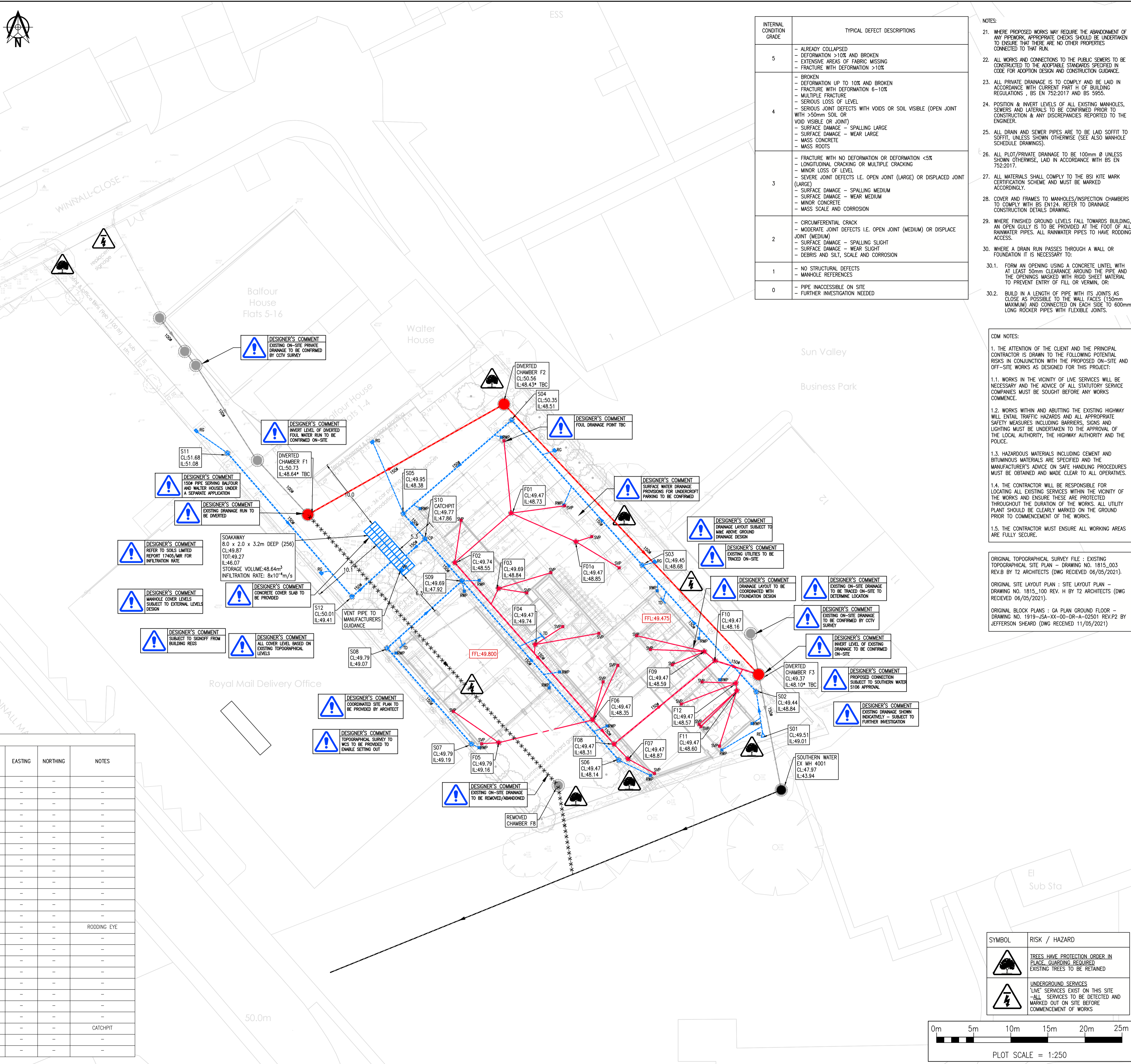


**KEY**

- EXISTING SOUTHERN WATER FOUL WATER SEWER & MANHOLE (WITH MANHOLE REFERENCE)
- EXISTING ON-SITE PRIVATE DRAINAGE
- PRIVATE DRAINAGE SERVING BALFOUR AND WALTER HOUSES TO BE DIVERTED UNDER SEPARATE APPLICATION
- PLOT FW DRAIN (100mmØ UNLESS NOTED OTHERWISE)
- PROPOSED FOUL WATER INSPECTION CHAMBER 450Ø (TYPE 5) NON-ENTRY ACCESS CHAMBER MAX DEPTH TO INVERT 3m
- PROPOSED FOUL WATER TRAPPED FLOOR GULLY
- DOMESTIC FOUL WATER WASTE OUTLET POSITION (SOIL VENT PIPE/STUB STACK)
- PLOT SURFACE DRAIN (100mmØ UNLESS NOTED OTHERWISE)
- PROPOSED SURFACE WATER INSPECTION CHAMBER 450Ø (TYPE 5) NON-ENTRY ACCESS CHAMBER MAX DEPTH TO INVERT 3m
- GEOCELLULAR 'SOAKAWAY TANK' WRAPPED WITH GEOTEXTILE (1m x 0.5m)
- VENT PIPE
- CHANNEL DRAIN (CD) / THRESHOLD DRAIN (TD) / BRICKSLOT DRAIN (BS)
- EXISTING DRAINAGE TO BE REMOVED
- ROAD GULLY (150m³ CAPACITY)
- RAINWATER PIPE
- RODDING EYE TYPICAL DEPTH TO INVERT 0.5-0.6m
- SURFACE WATER DRAINAGE INSPECTION CHAMBER COVER LEVEL INVERT LEVEL (OF LOWEST OUTGOING PIPE) BD (WHERE SHOWN) INDICATES BACK DROP
- REF NO ATTENUATION/SOAKAWAY TANK AREA x DEEP (NO OF CRATES) INVERT LEVEL, TOP OF TANK LEVEL
- CELLULAR STORAGE 100m² x 1.2m (150) IL:XX.XXX, TOT:XX.XXX
- COVER LEVEL INVERT LEVEL SUMP LEVEL

