

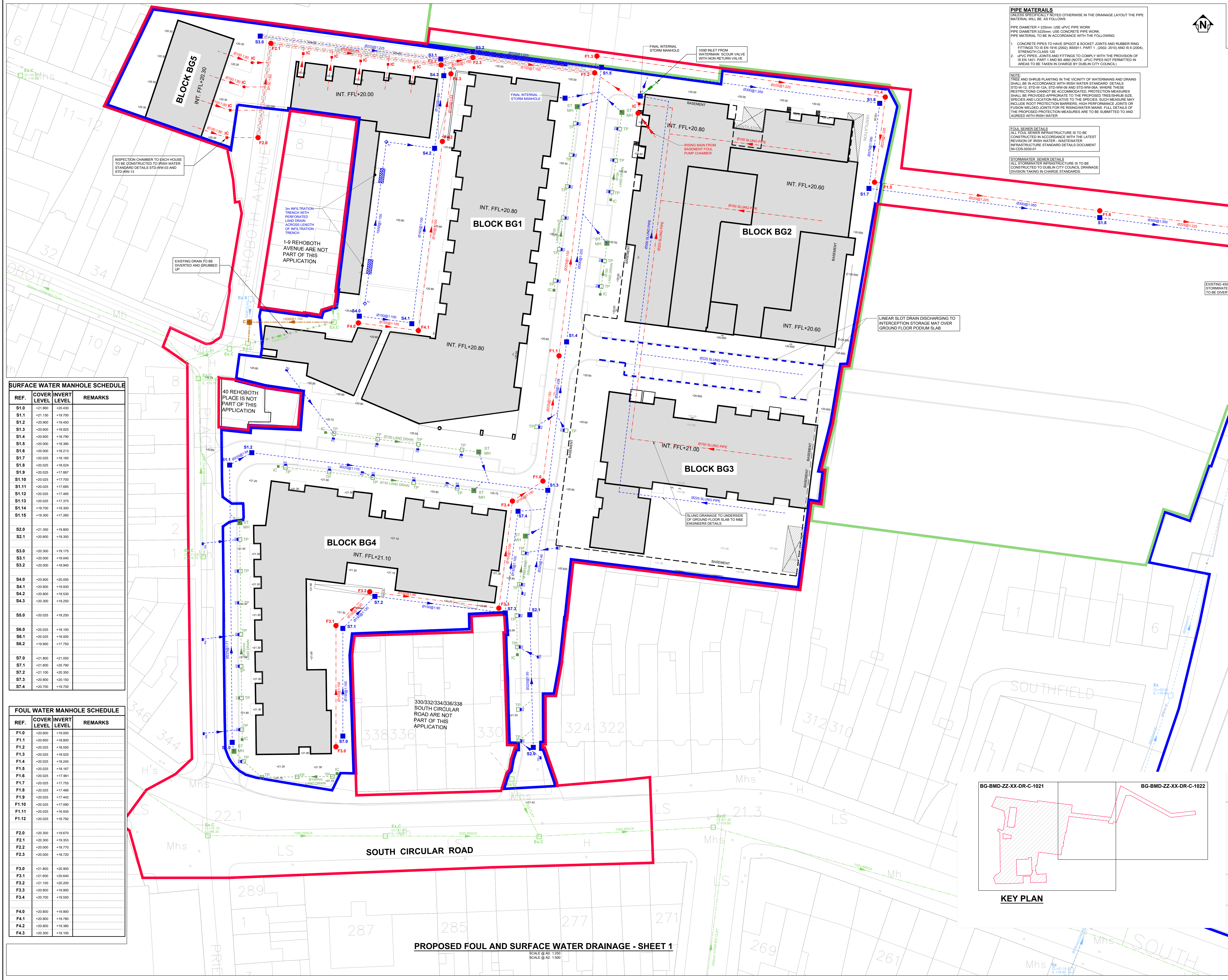
- NOTES**
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL ENGINEERS & ARCHITECTS DRAWINGS FOUR DIMENSIONS ONLY (NOT SCALING) TO BE USED. WHERE A CONFLICT OF INFORMATION EXISTS OR IF IN ANY DOUBT - ASK.
  - CONSULTANTS TO BE INFORMED IMMEDIATELY OF ANY DISCREPANCIES BEFORE WORK PROCEEDS.

