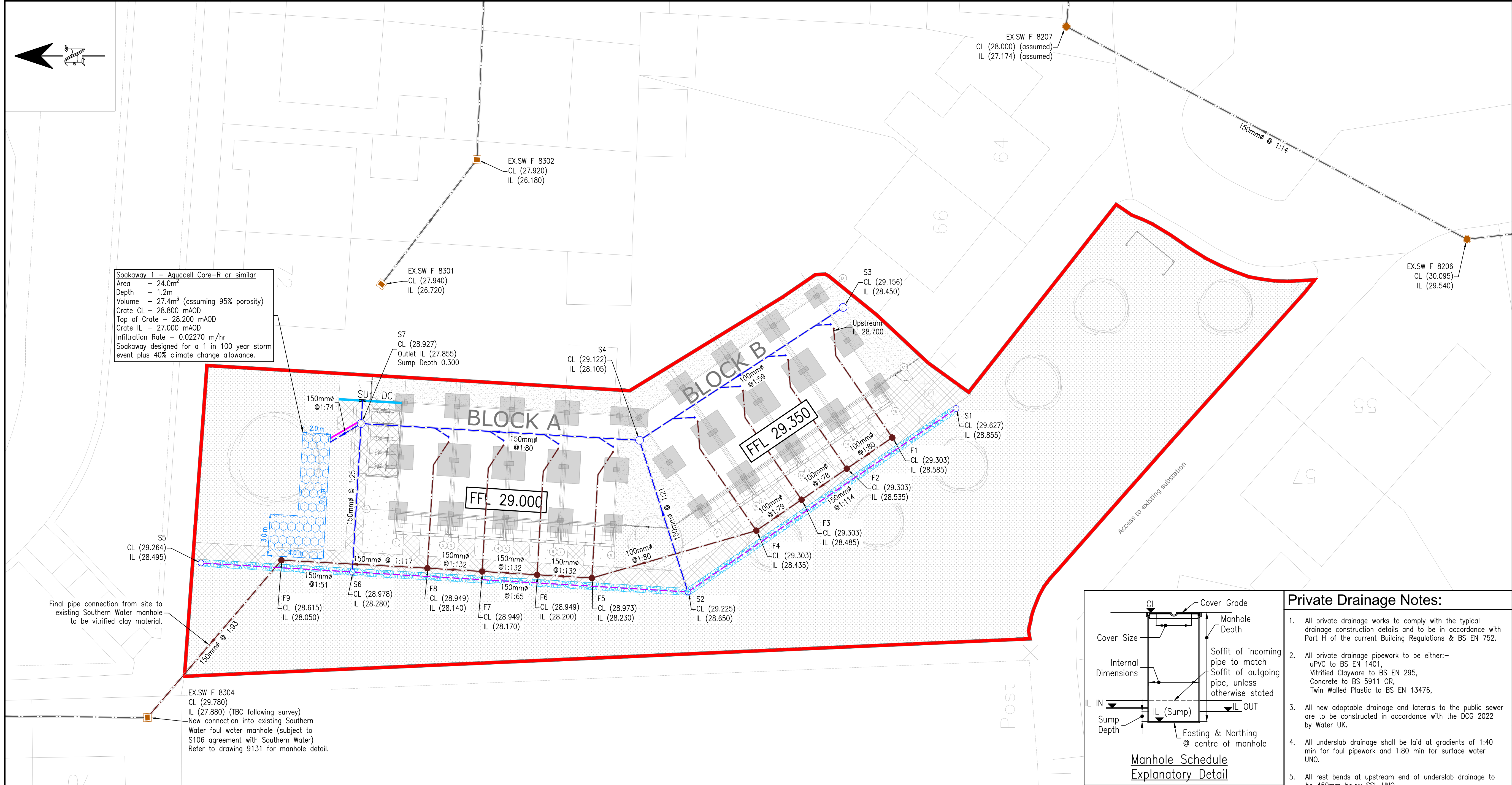
