

General Notes

1. This drawing is to be read in conjunction with all other relevant Engineering and Architect's details.
2. All dimensions are in metres unless otherwise stated.
3. The Contractor shall be responsible for checking all tie-ins for line and level with existing foul and surface water systems before commencing any works.
4. The Engineer shall be notified immediately, in writing, should any errors or discrepancies be found prior to the commencement or continuation of any works.
5. All work is to be carried out in accordance with current British Standards, Building Regulations and NHBC Standards.
6. All drainage work is to be strictly in accordance with the requirements of the Building Regulations 2000, Approved Document Part H, "Drainage and waste disposal".
7. It is the responsibility of the Contractor to execute the works at all times in strict accordance with the requirements of the Health and Safety at Work Act 1974, and the C.D.M. Regulations 2015. The Contractor will be deemed to have allowed for full compliance, including full liaison with the Principle Designer, within his rates.
8. All existing land drains encountered on site during construction are to be re-connected.
9. Should any departure from the proposed slab or external levels be considered, agreement shall be sought from the Engineer immediately and prior to the commencement or continuation of any works. Proposals should take full account of all restrictions to the slab level.
10. Temporary protection to be provided to drainage work during construction as necessary.

Specification Notes

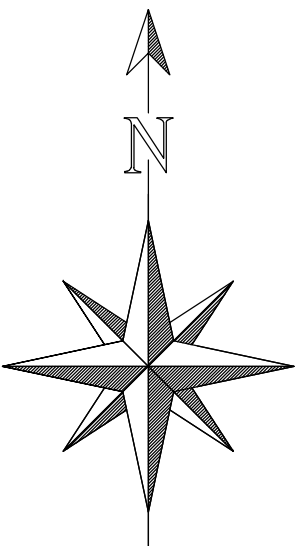
11. The following types of pipe may be used unless noted or agreed otherwise:
  - Pipes up to 450mm diameter to be Structured Walled to BS EN 13476, Polypropylene to BS EN 1852 or PVC-U to BS EN 1401.
  - Pipes over 450mm diameter to be Concrete to BS 5911.
12. Both Clay and Concrete pipes shall be strength class 120 (100/150mm min crushing strength 28kN/m). Thermoplastic pipes shall have a minimum ring stiffness of 3kN.
13. Pipes which run adjacent to buildings shall be installed in strict accordance with Part H, Clause 2.23 to 2.25.
14. All pipes, chambers and fittings shall be installed, bedded and backfilled in accordance with the manufacturers instructions subject to the following minimum requirements:

| Pipe Location             | Cover to crown | Clay/Concrete Pipe * Bedding | Plastic Pipe Bedding | Backfill                 |
|---------------------------|----------------|------------------------------|----------------------|--------------------------|
| Roofs (R/D)               | >1.2m          | Class S                      | Class S (S1st2)      | Type 1 Granular          |
| Drives / car parking      | >0.9m          | Class S                      | Class A (Concrete)   | Type 1 Granular          |
| Hard and soft Landscaping | >0.6m          | Class S                      | Class A (Concrete)   | Suitable as dug material |

15. The first flexible joint in pipes adjoining a manhole shall be a maximum length of 600mm from the inside face of the manhole, connecting to a rocker pipe. The length of the rocker pipe shall be as follows:

| Pipe diameter | Length of Rocker pipe |
|---------------|-----------------------|
| 150-600mm     | 600mm                 |
| 675-750mm     | 1000mm                |
| over 750mm    | 1250mm                |

16. All manholes and inspection chambers situated in areas subject to vehicular loading to have class D400 covers and frames to BS EN 124 and those not subject to vehicular loading to have class B125 covers and frames.
17. Drainage frames must be tied to manhole risers by use of manufacturers ties (eg Polyprop ref FRK500 fixing kit and FRK501 track ties). The ground works contractor will be held fully responsible for any accidents due to incorrect fitting or failure to use the correct manufacturers fixing equipment.
18. All drains in the vicinity of existing or proposed trees to be constructed in accordance with the requirements of NHBC Practice Note 3.
19. No condensate drainage currently shown.