**PIPE MATERIALS**  
UNLESS SPECIFICALLY NOTED OTHERWISE IN THE DRAINAGE LAYOUT THE PIPE MATERIAL WILL BE AS FOLLOWS:  
PIPE DIAMETER < 225mm USE UPVC PIPE WORK  
PIPE DIAMETER ≥ 225mm USE CONCRETE PIPE WORK  
PIPE MATERIAL TO BE IN ACCORDANCE WITH THE FOLLOWING:  
1. CONCRETE PIPES TO HAVE SPIGOT & SOCKET JOINTS AND RUBBER RING FITTINGS TO IS EN 1916 (2002), BS5911, PART 1, (2009-2016) AND IS (2004), STRENGTH CLASS 150  
2. UPVC PIPES, JOINTS AND FITTINGS TO COMPLY WITH THE PROVISIONS OF IS EN 1401, PART 1 AND BS 4566 (NOTE: UPVC PIPES NOT PERMITTED IN AREAS TO BE TAKEN IN CHARGE BY DUBLIN CITY COUNCIL.)

**NOTE**  
TREE AND SHRUB PLANTING IN THE VICINITY OF WATERMAINS AND DRAINS SHALL BE IN ACCORDANCE WITH IRISH WATER STANDARDS DETAILS STD-W-12, STD-W-12A, STD-W-12B AND STD-W-12C. WHERE THESE RESTRICTIONS CANNOT BE ACCOMMODATED PROTECTION MEASURES SHALL BE PROVIDED APPROPRIATE TO THE PROPOSED TREE/SHRUB SIZE, SPECIES AND LOCATION RELATIVE TO THE SPIGOTS. SUCH MEASURES MAY INCLUDE ROOT PROTECTION BARRIERS, HIGH PERFORMANCE JOINTS OR FUSION WELDED JOINTS FOR FIRE RESISTANT WATER MAINS. FULL DETAILS OF THE PROPOSED PROTECTION MEASURES ARE TO BE SUBMITTED TO AND AGREED WITH IRISH WATER.

**FOUL SEWER DETAILS**  
ALL FOUL SEWER INFRASTRUCTURE IS TO BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST REVISION OF IRISH WATER - WASTEWATER INFRASTRUCTURE STANDARD DETAILS DOCUMENT (W-CDS-5030-01)

**STORMWATER SEWER DETAILS**  
ALL STORMWATER INFRASTRUCTURE IS TO BE CONSTRUCTED TO DUBLIN CITY COUNCIL DRAINAGE DIVISION TAKING IN CHARGE STANDARDS.



