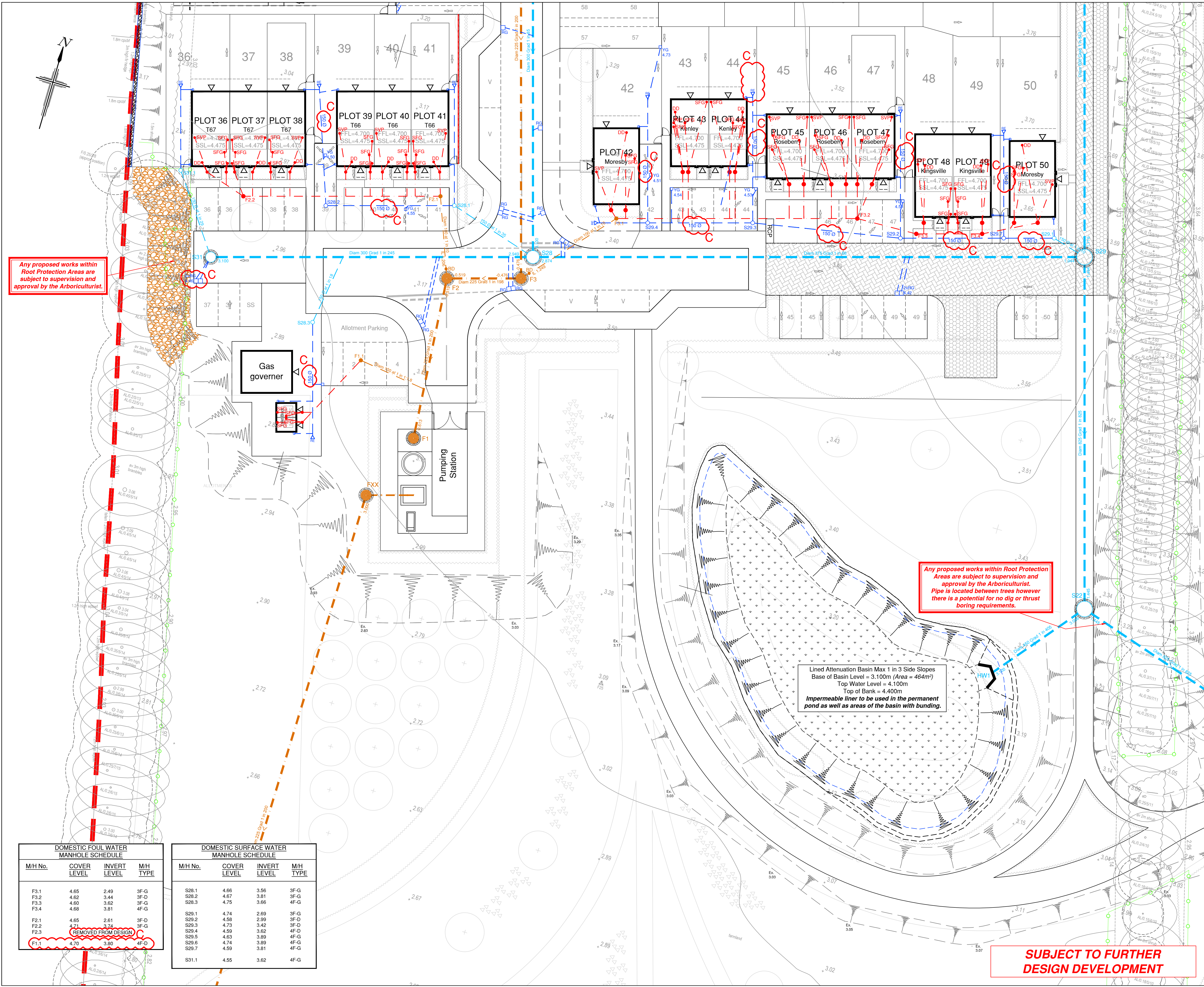




Any proposed works within Root Protection Areas are subject to supervision and approval by the Arboriculturist.

Any proposed works within Root Protection Areas are subject to supervision and approval by the Arboriculturist. Pipe is located between trees however there is a potential for no dig or thrust boring requirements.

