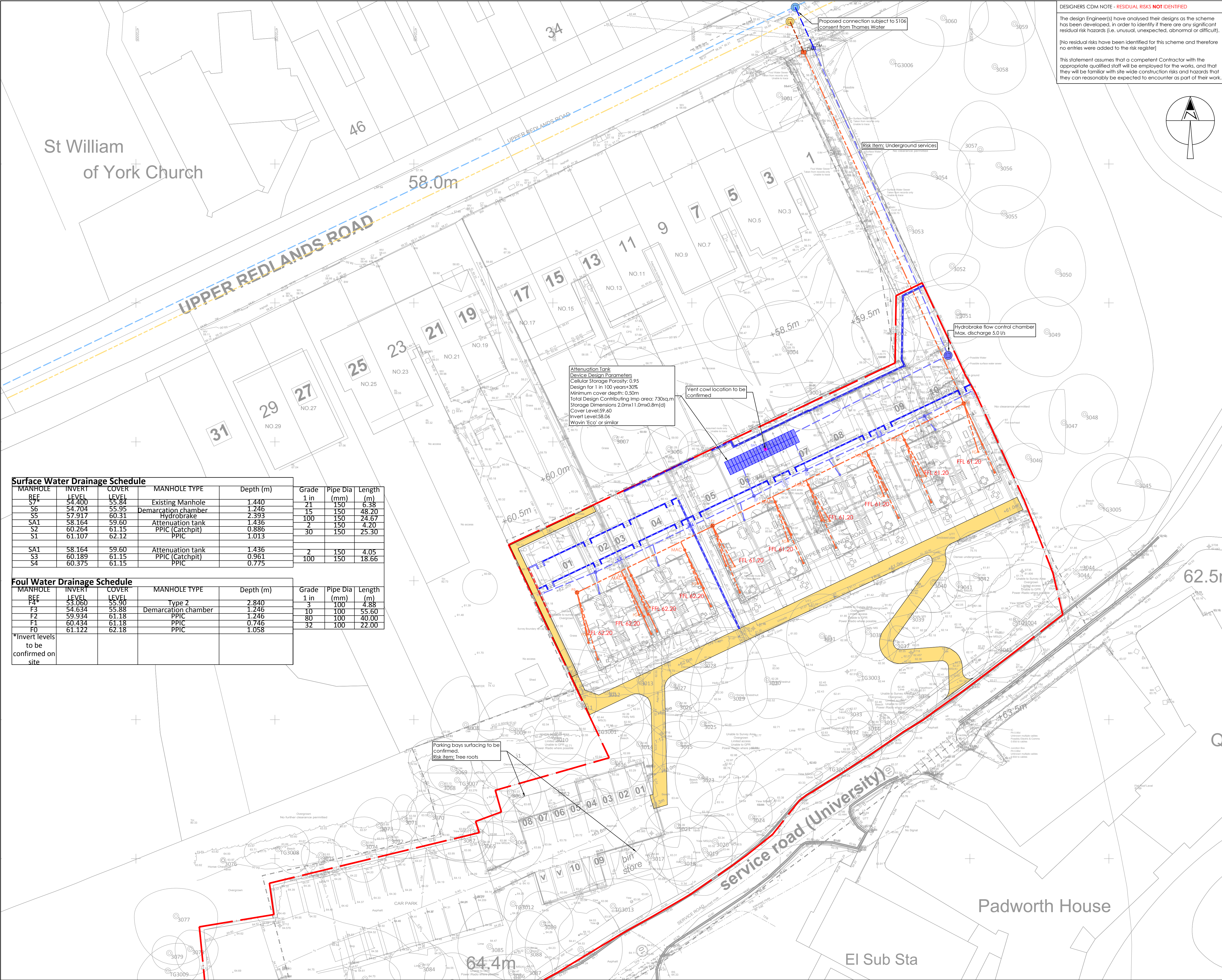




Surface Water Drainage Schedule

MANHOLE	INVERT LEVEL	COVER LEVEL	MANHOLE TYPE	Depth (m)	Grade 1 in	Pipe Dia (mm)	Length (m)
REF	54.400	55.84	Existing Manhole	1.440	21	150	6.38
S6	54.704	55.95	Demarcation chamber	1.246	15	150	48.20
S5	57.917	60.31	Hydrobrake	2.393	100	150	24.67
SA1	58.164	59.60	Attenuation tank	1.436	2	150	4.20
S2	60.264	61.15	PPIC (Catchpit)	0.886	30	150	25.30
S1	61.107	62.12	PPIC	1.013			
SA1	58.164	59.60	Attenuation tank	1.436	2	150	4.05
S3	60.189	61.15	PPIC (Catchpit)	0.961	100	150	18.66
S4	60.375	61.15	PPIC	0.775			

Foul Water Drainage Schedule

MANHOLE	INVERT LEVEL	COVER LEVEL	MANHOLE TYPE	Depth (m)	Grade 1 in	Pipe Dia (mm)	Length (m)
F4*	53.060	55.90	Type 2	2.840	3	100	4.88
F3	54.634	55.88	Demarcation chamber	1.246	10	100	55.60
F2	59.934	61.18	PPIC	1.246	80	100	40.00
F1	60.434	61.18	PPIC	0.746			
F0	61.122	62.18	PPIC	1.058	32	100	22.00
*Invert levels to be confirmed on site							

DESIGNERS CDM NOTE - RESIDUAL RISKS NOT IDENTIFIED

The design Engineer(s) have analysed their designs 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).

[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.

DESIGNERS CDM NOTE

THERE ARE NO SUBSTANTIAL RESIDUAL RISK ITEMS IDENTIFIED

GENERAL NOTES

- All dimensions in millimetres and levels in metres
- This drawing is to be read in conjunction with the relevant Architect's/Engineer's drawings, specifications and CDM documentation
- 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.
- This drawing contains coloured lines / information that may not be clear if printed / reproduced in monochrome

KEY

- Foul drain (private/non adoptable)
- Surface water drain (private/non-adoptable)
