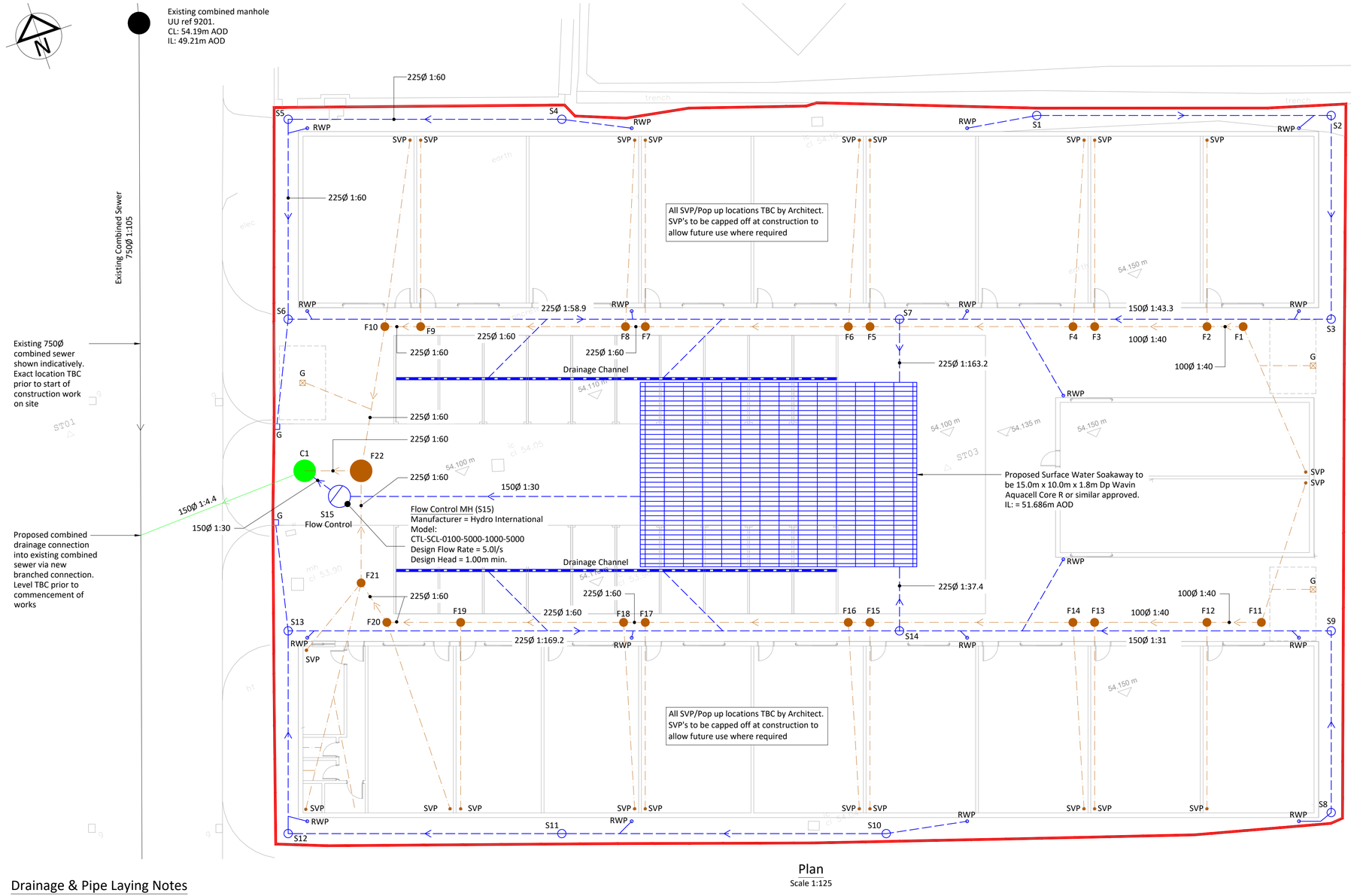
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A1



