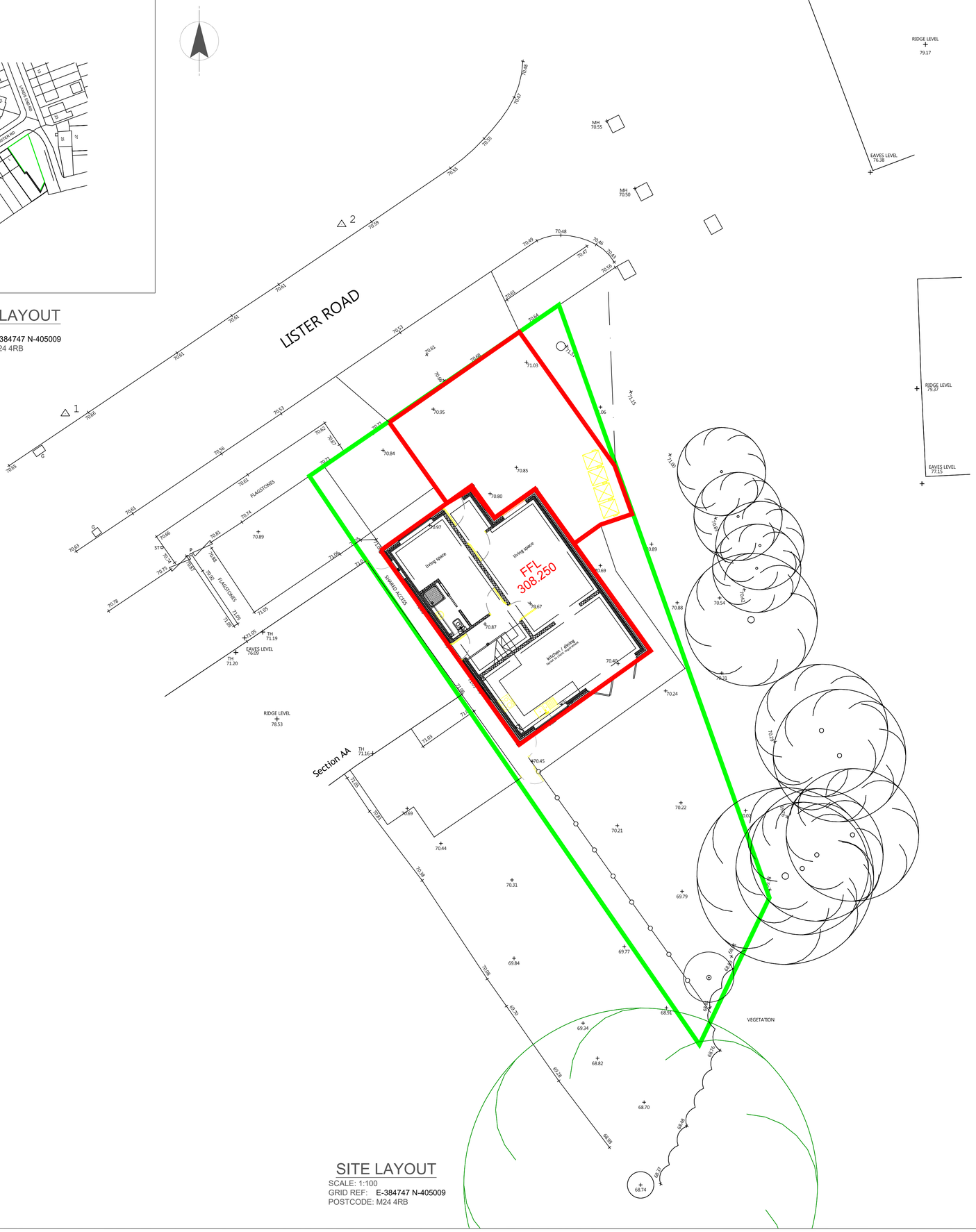


BLOCK LAYOUT

SCALE: 1:1250
GRID REF: E-384747 N-405009
POSTCODE: M24 4RB



SITE LAYOUT

SCALE: 1:100
GRID REF: E-384747 N-405009
POSTCODE: M24 4RB

		Page 1
1 Lister Road Middleton - Lancashire Porous Paving		Micro Drainage
Date 07/08/2025 18:53	Designed by DMS	
File POROUS PAVING REV A.SRCX	Checked by DMS	
Innovyze	Source Control 2020.1.3	

Summary of Results for 100 year Return Period (+45%)

Half Drain Time : 36 minutes.

