

**SPECIFICATION OF WORKS**  
to  
**INSTALL NEW SEWAGE TREATMENT PLANT**  
At  
**MERE FARM, SOHAM, CAMBRIDGESHIRE**

All References: Drawings:- A/54712/2 - Site plan as existing  
A/54712/3A - Site plan as proposed

## **1. Preliminaries**

£

- Prepare and submit Building Regulations application/Building Notice and include for all costs of inspections and provide Building Regulations Certificate upon completion.
- Prepare and submit Environment Agency Exemption Permit to discharge effluent. Permit to be provided for Client's file.
- Mobilise to site and provide suitable mess, WC/welfare and temporary accommodation
- Prepare Risk Assessments and Method Statement and provide sufficient resources to act as Principal Contractor.
- Water and electric services will be available at site during the works.
- All topsoil to be stripped off to be stored in a heap on site for reuse.
- Subsoil to be kept separate for disposal off site.

## **2. Foul Drains**

- All drainage work below ground level to be to COP301 : 1971 and all work above ground to BS572.
- Excavate as necessary for new drains as indicated from manhole MH4 to the new packaged sewage treatment plant and from the treatment plant to new manhole MH7 and on to connect to the existing land drain. Allow to clear and cart away all surplus spoil. Supply and lay, where indicated on drawing 100mm flexible jointed Osma uPVC drains minimum 1:70 gradient on 100mm granular bedding and surround to 150mm above crown of pipe with granular material.
- Allow to connect new drain into existing manhole MH4.
- Backfill all trenches with selected excavated material, fully consolidate and make good surfaces disturbed.
- Allow to excavate and form new inspection chamber MH 6 and MH7 in the position shown on the drawing with minimum 600mm diameter Osma universal inspection chambers and bed in lean mix concrete and

install heavy duty 25 tonne rated cast iron covers, bed and haunch. Make good surfaces disturbed.

£

- Allow to excavate and connect into existing land drain as indicated on drawing 54712/3A with a minimum of 1:100 fall from MH7 to the existing land drain and bed and surround with granular bedding and back fill with excavated material and consolidate.
- Allow to excavate and connect into foul drainage pipe at MH4 and connect up new foul drain.
- Excavate to reduce levels and supply and lay 100mm MOT Type 1 stone, compact and supply and bed 2 no. 600mm x 600mm paving slab ready to receive air blower/control kiosk.
- Excavate for new packaged sewage treatment plant in position shown on drawing minimum 8m away from the nearest habitable structure and clear away spoil.
- Supply and install Clenviro matrix CLF3 packaged sewage treatment plant designed for a population of up to 18 with an inlet at 0.63m from cover level. Packaged treatment plant to be supplied complete with air blower, fault warning beacon and integral lift pump to pump treated effluent approx.. 110m. Packaged sewage treatment plant blower to be connected up to the treatment plant and positioned on bedded paving slabs.

Packaged sewage treatment plant to be installed in accordance with manufacturers' written instructions.

Allow for plant to be sat on minimum 100mm lean mix concrete base and bedded and surrounded in lean mix concrete.

Plant to be supplied with pumped outlet as indicated and supply and install MDPE pipework from plant to the discharge manhole MH7 in pipework diameter as determined by the plant manufacturer.

- Allow to commission treatment plant in accordance with manufacturer's written instructions.
- Note: Packaged sewage treatment plant tank to be filled with water whilst backfilling around the perimeter of the tank.
- Allow to take up retained topsoil and dress and consolidate around new treatment plant to build up finished level to suit raised cover level (anticipated to be approx. 80mm higher than existing ground level)
- Allow to excavate and supply and install duct with draw cord from the Eastern side house to the air blower housing/control panel and from the air blower to the treatment plant.
- Allow for electrician to supply suitable RCBO into the spare way in the House consumer board and connect up. New armoured supply cable to be run clipped to the masonry of the house and then installed through the duct specified above.
- Supply and install IP65 lockable isolation switch/switched fuse and supply and run new electric supply through the duct and connect up to

switch gear/connections within air blower housing, test and issue electrical certificate.

£

- Allow to connect up air feed and controls from blower housing/control panel to the treatment plant.
- Make good all surfaces disturbed from installation of treatment plant, drains and associated works.
- Prepare seed bed and scatter grass seed at product recommended rate to area of lawn disturbed by the works.

### **3. Redundant Septic Tank**

- Arrange for redundant septic tank to be emptied.
- Remove cover slab and manhole cover and frames and grub out septic tank and redundant drains and backfill and consolidate with excavated surplus sub soil from site
- Take up topsoil from site and overlay and make good surfaces disturbed.
- Prepare seed bed and scatter grass seed at product recommended rate to area or lawn disturbed by the works.