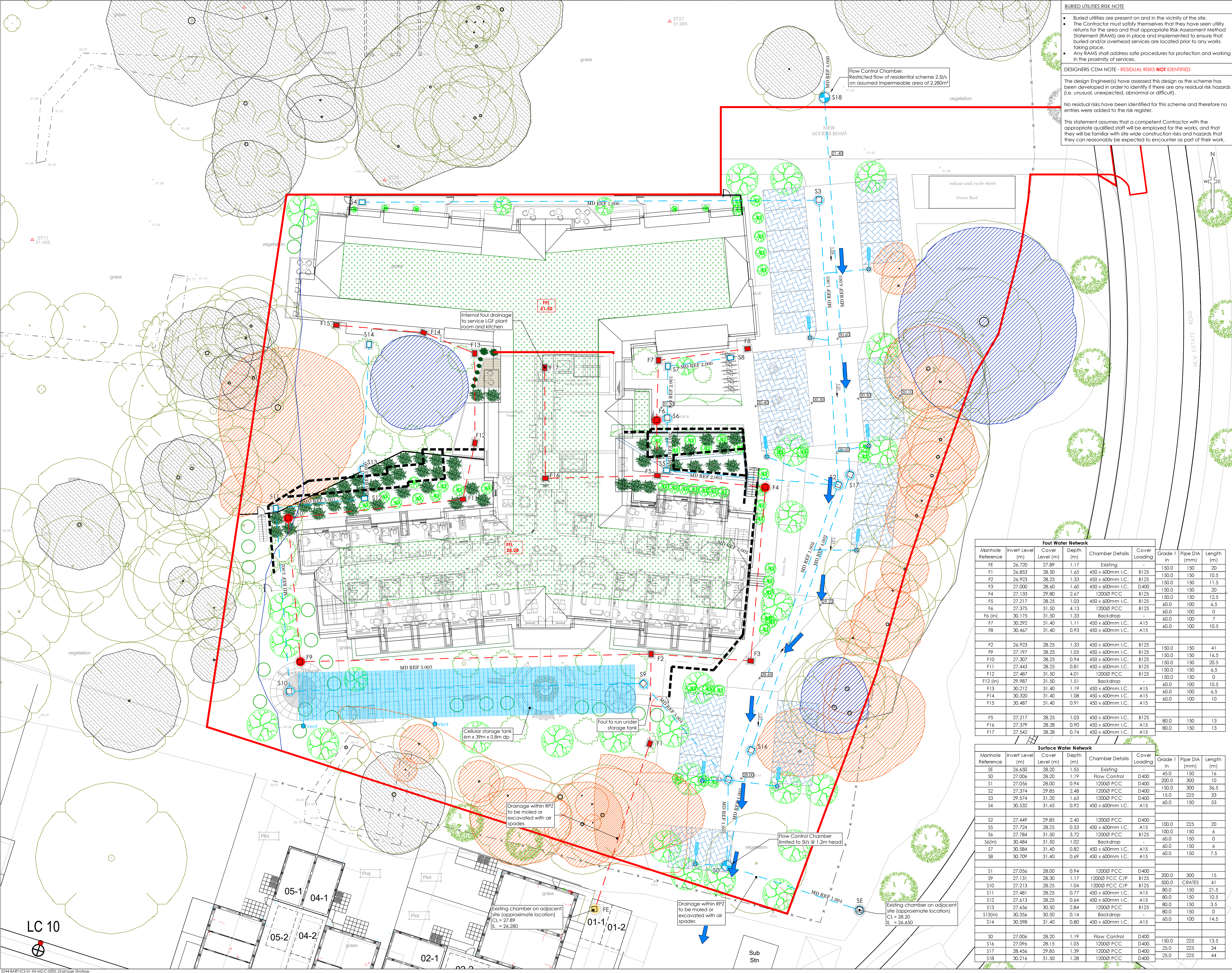




**BURIED UTILITIES RISK NOTE**

- Buried utilities are present on and in the vicinity of the site.
- The Contractor must satisfy themselves that they have seen utility returns for the area and that appropriate Risk Assessment Method Statement (RAMS) are in place and implemented to ensure that buried and/or overhead services are located prior to any works taking place.
- Any RAMS shall address safe procedures for protection and working in the proximity of services.