**SURFACE WATER MANHOLE SCHEDULE**

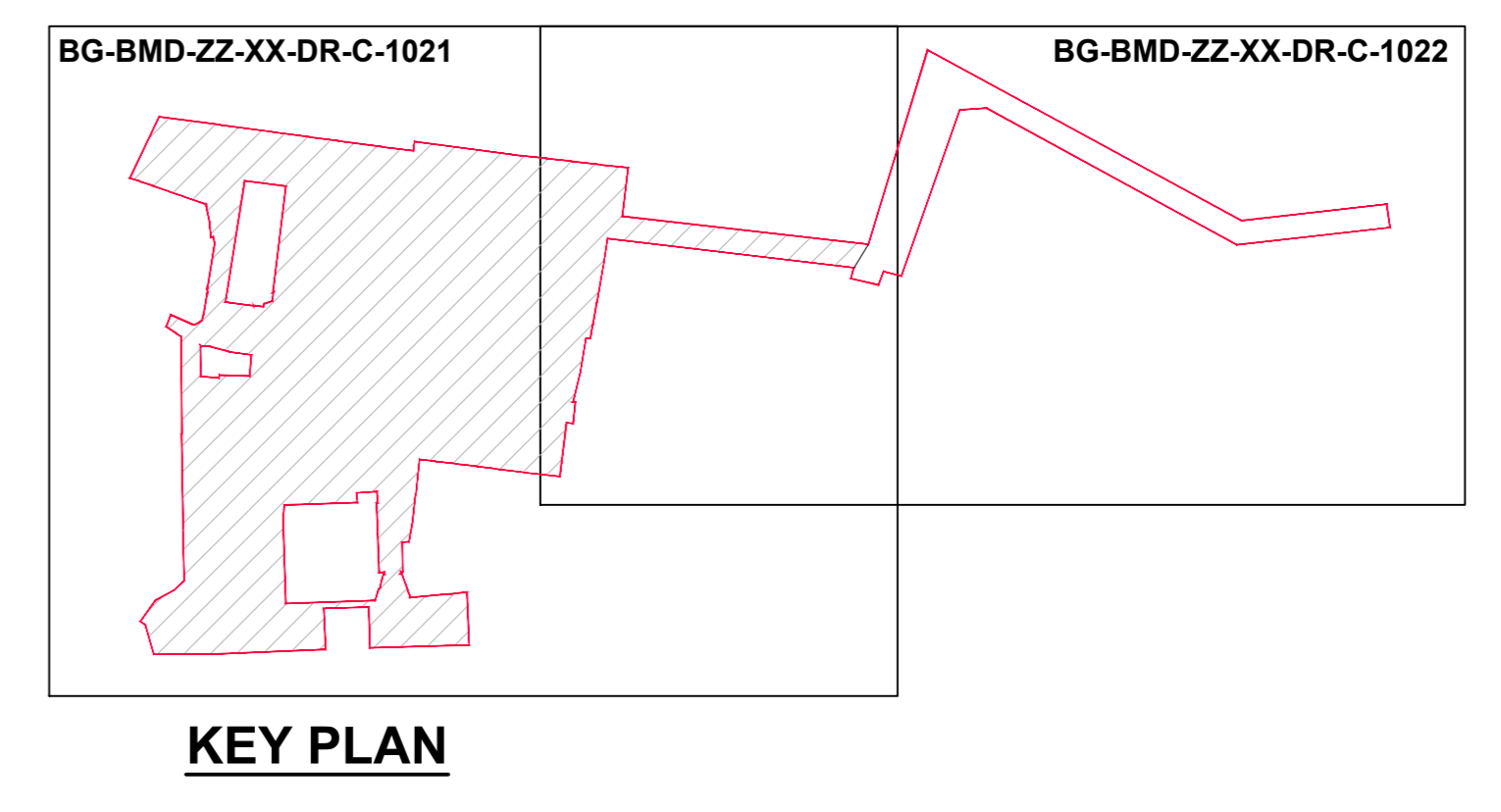
REF.	COVER LEVEL	INVERT LEVEL	REMARKS
S1.0	+21.800	+20.430	
S1.1	+21.100	+19.700	
S1.2	+20.300	+19.400	
S1.3	+20.800	+18.900	
S1.4	+20.800	+18.700	
S1.5	+20.200	+18.300	
S1.6	+20.200	+18.213	
S1.7	+20.025	+18.160	
S1.8	+20.025	+18.024	
S1.9	+20.025	+17.887	
S1.10	+20.025	+17.700	
S1.11	+20.025	+17.685	
S1.12	+20.025	+17.485	
S1.13	+20.025	+17.375	
S1.14	+19.700	+19.300	
S1.15	+19.300	+17.260	
S2.0	+21.300	+19.800	
S2.1	+20.800	+19.300	
S3.0	+20.300	+19.175	
S3.1	+20.200	+19.040	
S3.2	+20.200	+18.940	
S4.0	+20.800	+20.050	
S4.1	+20.800	+19.930	
S4.2	+20.800	+19.630	
S4.3	+20.300	+19.250	
S6.0	+20.025	+18.250	
S6.1	+20.025	+18.100	
S6.2	+19.800	+17.750	
S7.0	+21.800	+21.050	
S7.1	+21.800	+20.750	
S7.2	+21.100	+20.350	
S7.3	+20.800	+20.150	
S7.4	+20.700	+19.700	

