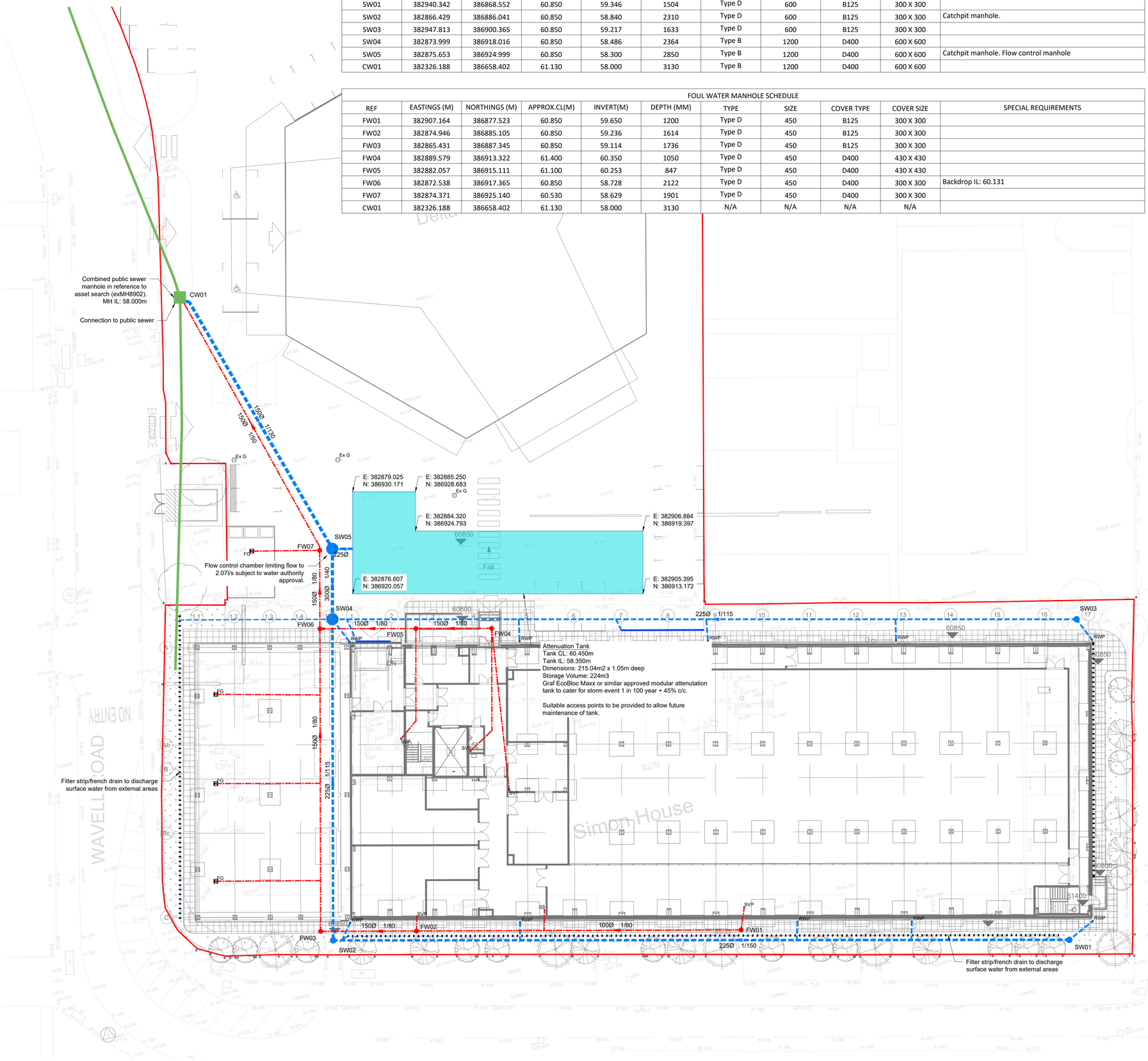
2023 Mason Navarro Pledge

SURFACE WATER MANHOLE SCHEDULE

REF	EASTINGS (M)	NORTHINGS (M)	APPROX.CL(M)	INVERT(M)	DEPTH (MM)	TYPE	SIZE	COVER TYPE	COVER SIZE	SPECIAL REQUIREMENTS
SW01	382940.342	386868.552	60.850	59.346	1504	Type D	600	B125	300 X 300	
SW02	382866.429	386886.041	60.850	58.840	2310	Type D	600	B125	300 X 300	Catchpit manhole.
SW03	382947.813	386900.365	60.850	59.217	1633	Type D	600	B125	300 X 300	
SW04	382873.999	386918.016	60.850	58.486	2364	Type B	1200	D400	600 X 600	
SW05	382875.653	386924.999	60.850	58.300	2850	Type B	1200	D400	600 X 600	Catchpit manhole. Flow control manhole
CW01	382326.188	386658.402	61.130	58.000	3130	Type B	1200	D400	600 X 600	

