115mm gauge (vertical)
Batten size 38 x 25mm for rafters/supports not exceeding 600mm recommended centres (fixed to BS 5534)
Tile nails 38mm x 2.65mm
Authority BS EN 1304
* The minimum recommended pitch and lap may be influenced by special environmental, please contact the Technical Advisory Service
SUSTAINABILITY Green guide rating A+ (Element ref: 812410006)
BES 6001 Excellent- can achieve 3 credits Embodied carbon Carbon footprint of 27 kgCO2e/m2 at 100mm gauge

ISSUED FOR CONSTRUCTION 02/01/20

0m 2 4 6 8 10m
1:100 at A1

REV	DATE	
CD38 YEW 06c	22/10/2019	amend surface water drainage
CD38 YEW 06b	3/10/2019	amend fence detail
CD38 YEW 06a	1/10/2019	

PSK ARCHITECT

DESCRIPTION

DATE	SCALE
22/09/2019	1/100@A1
DRAWN: A. Davis	CHECKED: -------

DRAWING NO. CD38 YEW 06c