

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.

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 abortive works to rely and overcome such obstructions.

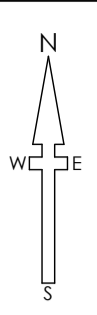
Location of Public Sewers have been taken from record drawings which should be fully substantiated by the contractor prior to commencing works on site

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

Manhole schedules - Invert level shown related to the deepest pipe within the chamber

DESIGN NOTE

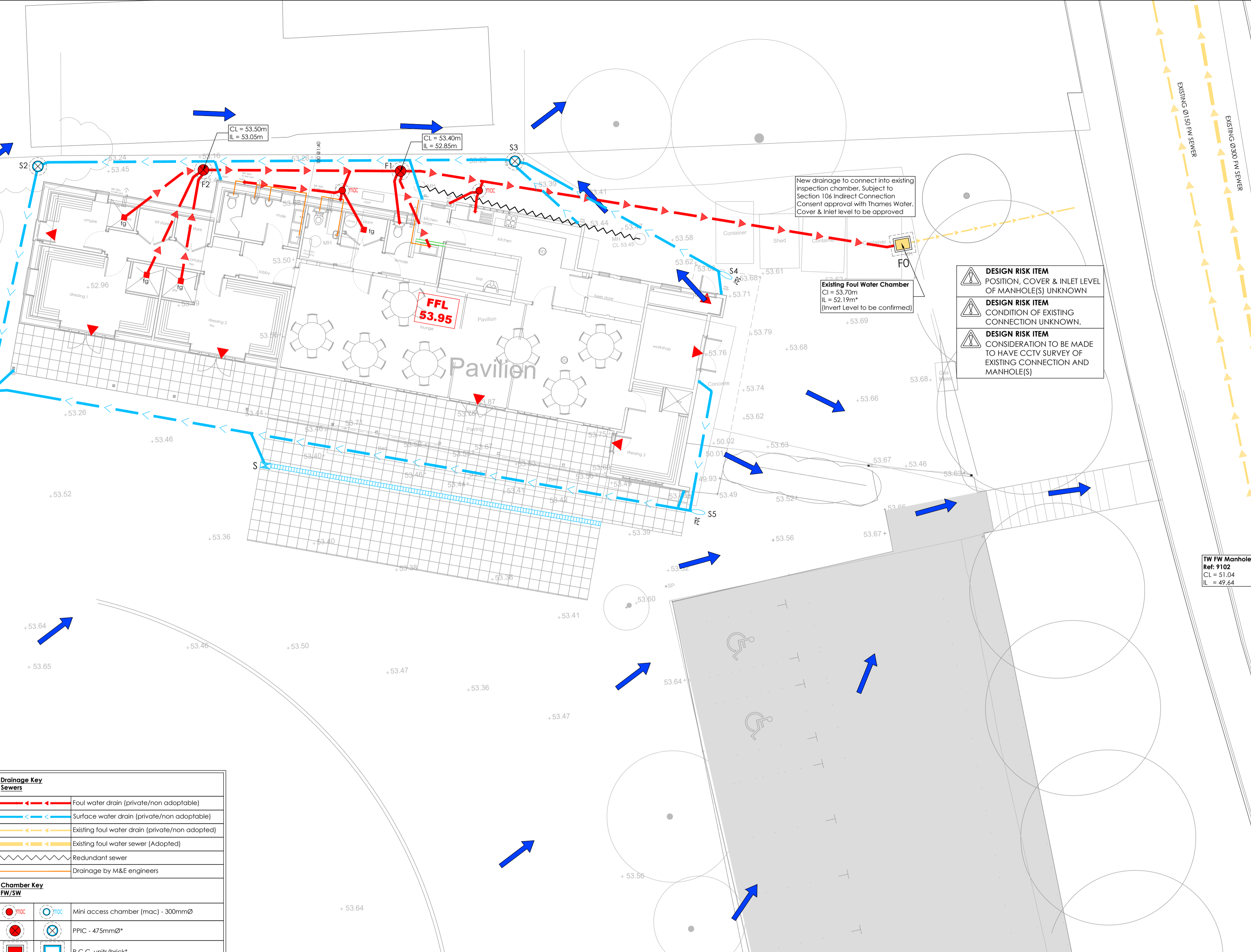
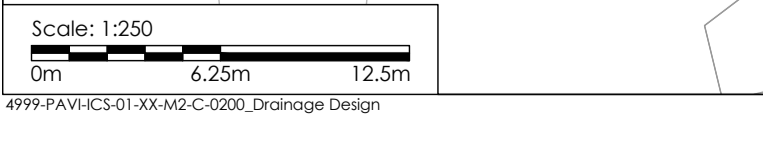
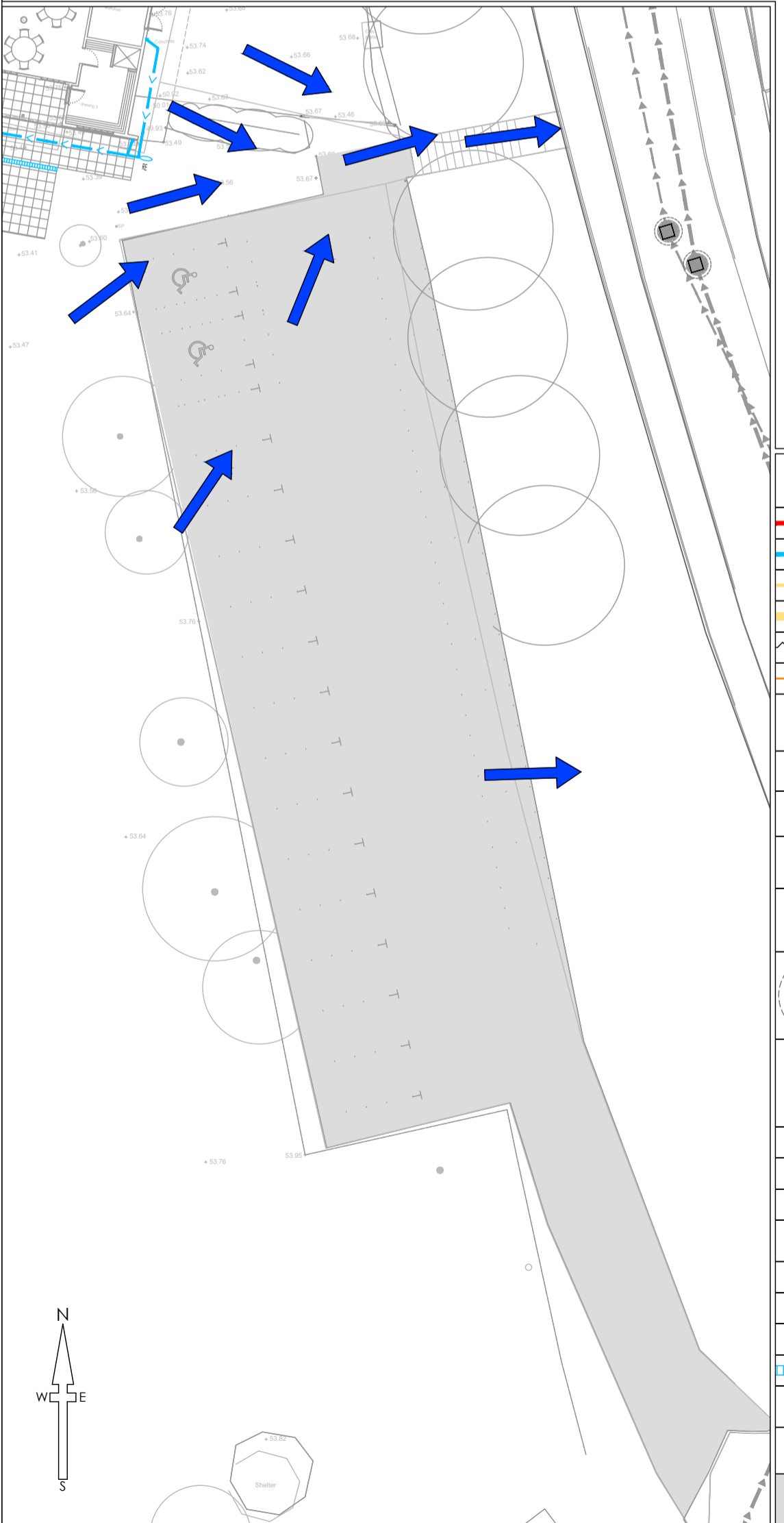
Soakaway testing by AVZ(ref SKZ_1887) shows soakage rates of between 1.11 x 10⁻⁵ m/s and 2.27 x 10⁻⁵ m/s



Cellular Soakaway

CL = 53.80m
 IC = 53.00m
 IL = 52.80m
 6.0m L x 4.0m W x 1.2m Dp
 Soakaway sized to contain 1in100 year Storm, with an additional allowance of 40% for climate change from an area of 360m² (includes 10% urban creep). Based on worst case infiltration rate of 1.0x10⁻⁵ m/s for underlying gravel/sand strata

