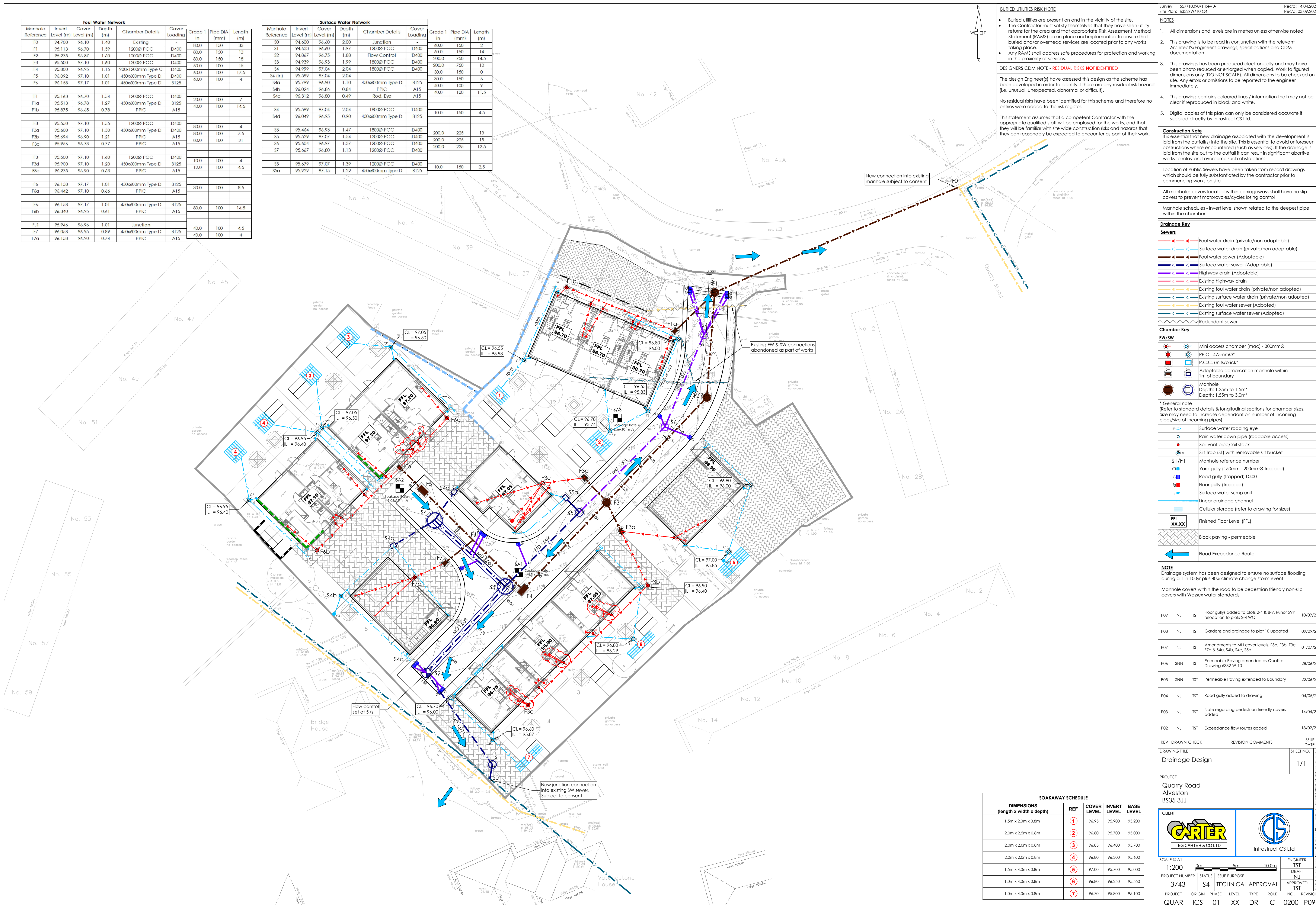


Foul Water Network						
Manhole Reference	Invert Level (m)	Cover Level (m)	Depth (m)	Chamber Details	Cover Loading	Length (m)
F0	94.700	96.10	1.40	Existing	-	33
F1	95.113	96.70	1.59	1200Ø PCC	D400	13
F2	95.275	96.87	1.60	1200Ø PCC	D400	18
F3	95.500	97.10	1.60	1200Ø PCC	D400	15
F4	95.800	96.95	1.15	900x1200mm Type C	D400	17.5
F5	96.092	97.10	1.01	450x600mm Type D	D400	4
F6	96.158	97.17	1.01	450x600mm Type D	B125	4
F1a	95.163	96.70	1.54	1200Ø PCC	D400	7
F1b	95.513	96.78	1.27	450x600mm Type D	B125	14.5
F1c	95.875	96.45	0.78	PPIC	A15	
F3a	95.550	97.10	1.55	1200Ø PCC	D400	4
F3b	95.600	97.10	1.50	450x600mm Type D	D400	7.5
F3c	95.694	96.90	1.21	PPIC	A15	21
F3d	95.956	96.73	0.77	PPIC	A15	
F3e	95.500	97.10	1.60	1200Ø PCC	D400	4
F3f	95.900	97.10	1.20	450x600mm Type D	B125	4.5
F3g	96.275	96.90	0.63	PPIC	A15	
F6a	96.158	97.17	1.01	450x600mm Type D	B125	8.5
F6b	96.442	97.10	0.66	PPIC	A15	
F6c	96.158	97.17	1.01	450x600mm Type D	B125	14.5
F6d	96.340	96.95	0.61	PPIC	A15	
F7a	95.946	96.96	1.01	Junction	-	4.5
F7b	96.058	96.95	0.89	450x600mm Type D	B125	4
F7c	96.158	96.90	0.74	PPIC	A15	