Lined Attenuation Basin Max 1 in 3 Side Slopes
Base of Basin Level = 3.100m (Area = 464m²)
Top Water Level = 4.100m
Top of Bank = 4.400m
Impermeable liner to be used in the permanent pond as well as areas of the basin with bunding.

DOMESTIC FOUL WATER MANHOLE SCHEDULE			
M/H No.	COVER LEVEL	INVERT LEVEL	M/H TYPE
F3.1	4.65	2.49	3F-G
F3.2	4.62	3.44	3F-D
F3.3	4.60	3.62	3F-G
F3.4	4.68	3.81	4F-G
F2.1	4.65	2.61	3F-D
F2.2	4.77	3.74	3F-G
F2.3	4.77	3.74	3F-G
F1.1	4.70	3.80	4F-D

DOMESTIC SURFACE WATER MANHOLE SCHEDULE			
M/H No.	COVER LEVEL	INVERT LEVEL	M/H TYPE
S28.1	4.66	3.56	3F-G
S28.2	4.67	3.81	3F-G
S28.3	4.75	3.66	4F-G
S29.1	4.74	2.69	3F-G
S29.2	4.58	2.99	3F-D
S29.3	4.73	3.42	3F-D
S29.4	4.59	3.62	4F-D
S29.5	4.63	3.89	4F-G
S29.6	4.74	3.89	4F-G
S29.7	4.59	3.81	4F-G
S31.1	4.55	3.62	4F-G

NOTES

- All dimensions are in metres unless stated otherwise.
- Do not scale from this drawing. Only written dimensions are to be used.
- FW & SW house drainage is to be constructed in accordance with the Building Regulations & BS8301 & the WRc Guide Sewers for Adoption 7th Edition.
- Drains are to be constructed using factory jointed vitrified clay pipes to BS EN 205-1991 "Super Strength" specification (e.g. Hesporth Superline or similar) or uPVC drainage pipework to BS4592 & BS2454, bedded & backfilled in accordance with manufacturers instructions.
- Location of sewers & lateral drains to be in accordance with the WRc Guide Sewers for Adoption 6th Edition and specific requirements of local water.
- Backfilling of drain trenches adjacent to dwelling or other structure to be in accordance with BS8301: Fig. 9.
- Cover levels indicated on the Drainage Schedules are nominal & may be adjusted to suit finished ground levels as necessary.
- Generally inspection chamber covers should be Grade D400 in trafficked areas Grade B125 in parking areas and occasional traffic and A15 in pedestrian only areas.
- Rainwater downpipes to be connected direct to drain using an appropriate adaptor & removable section of downpipe to permit coding access.
- The positions of SVPs, sub stacks, WC outlets, Back inlet gullies etc. & rainwater downpipes are to be accurately located from the house type working drawings.
- Generally FW drains are to be laid to falls of 1 in 40. SW drains are to be laid to falls of 1 in 60, both in 100mm diameter pipes. SW pipes are to be 150mm diameter when serving 2 dwellings or 2 RWP connections. FW pipes are to be 150mm diameter when serving 12 dwellings or more unless stated otherwise, or where a schedule is provided.
- 100mmD Drains are to be laid to a minimum fall of 1 in 80 and 150mmD Drains are to be laid to a minimum fall of 1 in 150.
- Gullies situated in areas accessible to wheeled vehicles to be of suitable construction for trafficked areas.
- Where land drain is identified on the Architect's details, connect into nearest SW system.
- Where catchpits have been shown in rear gardens connecting to land drains, 600mm PPVC catchpit to be used.
- This drawing should be read in conjunction with the Architects and Structural Engineers design drawings and specification.
- Site layout shown in this drawing is based on ID Partnership Proposed Site Layout Plan, drawing number PL-04 revision G, issued to RCP in .dwg format on 08/01/2019.
- Architectural blocks based on RCP Block Foundation Layouts, drawing number 4519/AF/FOUND/01 to 31 dated December 2018. Substations based on RCP Standard Substation Enclosures, drawing number MP/SS/1644 revision A, as provided by Client on 10/01/2019.
- Topographical Survey as per Shireline Site Survey, drawing number 367A/1, dated August 2016.
- Background landscaping proposals based on Fabric drawing number D24/4, issued to RCP in .dwg format on 08/01/2019.
- Drainage General Arrangements and Domestic Drainage Construction Details (BSO/E4519/411 & 412), Foul Water Sewer Manhole Schedules (BSO/E4519/413 & 414), Surface Water Sewer Manhole Schedules (BSO/E4519/415 to 417), other Drainage General Arrangements and Domestic Drainage Construction Details (BSO/E4519/417 & 472).
- Where backfilling is less than 1.0m for domestic drainage, backfilling to be accommodated with internal benching.
- ANY VARIANCE OR DISCREPANCY MUST BE REPORTED BACK TO RCP ENGINEERING BEFORE WORK BEGINS.**