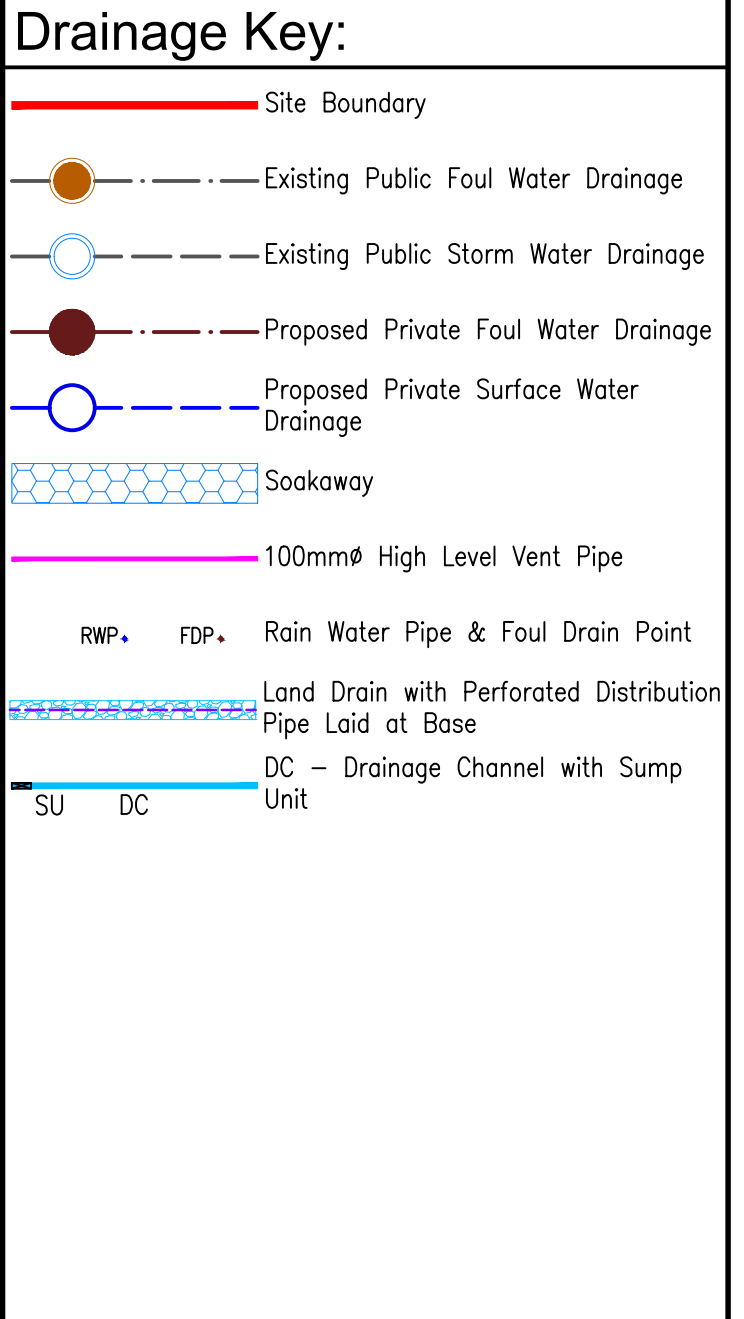




