DESIGNERS CDM NOTE - RESIDUAL RISKS IDENTIFIED

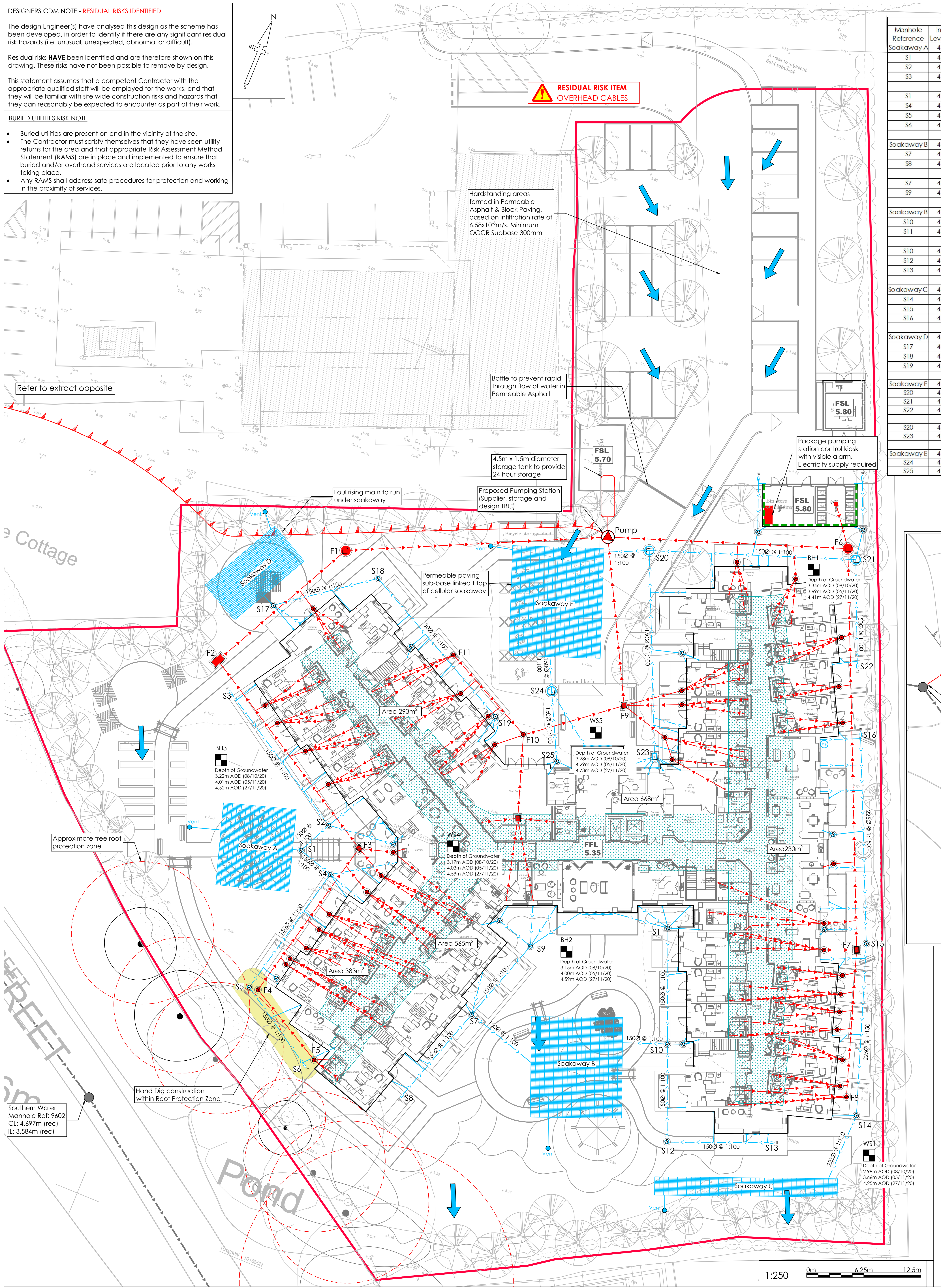
The design Engineer(s) have analysed this design as the scheme has been developed, in order to identify if there are any significant residual risk hazards (i.e. unusual, unexpected, abnormal or difficult).