**TANK 1**  
CELLULAR STORAGE  
100m² x 1.2m (150)  
IL:XX.XXX, TOT:XX.XXX

**IMPORTANT**  
WHERE MORE THAN 1 PROPERTY IS CONNECTED TO A SW DRAIN, THE PIPE DIAMETER SHALL BE INCREASED TO 150mm.



INTERNAL CONDITION GRADE	TYPICAL DEFECT DESCRIPTIONS
5	- ALREADY COLLAPSED - DEFORMATION >10% AND BROKEN - EXTENSIVE AREAS OF FABRIC MISSING - FRACTURE WITH DEFORMATION >10%
4	- BROKEN - DEFORMATION UP TO 10% AND BROKEN - FRACTURE WITH DEFORMATION 6-10% - MULTIPLE FRACTURE - SERIOUS LOSS OF LEVEL - SERIOUS JOINT DEFECTS WITH VOIDS OR SOIL VISIBLE (OPEN JOINT WITH >50mm SOIL OR VOID VISIBLE OR JOINT) - SURFACE DAMAGE - SPALLING LARGE - SURFACE DAMAGE - WEAR LARGE - MASS CONCRETE - MASS ROOTS
3	- FRACTURE WITH NO DEFORMATION OR DEFORMATION <5% - LONGITUDINAL CRACKING OR MULTIPLE CRACKING - MINOR LOSS OF LEVEL - SEVERE JOINT DEFECTS I.E. OPEN JOINT (LARGE) OR DISPLACED JOINT (LARGE) - SURFACE DAMAGE - SPALLING MEDIUM - SURFACE DAMAGE - WEAR MEDIUM - MINOR CONCRETE - MASS SCALE AND CORROSION
2	- CIRCUMFERENTIAL CRACK - MODERATE JOINT DEFECTS I.E. OPEN JOINT (MEDIUM) OR DISPLACED JOINT (MEDIUM) - SURFACE DAMAGE - SPALLING SLIGHT - SURFACE DAMAGE - WEAR SLIGHT - DEBRIS AND SILT, SCALE AND CORROSION
1	- NO STRUCTURAL DEFECTS - MANHOLE REFERENCES
0	- PIPE INACCESSIBLE ON SITE - FURTHER INVESTIGATION NEEDED