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Control (l/s)	Max Outflow (l/s)	Max Volume (m³)	Status
15 min Summer	70.429	0.335	0.0	0.8	0.8	2.4	Flood Risk
30 min Summer	70.499	0.405	0.0	0.9	0.9	2.9	Flood Risk
60 min Summer	70.540	0.446	0.0	0.9	0.9	3.2	Flood Risk
120 min Summer	70.539	0.445	0.0	0.9	0.9	3.2	Flood Risk
180 min Summer	70.512	0.418	0.0	0.9	0.9	3.0	Flood Risk
240 min Summer	70.480	0.386	0.0	0.9	0.9	2.8	Flood Risk
360 min Summer	70.421	0.327	0.0	0.8	0.8	2.3	Flood Risk
480 min Summer	70.376	0.282	0.0	0.7	0.7	2.0	Flood Risk
600 min Summer	70.339	0.245	0.0	0.7	0.7	1.7	O K
720 min Summer	70.310	0.216	0.0	0.6	0.6	1.5	O K
960 min Summer	70.266	0.172	0.0	0.6	0.6	1.2	O K
1440 min Summer	70.212	0.118	0.0	0.5	0.5	0.8	O K
2160 min Summer	70.171	0.077	0.0	0.4	0.4	0.5	O K
2880 min Summer	70.151	0.057	0.0	0.3	0.3	0.4	O K
4320 min Summer	70.131	0.037	0.0	0.2	0.2	0.2	O K
5760 min Summer	70.126	0.032	0.0	0.2	0.2	0.2	O K
7200 min Summer	70.122	0.028	0.0	0.1	0.1	0.1	O K
8640 min Summer	70.120	0.026	0.0	0.1	0.1	0.1	O K
10080 min Summer	70.118	0.024	0.0	0.1	0.1	0.1	O K
15 min Winter	70.473	0.379	0.0	0.9	0.9	2.7	Flood Risk

Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Discharge Volume (m³)	Time-Peak (mins)
15 min Summer	122.610	0.0	2.9	16
30 min Summer	82.167	0.0	3.9	28
60 min Summer	52.627	0.0	5.0	44
120 min Summer	32.623	0.0	6.2	78
180 min Summer	24.339	0.0	7.0	112
240 min Summer	19.650	0.0	7.5	146
360 min Summer	14.410	0.0	8.3	210
480 min Summer	11.570	0.0	8.9	272
600 min Summer	9.751	0.0	9.4	332
720 min Summer	8.475	0.0	9.8	392
960 min Summer	6.786	0.0	10.4	512
1440 min Summer	4.953	0.0	11.4	750
2160 min Summer	3.607	0.0	12.4	1104
2880 min Summer	2.877	0.0	13.2	1468
4320 min Summer	2.088	0.0	14.3	2200
5760 min Summer	1.662	0.0	15.1	2936
7200 min Summer	1.391	0.0	15.8	3624
8640 min Summer	1.202	0.0	16.3	4360
10080 min Summer	1.062	0.0	16.8	5136
15 min Winter	122.610	0.0	3.2	16

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DRAINAGE STRATEGY:

EXISTING SITE BOUNDARY: AREA 0.029Ha

PROPOSED IMPERMEABLE AREA: AREA 0.013Ha

QBar Rural Run-off: 0.2Ls.

Minimum Run-off required to avoid Orifice Maintenance issue is 1L/s

Proposed Surface Water SUDS technique to be utilised: Car Driveway Porous Paving with no infiltration, only membrane blanket around stone and 26mm Orifice outlet.

All proposals are to cater for the 1 in 100 Year +45% Climate Change Event

all calculations provided to be in support of drawing ref: Proposed Site Layout 100-01 Rev A

REV	AMENDMENTS	DATE	DRAWN
A	ISSUED FOR UNITED UTILITIES & LEAD LOCAL FLOOD AUTHORITY APPROVALS	07/08/25	DS

CLIENT:

MAGA PROJECTS

project title
DEVELOPMENT AT: 1 LISTER ROAD
MIDDLETON
LANCASHIRE
M24 4RB

drawing title
PROPOSED DRAINAGE STRATEGY

scales: As Shown

date: 7 August 2025

Drawn	Checked	Approved	ref	rev
BM	DS	TJ	LR/M/L/100-02	A

TA ENGINEERING
STRUCTURAL DESIGN