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.

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.

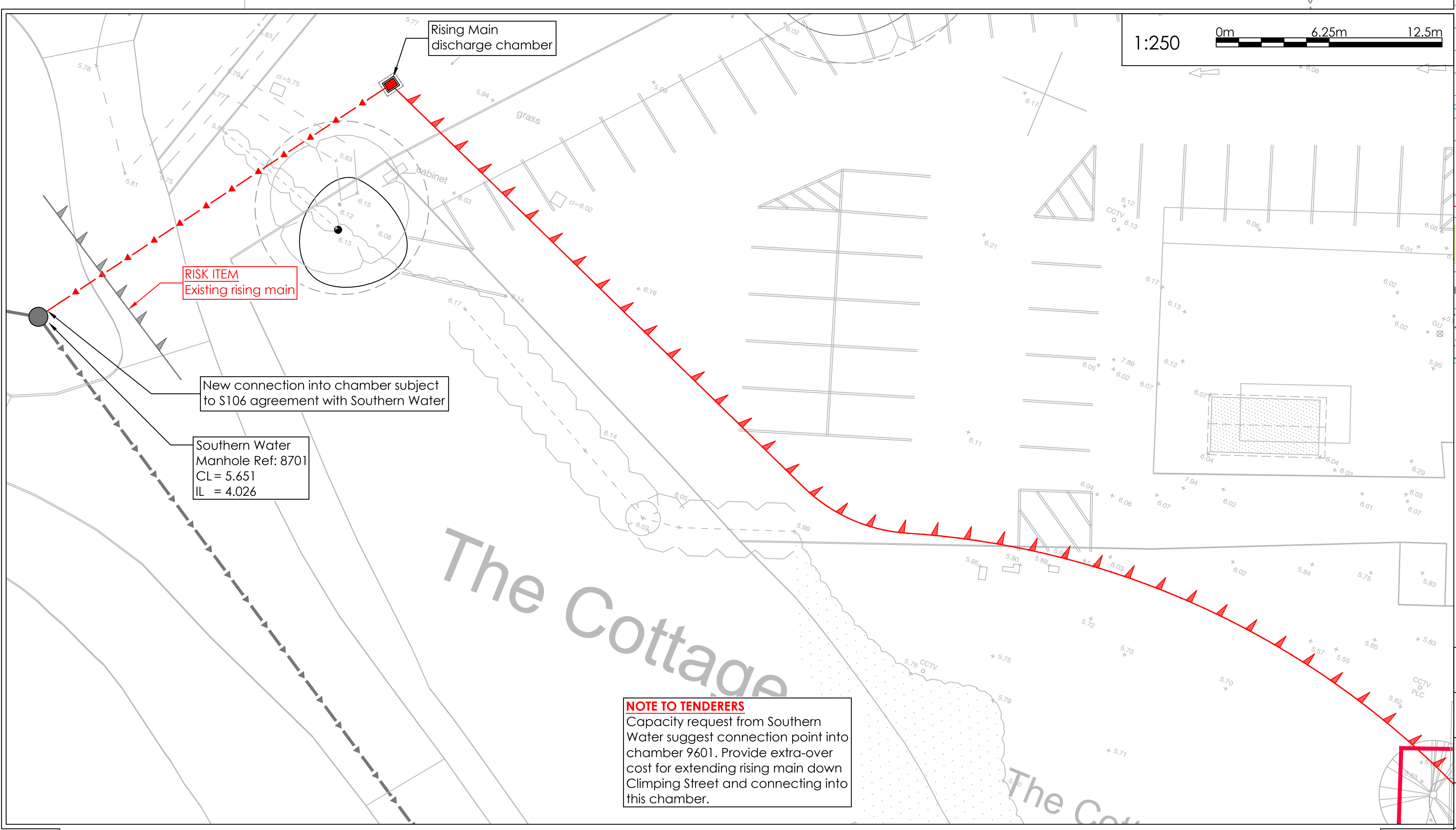


Surface Water Network								
Manhole Reference	Invert Level (m)	Cover Level (m)	Depth (m)	Chamber Details	Cover Loading	Grade 1 in	Pipe DIA (mm)	Length (m)
Soakaway A	4.550	5.30	0.75	Cellular Soakaway	-			
S1	4.560	5.30	0.74	PPIC S/T	A15	100.0	150	1
S2	4.600	5.30	0.70	PPIC	A15	100.0	150	4
S3	4.780	5.30	0.52	PPIC	A15	100.0	150	18
S1	4.560	5.30	0.74	PPIC S/T	A15			
S4	4.600	5.30	0.70	PPIC	A15	100.0	150	4
S5	4.750	5.30	0.55	PPIC	A15	100.0	150	15
S6	4.800	5.30	0.50	PPIC	A15	100.0	150	5
Soakaway B	4.550	5.30	0.75	Cellular Soakaway	-			
S7	4.635	5.30	0.67	PPIC S/T	A15	100.0	150	8.5
S8	4.755	5.30	0.55	PPIC	A15	100.0	150	12
S7	4.635	5.30	0.67	PPIC S/T	A15			
S9	4.735	5.30	0.57	Rod. Eye	A15	100.0	150	10
Soakaway B	4.550	5.30	0.75	Cellular Soakaway	-			
S10	4.600	5.30	0.70	PPIC S/T	A15	100.0	150	5
S11	4.725	5.30	0.58	PPIC	A15	100.0	150	12.5
S10	4.600	5.30	0.70	PPIC S/T	A15			
S12	4.710	5.30	0.59	PPIC	A15	100.0	150	11
S13	4.825	5.30	0.48	Rod. Eye	A15	100.0	150	11.5
Soakaway C	4.450	5.30	0.85	Cellular Soakaway	-			
S14	4.500	5.30	0.80	PPIC S/T	A15	150.0	225	7.5
S15	4.627	5.30	0.67	PPIC	A15	150.0	225	19
S16	4.773	5.30	0.53	Rod. Eye	A15	150.0	225	22
Soakaway D	4.550	5.30	0.75	Cellular Soakaway	-			