**FOUL WATER MANHOLE SCHEDULE**

REF.	COVER LEVEL	INVERT LEVEL	REMARKS
F1.0	+20.600	+19.000	
F1.1	+20.600	+18.800	
F1.2	+20.025	+18.550	
F1.3	+20.025	+18.525	
F1.4	+20.025	+18.245	
F1.5	+20.025	+18.167	
F1.6	+20.025	+17.961	
F1.7	+20.025	+17.735	
F1.8	+20.025	+17.466	
F1.9	+20.025	+17.442	
F1.10	+20.025	+17.100	
F1.11	+20.025	+16.850	
F1.12	+20.025	+16.792	
F2.0	+20.300	+19.670	
F2.1	+20.300	+19.353	
F2.2	+20.000	+18.770	
F2.3	+20.000	+18.729	
F3.0	+21.800	+20.900	
F3.1	+21.800	+20.640	
F3.2	+21.100	+20.200	
F3.3	+20.800	+19.900	
F3.4	+20.700	+19.550	
F4.0	+20.800	+19.800	
F4.1	+20.800	+19.780	
F4.2	+20.800	+19.380	
F4.3	+20.300	+19.100	

**CIVIL LEGEND**

EX. FOUL MANHOLE	EX. FOUL PIPE	NEW FOUL PIPE	NEW FOUL INSPECTION CHAMBER	EX. SURFACE WATER PIPE	NEW SURFACE WATER PIPE	NEW SURFACE WATER MANHOLE OR DIVERTED STORMWATER PRECEPT	DIVERTED EXISTING SURFACE WATER PIPE/CULVERT	EX. COMBINED MANHOLE	EX. COMBINED PIPE	NEW COMBINED PIPE	DECOMMISSIONED LINE	NEW PERFORATED LAND DRAIN	NEW TREE PIT	NEW INSPECTION CHAMBER	NEW SILT TRAP MANHOLE	NEW FILTER STRIP	DENOTES SHALLOW SEWER TO BE CAST IN 150mm CONCRETE SURROUND	NEW SIDE INLET KERB GULLY	NEW ROAD GULLY	SITE BOUNDARY	SITE OWNERSHIP BOUNDARY	DCC LANDS BOUNDARY
EX. F.O.M.	EX. F.O.P.	NEW F.O.P.	NEW F.O.I.C.	EX. S.W.P.	NEW S.W.P.	NEW S.W.M.	DIV. EX. S.W.P.	EX. C.M.	EX. C.P.	NEW C.P.	DECOM. L.	NEW P.L.D.	NEW T.P.	NEW I.C.	NEW S.T.M.	NEW F.S.	SHALLOW S.W.	NEW S.I.G.	NEW R.G.	S.B.	S.O.B.	D.C.C. L.B.



PLG.	DATE	DESCRIPTION	BY	CHKD.
PL5	15.05.20	PLANNING ISSUE		
PL5	26.03.20	DRAFT PLANNING ISSUE		
PL4	16.01.20	ISSUED FOR I.W. REVIEW		
PL3	13.01.20	ISSUED FOR PLANNING		
PL2	20.12.19	ISSUED I.W. REVIEW		
PL1	05.11.19	ISSUED FOR PLANNING		
P1	20.09.19	ISSUED FOR COMMENT		

**PLANNING**

**BM**  
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**ACEI**  
The Institution of Structural Engineers

Client: DBTR-SCR1 Fund, a Sub-Fund of the CWTC Multi Family ICAV

Project Title: BAILEY GIBSON SOUTH CIRCULAR ROAD

Project No: 19117

Drawing Title: PROPOSED FOUL AND SURFACE WATER DRAINAGE - SHEET 1

Drawing No: BG-BMD-00-XX-DR-C-1021

Sheet: PL6

PROPOSED FOUL AND SURFACE WATER DRAINAGE - SHEET 1  
SCALE @ A0: 1:250  
SCALE @ A2: 1:500