

FOUL WATER DRAINAGE ASSESSMENT

Proposed Development of a Single Residential Dwelling

within the grounds of the existing residential dwelling known as The Cottage, Highground Lane, Barnham, West Sussex PO22 0BT.

Approval Reference BN/17/21/PL

Condition 14

Development shall not commence, other than works of site survey and investigation, until full details of the proposed foul water disposal, in the form of a Foul Drainage Assessment (FDA), are submitted to and approved in writing by the Local Planning Authority. The applicant must first investigate the option of connection to the nearby public sewer network. If a private septic tank is proposed, the FDA must include the applicants justification for non-connection to the mains public sewer, and details of the proposed sewer package treatment plan, and the means of discharge.

FOUL DRAINAGE

EXISTING FOUL DRAINAGE SYSTEM

The host dwelling is connected to a public sewer with a direct foul water drain connection which runs from a final chamber located to the north east corner of the host dwelling. The existing foul drain runs parallel with the north east boundary and runs directly down the concrete access drive (private ownership) to connect to the public sewer in Highground Lane.

The existing head chamber has an invert of approximately 750mm below ground level.

PROPOSED FOUL DRAINAGE SYSTEM

The proposed dwelling has three bathroom facilities and a kitchen which are served by soil vent pipes, back inlet gullies which discharge into an external domestic foul water drainage system comprising 100mm plastic foul water drains, plastic 450mm diameter inspection chambers and cast steel covers.

The final chamber serving / collecting the foul water from the proposed dwelling is located within the proposed drive. The invert of this chamber is to be confirmed on site however assuming 1 in 60 falls across the new foul water drainage system, the invert will be approximately 750mm.

The final chamber from the new dwelling will have a foul drain running north from the chamber to connect into the existing foul water drain run serving the existing host dwelling. A new inspection chamber will be formed over the existing foul drain, invert TBC on site, and will collect the foul water from the new dwelling before diverting it down the existing foul drain in the access drive and ultimately into the public sewer in Highground Lane.

The existing 100mm dia foul water drain is sufficient in capacity for the combined foul water from both dwellings (host and new).

TREATMENT PLANT SYSTEM

Due to the provision of a suitable foul drainage system within the site that connects to a public sewer, it is not proposed to utilise a sewer package treatment plant in this instance.

SEWERAGE STORAGE TANK

Due to the provision of a suitable foul drainage system within the site that connects to a public sewer, it is not proposed to utilise a sewerage storage tank in this instance.

APPENDICES

Appendix A Drawing PL006 - Foul Water Drainage Plan