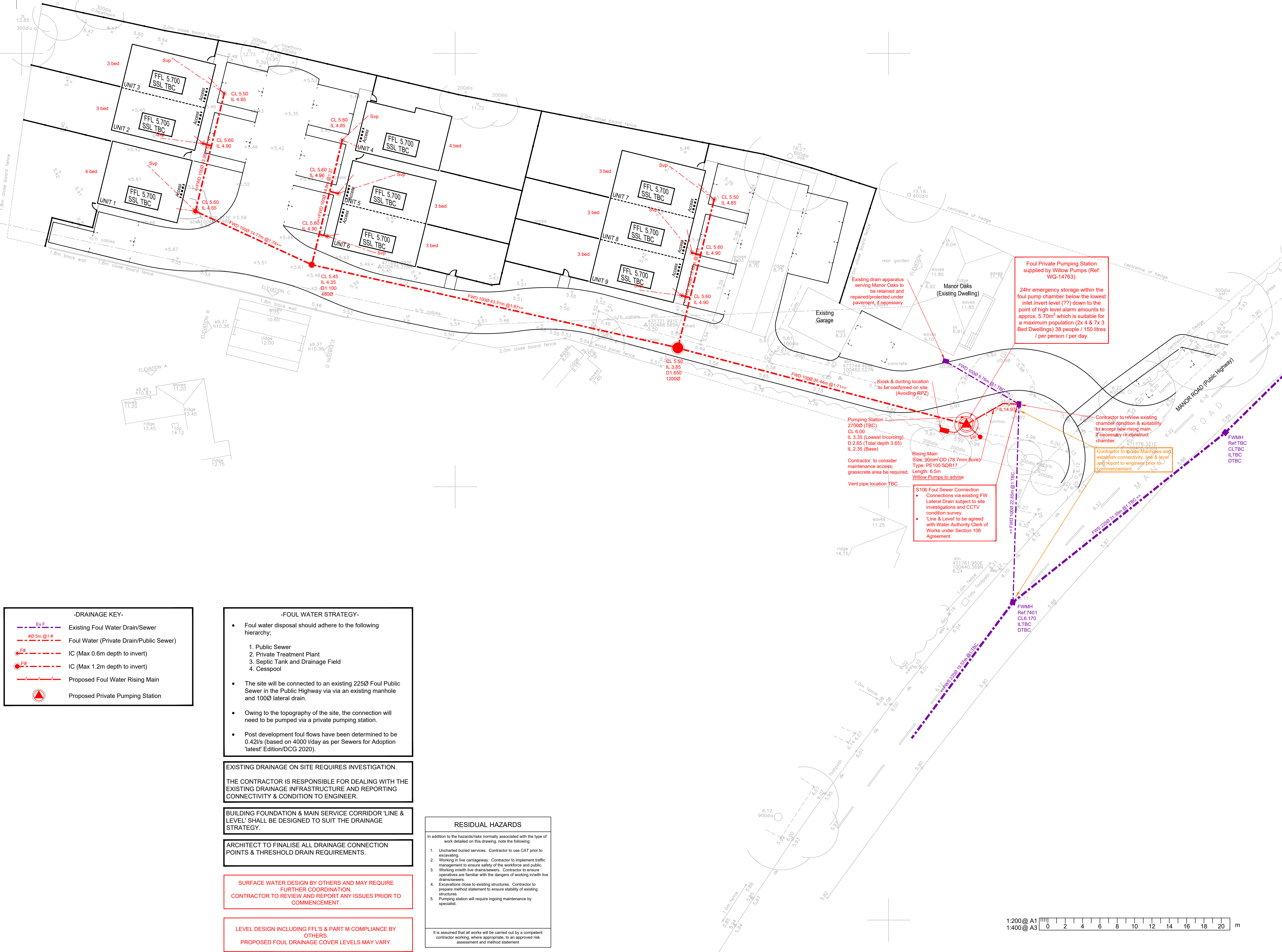




NOTES

- This drawing is to be read in conjunction with all other Bright Plan Civils drawings, and with all relevant Architect's and Engineer's drawings and specification. Any discrepancies found are to be reported immediately to the Engineer.
 - Bright Plan Civils accepts no responsibility for inaccuracies in data provided by third parties such as topographic surveys or Ordnance Survey mapping.
 - Do not scale, work to figured dimensions only. All dimensions are in millimeters unless noted otherwise and all levels are in metres from the topographic survey datum.
 - Any information given regarding existing underground services is given in good faith after consultation with the relevant authority, however accuracy is not certain.
 - All dimensions to be checked on site. All details and dimensions relating to sub-contractors work must be checked and agreed between the sub-contractor or supplier and the general contractor.
 - The electronic information from this drawing can not be guaranteed as dimensionally drawn exact. Figured dimensions must be used for setting out and detailing. Brightplan Civils logos and company information must be removed from copies if information is re-used.
 - The main contractor is responsible for the design of all temporary works, and is also responsible for the safe maintenance and stability of existing buildings at all times.
 - The main contractor is responsible for dealing with all occurrences of ground water during the construction period.
 - The contractor must comply with all current legislation relating to health & safety.
 - All products specified shall be installed in strict accordance with the manufacturers recommendations and instructions. If there are discrepancies between that information and the details on any Bright Plan Civils drawings, the manufacturers instructions must be used.
 - Contractor to confirm all invert levels where connections are proposed prior to commencing any drainage works. Contractor to commence drainage works at the point of discharge.
- Drainage Notes:
- All drainage works to be constructed in strict accordance with specification of the local authority, building regulations, sewers for adoption, BS5301 & BSEN 752-1.
 - For location and setting out of building drainage points refer to architects drawings.
 - All pipe runs near buildings to comply with the Building Regulations Part H1. Where a pipe is within 1m of a foundation the trench shall be filled with class GEN3 concrete up to the lowest level of the foundation. Where the trench is further than 1m from the foundation, the trench shall be filled with class GEN3 concrete to a level below the lowest level for the foundation equal to the distance from the foundation less 150mm. In both cases the pipe shall be bedded and surrounded in 150mm thick class GEN3 concrete.
 - Where pipes, external to the structures, have a depth to soffit from ground level of less than 450mm they shall have a class GEN3 concrete encasement (150mm thick).
 - Where a pipe, under a carriageway, has a depth of cover of less than 1.2m the pipe shall be laid with a concrete bed and surround.
 - In any circumstances where pipes are bedded and surrounded in concrete flexible joints should be provided. Compressible boards (fibroboard or polystyrene) shall be provided at a maximum of 8m centres (coinciding with pipe joints). The boards shall be pre-cut to pipe diameter and to a height and width equal to the concrete cross section. A board thickness of 18mm for pipes up to 450mm nominal diameter and 36mm for pipes over 450mm nominal diameter.
 - All private building drainage shall be constructed in strict accordance with BSEN 752-1, unless otherwise specified building drainage shall be 100mm diameter and shall be laid at a minimum gradient of (<1/16 = 1 in 40> 1/16 = 1 in 80) for foul drains and 1 in 100 for surface water drains.
