

# UK Design Flood Estimation

Generated on 30 September 2024 13:29:39 by Bethan.LloydJones  
Printed from the ReFH2 Flood Modelling software package, version 4.1.8704.23947

## Summary of estimate using the Flood Estimation Handbook revitalised flood hydrograph method (ReFH2)

### Site details

Checksum: E31A-6357

Site name: Updated - FEH\_Catchment\_Descriptors\_325850\_188900\_v5\_0\_1

Easting: 325850

Northing: 188900

Country: England, Wales or Northern Ireland

Catchment Area (km<sup>2</sup>): 211.82

Using plot scale calculations: No

Model: 2.3

Site description: None

## Model run: 100 year

### Summary of results

Rainfall - FEH22 (mm):	95.65	Total runoff (ML):	5931.62
Total Rainfall (mm):	75.58	Total flow (ML):	16006.72
Peak Rainfall (mm):	8.57	Peak flow (m <sup>3</sup> /s):	193.94

### Parameters

Where the user has overridden a system-generated value, this original value is shown in square brackets after the value used.

\* Indicates that the user locked the duration/timestep

#### Rainfall parameters (Rainfall - FEH22)

Name	Value	User-defined?
Duration (hh:mm:ss)	11:30:00	No
Timestep (hh:mm:ss)	00:30:00	No
SCF (Seasonal correction factor)	0.87	No
ARF (Areal reduction factor)	0.91	No
Seasonality	Winter	No

#### Loss model parameters

Name	Value	User-defined?
Cini (mm)	91.13	No
Cmax (mm)	377.2	No
Use alpha correction factor	No	No
Alpha correction factor	n/a	No

#### Routing model parameters

\*The URBEXT2000 has been modified so that the 'Urban' proportion does not exceed 1.

Name	Value	User-defined?
Tp (hr)	4.89	No
Up	0.65	No
Uk	0.8	No

#### Baseflow model parameters

Name	Value	User-defined?
BF0 (m <sup>3</sup> /s)	13.06	No
BL (hr)	55.52	No
BR	1.93	No

#### Urbanisation parameters

Name	Value	User-defined?
Sewer capacity (m <sup>3</sup> /s)	0	No
Exporting drained area (km <sup>2</sup> )	0	No
Urban area (km <sup>2</sup> )	33.04 [32.56]	Yes
Effective URBEXT2000	0.1	n/a
Impervious runoff factor	0.7	No
Imperviousness factor	0.4	No
Tp scaling factor	0.75	No
Depression storage depth (mm)	0.5	No

*\*The URBEXT2000 has been modified so that the 'Urban' proportion does not exceed 1.*

Time series data

Time (hh:mm:ss)	Rain (mm)	Sewer Loss (m <sup>3</sup> /s)	Net Rain (mm)	Runoff (m <sup>3</sup> /s)	Baseflow (m <sup>3</sup> /s)	Total Flow (m <sup>3</sup> /s)
00:00:00	0.687	0.000	0.187	0.000	12.241	12.241
00:30:00	0.881	0.000	0.244	0.089	12.131	12.221
01:00:00	1.127	0.000	0.316	0.385	12.026	12.411
01:30:00	1.442	0.000	0.409	0.950	11.926	12.875
02:00:00	1.842	0.000	0.530	1.861	11.836	13.697
02:30:00	2.349	0.000	0.688	3.221	11.761	14.982
03:00:00	2.990	0.000	0.896	5.163	11.706	16.870
03:30:00	3.797	0.000	1.171	7.860	11.681	19.541
04:00:00	4.807	0.000	1.534	11.518	11.695	23.212
04:30:00	6.052	0.000	2.015	16.351	11.762	28.113
05:00:00	7.530	0.000	2.636	22.712	11.900	34.612
05:30:00	8.573	0.000	3.177	30.949	12.133	43.081
06:00:00	7.530	0.000	2.944	41.454	12.487	53.941
06:30:00	6.052	0.000	2.470	54.229	12.993	67.221
07:00:00	4.807	0.000	2.028	68.760	13.678	82.438
07:30:00	3.797	0.000	1.644	84.393	14.564	98.957
08:00:00	2.990	0.000	1.320	100.46 2	15.663	116.126
08:30:00	2.349	0.000	1.053	116.26 7	16.981	133.248
09:00:00	1.842	0.000	0.835	131.04 5	18.513	149.558
09:30:00	1.442	0.000	0.660	143.97 1	20.247	164.218
10:00:00	1.127	0.000	0.520	154.28 4	22.160	176.444
10:30:00	0.881	0.000	0.408	161.45 8	24.219	185.677
11:00:00	0.687	0.000	0.320	165.10 1	26.376	191.477
11:30:00	0.000	0.000	0.000	165.36 4	28.579	193.943
12:00:00	0.000	0.000	0.000	162.67 9	30.778	193.457
12:30:00	0.000	0.000	0.000	157.56 0	32.928	190.488
13:00:00	0.000	0.000	0.000	150.61 2	34.995	185.607
13:30:00	0.000	0.000	0.000	142.36 4	36.951	179.315

