

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 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

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

All adoptable drainage works to follow the requirements of Water UK - Design and Construction Guide (DCG).

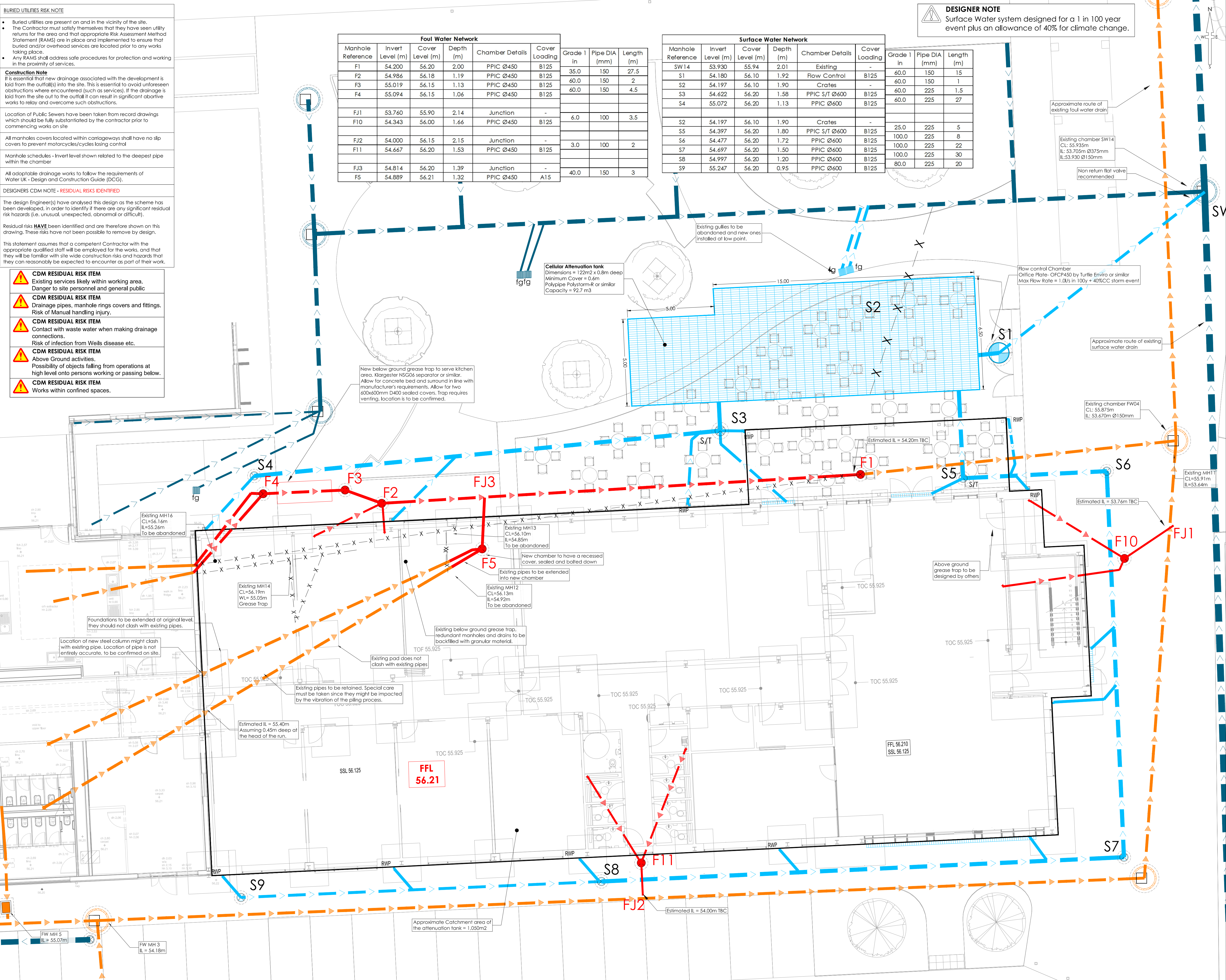
DESIGNERS CDM NOTE - RESIDUAL RISKS IDENTIFIED

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.

- CDM RESIDUAL RISK ITEM**
Existing services likely within working area.
Danger to site personnel and general public
- CDM RESIDUAL RISK ITEM**
Drainage pipes, manhole rings covers and fittings.
Risk of Manual handling injury.
- CDM RESIDUAL RISK ITEM**
Contact with waste water when making drainage connections.
Risk of infection from Wells disease etc.
- CDM RESIDUAL RISK ITEM**
Above Ground activities.
Possibility of objects falling from operations at high level onto persons working or passing below.
- CDM RESIDUAL RISK ITEM**
Works within confined spaces.



DESIGNER NOTE
Surface Water system designed for a 1 in 100 year event plus an allowance of 40% for climate change.

Drainage Key

Sewers

- Foul water drain (private/non adoptable)
- Surface water drain (private/non adoptable)
- Existing foul water drain (private/non adopted)
- Existing surface water drain (private/non adopted)
- Redundant sewer

Chamber Key

FW/SW

- Mini access chamber (mac) - 300mmØ
- PPIC - 475mmØ*
- P.C.C. units/brick*
- 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
- Manhole reference number
- Yard gully (150mm - 200mmØ trapped)
- Floor gully (trapped)
- Surface water sump unit
- Linear drainage channel
- Cellular storage (refer to drawing for sizes)
- RWP cellular discharge/collection unit (DU) (Permavoid or similar)
- Finished Floor Level (FFL)

P4	Foul water schedule added.	06/06/25	MBD
P3	Attenuation tank shape amended to avoid trees	27/05/25	MBD
P2	Y junctions indicated	14/05/25	MBD
P1	Initial Issue	09/05/25	MBD
REV	REVISION DETAILS	DATE	DRAWN BY
CLIENT	FRANCIS CONSTRUCTION Quality Through Experience	ORIGINATOR	SWJ
PROJECT	Bahul School Reading RG2 9GB	TITLE	Drainage Design
SCALE	1:100 @A1	DRAWN	NJ
CHECKED	MBD	APPROVED	MBD
PROJECT	SWJ	ZONE	01
LEVEL	XX	TYPE	DR
STATUS	S2	REVISION:	P4