 - All pipes, bends and junction for private building drainage shall be UPVC conforming to BS4680 and BS5481 as appropriate and shall be laid in accordance with the manufacturer's specification.
 - All gully connections other than at manholes to be Y junctions. All road gully connections to be 150mm diameter.
 - All stub stacks to be fitted with air admittance valves where branch drain exceeds 12m except at the head of the run. Soil vent pipes located at the head of a run to terminate to fresh air.
 - All connections to be soffit to soffit unless otherwise noted.
 - All concrete and concrete products to be in accordance with BRE 363 for subphases.
 - The locations and sizes of all spps and rws shall be cross referenced against the architects drawings during setting out.
 - The precise depth and location and size of existing pipes or manholes where connections or diversion are proposed must be confirmed and reported to the engineer prior to commencement.

FOR APPROVAL
NOT FOR CONSTRUCTION

B	FFL's updated to Architect design	02/02/2021
A	Pump updated	20/01/2021
-	Original Issue	13/01/2021

Rev.	Amendments	Date
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Drawing Status **FOR APPROVAL**

Client **Douglas Construction Ltd**

Project **Manor Nurseries, Manor Road
Hayling Island**

Drawing Title

Foul Drainage Layout

Scale	Date	Drawn By	Checked By
1:200	13/01/21	MJA	LF

Drawing No.	Rev.
D1938-01	B

-DRAINAGE KEY-

- Ex F Existing Foul Water Drain/Sewer
- #0 5m @1# Foul Water (Private Drain/Public Sewer)
- E# IC (Max 0.6m depth to invert)
- F# IC (Max 1.2m depth to invert)
- Proposed Foul Water Rising Main
- Proposed Private Pumping Station

-FOUL WATER STRATEGY-

- Foul water disposal should adhere to the following hierarchy;
 - Public Sewer
 - Private Treatment Plant
 - Septic Tank and Drainage Field
 - Cesspool
- The site will be connected to an existing 2250 Foul Public Sewer in the Public Highway via via an existing manhole and 1000 lateral drain.
- Owing to the topography of the site, the connection will need to be pumped via a private pumping station.
- Post development foul flows have been determined to be 0.42l/s (based on 4000 l/day as per Sewers for Adoption 'latest' Edition/DCG 2020).

EXISTING DRAINAGE ON SITE REQUIRES INVESTIGATION.
THE CONTRACTOR IS RESPONSIBLE FOR DEALING WITH THE EXISTING DRAINAGE INFRASTRUCTURE AND REPORTING CONNECTIVITY & CONDITION TO ENGINEER.

BUILDING FOUNDATION & MAIN SERVICE CORRIDOR 'LINE & LEVEL' SHALL BE DESIGNED TO SUIT THE DRAINAGE STRATEGY.

ARCHITECT TO FINALISE ALL DRAINAGE CONNECTION POINTS & THRESHOLD DRAIN REQUIREMENTS.

SURFACE WATER DESIGN BY OTHERS AND MAY REQUIRE FURTHER COORDINATION.
CONTRACTOR TO REVIEW AND REPORT ANY ISSUES PRIOR TO COMMENCEMENT.

LEVEL DESIGN INCLUDING FFL'S & PART M COMPLIANCE BY OTHERS.
PROPOSED FOUL DRAINAGE COVER LEVELS MAY VARY.

RESIDUAL HAZARDS

In addition to the hazards/risks normally associated with the type of work detailed on this drawing, note the following:

- Uncharted buried services. Contractor to use CAT prior to excavating.
- Working in live carriageway. Contractor to implement traffic management to ensure safety of the workforce and public.
- Working inwith live drains/sewers. Contractor to ensure operatives are familiar with the dangers of working inwith live drains/sewers.
- Excavations close to existing structures. Contractor to prepare method statement to ensure stability of existing structures.
- Pumping station will require ingoing maintenance by specialist.

It is assumed that all works will be carried out by a competent contractor working, where appropriate, in an approved risk assessment and method statement