- Foul sewer (Adoptable)
- Surface water drain (Adoptable)
- Highway Drain (Adoptable)
- Existing Private Foul drain
- Existing Private Surface water drain
- Existing Adoptable Foul sewer
- Existing Adoptable Surface water sewer
- Existing Adoptable Combined water sewer

- SW** **FW** **CHAMBER DETAILS**
- Depth - 0.6m or less Mini access chamber MAC (300mmØ)
 - Depth - 0.45m to 1.25m PPIC (475mmØ)
 - Depth - 0.45m to 1.25m 600x450 P.C.C. units/brick (preferred type for trafficked areas)
 - Adoptable demarcation manhole within 1m of boundary 600mm x 450mm (size to be confirmed by adoption authority) PCC or brick construction NOT plastic.
 - Manhole
 - Depth - 1.25 to 1.5m (1050mmØ P.C.C. ring)
 - Depth - 1.55 to 3.0m (1200mmØ P.C.C. ring)

- RE Surface water rodding eye
- F1 Manhole number
- Entrance into building
- Soil Vent Pipe/Soil Stack
- Rain water down pipe (roddable access)
- YG Yard gully (225mmØ trapped)
- Road gully (trapped) C250 hinged cover & frame
- Floor Gully
- Linear Drainage channel
- Crate storage (Refer to drawing for sizes)

FFLXXX.XX Finished floor level

Retaining Wall

Site Boundary

Permeable Resin Bound footpath construction

Vent cowl

It is strongly recommended that where possible all drainage runs are laid commencing from the outfalls, especially where the outfall depth is shallow.

P1	Preliminary Issue		03/02/16		PI	
REV	REVISION DETAILS			DATE	DRAWN BY	
CLIENT	 KNOWLES		ORIGINATOR			
			 CEMMA DESIGN			
PROJECT 1A Upper Redlands Road Reading		TITLE Proposed Drainage Layout				
SCALE 1:250 @A1		DRAWN PI		CHECKED SW	APPROVED SW	
PROJECT 4265	ORIGINATOR GDL	ZONE XX	LEVEL D	TYPE DR	ROLE C	DOC NO 003
JOB NO. 4265	PURPOSE OF ISSUE FOR COMMENT			STATUS: S3	REVISION: P1	