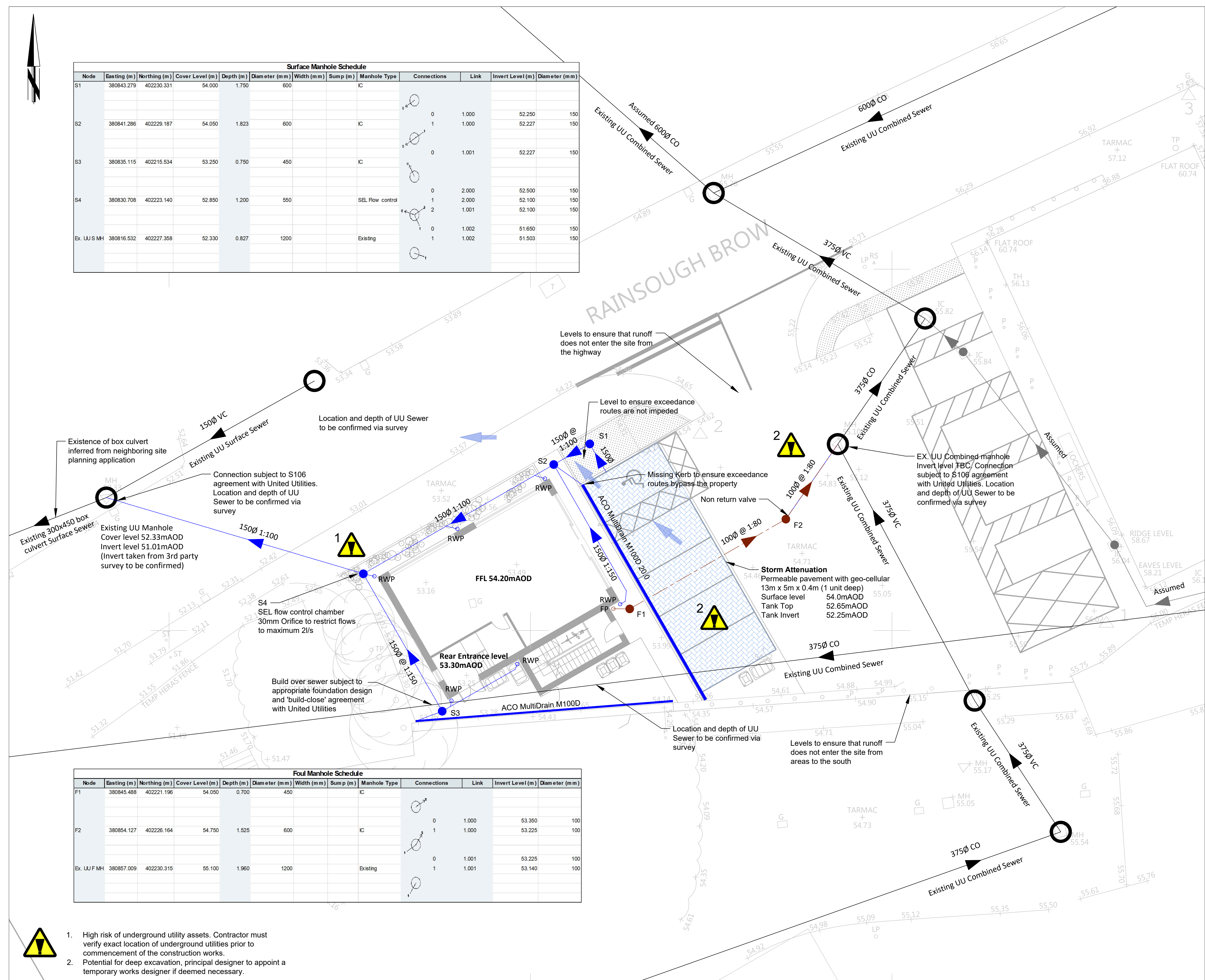


Surface Manhole Schedule													
Node	Easting (m)	Northing (m)	Cover Level (m)	Depth (m)	Diameter (mm)	Width (mm)	Sump (m)	Manhole Type	Connections	Link	Invert Level (m)	Diameter (mm)	
S1	380843.279	402230.331	54.000	1.750	600			IC		0	1.000	52.250	150
S2	380841.286	402229.187	54.050	1.823	600			IC		1	1.000	52.227	150
S3	380835.115	402215.534	53.250	0.750	450			IC		0	1.001	52.227	150
S4	380830.708	402223.140	52.850	1.200	550			SEL Flow control		0	2.000	52.500	150
										1	2.000	52.100	150
										2	1.001	52.100	150
Ex. UU S MH	380816.532	402227.358	52.330	0.827	1200			Existing		0	1.002	51.650	150
										1	1.002	51.503	150