- Notes:**
- Do not scale from this drawing.
 - In case of any discrepancies in drawings, details or bills, refer to engineers for clarification: unilateral decisions by the Contractor will not be accepted.
 - This drawing is to be read in conjunction with all related Architects, Consultants & Sub-Contractors drawings and specifications.
 - The Contractor is advised that all design drawings and information are to be read concurrently and any discrepancies or omissions reported directly to PTA's Civil Engineering Department.
 - Refer to PTA drawing (ref. 10164-PTA-XX-XX-DR-S-0031) for Foundation GA Layout.



Drainage Abbreviations:

F = Foul Water
S = Surface Water
EX. = Existing
SW = Southern Water
CL = Cover Level in mAOD
IL = Invert Level in mAOD
USIL = Upstream Invert level for lateral pipe in mAOD

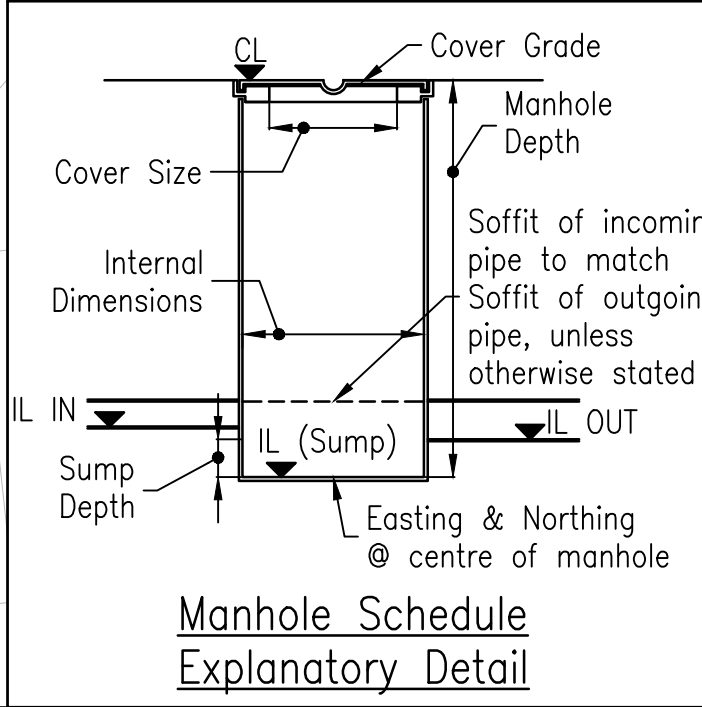
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DRAWING STATUS / PURPOSE OF ISSUE: PRELIMINARY COMMENT/COSTING/APPROVAL NOT FOR CONSTRUCTION

ISO 19650 STATUS CODE: S3

Private Drainage Notes:

- All private drainage works to comply with the typical drainage construction details and to be in accordance with Part H of the current Building Regulations & BS EN 752.
- All private drainage pipework to be either:- uPVC to BS EN 1401, Vitrified Clayware to BS EN 295, Concrete to BS 5911 OR, Twin Walled Plastic to BS EN 13476,
- All new adoptable drainage and laterals to the public sewer are to be constructed in accordance with the DCG 2022 by Water UK.
- All underslab drainage shall be laid at gradients of 1:40 min for foul pipework and 1:80 min for surface water UNO.
- All rest bends at upstream end of underslab drainage to be 450mm below SSL UNO.
- RWP lateral connections are to be sized to suit RWP size as designed by specialist. Gully laterals to be sized to suit gully outlets. All other pipes 100mm diameter UNO.
- All underslab drainage shall be installed in straight runs and be clear of foundations UNO, with long radius bends kept to a minimum and used where unavoidable. Long radius bends along length of runs shall be a maximum of 30 degrees.
- Where sewers cross and there is less than 200mm clearance, both runs are to be encased in concrete for a minimum of 1m in all directions.
- All RWP, SVP, plant gully and all other foul drainage positions are to be set out by the Architect.
- Where RWPs and foul pipes are connected direct to drain, rodding access plates are to be provided above ground (by others).
- At least one soil pipe at the head of each foul run shall be vented to the atmosphere.
- Contractor to ensure that manhole covers are orientated to suit pavement finishes and set flush with surrounding levels.
- Contractor to ensure that any part of the existing drainage system to be retained as part of the new scheme shall be cleaned and inspected by CCTV survey. Any structural defects shall be repaired or replaced as may be required using appropriate and approved methods. Where existing manholes are to be retained the cover and frames shall be checked to ensure they are in suitable condition for re-use and if required cover levels adjusted to suit proposed finished ground levels.
- No allowance has been made for grease traps below ground. Management of grease and fats from kitchens to be provided above ground by others.
- Refer to PTA Drainage Maintenance Schedule for maintenance of the drainage system during and for the end user post construction.