- NOTES:**
- WHERE PROPOSED WORKS MAY REQUIRE THE ABANDONMENT OF ANY PIPEWORK, APPROPRIATE CHECKS SHOULD BE UNDERTAKEN TO ENSURE THAT THERE ARE NO OTHER PROPERTIES CONNECTED TO THAT RUN.
  - ALL WORKS AND CONNECTIONS TO THE PUBLIC SEWERS TO BE CONSTRUCTED TO THE APPLICABLE STANDARDS SPECIFIED IN CODE FOR ADOPTION DESIGN AND CONSTRUCTION GUIDANCE.
  - ALL PRIVATE DRAINAGE IS TO COMPLY AND BE LAID IN ACCORDANCE WITH CURRENT PART H OF BUILDING REGULATIONS, BS EN 752:2017 AND BS 5955.
  - POSITION & INVERT LEVELS OF ALL EXISTING MANHOLES, SEWERS AND LATERALS TO BE CONFIRMED PRIOR TO CONSTRUCTION & ANY DISCREPANCIES REPORTED TO THE ENGINEER.
  - ALL DRAIN AND SEWER PIPES ARE TO BE LAID SOFFIT TO SOFFIT, UNLESS SHOWN OTHERWISE (SEE ALSO MANHOLE SCHEDULE DRAWINGS).
  - ALL PLOT/PRIVATE DRAINAGE TO BE 100mm Ø UNLESS SHOWN OTHERWISE, LAID IN ACCORDANCE WITH BS EN 752:2017.
  - ALL MATERIALS SHALL COMPLY TO THE BS KITE MARK ACCORDINGLY.
  - COVER AND FRAMES TO MANHOLES/INSPECTION CHAMBERS TO COMPLY WITH BS EN124. REFER TO DRAINAGE CONSTRUCTION DETAILS DRAWING.
  - WHERE FINISHED GROUND LEVELS FALL TOWARDS BUILDING, AN OPEN GULLY IS TO BE PROVIDED AT THE FOOT OF ALL RAINWATER PIPES. ALL RAINWATER PIPES TO HAVE ROODING ACCESS.
  - WHERE A DRAIN RUN PASSES THROUGH A WALL OR FOUNDATION IT IS NECESSARY TO:
    - FORM AN OPENING USING A CONCRETE LINTEL WITH AT LEAST 50mm CLEARANCE AROUND THE PIPE AND THE OPENING MASKED WITH RIGID SHEET MATERIAL TO PREVENT ENTRY OF FILL OR VERMIN, OR:
    - BUILD IN A LENGTH OF PIPE WITH ITS JOINTS AS CLOSE AS POSSIBLE TO THE WALL FACES (150mm MAXIMUM) AND CONNECTED ON EACH SIDE TO 600mm LONG LOCKER PIPES WITH FLEXIBLE JOINTS.
- CDM NOTES:**
- THE ATTENTION OF THE CLIENT AND THE PRINCIPAL CONTRACTOR IS DRAWN TO THE FOLLOWING POTENTIAL RISKS IN CONJUNCTION WITH THE PROPOSED ON-SITE AND OFF-SITE WORKS AS DESIGNED FOR THIS PROJECT.
    - WORKS IN THE VICINITY OF LIVE SERVICES WILL BE NECESSARY AND THE ADVICE OF ALL STATUTORY SERVICE COMPANIES MUST BE SOUGHT BEFORE ANY WORKS COMMENCE.
    - WORKS WITHIN AND ADJUTING THE EXISTING HIGHWAY WILL ENTAIL TRAFFIC HAZARDS AND ALL APPROPRIATE SAFETY MEASURES INCLUDING BARRIERS, SIGNS AND LIGHTING MUST BE UNDERTAKEN TO THE APPROVAL OF THE LOCAL AUTHORITY, THE HIGHWAY AUTHORITY AND THE POLICE.
    - HAZARDOUS MATERIALS INCLUDING CEMENT AND BITUMINOUS MATERIALS ARE SPECIFIED AND THE MANUFACTURER'S ADVICE ON SAFE HANDLING PROCEDURES MUST BE OBTAINED AND MADE CLEAR TO ALL OPERATES.
    - THE CONTRACTOR WILL BE RESPONSIBLE FOR LOCATING ALL EXISTING SERVICES WITHIN THE VICINITY OF THE WORKS AND ENSURE THESE ARE PROTECTED THROUGHOUT THE DURATION OF THE WORKS. ALL UTILITY PLANT SHOULD BE CLEARLY MARKED ON THE GROUND PRIOR TO COMMENCEMENT OF THE WORKS.
    - THE CONTRACTOR MUST ENSURE ALL WORKING AREAS ARE FULLY SECURE.