**DESIGNERS CDM NOTE - RESIDUAL RISKS NOT IDENTIFIED**

The design Engineer(s) have assessed this design as the scheme has been developed in order to identify if there are any residual risk hazards (i.e. unusual, unexpected, abnormal or difficult).

No residual risks have been identified for this scheme and therefore no entries were added to the risk register.

This statement assumes that a competent Contractor with the appropriate qualified staff will be employed for the works, and that they will be familiar with site wide construction risks and hazards that they can reasonably be expected to encounter as part of their work.

- NOTES**
1. All dimensions and levels are in metres unless otherwise noted
  2. This drawing is to be read in conjunction with the relevant Architect's/Engineer's drawings, specifications and CDM documentation
  3. This drawings has been produced electronically and may have been photo reduced or enlarged when copied. Work to figured dimensions only (DO NOT SCALE). All dimensions to be checked on site. Any errors or omissions to be reported to the engineer immediately.
  4. This drawing contains coloured lines / information that may not be clear if reproduced in black and white.
  5. Digital copies of this plan can only be considered accurate if supplied directly by Infrastruct CS Ltd.

**Construction Note**

It is essential that new drainage associated with the development is laid from the outfall(s) into the site. This is essential to avoid unforeseen obstructions where encountered (such as services). If the drainage is laid from the site out to the outfall it can result in significant above works to relay and overcome such obstructions.

Location of Public Sewers have been taken from record drawings which should be fully substantiated by the contractor prior to commencing works on site

All manholes covers located within carriageways shall have no slip covers to prevent motorcycles/cycles losing control

- Drainage Key**
- Sewers**
- Foul water drain (private/non adoptable)
  - Surface water drain (private/non adoptable)
  - Foul water sewer (Adoptable)
  - Surface water sewer (Adoptable)
  - Existing foul water drain (private/non adopted)
  - Existing surface water drain (private/non adopted)
  - Existing foul water sewer (Adopted)
  - Existing surface water sewer (Adopted)

- Chamber Key**
- FW/SW**
- Mini access chamber (mac) - 300mmØ
  - PPIC - 475mmØ\*
  - P.C.C. units/brick\*
  - Adoptable demarcation manhole within 1m of boundary
  - Manhole Depth: 1.25m to 1.5m\* Depth: 1.55m to 3.0m\*

- \* General note  
(Refer to standard details & longitudinal sections for chamber sizes. Size may need to increase dependant on number of incoming pipes/sizes of incoming pipes)
- Rain water down pipe (roddable access)
  - Soil vent pipe/soil stack
  - S1/F1 Manhole reference number
  - 1.000 Micro drainage reference
  - Cellular storage (refer to drawing for sizes)
  - FFL XX.XX Finished Floor Level (FFL)
  - Bio-diverse Roof Area
  - Area of tanked permeable paving
  - ← Flood Exceedance Route