Plan
Scale 1:125

Proposed Foul Manhole Table

MH Ref	MH CL, m	MH IL, m	MH Depth, m	Incoming Pipe Size (mm)	Incoming Pipe IL (mm)	MH Dia, m	MH Type	MH Cover
F1	54.135	53.399	0.736	100	53.399	450	TYPE 3	B125
F2	54.135	53.350	0.785	100	53.350	450	TYPE 3	B125
				100	53.350			
F3	54.135	53.148	0.987	100	53.198	450	TYPE 3	B125
				150	53.148			
F4	54.135	53.128	1.007	150	53.128	450	TYPE 3	B125
				150	53.128			
F5	54.135	52.944	1.191	150	52.944	450	TYPE 3	B125
				150	52.944			
F6	54.135	52.924	1.211	150	52.924	450	TYPE 3	B125
				150	52.924			
F7	54.135	52.665	1.470	150	52.740	600	TYPE 4	B125
				225	52.665			
F8	54.135	52.647	1.488	225	52.647	600	TYPE 4	B125
				225	52.647			
F9	54.135	52.462	1.673	225	52.462	600	TYPE 4	B125
				225	52.462			
F10	54.135	52.430	1.705	225	52.430	600	TYPE 4	B125
				225	52.430			
F11	54.135	53.435	0.700	100	53.435	450	TYPE 3	B125
F12	54.135	53.361	0.774	100	53.361	450	TYPE 3	B125
				100	53.361			
F13	54.135	53.159	0.976	100	53.209	450	TYPE 3	B125
				150	53.159			
F14	54.135	53.139	0.996	150	53.139	450	TYPE 3	B125
				150	53.139			
F15	54.135	52.955	1.180	150	52.955	450	TYPE 3	B125
				150	52.955			
F16	54.135	52.935	1.200	150	52.935	450	TYPE 3	B125
				150	52.935			
F17	54.135	52.676	1.459	150	52.751	600	TYPE 4	B125
				225	52.676			
F18	54.135	52.656	1.479	225	52.656	600	TYPE 4	B125
				225	52.656			
F19	54.135	52.472	1.663	225	52.472	600	TYPE 4	B125
				225	52.472			
F20	54.135	52.442	1.693	225	52.442	600	TYPE 4	B125
				225	52.442			
F21	54.135	52.399	1.736	225	52.399	600	TYPE 4	B125
				225	52.399			
F22	54.100	52.298	1.802	225	52.298	1200	TYPE B	D400
				225	52.298			

Proposed Surface Water Manhole Table

MH ref	MH CL, m	MH IL, m	MH Depth, m	Incoming Pipe Size (mm)	Incoming Pipe IL (mm)	MH Dia, m	MH Type	MH Cover
S1	54.135	53.385	0.750	150	53.385	450	TYPE 4	B125
S2	54.135	53.119	1.016	150	53.119	450	TYPE 4	B125
				150	53.119			
S3	54.135	52.935	1.200	150	52.935	450	TYPE 4	B125
				150	52.935			
S4	54.135	53.310	0.825	225	53.310	600	TYPE 3	B125
S5	54.135	53.063	1.072	225	53.063	600	TYPE 3	B125
				225	53.063			
S6	54.135	52.882	1.253	225	52.882	600	TYPE 3	B125
				225	52.882			
S7	54.135	52.319	1.816	150	52.394	600	TYPE 3	B125
				225	52.319			
				225	52.319			
S8	54.135	53.385	0.750	150	53.385	450	TYPE 4	B125
S9	54.135	53.221	0.914	150	53.221	450	TYPE 4	B125
				150	53.221			
S10	54.135	53.385	0.750	150	53.385	450	TYPE 4	B125
S11	54.135	53.092	1.043	150	53.092	450	TYPE 4	B125
				150	53.092			
S12	54.135	52.845	1.290	150	52.845	450	TYPE 4	B125
				150	52.845			
S13	54.135	52.587	1.548	150	52.662	600	TYPE 3	B125
				225	52.587			
S14	54.135	52.391	1.744	150	52.466	600	TYPE 3	B125
				225	52.391			
				225	52.391			
S15	54.135	51.179	2.956	150	51.179	1200	TYPE B	D400
				150	51.179			