Foul Manhole Schedule													
Node	Easting (m)	Northing (m)	Cover Level (m)	Depth (m)	Diameter (mm)	Width (mm)	Sump (m)	Manhole Type	Connections	Link	Invert Level (m)	Diameter (mm)	
F1	380845.488	402221.196	54.050	0.700	450			IC					
									0	1.000	53.350	100	
F2	380854.127	402226.164	54.750	1.525	600			IC		1	1.000	53.225	100
Ex. UU F MH	380857.009	402230.315	55.100	1.960	1200			Existing		0	1.001	53.225	100
										1	1.001	53.140	100



- High risk of underground utility assets. Contractor must verify exact location of underground utilities prior to commencement of the construction works.
- Potential for deep excavation, principal designer to appoint a temporary works designer if deemed necessary.



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DRAWING TITLE

Land off 49 Rainsough Brow
Proposed Drainage Layout
Series 500

REV.	DESCRIPTION	DRAWN BY	CHECKED	DATE

	INITIALS	DATE	DRAWING No. TSH02-CITY-HGN-ZZ-DR-D-0502
SURVEYED BY			PROJECT TITLE Land off 49 Rainsough Brow Manchester
DESIGNED BY	LS	06/08/25	SCALE 1:100 @ A1
DRAWN BY	LS	06/08/25	FILE No. 251033
CHECKED BY	MB	06/08/25	

- Key**
- Existing UU Sewer
 - Existing Private Drainage
 - Proposed Surface Water Drainage
 - Proposed Foul Drainage
 - Proposed ACO drain
 - Proposed Inspection Chamber
 - Existing Manhole
 - RWP Rainwater Down Pipe
 - RE Rodding Eye
 - FP Foul Drainage Point
 - Pervious surfacing with open graded subbase underlain by geocellular storage
 - Exceedance Routing

General notes:

- This drawing is to be read in conjunction with all Engineer's, Architect's, Street Lighting or other relevant drawings and specifications.
- All dimensions and levels are to be checked on site by the contractor prior to preparing any working drawings or commencing on site. any discrepancies shall be reported to the site supervisor. all dimensions are in meters unless stated otherwise.
- The contractor must ensure and will be held responsible for the overall stability of the building/structure/excavation at all stages of the work.
- The contractor has the responsibility to scan for underground utilities and verify, if necessary, with trial holes the location of underground utilities prior to carrying out excavation works, please refer to GPR survey and utility C2 returns.
- Pavement material suggestions are based on a general design spec, contractor shall amend if deemed necessary to a similar specifications given that it is in line with the MCHW Clause specified.
- Reinstatement of Carriageway surface must be done in accordance with the practices of the specification for reinstatement of opening in highways which is specified on this standard detail.
- Should there be any conflict between the details indicated on this drawing and those indicated on other drawings the Project Engineer shall be informed prior to construction.
- Until technical approval has been obtained from the relevant authority, it should be understood that all drawings issued are preliminary and not for construction. Should the contractor commence site work prior to such approval being given, it is entirely at their own risk.
- All 1000 proposed foul drainage pipes shown are to be laid at a max gradient of 1:80. All 1500 proposed surface drainage pipes shown are to be laid at a max gradient of 1:150.
- All existing land drains encountered on site during construction are to be re-connected.
- Pipes to be structured walled to BS EN 13476, Polypropylene to BE EN 1852 or PVC-U to BS EN 1401.
- Both clay and concrete pipes shall be strength class 120 (100/150mm min crushing strength 28kN/m). Thermoplastic pipes shall have a minimum ring stiffness of SN8.
- Private pipes which run adjacent to buildings shall be installed in strict accordance with Building Regulations Part H, clauses 2.23 to 2.25, and adoptable pipes in accordance with Design and Construction Guidance
- Class Z concrete bed and surround to all foul and surface water pipes with less than 1200mm cover depth. Type S granular bed and surround to all foul and surface water pipes with greater than 1200mm cover depth.
- All manholes and inspection chambers to have D400 load-rated covers and frames to BS EN 124.
- All private foul and surface water pipes to be constructed to Building Regulations Part H, and adoptable foul and surface water pipes to be constructed in accordance with Design and Construction Guidance.
- If soft spots are encountered the whole area is to be excavated until firm ground is encountered and all excavated material disposed. Material excavated from soft spots should not be used for fill on site. The excavation should be reinstated with MOT Type 3 compacted in 100mm-150mm layers.
- All geo-cellular units installed in strict accordance with manufacturer details and loading requirements.