- DO NOT SCALE FROM THIS DRAWING**
- NOTES:**
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE RELEVANT SPECIFICATION, INC. RISK ASSESSMENTS (SEE CDM NOTES) AND ALL OTHER RELATED DRAWINGS ISSUED BY THE ENGINEER.
  - ALL DIMENSIONS SHOWN ON THIS DRAWING ARE IN METRES UNLESS OTHERWISE STATED.
  - ALL DIMENSIONS, LEVELS AND SURVEY GRID CO-ORDINATES ARE TO BE CHECKED ON SITE AND THE ENGINEER NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES PRIOR TO THE COMMENCEMENT OF THE WORKS.
  - NO DEVIATION FROM THE DETAILS SHOWN ON THIS DRAWING IS PERMITTED WITHOUT PRIOR PERMISSION FROM THE ENGINEER.
  - ANY WORKS OUTSIDE SITE BOUNDARY ARE FOR INFORMATION PURPOSES ONLY. UNLESS SPECIFICALLY NOTED, ALL WORKS OUTSIDE THE SITE BOUNDARY WILL BE UNDERTAKEN BY OTHERS UNDER A SEPARATE CONTRACT.
  - THE CONTRACTOR SHALL UNDERTAKE SUCH MATERIALS TESTING AS INDICATED IN THE SPECIFICATIONS AND SHALL INCLUDE THE COST OF TESTING IN THE TENDER.
  - ALL EXISTING DRAINAGE TO BE RETAINED SHOULD BE SURVEYED AND REPAIRED IN ACCORDANCE WITH BS EN 1610 CONSTRUCTION AND TESTING OF DRAINS AND SEWERS
  - STATED COVER LEVELS ARE FOR GUIDANCE ONLY AND SHALL BE SET TO THE FINISH LEVELS OF THE CARRIAGEWAY/FOOTWAY/VERGE.
  - ALL PIPE SIZES STATED ARE NOMINAL INTERNAL DIAMETERS IN MILLIMETERS.
  - ALL DRAINAGE IS TO BE CONSTRUCTED IN ACCORDANCE WITH THE BUILDING REGULATIONS, BS EN 752 AND RELEVANT AGREEMENT CERTIFICATES.
  - DRAINS TO BE CONSTRUCTED USING FLEXIBLY JOINTED VITRIFIED CLAY PIPES TO BS EN 25262013 (1-3) OR UPVC BUILDING DRAINAGE SYSTEM PIPEWORK TO BS EN 1401, BEDDED AND BACKFILLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND THE SPECIFICATIONS.
  - BACKFILLING OF DRAIN TRENCHES ADJACENT TO DWELLINGS OF OTHER STRUCTURES TO BE IN ACCORDANCE WITH THE BUILDING REGULATIONS PART H, DIAGRAM B.
  - ALL SOIL VENT PIPE, STUB STACKS, AIR ADMITTANCE VALVES AND RAIN WATER PIPE LOCATIONS ARE INDICATIVE ONLY. FOR ACTUAL LOCATIONS PLEASE REFER TO ARCHITECTS PLANS AND ELEVATIONS.
  - GULLIES SITUATED IN AREAS ACCESSIBLE TO WHEELED VEHICLES WITHIN THE PRIVATE CAR PARKING COURTYARDS TO BE OF SUITABLE CONSTRUCTION WITH IN SITU CONCRETE BED AND SURROUND, FITTED WITH DRAINAGE CASTINGS CODE T0651 GRATING AND FRAME (OR SIMILAR APPROVED).
  - SURFACE WATER FROM PRIVATE AREAS IS NOT TO BE DISCHARGED ONTO THE PROPOSED HIGHWAY.
  - 2A TELESCOPIC (ELBOW) REST BEND IS TO BE PROVIDED AT THE BASE OF EACH FW STACK.
  - DRAINS IN AREAS OF MADE GROUND TO BE CONSTRUCTED BY FIRST MAKING UP THE AREA TO APPROXIMATELY FINISHED LEVEL AND THEN EXCAVATE THROUGH THE FILL MATERIAL INTO UNDISTURBED GROUND. THE DRAIN TRENCH IS THEN TO BE BACKFILLED TO FORMATION LEVEL USING SUITABLE GRANULAR FILL MATERIAL WELL COMPACTED IN LAYERS NOT EXCEEDING 225mm.
  - A SECTION 106/107 APPLICATION WILL BE REQUIRED PRIOR TO CONNECTION TO THE EXISTING SEWER.
  - ALL WORKS TO EXISTING SEWER WILL REQUIRE WRITTEN APPROVAL FROM THE STATUTORY UNDERTAKER PRIOR TO COMMENCEMENT OF WORKS.
  - ALL INTERNAL MANHOLES/CHAMBERS SHOULD BE FITTED WITH DOUBLE SEALED & LOCKABLE COVERS.