FOUL WATER MANHOLE SCHEDULE

REF	EASTINGS (M)	NORTHINGS (M)	APPROX.CL(M)	INVERT(M)	DEPTH (MM)	TYPE	SIZE	COVER TYPE	COVER SIZE	SPECIAL REQUIREMENTS
FW01	382907.164	386877.523	60.850	59.650	1200	Type D	450	B125	300 X 300	
FW02	382874.946	386885.105	60.850	59.236	1614	Type D	450	B125	300 X 300	
FW03	382865.431	386887.345	60.850	59.114	1736	Type D	450	B125	300 X 300	
FW04	382889.579	386913.322	61.400	60.350	1050	Type D	450	D400	430 X 430	
FW05	382882.057	386915.111	61.100	60.253	847	Type D	450	D400	430 X 430	
FW06	382872.538	386917.365	60.850	58.728	2122	Type D	450	D400	300 X 300	Backdrop IL: 60.131
FW07	382874.371	386925.140	60.530	58.629	1901	Type D	450	D400	300 X 300	
CW01	382326.188	386658.402	61.130	58.000	3130	N/A	N/A	N/A	N/A	



General Drainage Specification

1. All private drains shall be constructed and commissioned in accordance with the relevant sections of the Building Regulations Approved Documents and relevant British Standards.
2. All rainwater pipes to be 150Ø. All other pipework to be 100Ø minimum unless noted otherwise.
3. Private surface water drains shall be laid at a minimum gradient of 1 in 100 or to the gradients and invert levels shown.
4. Private foul water drains shall be laid at a minimum gradient of 1 in 80 or to the gradients and invert levels shown
5. Foul pipework connections to first access point shall be laid at a minimum gradient of 1 in 40 or to the levels shown.
6. All connections to be made soffit to soffit unless noted otherwise.
7. Pipe bedding to be Class 'B' bedding for rigid pipes and Class 'T' bedding for flexible pipes (100 mm granular bed and surround).
8. Where cover to soffit of pipe is less than 600 mm in private areas, the following shall apply:-
   a) Vitrified clay pipes - provide a 100 mm min. thick concrete bed and surround (instead of class 'B' & 'T' bedding) and a 13 mm thick compressible filler at each joint.
   b) uPVC pipes - provide a concrete bridging (in addition to class 'B' or 'T' bedding) in accordance with appendix A15, Building Regulations part 'H'.
9. All concrete indicated in the construction of drainage infrastructure (pipe bedding, bridging, manholes etc) shall be standardised prescribed concrete ST2 and is to conform to BS EN 206-1 and BS 8500-2. The maximum aggregate size shall be 20mm.
10. Foundations adjacent to pipe runs or manholes are to have their formation level set above the invert level no higher than the equivalent of the horizontal distance between the pipe/excavation trench and the foundation, minus 500mm.
11. Excavations for manholes, pipe runs etc located within a 45 degree load distribution splay from any adjoining existing foundations, are to be adequately supported for the duration of the works and pipe runs protected as note 8 above.
12. Where excavations for pipe runs are parallel and in close proximity to each other and/or other service trenches, The Contractor shall ensure that adequate safety measures, including temporary shoring, are provided in line with current health & safety legislation and good practice. Particular attention is to be paid to adjacent trenches of differing invert levels.
13. All existing drainage found on site during the works shall be investigated, its operational status confirmed and the following applied:-
    a) Inoperative drainage shall be cut back and pipe runs filled with concrete grout.
    b) 'Live' drainage shall be advised to the engineer.

General

1.1. This drawing is to be read in conjunction with all Architect's, Engineer's and Services Engineer's drawings and specifications.
1.2. Do not scale from any of the Civils drawings. All dimensions to be verified on site and any discrepancies should be highlighted.
1.3. All materials to comply with the relevant British Standard.

Legend

Surface Water	Description
	New surface water drain
	New surface water manhole (Size indicated on Manhole Schedule)
	New modular storage tank
RWP	New rain water down pipe
Ex G	Existing Road Gully
	Filter Strip/French Drain
	Linear Drainage Channel

Foul	Description
	New foul water drain
	Backdrop
	New shallow foul inspection chamber (typ. 450mmØ) upto 1200mm deep
SVP	New soil and vent pipe
FG	New foul gully

Combined	Description
	Existing combined sewer
	Existing combined sewer manhole
	New combined sewer manhole (Size indicated on Manhole Schedule)

General	Description
	Site Boundary

⚠ Setting out of internal foul drainage points by others.

⚠ Potential that existing services may require diverting to accommodate the proposed building.

⚠ These drawings are based on TTSP drawings 3447-TSP-ZZ-02-DR-A-20-002 and 3447-TSP-ZZ-XX-DR-A-00-002

⚠ CCTV drainage survey to be undertaken to confirm details of existing drainage.

⚠ Cover depth for attenuation tank based on existing topographical levels.

⚠ Contractor to confirm setting out of tank in line with the requirements of the below ground drainage shown on plan.

REV	COMMENTS	DATE	CHK
FC01	Final Construction	23.07.2025	RJ

STATUS

FINAL CONSTRUCTION

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CLIENT

TTSP

PROJECT

KS DC Manchester

DRAWING TITLE

Drainage General Arrangement

SCALE @ A1	DRAWN BY	DATE
1:200	AGD	August 2023

MNP No.	STATUS CODE	REV
223169		FC01

Ref No.
170188-MNP-ZZ-XX-DR-C-01800