S17	4.565	5.30	0.74	PPIC S/T	A15	100.0	150	1.5
S18	4.685	5.30	0.62	PPIC	A15	100.0	150	12
S19	4.885	5.30	0.42	PPIC	A15	100.0	150	20
Soakaway E	4.300	5.35	1.05	Cellular Soakaway	-			
S20	4.350	5.60	1.25	1050Ø PCC C/P	D400	100.0	150	5
S21	4.575	5.30	0.73	PPIC	A15	100.0	150	22.5
S22	4.690	5.30	0.61	Rod. Eye	A15	100.0	150	11.5
S20	4.350	5.60	1.25	1050Ø PCC C/P	D400			
S23	4.575	5.30	0.73	450 x 600mm I.C.	A15	100.0	150	22.5
Soakaway E	4.300	5.35	1.05	Cellular Soakaway	-			
S24	4.340	5.30	0.96	1050Ø PCC C/P	B125	100.0	150	4
S25	4.415	5.30	0.89	PPIC	A15	100.0	150	7.5

Foul Water Network								
Manhole Reference	Invert Level (m)	Cover Level (m)	Depth (m)	Chamber Details	Cover Loading	Grade 1 in	Pipe DIA (mm)	Length (m)
PUMP	3.471	5.60	2.13	Pump	D400			
F1	3.751	5.30	1.55	1200Ø PCC	B125	100.0	150	28
F2	3.936	5.30	1.36	900 x 1200mm I.C.	B125	100.0	150	18.5
F3	4.196	5.30	1.10	450 x 600mm I.C.	A15	100.0	150	26
F4	4.434	5.30	0.87	PPIC	A15	80.0	150	19
F5	4.600	5.35	0.75	PPIC	A15	60.0	150	10
PUMP	3.633	5.60	1.97	Pump	D400			
F6	3.893	5.30	1.41	1200Ø PCC	D400	100.0	150	26
F7	4.333	5.30	0.97	450 x 600mm I.C.	A15	100.0	150	44
F8	4.600	5.30	0.70	PPIC	A15	60.0	150	16
PUMP	3.867	5.60	1.73	Pump	D400			
F9	4.278	5.30	1.02	450 x 600mm I.C.	A15	45.0	150	18.5
F10	4.422	5.30	0.88	PPIC	A15	80.0	150	11.5
F11	4.566	5.30	0.73	PPIC	A15	80.0	150	11.5

