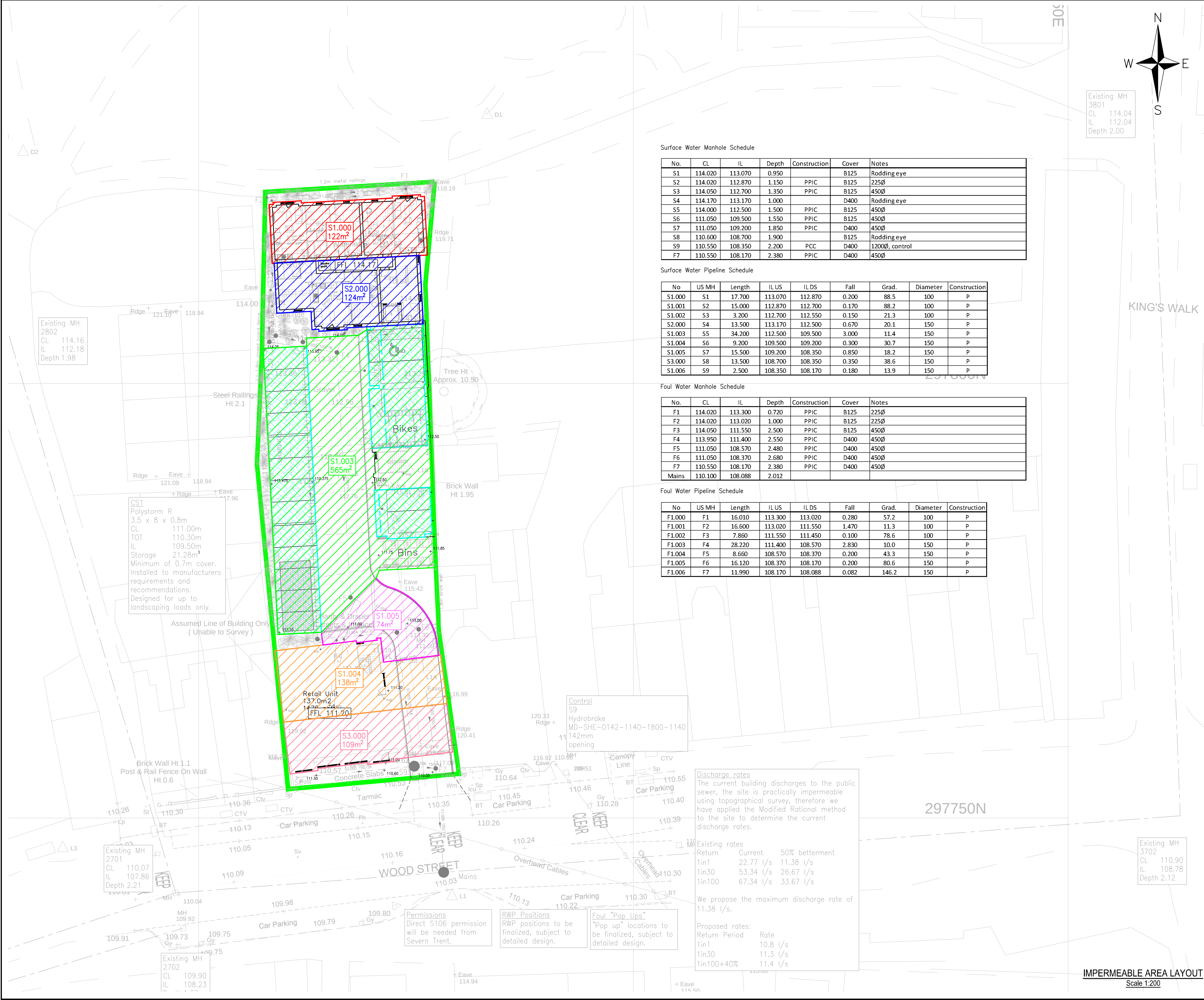




Surface Water Manhole Schedule

| No. | CL      | IL      | Depth | Construction | Cover | Notes          |
|-----|---------|---------|-------|--------------|-------|----------------|
| S1  | 114.020 | 113.070 | 0.950 |              | B125  | Rodding eye    |
| S2  | 114.020 | 112.870 | 1.150 | PPIC         | B125  | 225Ø           |
| S3  | 114.050 | 112.700 | 1.350 | PPIC         | B125  | 450Ø           |
| S4  | 114.170 | 113.170 | 1.000 |              | D400  | Rodding eye    |
| S5  | 114.000 | 112.500 | 1.500 | PPIC         | B125  | 450Ø           |
| S6  | 111.050 | 109.500 | 1.550 | PPIC         | B125  | 450Ø           |
| S7  | 111.050 | 109.200 | 1.850 | PPIC         | D400  | 450Ø           |
| S8  | 110.600 | 108.700 | 1.900 |              | B125  | Rodding eye    |
| S9  | 110.550 | 108.350 | 2.200 | PCC          | D400  | 1200Ø, control |
| F7  | 110.550 | 108.170 | 2.380 | PPIC         | D400  | 450Ø           |