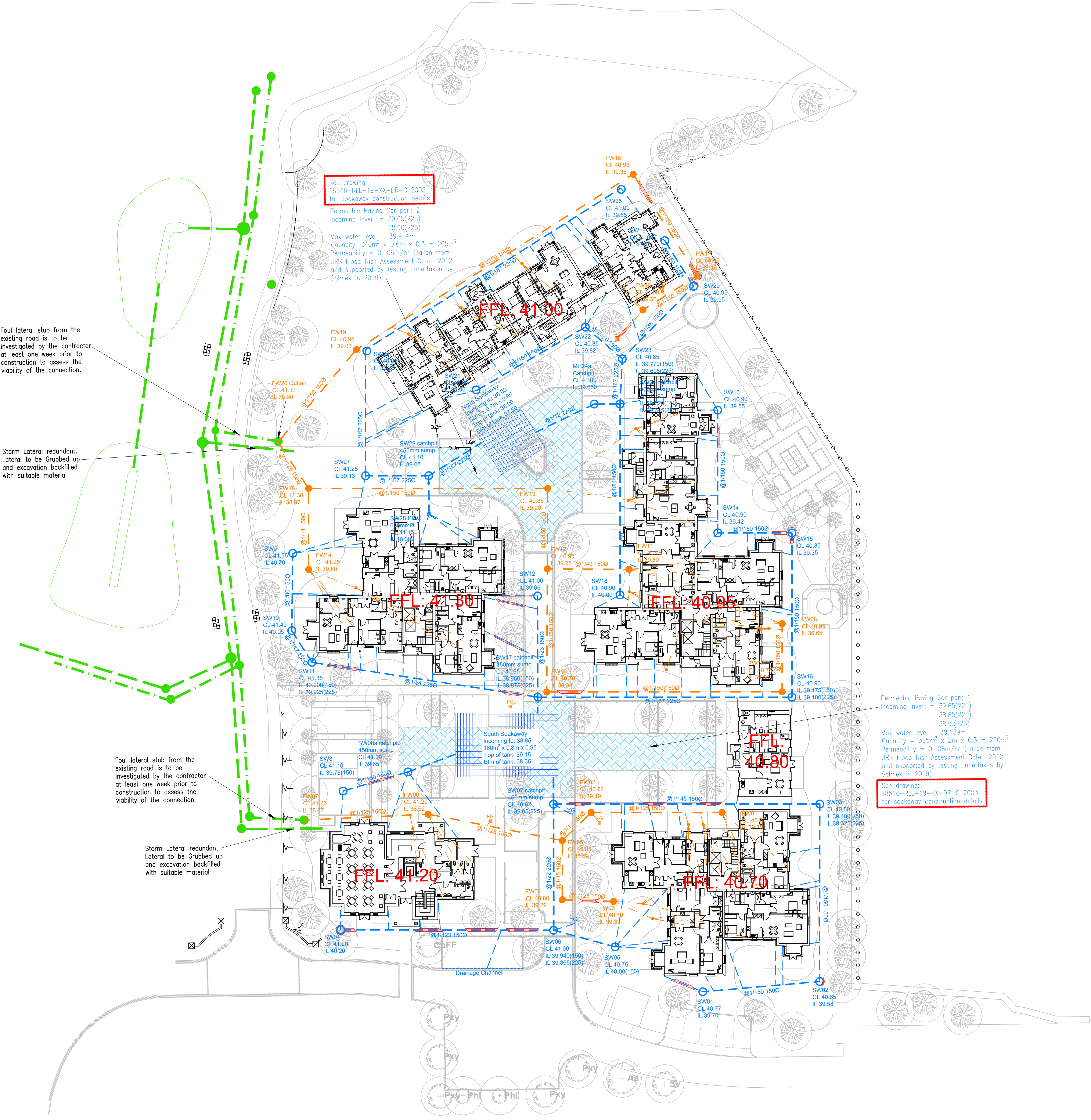


Foul lateral stub from the existing road is to be investigated by the contractor at least one week prior to construction to assess the viability of the connection.

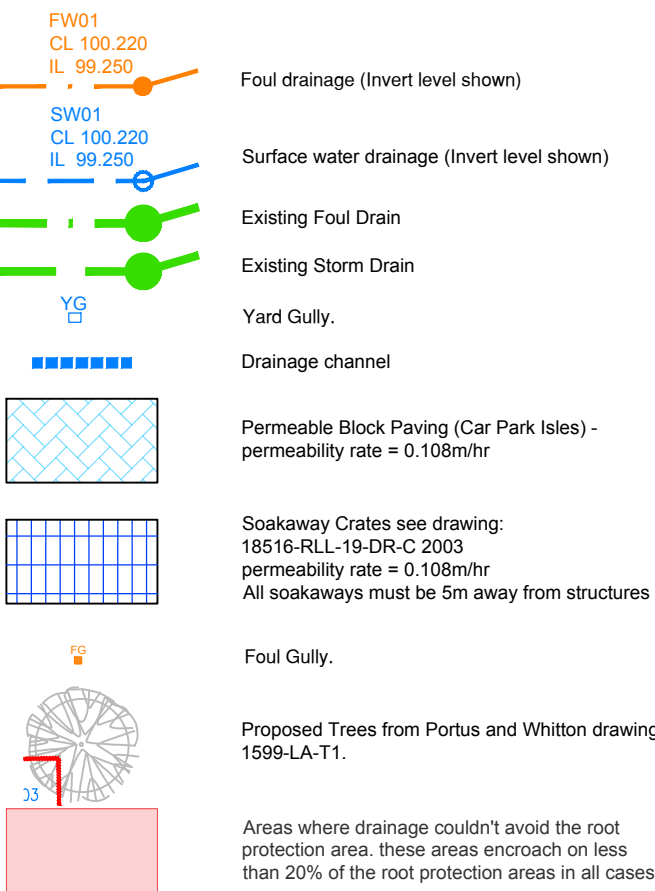
Storm Lateral redundant. Lateral to be Grubbed up and excavation backfilled with suitable material

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Key.



SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

IN ADDITION TO THE HAZARDS / RISKS ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING PLEASE NOTE THE FOLLOWING.

- RISKS**
1. DEEP EXCAVATIONS
  2. WORKING AT DEPTH
  3. PLANT MOVEMENT ON SMALL SITE AREA.
- CONTROL MEASURE**
1. EXCAVATIONS TO BE SUPPORTED AS REQUIRED.
  2. STANDARD DRAINAGE INSTALLATION SAFETY MEASURES TO BE EMPLOYED.
  3. PLANT/OPERATIVE SEGREGATION TO BE EMPLOYED

IT IS ASSUMED THAT ALL WORKS WILL BE CARRIED OUT BY A COMPETENT CONTRACTOR WORKING, WHERE APPROPRIATE, TO AN APPROVED METHOD STATEMENT.

Foul Outfall Laterals are to be surveyed by the contractor prior to connection to establish invert levels and check connection viability

Client: RICHMOND CARE VILLAGES

Project: ASTON PHASE 3

Drawing Title: DRAINAGE STRATEGY

Status: CONSTRUCTION

Drawn: AO @ 1:250

Check: JM

Date: Jan 19

Drawing No: 18516-RLL-19-XX-DR-C-2000

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