Drainage & Pipe Laying Notes

1. Design subject to review following receipt of further drainage survey information.
2. Existing drainage information based on United Utilities records OS Sheet SD8300SE - dated 07/06/2025.
3. All work is to be undertaken in accordance with the following standards;
   BS EN 1610:2015 - Construction & Testing of Drains & Sewers.
   Building Regulations Document Part H.
4. All pipe laying works are to proceed upstream unless noted otherwise.
5. All drainage runs shall be completed in advance of the external works.
6. Manhole locations where full setting out is not provided shall be fixed at the best location that suits the criteria indicated on the drawings (i.e. pipe gradients, lengths, incoming connections). Such manholes shall have their placement confirmed to the contract administrator.
7. Flows into the network should be avoided until the outfalls are established. If water entry is unavoidable prior to this, a sump should be constructed to be pumped out as required.
8. Existing invert levels at final discharge points to be checked prior to construction.
9. Where additional connections to the network are instructed by others (or shown on their drawings) such connections shall not be made without confirmation from the contract administrator.
10. Any existing pipes, french drains, streams or water entries encountered during pipe laying or elsewhere within the contract boundary should be reported to the contract administrator immediately.
11. Manhole cover and frame to suit manhole/inspection chamber ø, in accordance with EN 124.
12. Concrete pipes to comply with the requirements of BS 5911 and to be flexibly jointed.
13. Plastic pipes and fittings to the following;
    UPVC - to BS EN 1401
    Polypropylene - to BS EN 1852
14. Clay pipes to be vitrified clay extra strength, plain end pipes and fittings with plastic sleeve joints to BS 65:1981.
15. Pipes and fittings are to be laid in accordance with manufacturers recommendations.
16. Pipe work beneath buildings to have concrete bed and surround.
17. Where cover to adopted pipes is less than 1200mm and 900mm to private pipes in roads and hard standings concrete protection is to be provided. All drain runs near buildings shall also receive concrete protection - refer to details.
18. Where surface water pipes cross foul water pipes both pipes to have concrete bed, surround and infill between.
19. All pipe trenches shall have selected excavated material for backfill, except for those which pass beneath any buildings or external pavements which shall have type 2 material for backfill.
20. Until final surface is placed, heavy traffic is not to be allowed over pipe trenches without special provisions
21. All landscaping, footpaths and street furniture to Architects specification and details.

Key

- Existing Surface Water Drainage
- Existing Foul Water Drainage
- Existing Combined Water Drainage
- Proposed Surface Water Drainage
- Proposed Foul Water Drainage
- Proposed Combined Water Drainage
- Proposed Surface Water Drainage Channel
- RWP — Proposed Rainwater Pipe
- SVP — Proposed Soil Vent Pipe/Waste Pop Up
- G — Proposed Surface Water Gully
- G — Proposed Foul Water Gully
- Proposed Flow Control Manhole
- Site Boundary

Proposed Combined Manhole Table

MH Ref	MH CL, m	MH IL, m	MH Depth, m	Incoming Pipe Size (mm)	Incoming Pipe IL (mm)	MH Dia, m	MH Type	MH Cover
C1	54.100	51.064	2.999	225	52.247	1200	TYPE A	D400
				150	51.101			
				150	51.101			

Existing Combined Manhole Table

MH Ref	MH CL, m	MH IL, m	MH Depth, m	Incoming Pipe Size (mm)	Incoming Pipe IL (mm)	MH Dia, m	MH Type	MH Cover
EXG 1	53.700	48.946	4.754	150	48.946	Exisitng pipe depth to be confirmed on site priotr to commencment of the works		

Proposed Tank Table

MH Ref	MH CL, m	MH IL, m	MH Depth, m	Incoming Pipe Size (mm)	Incoming Pipe IL (mm)
Tank In 1	54.100	52.298	1.802	225	52.298
Tank In 2	54.100	52.298	1.802	225	52.298
Tank Out	54.100	51.723	2.377	150	51.723

Drainage Run Gradients
All surface water drain runs to be 150Ø 1:60 UNO
All foul water drain runs to be 150Ø 1:60 UNO

All RWP's connecting into MH system to be 100Ø in minimum 1:100 gradient.

All cover levels to be confirmed prior to commencement of works. Any discrepancies to be reported to LACE Ltd immediately.

Layout updated	B	17/07/2025	LA	KA
Updated levels	A	30/06/2025	LA	KA
DESCRIPTION	REV	DATE	CHK	APR

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PROJECT
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DRAWING TITLE
Proposed Drainage
General Arrangement

CLIENT
WMR Ltd

STATUS
Information

DRAWN	KK	DATE	13/06/2025
CHECKED	LA	SCALE	AS SHOWN @ A1
APPROVED	KA		

DRAWING NUMBER
LACE-25-075-500

REVISION
B