SA1



Drainage Key

Sewers

- Foul water drain (private/non adoptable)
- Surface water drain (private/non adoptable)
- Existing foul water drain (private/non adopted)
- Existing foul water sewer (Adopted)
- Redundant sewer
- Drainage by M&E engineers

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/size of incoming pipes)

- Surface water rodding eye
- Rain water down pipe (roddable access)
- Soil vent pipe/soil stack
- Silt Trap (ST) with removable silt bucket
- S1/F1 Manhole reference number
- fg Floor gully (trapped)
- S Surface water sump unit
- Linear drainage channel
- Cellular storage (refer to drawing for sizes)
- FFL XX.XX Finished Floor Level (FFL)
- Existing car parking resurfaced. Permeable granular car park construction
- Flood exceedance routing

| Foul Water Network | | | | | |
|--------------------|------------------|-----------------|-----------|-----------------|---------------|
| Manhole Reference | Invert Level (m) | Cover Level (m) | Depth (m) | Chamber Details | Cover Loading |
| F0 | 52.190 | 53.70 | 1.51 | Existing | A15 |
| F1 | 52.852 | 53.40 | 0.55 | PPIC | A15 |
| F2 | 53.049 | 53.50 | 0.45 | PPIC | A15 |

| Surface Water Network | | | | | |
|-----------------------|------------------|-----------------|-----------|-----------------|---------------|
| Manhole Reference | Invert Level (m) | Cover Level (m) | Depth (m) | Chamber Details | Cover Loading |
| SA1 | 52.800 | 53.80 | 1.00 | Special | - |
| S1 | 52.837 | 53.80 | 0.96 | PPIC S/T | A15 |
| S2 | 52.903 | 53.60 | 0.70 | PPIC | A15 |
| S3 | 53.043 | 53.60 | 0.56 | MAC | A15 |
| S4 | 53.117 | 53.60 | 0.48 | Rod. Eye | A15 |
| S5 | 53.287 | 53.80 | 0.51 | Rod. Eye | A15 |

| Grade 1 in | Pipe DIA (mm) | Length (m) |
|------------|---------------|------------|
| 34.0 | 100 | 22.5 |
| 66.0 | 100 | 13 |

| Grade 1 in | Pipe DIA (mm) | Length (m) |
|------------|---------------|------------|
| 150.0 | 150 | 5.5 |
| 150.0 | 150 | 10 |
| 150.0 | 150 | 21 |
| 150.0 | 150 | 11 |
| 70.0 | 150 | 31.5 |

- DESIGN RISK ITEM**
 POSITION, COVER & INLET LEVEL OF MANHOLE(S) UNKNOWN
- DESIGN RISK ITEM**
 CONDITION OF EXISTING CONNECTION UNKNOWN.
- DESIGN RISK ITEM**
 CONSIDERATION TO BE MADE TO HAVE CCTV SURVEY OF EXISTING CONNECTION AND MANHOLE(S)

NOTES

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

DESIGNERS CDM NOTE - RESIDUAL RISKS IDENTIFIED

The design Engineer(s) have analysed this design as the scheme has been developed, in order to identify if there are any significant residual risk hazards (i.e. unusual, unexpected, abnormal or difficult). Residual risks **HAVE** been identified and are therefore shown on this drawing. These risks have not been possible to remove by design.

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.

| | | | | |
|------------------------------------------------------------------------|--------|-------|-------------------|------------|
| PO1 | NJ | RJ | Initial Issue | 13/09/22 |
| REV | DRAWN | CHECK | REVISION COMMENTS | ISSUE DATE |
| DRAWING TITLE | | | | SHEET NO. |
| Drainage Design | | | | 1/1 |
| PROJECT | | | | |
| Sports Pavilion Sonning Sports Club Pound Lane, Sonning, RG4 6XE | | | | |
| CLIENT | | | | |
| Enza Architects | | | | |
| SCALE @ A1 | | | | |
| 1:100 | | | | |
| | | | | |
| ENGINEER R.J.W. | | | | |
| DRAFT NJ | | | | |
| PROJECT NUMBER 4999 | | | | |
| STATUS S2 | | | | |
| ISSUE PURPOSE INFORMATION | | | | |
| APPROVED A.J.G. | | | | |
| PROJECT | ORIGIN | PHASE | LEVEL | TYPE |
| PAVI | ICS | 01 | XX | DR |
| NO. | NO. | NO. | NO. | NO. |
| 0200 | 0200 | 0200 | 0200 | 0200 |