Surface Water Network						
Manhole Reference	Invert Level (m)	Cover Level (m)	Depth (m)	Chamber Details	Cover Loading	Length (m)
S0	94.600	96.60	2.00	Junction	-	2
S1	94.633	96.60	1.97	1200Ø PCC	D400	14
S2	94.867	96.75	1.88	Flow Control	D400	14.5
S3	94.939	96.93	1.99	1800Ø PCC	D400	12
S4	94.999	97.04	2.04	1800Ø PCC	D400	0
S4 (in)	95.599	97.04	2.04			6
S4b	95.799	96.90	1.10	450x600mm Type D	B125	9
S4c	96.024	96.86	0.84	PPIC	A15	11.5
S4d	96.312	96.80	0.49	Rod. Eye	A15	
S4e	95.599	97.04	2.04	1800Ø PCC	D400	4.5
S4f	96.049	96.95	0.90	450x600mm Type D	B125	
S5	95.464	96.93	1.47	1800Ø PCC	D400	13
S5a	95.529	97.07	1.54	1200Ø PCC	D400	15
S6	95.604	96.97	1.37	1200Ø PCC	D400	12.5
S7	95.667	96.80	1.13	1200Ø PCC	D400	
S5	95.679	97.07	1.39	1200Ø PCC	D400	2.5
S5a	95.929	97.15	1.22	450x600mm Type D	B125	



**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**

- 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 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 reproduced in black and white.
- 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.

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.

**Drainage Key**

**Sewers**

- Red dashed line with arrow: Foul water drain (private/non adoptable)
- Blue dashed line with arrow: Surface water drain (private/non adoptable)
- Black dashed line with arrow: Foul water sewer (Adoptable)
- Blue dashed line with arrow: Surface water sewer (Adoptable)
- Green dashed line with arrow: Highway drain (Adoptable)
- Yellow dashed line with arrow: Existing highway drain
- Red dashed line with arrow: Existing foul water drain (private/non adopted)
- Blue dashed line with arrow: Existing surface water drain (private/non adopted)
- Yellow dashed line with arrow: Existing foul water sewer (Adopted)
- Blue dashed line with arrow: Existing surface water sewer (Adopted)
- Red dashed line with arrow: Redundant sewer

**Chamber Key**

**PW/SW**

- Red circle: Mini access chamber (mac) - 300mmØ
- Blue circle: PPIC - 475mmØ\*
- Black square: P.C.C. units/brick\*
- Blue square: Adoptable demarcation manhole within 1m of boundary
- Red circle: Manhole Depth: 1.25m to 1.5m\*
- Blue circle: Manhole Depth: 1.5m 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)

**Legend**

- Red circle: Surface water rodding eye
- Blue circle: Rain water down pipe (roddable access)
- Red circle: Soil vent pipe/soil stack
- Blue circle: Silt Trap (ST) with removable silt bucket
- Red circle: S1/F1 Manhole reference number
- Blue circle: Yard gully (150mm - 200mmØ trapped)
- Red circle: Road gully (trapped) D400
- Blue circle: Floor gully (trapped)
- Red circle: Surface water sump unit
- Blue circle: Linear drainage channel
- Red circle: Cellular storage (refer to drawing for sizes)
- Blue circle: Finished Floor Level (FFL)
- Red circle: Block paving - permeable
- Blue circle: Flood Eedance Route

**NOTE**

Drainage system has been designed to ensure no surface flooding during a 1 in 100yr plus 40% climate change storm event

Manhole covers within the road to be pedestrian friendly non-slip covers with Wessex water standards

REV	DRAWN	CHECK	REVISION COMMENTS	ISSUE DATE
P09	NJ	TST	Floor gully added to plots 2-4 & 8-9. Minor SWP relocation to plots 2-4 WC	10/09/21
P08	NJ	TST	Gardens and drainage to plot 10 updated	09/09/21
P07	NJ	TST	Amendments to MH cover levels: F3a, F3b, F3c, F7a & S4a, S4b, S4c, S5a	01/07/21
P06	SNH	TST	Permeable Paving amended as Quattro Drawing 6332-W-10	28/06/21
P05	SNH	TST	Permeable Paving extended to Boundary	22/06/21
P04	NJ	TST	Road gully added to drawing	04/05/21
P03	NJ	TST	Note regarding pedestrian friendly covers added	14/04/21
P02	NJ	TST	Exceedance flow routes added	18/02/21

**SOAKAWAY SCHEDULE**

DIMENSIONS (length x width x depth)	REF	COVER LEVEL	INVERT LEVEL	BASE LEVEL
1.5m x 2.0m x 0.8m	①	96.95	95.900	95.200
2.0m x 2.5m x 0.8m	②	96.80	95.700	95.000
2.0m x 2.0m x 0.8m	③	96.85	96.400	95.700
2.0m x 2.0m x 0.8m	④	96.80	96.300	95.600
1.5m x 4.0m x 0.8m	⑤	97.00	95.700	95.000
1.0m x 4.0m x 0.8m	⑥	96.80	96.250	95.550
1.0m x 4.0m x 0.8m	⑦	96.70	95.800	95.100

**PROJECT**  
Quarry Road  
Alveston  
BS35 3JJ

**CLIENT**  
EG CARTER & COLTD

**ENGINEER**  
TST

**SCALE** @ A1  
1:200

**PROJECT NUMBER**  
3743

**STATUS**  
S4 TECHNICAL APPROVAL

**PROJECT ORIGIN**  
QUAR

**PHASE**  
ICS

**LEVEL**  
01

**TYPE**  
XX

**ROLE**  
DR

**NO.**  
C

**REVISION**  
0200 P09

**SHEET NO.**  
1/1