

1. This drawing is to be read in conjunction with all of the relevant architects, engineers and specialist sub-contractor drawings and specifications.

2. Any discrepancies between the engineers and the architects drawings to be referred to the architect before proceeding. Drawings must not be scaled.

3. All private drainage is to be in accordance with BS EN 752-1-2-3-4, BS EN 1295-1, BS EN 1610 and all relevant sections of approved document H of the

4. All adoptable drainage is to be in accordance with 'Design and construction

guidelines for foul & surface water sewers offered for adoption', where appropriate. 5. All materials for adoptable drainage are to be Kitemarked as appropriate.

6. All adoptable manhole covers and frames are to be 150mm deep minimum and the covers badged as appropriate i.e. 'FW' or 'SW'.

7. Pipework Type - Flexibly jointed extra strength vitrified clay, to BS EN 295-1, Hepworth 'Supersleve' or equivalent.

8. Pipework Type - Plastic i.e. PVC-U, to BS EN 1401-1 Osma or equivalent. (Private pipework to be type SN4 and all adoptable pipework to be type SN8.) 9. Precast concrete manholes and fittings shall be to BS 5911 parts 3 and 4 and

10. The rising main within the highway should be laid no closer than 1.0m from the kerb face. Minimum Cover, 1.2m in the road and 0.9m in the footpath. 11. The private rising main trench is to have a warning tape fitted. Allow for 1.0m

of tape coiled inside the pump chamber at the upstream end. 12. Whenever pipework passes through foundations, walls or connects to

structure. 600mm pipe length to then be used to form a rocker pipe. 13. Whenever pipework passes through screen walls, footings or retaining walls,

14. Where pipelines pass within 1.0m of buildings or walls the foundations are to be taken down below the bottom of the trench. Where pipelines are more than

1.0m away from foundations the trench shall be backfilled with concrete up to a point that meets a 45° angle line taken from the bottom corner of the nearest 15. The contractors attention is drawn to the need to ensure that any trenches

excavated through previously compacted or filled areas, in particular under the building footprint and immediately around the outside, are re-compacted to ensure that localised differential settlement does not occur. 16. Where pipelines cross with less than 300mm of clearance, each is to be

surrounded with grade ST4 mass concrete for a distance not less than 1.0m centered on the crossing point. The length of surround should be extended as necessary to within 150mm of the next nearest flexible joints.

cover to the crown of the pipe(s) is less than 1.2m in trafficked areas and 0.6m in soft landscaped or pedestrianised areas. (Applies during and after construction). 18. The contractor is to ensure that suitable protective measures are taken to

ensure that the drainage pipework and fittings are not damaged by site traffic prior to any over-site filling operations being completed.

19. Chamber annotation references are as follows:

exceeding 600mm, diameter not exceeding 300mm

diameter not exceeding 600mm. Standard diameter 450mm unless specified

20. The top run of each private foul drainage network is to be laid to falls no slacker than 1:40. the head of each run is to be vented to atmosphere in

21. All foul and surface water drainage pipelines are to be 100mm dia min and laid at a gradient no slacker than 1:80, unless stated otherwise.

22. The contractor is to ensure that all pipework connections are arranged to direct flows down or into the main channel in the direction of the main flow. Any

main channel to ensure that a flush through is achieved. 23. The contractor is to ensure that when preformed polypropylene manhole bases are used, they are orientated such that the main flow is directed through the

main channel of the base. This should be achieved by using long radius bends outside of the manhole when necessary 24. Where new connections are to be made into existing manholes or sewers, all

identified. Where new connections are to be made either on or off-site, the contractor is to check the line and level of any existing services / mains, to ensure that no clashes exist prior to the works commencing. 25. Any and all new connections into a public sewer are to be inspected by the

The contractor is to allow for obtaining the appropriate 'Section Applications' as

26. The contractor is to allow for obtaining the appropriate road opening licence's from the local highway authority and paying all necessary fees. All reinstatement works within the public highway are to be carried out in accordance with the requirements of the local highway authority.

27. Package pumping station(s) to be 'a specialist design element'. For installation guidance refer to manufacturer's specification. Any vent pipes to be taken to a position agreed with the architect. A three phase electricity supply is required to provide power to the pumping station control panel. The control panel, if external, is to be located inside a kiosk within close proximity of the pumping station. If internally located within a building, the control panel may be positioned on a wall. An informative notice plaque should be located on or near the control panel stating in the event of the alarm sounding or warning light flashing please

28. Drainage channel(s) to be 'Aco' or equivalent. For installation guidance refer to the manufacturer's specification. Refer to landscape architects details for surface treatments around units where applicable. All drainage channels are to be constructed with in-built falls where possible. Relevant units are to be incorporated to provide the necessary length of channel gradient from the head of the run to the

29. Permeable paving surface finish 'to the architects spec'. Any alteration to the extents of the permeable paving may have an adverse affect upon the Surface water drainage design and must therefore be discussed with the engineer.

30. Modular crate attenuation tank system(s) to be 'Wavin Aquacell' or 'Polypipe Polystorm'. Any other system offered will need to be provided with a separate

> The proposed foul and surface water drainage strategy is subject to approval by Southern Water

Orchard Gate, Dibden Purlieu

GEB

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114290-CAL-XX-XX-DR-D-004 P1