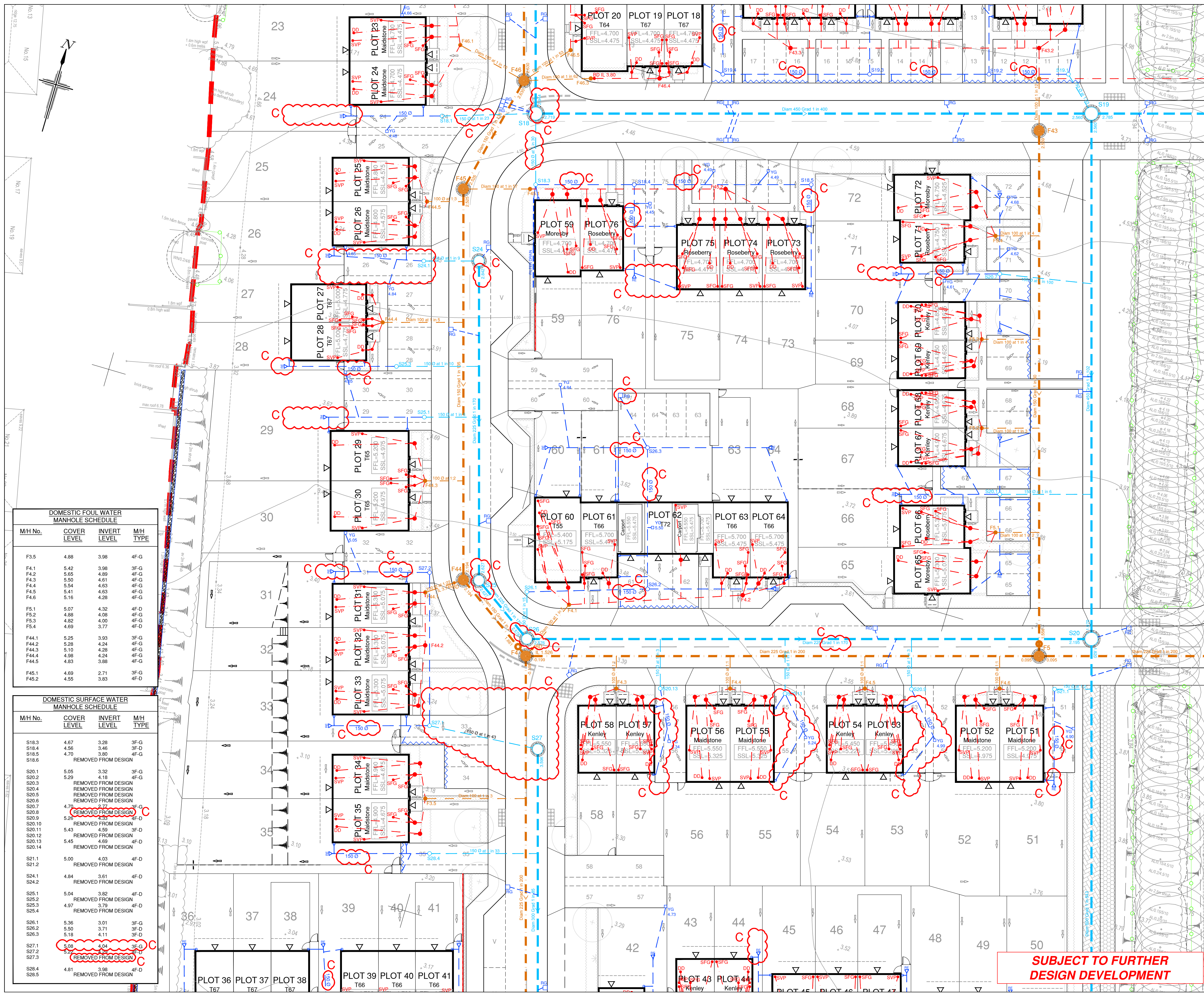




DOMESTIC FOUL WATER MANHOLE SCHEDULE			
M/H No.	COVER LEVEL	INVERT LEVEL	M/H TYPE
F3.5	4.88	3.98	4F-G
F4.1	5.42	3.98	3F-G
F4.2	5.65	4.89	4F-G
F4.3	5.50	4.61	4F-G
F4.4	5.54	4.63	4F-G
F4.5	5.41	4.63	4F-G
F4.6	5.16	4.28	4F-G
F5.1	5.07	4.32	4F-D
F5.2	4.86	4.06	4F-G
F5.3	4.82	4.00	4F-G
F5.4	4.69	3.77	4F-D
F44.1	5.25	3.93	3F-G
F44.2	5.28	4.24	4F-G
F44.3	5.10	4.28	4F-G
F44.4	4.98	4.24	4F-G
F44.5	4.83	3.88	4F-G
F45.1	4.69	2.71	3F-G
F45.2	4.55	3.83	4F-D