DIVERSED CHAMBERS F1, F2, AND F3 COVERED UNDER SEPARATE APPLICATION

MANHOLE SCHEDULE										
MANHOLE No.	PIPE OUTLET DIA. (mm)	IL (m AOD)	COVER LEVEL (m AOD)	DEPTH TO INVERT (m)	SIZE (mm)	MANHOLE TYPE	MANHOLE COVER GRADE	EASTING	NORTHING	NOTES
F01	100	48.73	49.47	0.74	450	PPIC	D400	-	-	-
F01a	100	48.85	49.47	0.62	450	PPIC	D400	-	-	-
F02	150	48.55	49.74	1.19	450	PPIC	B125	-	-	-
F03	100	48.84	49.69	0.85	450	PPIC	B125	-	-	-
F04	100	48.74	49.47	0.73	450	PPIC	B125	-	-	-
F05	100	49.16	49.79	0.63	450	PPIC	B125	-	-	-
F06	150	48.35	49.47	1.12	450	PPIC	B125	-	-	-
F07	100	48.87	49.47	0.60	450	PPIC	B125	-	-	-
F08	150	48.31	49.47	1.16	450	PPIC	B125	-	-	-
F09	100	48.59	49.47	0.88	450	PPIC	B125	-	-	-
F10	150	48.16	49.47	1.31	450	PPIC	B125	-	-	-
F11	100	48.60	49.47	0.87	450	PPIC	B125	-	-	-
F12	100	48.57	49.47	0.90	450	PPIC	B125	-	-	-
S01	100	49.01	49.51	0.50	N/A	N/A	B125/D400	-	-	RODDING EYE
S02	150	48.84	49.44	0.60	450	PPIC	B125/D400	-	-	-
S03	150	48.68	49.45	0.77	450	PPIC	B125/D400	-	-	-
S04	150	48.51	50.35	1.84	450	PPIC	B125/D400	-	-	-
S05	150	48.38	49.95	1.57	450	PPIC	B125/D400	-	-	-
S06	150	48.14	49.47	1.33	450	PPIC	B125/D400	-	-	-
S07	150	49.19	49.79	0.60	450	PPIC	B125/D400	-	-	-
S08	150	49.07	49.79	0.72	450	PPIC	B125/D400	-	-	-
S09	150	47.92	49.69	1.77	450	PPIC	B125/D400	-	-	-
S10	150	47.86	49.77	1.91	450	PPIC	B125/D400	-	-	CATCHPIIT
S11	150	51.08	51.68	0.60	450	PPIC	B125/D400	-	-	-
S12	150	49.41	50.01	0.60	450	PPIC	B125/D400	-	-	-

FOR INFORMATION

P2	11.05.21	UPDATED FOLLOWING NEW SVPS AT UNDERCROFT PARKING AREA	KFM/GM/AC
P1	07.05.21	PRELIMINARY ISSUE	KFM/GM/AC

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**Pure PROJECTS LTD**

Project Title: **THE CAVENDISH, WINCHESTER**

Drawing Title: **DRAINAGE LAYOUT**

Scale @ A1	FH Project Number	Purpose of Issue	Status
1:250	143260	INFORMATION	P
Drawn KFM	Checked GM	Approved AC	
Drawn Date MAY 21	Checked Date MAY 21	Approved Date MAY 21	
Drawn Number FAH-ZZ-00-DR-D-0500	Rev		P2