Surface Water Pipeline Schedule

| No     | US MH | Length | IL US   | IL DS   | Fall  | Grad. | Diameter | Construction |
|--------|-------|--------|---------|---------|-------|-------|----------|--------------|
| S1.000 | S1    | 17.700 | 113.070 | 112.870 | 0.200 | 88.5  | 100      | P            |
| S1.001 | S2    | 15.000 | 112.870 | 112.700 | 0.170 | 88.2  | 100      | P            |
| S1.002 | S3    | 3.200  | 112.700 | 112.550 | 0.150 | 21.3  | 100      | P            |
| S2.000 | S4    | 13.500 | 113.170 | 112.500 | 0.670 | 20.1  | 150      | P            |
| S1.003 | S5    | 34.200 | 112.500 | 109.500 | 3.000 | 11.4  | 150      | P            |
| S1.004 | S6    | 9.200  | 109.500 | 109.200 | 0.300 | 30.7  | 150      | P            |
| S1.005 | S7    | 15.500 | 109.200 | 108.350 | 0.850 | 18.2  | 150      | P            |
| S3.000 | S8    | 13.500 | 108.700 | 108.350 | 0.350 | 38.6  | 150      | P            |
| S1.006 | S9    | 2.500  | 108.350 | 108.170 | 0.180 | 13.9  | 150      | P            |

Foul Water Manhole Schedule

| No.   | CL      | IL      | Depth | Construction | Cover | Notes |
|-------|---------|---------|-------|--------------|-------|-------|
| F1    | 114.020 | 113.300 | 0.720 | PPIC         | B125  | 225Ø  |
| F2    | 114.020 | 113.020 | 1.000 | PPIC         | B125  | 225Ø  |
| F3    | 114.050 | 111.550 | 2.500 | PPIC         | B125  | 450Ø  |
| F4    | 113.950 | 111.400 | 2.550 | PPIC         | D400  | 450Ø  |
| F5    | 111.050 | 108.570 | 2.480 | PPIC         | D400  | 450Ø  |
| F6    | 111.050 | 108.370 | 2.680 | PPIC         | D400  | 450Ø  |
| F7    | 110.550 | 108.170 | 2.380 | PPIC         | D400  | 450Ø  |
| Mains | 110.100 | 108.088 | 2.012 |              |       |       |

Foul Water Pipeline Schedule

| No     | US MH | Length | IL US   | IL DS   | Fall  | Grad. | Diameter | Construction |
|--------|-------|--------|---------|---------|-------|-------|----------|--------------|
| F1.000 | F1    | 16.010 | 113.300 | 113.020 | 0.280 | 57.2  | 100      | P            |
| F1.001 | F2    | 16.600 | 113.020 | 111.550 | 1.470 | 11.3  | 100      | P            |
| F1.002 | F3    | 7.860  | 111.550 | 111.450 | 0.100 | 78.6  | 100      | P            |
| F1.003 | F4    | 28.220 | 111.400 | 108.570 | 2.830 | 10.0  | 150      | P            |
| F1.004 | F5    | 8.660  | 108.570 | 108.370 | 0.200 | 43.3  | 150      | P            |
| F1.005 | F6    | 16.120 | 108.370 | 108.170 | 0.200 | 80.6  | 150      | P            |
| F1.006 | F7    | 11.990 | 108.170 | 108.088 | 0.082 | 146.2 | 150      | P            |

Discharge rates

The current building discharges to the public sewer, the site is practically impermeable using topographical survey, therefore we have applied the Modified Rational method to the site to determine the current discharge rates.

| Existing rates | Return | Current | 50% betterment |
|----------------|--------|---------|----------------|
| 1in1           | 22.77  | 1/s     | 11.38 1/s      |
| 1in30          | 53.34  | 1/s     | 26.67 1/s      |
| 1in100         | 67.34  | 1/s     | 33.67 1/s      |

We propose the maximum discharge rate of 11.38 l/s.

| Proposed rates: | Return Period | Rate |
|-----------------|---------------|------|
| 1in1            | 10.8          | 1/s  |
| 1in30           | 11.3          | 1/s  |
| 1in100+40%      | 11.4          | 1/s  |

IMPERMEABLE AREA LAYOUT  
Scale 1:200

DO NOT SCALE

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NOTES

- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER DWS DRAWINGS, CALCULATIONS, REPORTS AND SPECIFICATIONS (WHERE APPLICABLE) AND, ALL OTHER RELEVANT ENGINEERS, ARCHITECTS & SPECIALIST DESIGN DETAILS.
- STANDARD NOTES & DETAILS:  
Refer to drawing number 0-170 onwards for standard notes - CIVIL  
Refer to drawing number 0-180 onwards for standard details - CIVIL

SCALE BAR TEST

1:200 12m @ 1:200 1:200

All dimensions to be verified by accurate site measurement prior to commencing work or ordering materials.

KEY

- Surface Water Pipe (Private)
- Surface Water Pipe (Perforated)
- Surface Water Chamber (Private)
- Rodding Eye
- Linear Drain
- Attenuation Tank
- Permeable Paving
- Fin Drain
- Foul Water Pipe (Private)
- Foul Water Chamber (Private)
- Existing Combined Water Sewer
- Site Boundary

|     |             |          |    |
|-----|-------------|----------|----|
| P1  | First issue | 16.12.25 | LM |
| Ref | Revision    | Date     | By |

PRELIMINARY

**DWS**  
Consulting Engineers

Diamond Wood & Shaw Limited  
The Old School • Babay Road • Enderby • Leicester • LE19 4AR  
Tel: 0115 254 8859 • Email: mail@dwsl.co.uk

Project Title  
68 WOOD STREET, EARL SHILTON

|                        |                |                  |
|------------------------|----------------|------------------|
| Drawn<br>LM            | Engineer<br>LM | Checked<br>BP    |
| Scale at<br>1:200 @ A1 |                | Date<br>DEC 2025 |

Drawing Title  
IMPERMEABLE AREA LAYOUT

|                         |                      |                |
|-------------------------|----------------------|----------------|
| Project No.<br>25-22559 | Drawing No.<br>0-502 | Revision<br>P1 |
| BIM Code                |                      |                |

NOT FOR CONSTRUCTION