Soakaway Table			
REFERENCE	SIZE	COVER LEVEL	INVERT LEVEL
A	8m x 9m x 0.4m	5.30	4.550
B	10m x 11m x 0.4m	5.30	4.550
C	2m x 20m x 0.4m	5.30	4.450
D	5m x 10m x 0.4m	5.30	4.550
E	10m x 12m x 0.4m	5.35	4.300

Note
All crates to be Wavin Aquacell Core-R or similar approved



NOTE TO TENDERERS
Capacity request from Southern Water suggest connection point into chamber 9601. Provide extra-over cost for extending rising main down Climping Street and connecting into this chamber.

Survey Company info here
DRG NUMBER: DATE RECEIVED:

Hunters
DRG NUMBER: M9316-HUN-ZZ-SL-DR-A-03-0010 D DATE RECEIVED: 07.09.2020

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 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

Drainage Key

Sewers

▶	Foul water drain (private/non adoptable)
>	Surface water drain (private/non adoptable)
>	Surface water sewer (Adoptable)
▶	Foul water sewer (Adoptable)
	Foul rising main
▶	Existing foul water sewer (Adopted)

Chamber Key

FW	**SW**	
● mac	○ mac	Mini access chamber (mac) - 300mmØ *
⊗	⊗	PPIC - 475mmØ *
DM ■	DM ☐	Adoptable demarcation manhole within 1m of boundary *
●	○	Manhole Depth 1.25 to 1.5m * Depth 1.55 to 3.0m *

* General note
(Refer to standard details & long sections for chamber sizes.
Size may need to increase dependant on number of incoming pipes/size of incoming pipes)

RE	Surface water rodding eye
F1	Manhole reference number
○	Rain water down pipe (roddable access)
⊗ ST	Silt Trap (ST) with removable silt bucket
●	Soil vent pipe/soil stack
RG⊠	Road gully (trapped) D400
	Linear drainage channel
▤	Cellular storage (refer to drawing for sizes)
➡	Overland Flows Route
	Tree root protection zone (RPZ)
	Hand Dig construction within Root Protection Zone
	Baffle to prevent rapid through flow of water through permeable Surfacing
	Approximate Extent of Green Roof

REV	DRAWN	CHECK	REVISION COMMENTS	ISSUE DATE
P08	NJ	TST	Pipe information added to surface water design. Additional notes added	29/01/21
P07	NJ	TST	Drainage design updated	14/01/21
P06	NJ	TST	Legal site boundary amended	19/11/20
P05	NJ	TST	Rising main re-routed. On-site storage tank added	23/10/20
P04	NJ	TST	Drainage outfalls and schedules amended	20/10/20
P03	SNN	TST	Drawing updated in line with revised site & GA layouts	12/10/20
P02	NJ	TST	Layout and Drainage updated	11/05/18
P01	MBD	TST	Initial issue	11/04/18

DRAWING TITLE
Proposed Drainage Strategy

SHEET NO.
1/1

PROJECT
Bairds Care Home
Littlehampton
Sussex

CLIENT
BRACKLEY

Infrastruct CS Ltd

The Stables, High Cogges Farm, High Cogges, Witney, OX29 6UN - Tel: 01993 709709: info@infrastructcs.co.uk

SCALE @ A1
As Noted

ENGINEER
MBD
DRAFT
NJ
APPROVED
TST

PROJECT NUMBER	STATUS	DATE
2868	S2	April 18

PROJECT	ORIGIN	PHASE	LEVEL	TYPE	ROLE	DWG NO	REVISION
BCH	ICS	01	XX	DR	C	003	P08

X:\ICS Jobs\2800 Jobs\2868 - Baird's Farm Shop, Crookthorn Lane (Brackley Investments)\01 - Drawings\01 Civil\2868-BCH-ICS-01-XX-M2-C-003_Drainage Design - alternative design.dwg

ARUN DISTRICT COUNCIL CM/48/20/DOC