DOMESTIC SURFACE WATER MANHOLE SCHEDULE			
M/H No.	COVER LEVEL	INVERT LEVEL	M/H TYPE
S18.3	4.67	3.28	3F-G
S18.4	4.56	3.46	3F-D
S18.5	4.70	3.80	4F-G
S18.6	REMOVED FROM DESIGN		
S20.1	5.05	3.32	3F-G
S20.2	5.29	4.18	4F-G
S20.3	REMOVED FROM DESIGN		
S20.4	REMOVED FROM DESIGN		
S20.5	REMOVED FROM DESIGN		
S20.6	REMOVED FROM DESIGN		
S20.7	REMOVED FROM DESIGN		
S20.8	REMOVED FROM DESIGN		
S20.9	REMOVED FROM DESIGN		
S20.10	REMOVED FROM DESIGN		
S20.11	REMOVED FROM DESIGN		
S20.12	REMOVED FROM DESIGN		
S20.13	REMOVED FROM DESIGN		
S20.14	REMOVED FROM DESIGN		
S21.1	REMOVED FROM DESIGN		
S21.2	REMOVED FROM DESIGN		
S24.1	4.84	3.61	4F-D
S24.2	REMOVED FROM DESIGN		
S25.1	5.04	3.82	4F-D
S25.2	REMOVED FROM DESIGN		
S25.3	4.97	3.79	4F-D
S25.4	REMOVED FROM DESIGN		
S26.1	5.36	3.01	3F-G
S26.2	5.50	3.71	3F-D
S26.3	5.18	4.11	3F-D
S27.1	5.08	4.04	3F-G
S27.2	REMOVED FROM DESIGN		
S27.3	REMOVED FROM DESIGN		
S28.4	4.81	3.98	4F-D
S28.5	REMOVED FROM DESIGN		

- 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 & BS8001 & 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. Hepworth Supersewer or similar) or uPVC drainage pipework to BS4592 & BS3344, 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 authority.
 - Backfilling of drain trenches adjacent to dwelling or other structure to be in accordance with BS8001, Fig. 9.
 - Cover levels indicated on the Drainage Schedules are normal & 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 coating access.
 - The positions of SVPs, sub-stations, WC outlets, Back inlet gutters 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.
 - 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 10 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 Layout, drawing number 4519/AFFOUND/01 to 31 dated December 2018. Substation based on RCP Standard Substation Enclosures, drawing number MP/SS1644 revision A, as provided by Client on 10/01/2019.
 - Topographical Survey as per Shetline Site Survey, drawing number 36/A1, dated August 2016.
 - Background landscaping proposals based on Barratt drawing number D04/4, issued to RCP in .dwg format on 08/01/2019.
 - This drawing should be read in conjunction with Adoptable 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 1.3m	min. 450mm (non) Standard Flexible (uPVC) access chamber (Non Entry)	4F	0.6m to 2.0m	min. 450mm (non) Standard Flexible (uPVC) access chamber (Non Entry)
3R	0.6m to 1.3m	min. 450mm (non) Standard Flexible (uPVC) access chamber (Non Entry)	4R	0.6m to 2.0m	min. 450mm (non) Standard Flexible (uPVC) access chamber (Non Entry)
Type 3 manholes to be used where 3 or more properties are connected.					
Type 4 manholes to be used where less than 3 properties are connected.					
LOCATION	CODE	COVER GRADE	RE		
Drainway	D	D400	RE		
Driveway	D	B125	RE		
Garden	G	A15	RE		

KEY

Site Boundary

Section S276 Works by Others (Refer to Paul Basham Associates Design Drawings for Details)

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

Existing Southern Water Foul & Surface Water Sewers

Adoptable Surface Water Sewers

Adoptable Foul Water Sewers

Adoptable 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 Beam & Block Floor).

In the event that conditions on-site result in maximum depth of 600mm being exceeded, then Type 4-F chambers to be used.

Internal Foul Connections

Soil Vent Pipe

Direct Drain (WMB, WC, W/M)

Sealed Floor Gully

Gully

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

'Aco' Channel or similar

Yard Gully and Connection

Roof Protection Areas (Based on Barratt Tree Consultancy Tree Protection Plan, drawing number 1672/872, issued to RCP in .dwg format on 17/12/2018)

Tree Protection Fencing (Based on Barratt Tree Consultancy Tree Protection Plan, drawing number 1672/872, issued to RCP in .dwg format on 17/12/2018)

Flow Control Device

Backstop

SVP

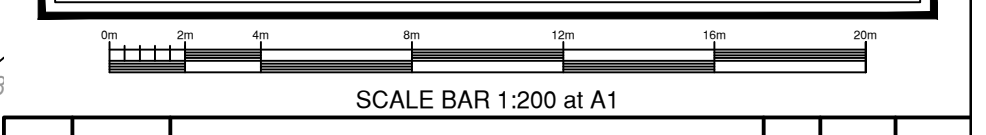
DD

G

20.00

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

CDM NOTES			
1.	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.		



C	06.12.19	Manhole S27 location adjusted, S27.1 amended, Manhole S20.8 and S26.3 Removed from design, 1500 pipes indicated	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
Rev.	Date	Details	By	Chkd	Appd

Client:

BARRATT HOMES

DAVID WILSON HOMES
WHERE QUALITY LIVES

Site: Harbour Place, Forty Acre Farm, Bedhampton

Drawing Title: DRAINAGE GENERAL ARRANGEMENT

SHEET 2 of 14

Date: February 2019 Scales: 1:200 at A1

Drawn: AC Checked: NW Approved: TRS

Drawing No. BSO/E4519/452 C

TENDER ISSUE

SUBJECT TO ADOPTING AUTHORITY APPROVAL

RCP Rogers Cory Partnership
Architectural and Civil Consultants
The Old School Old School Road
Hook Hampshire RG27 9N

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SUBJECT TO FURTHER DESIGN DEVELOPMENT