TYPE	DEPTH/RANGE	DESCRIPTION	TYPE	DEPTH/RANGE	DESCRIPTION
3F	0.6m to 3.0m	in 40mm diameter PPRC (uPVC) access chamber (Non Entry)	4F	0.6m to 2.0m	in 40mm diameter PPRC (uPVC) access chamber (Non Entry)
4R	0.6m to 3.0m	in 40mm diameter PPRC (uPVC) access chamber (Non Entry)	4R	0.6m to 2.0m	in 40mm diameter PPRC (uPVC) access chamber (Non Entry)

Type 3 manholes to be used where 3 or more properties are connected. Type 1 manholes to be used where less than 3 properties are connected.

LOCATION	CODE	COVER GRADE	RE
Driveway	D	D400	
Garden	G	B125	
		A15	Flanking point at head of drain

KEY

Site Boundary

Section 5276 Works by Others
(Refer to Paul Basham Associates Design Drawings for Details)

FFL = Plot/Garden Finished Floor Level
SSL = Plot/Garden Structural Sub Level

Existing Southern Water Foul & Surface Water Sewers

Adaptable Surface Water Sewers

Adaptable Foul Water Sewers

Adaptable Foul Water Rising Main

Concrete Bagwork / PCC Headwalls

Road Gully and 1500 Connection

Private Surface Water Domestic Drainage

Private Foul Water Domestic Drainage

House connection via 300mm dia. shallow access chamber not more than 600mm deep (Based on floor make-up of 70mm screed, 150mm insulation & 150mm Dens 6 Block Floor).

In the event that conditions on-site result in maximum depth of 900mm being exceeded, then Type 4-F chambers to be used.

Internal Foul Connections

Soil Vent Type

Direct Drain (WHB, WC, WIC, WM)

Sealed Floor Gully

Gully

Rodding Eye

(Refer to Vehicular Rodding Eye construction details for RE Located in Parking Bays)

'Acc' Channel or similar

Yard Gully and Connection

Root Protection Areas
(Based on Barratt Tree Consultancy Tree Protection Plan, drawing number 16278/712, issued to RCP in .dwg format on 17/12/2018)

Tree Protection Fencing
(Based on Barratt Tree Consultancy Tree Protection Plan, drawing number 16278/712, issued to RCP in .dwg format on 17/12/2018)

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CDM NOTES

- EXISTING SERVICES. Depth of existing services must be determined prior to works commencing. The contractor is responsible for establishing underground services in accordance with HSE Guidance note HS (G) 47. Any services which would be within the proposed construction layers must be lowered to below the sub-base.

SCALE BAR 1:200 at A1

Rev	Date	Details	By	Chkd	Appd
C	06.12.19	F2.3 removed from design, F1.1 added to schedule	PJ	LD	TRS
B	21.10.19	Updated to Clients Comments and Updated Drainage in POS	RM	LD	TRS
A	14.03.19	Updated Work in Progress	PJ	TS	TS

Client:-

Site:-
Harbour Place,
Forty Acre Farm,
Bedhampton

Drawing Title:-
DRAINAGE
GENERAL
ARRANGEMENT

SHEET 3 of 14

Date:- February 2019 Scales:- 1:200 at A1

Drawn:- AC Checked:- NW Approved:- TRS

Drawing No. BSO/E4519/453 C

TENDER ISSUE

SUBJECT TO ADOPTING AUTHORITY APPROVAL

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SUBJECT TO FURTHER DESIGN DEVELOPMENT