| Foul Water Network |                  |                 |           |                  |               |         |
|--------------------|------------------|-----------------|-----------|------------------|---------------|---------|
| Manhole Reference  | Invert Level (m) | Cover Level (m) | Depth (m) | Chamber Details  | Cover Loading | Grade 1 |
| F1                 | 26.720           | 27.89           | 1.17      | Existing         | B125          | 150.0   |
| F2                 | 26.923           | 28.25           | 1.33      | 450 x 600mm I.C. | B125          | 150.0   |
| F3                 | 27.000           | 28.60           | 1.60      | 450 x 600mm I.C. | D400          | 150.0   |
| F4                 | 27.133           | 29.80           | 2.67      | 1200Ø PCC        | B125          | 150.0   |
| F5                 | 27.217           | 28.25           | 1.03      | 450 x 600mm I.C. | B125          | 150.0   |
| F6                 | 27.375           | 31.50           | 4.13      | 1200Ø PCC        | B125          | 60.0    |
| F6 (in)            | 30.175           | 31.50           | 1.33      | Backdrop         | -             | 60.0    |
| F7                 | 30.292           | 31.40           | 1.11      | 450 x 600mm I.C. | A15           | 60.0    |
| F8                 | 30.467           | 31.40           | 0.93      | 450 x 600mm I.C. | A15           | 60.0    |
| F9                 | 27.217           | 28.25           | 1.03      | 450 x 600mm I.C. | B125          | 150.0   |
| F10                | 27.197           | 28.25           | 1.05      | 450 x 600mm I.C. | B125          | 150.0   |
| F11                | 27.307           | 28.25           | 0.94      | 450 x 600mm I.C. | B125          | 150.0   |
| F12                | 27.443           | 28.25           | 0.81      | 450 x 600mm I.C. | B125          | 150.0   |
| F12 (in)           | 27.487           | 31.50           | 4.01      | 1200Ø PCC        | B125          | 150.0   |
| F13                | 29.987           | 31.50           | 1.51      | Backdrop         | -             | 60.0    |
| F14                | 30.320           | 31.40           | 1.08      | 450 x 600mm I.C. | A15           | 60.0    |
| F15                | 30.487           | 31.40           | 0.91      | 450 x 600mm I.C. | A15           | 60.0    |
| F16                | 27.379           | 28.28           | 0.90      | 450 x 600mm I.C. | A15           | 80.0    |
| F17                | 27.542           | 28.28           | 0.74      | 450 x 600mm I.C. | A15           | 80.0    |

| Surface Water Network |                  |                 |           |                  |               |         |
|-----------------------|------------------|-----------------|-----------|------------------|---------------|---------|
| Manhole Reference     | Invert Level (m) | Cover Level (m) | Depth (m) | Chamber Details  | Cover Loading | Grade 1 |
| SE                    | 26.650           | 28.20           | 1.55      | Existing         | D400          | 45.0    |
| S0                    | 27.006           | 28.20           | 1.19      | Flow Control     | D400          | 200.0   |
| S1                    | 27.056           | 28.00           | 0.94      | 1200Ø PCC        | D400          | 150.0   |
| S2                    | 27.374           | 29.85           | 2.48      | 1200Ø PCC        | D400          | 15.0    |
| S3                    | 29.574           | 31.20           | 1.63      | 1200Ø PCC        | D400          | 60.0    |
| S4                    | 30.532           | 31.45           | 0.92      | 450 x 600mm I.C. | A15           | 60.0    |
| S5                    | 27.449           | 29.85           | 2.40      | 1200Ø PCC        | D400          | 100.0   |
| S6                    | 27.724           | 28.25           | 0.53      | 450 x 600mm I.C. | A15           | 100.0   |
| S6 (in)               | 27.784           | 31.50           | 3.72      | 1200Ø PCC        | B125          | 60.0    |
| S7                    | 30.584           | 31.40           | 0.82      | 450 x 600mm I.C. | A15           | 60.0    |
| S8                    | 30.709           | 31.40           | 0.69      | 450 x 600mm I.C. | A15           | 60.0    |
| S9                    | 27.131           | 28.30           | 1.17      | 1200Ø PCC C/P    | B125          | 500.0   |
| S10                   | 27.213           | 28.25           | 1.04      | 1200Ø PCC C/P    | B125          | 80.0    |
| S11                   | 27.481           | 28.25           | 0.77      | 450 x 600mm I.C. | A15           | 80.0    |
| S12                   | 27.613           | 28.25           | 0.64      | 450 x 600mm I.C. | A15           | 80.0    |
| S13                   | 27.656           | 30.50           | 2.84      | 1200Ø PCC        | B125          | 80.0    |
| S13 (in)              | 30.356           | 30.50           | 0.14      | Backdrop         | -             | 60.0    |
| S14                   | 30.598           | 31.40           | 0.80      | 450 x 600mm I.C. | A15           | 60.0    |
| S16                   | 27.094           | 28.15           | 1.05      | 1200Ø PCC        | D400          | 150.0   |
| S17                   | 28.456           | 29.85           | 1.39      | 1200Ø PCC        | D400          | 25.0    |
| S18                   | 30.216           | 31.50           | 1.28      | 1200Ø PCC        | D400          | 25.0    |