FOUL WATER MANHOLE SCHEDULE								
MANHOLE NAME	COVER LEVEL [m AOD]	CHAMBER INVERT LEVEL [m AOD]	SUMP DEPTH [m]	INVERT LEVELS [m AOD]	COORDINATES [m]	CLEAR OPENING & COVER TYPE [mm]	COVER GRADE	INTERNAL DIMENSIONS [mm] & MANHOLE TYPE
F1	29.303	28.585 (0.718 DEPTH)	0.000	28.585 (100ø IN) 28.585 (100ø OUT)	E: 565830.964 N: 172290.567	450x450	C250	300ø PIC
F2	29.303	28.535 (0.768 DEPTH)	0.000	28.535 (100ø IN) 28.535 (100ø IN) 28.535 (100ø OUT)	E: 565828.721 N: 172293.845	450x450	C250	300ø PIC
F3	29.303	28.485 (0.818 DEPTH)	0.000	28.485 (100ø IN) 28.485 (100ø IN) 28.485 (100ø OUT)	E: 565826.491 N: 172297.102	450x450	C250	300ø PIC
F4	29.303	28.435 (0.868 DEPTH)	0.000	28.435 (100ø IN) 28.435 (100ø IN) 28.435 (100ø OUT)	E: 565824.259 N: 172300.360	450x450	C250	300ø PIC
F5	28.973	28.230 (0.743 DEPTH)	0.000	28.280 (100ø IN) 28.280 (100ø IN) 28.230 (150ø OUT)	E: 565820.845 N: 172312.205	450x450	C250	300ø PIC
F6	28.949	28.200 (0.749 DEPTH)	0.000	28.200 (150ø IN) 28.250 (100ø IN) 28.200 (150ø OUT)	E: 565821.083 N: 172316.151	450x450	C250	300ø PIC
F7	28.949	28.170 (0.779 DEPTH)	0.000	28.170 (150ø IN) 28.220 (100ø IN) 28.170 (150ø OUT)	E: 565821.320 N: 172320.105	450x450	C250	300ø PIC
F8	28.949	28.140 (0.809 DEPTH)	0.000	28.140 (150ø IN) 28.190 (100ø IN) 28.140 (150ø OUT)	E: 565821.557 N: 172324.051	450x450	C250	300ø PIC
F9	28.615	28.050 (0.565 DEPTH)	0.000	28.050 (150ø IN) 28.050 (150ø OUT)	E: 565822.125 N: 172334.564	450x450	C250	300ø PIC

SURFACE WATER MANHOLE SCHEDULE								
MANHOLE NAME	COVER LEVEL [m AOD]	CHAMBER INVERT LEVEL [m AOD]	SUMP DEPTH [m]	INVERT LEVELS [m AOD]	COORDINATES [m]	CLEAR OPENING & COVER TYPE [mm]	COVER GRADE	INTERNAL DIMENSIONS [mm] & MANHOLE TYPE
S1	29.627	28.855 (0.772 DEPTH)	0.000	28.855 (150ø OUT)	E: 565833.051 N: 172285.974	300x300	C250	300ø PIC
S2	29.225	28.650 (0.575 DEPTH)	0.000	28.650 (150ø IN) 28.650 (150ø OUT) 28.650 (150ø OUT)	E: 565819.847 N: 172305.291	300x300	C250	300ø PIC
S3	29.156	28.450 (0.705 DEPTH)	0.000	28.450 (100ø OUT)	E: 565840.335 N: 172294.110	450x450	C250	450ø PIC
S4	29.122	28.105 (1.017 DEPTH)	0.000	28.155 (100ø IN) 28.105 (150ø IN) 28.105 (150ø OUT)	E: 565830.767 N: 172308.771	450x450	C250	450ø PIC
S5	29.264	28.495 (0.769 DEPTH)	0.000	28.495 (150ø OUT)	E: 565821.932 N: 172340.365	300x300	C250	300ø PIC
S6	28.978	28.280 (0.698 DEPTH)	0.000	28.280 (150ø IN) 28.280 (150ø IN) 28.280 (150ø OUT)	E: 565821.283 N: 172329.459	300x300	C250	300ø PIC
S7	28.927	27.555 (1.372 DEPTH)	0.300	27.855 (150ø IN) 27.855 (150ø IN) 27.905 (100ø IN) 27.855 (150ø OUT)	E: 565831.972 N: 172328.820	450x450	C250	450ø PIC Catchpit

St Albans Close, Gravesend

DRAWING TITLE: Proposed Drainage Layout

DATE: April 2025	This drawing is issued only for the purposes described in the drawing status box.	PTA PROJ No: 10164
DRAWN: DH		REVISION: P02
SCALE: 1:150		

DRG SIZE: A1

DRAWING No: 10164-PTA-XX-XX-DR-C-9100

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