\*The URBEXT2000 has been modified so that the 'Urban' proportion does not exceed 1.

Time (hh:mm:ss)	Rain (mm)	Sewer Loss (m <sup>3</sup> /s)	Net Rain (mm)	Runoff (m <sup>3</sup> /s)	Baseflow (m <sup>3</sup> /s)	Total Flow (m <sup>3</sup> /s)
14:00:00	0.000	0.000	0.000	133.23 2	38.775	172.007
14:30:00	0.000	0.000	0.000	123.54 2	40.455	163.997
15:00:00	0.000	0.000	0.000	113.59 1	41.982	155.573
15:30:00	0.000	0.000	0.000	103.68 2	43.355	147.037
16:00:00	0.000	0.000	0.000	94.123	44.575	138.698
16:30:00	0.000	0.000	0.000	84.989	45.649	130.638
17:00:00	0.000	0.000	0.000	76.435	46.584	123.019
17:30:00	0.000	0.000	0.000	68.478	47.391	115.869
18:00:00	0.000	0.000	0.000	61.068	48.076	109.144
18:30:00	0.000	0.000	0.000	54.187	48.649	102.837
19:00:00	0.000	0.000	0.000	47.827	49.116	96.943
19:30:00	0.000	0.000	0.000	41.956	49.482	91.438
20:00:00	0.000	0.000	0.000	36.523	49.753	86.276
20:30:00	0.000	0.000	0.000	31.480	49.934	81.414
21:00:00	0.000	0.000	0.000	26.796	50.029	76.825
21:30:00	0.000	0.000	0.000	22.452	50.043	72.495
22:00:00	0.000	0.000	0.000	18.421	49.982	68.403
22:30:00	0.000	0.000	0.000	14.736	49.850	64.586
23:00:00	0.000	0.000	0.000	11.467	49.655	61.122
23:30:00	0.000	0.000	0.000	8.700	49.405	58.105
24:00:00	0.000	0.000	0.000	6.471	49.109	55.581
24:30:00	0.000	0.000	0.000	4.727	48.778	53.505
25:00:00	0.000	0.000	0.000	3.382	48.420	51.803
25:30:00	0.000	0.000	0.000	2.353	48.042	50.395
26:00:00	0.000	0.000	0.000	1.577	47.650	49.227
26:30:00	0.000	0.000	0.000	1.005	47.248	48.253
27:00:00	0.000	0.000	0.000	0.595	46.840	47.435
27:30:00	0.000	0.000	0.000	0.314	46.429	46.743
28:00:00	0.000	0.000	0.000	0.135	46.017	46.152
28:30:00	0.000	0.000	0.000	0.036	45.606	45.643
29:00:00	0.000	0.000	0.000	0.001	45.198	45.199
29:30:00	0.000	0.000	0.000	0.000	44.793	44.793
30:00:00	0.000	0.000	0.000	0.000	44.391	44.391

\*The URBEXT2000 has been modified so that the 'Urban' proportion does not exceed 1.

Time (hh:mm:ss)	Rain (mm)	Sewer Loss (m <sup>3</sup> /s)	Net Rain (mm)	Runoff (m <sup>3</sup> /s)	Baseflow (m <sup>3</sup> /s)	Total Flow (m <sup>3</sup> /s)
30:30:00	0.000	0.000	0.000	0.000	43.993	43.993
31:00:00	0.000	0.000	0.000	0.000	43.599	43.599
31:30:00	0.000	0.000	0.000	0.000	43.208	43.208
32:00:00	0.000	0.000	0.000	0.000	42.820	42.820
32:30:00	0.000	0.000	0.000	0.000	42.437	42.437
33:00:00	0.000	0.000	0.000	0.000	42.056	42.056
33:30:00	0.000	0.000	0.000	0.000	41.679	41.679
34:00:00	0.000	0.000	0.000	0.000	41.305	41.305
34:30:00	0.000	0.000	0.000	0.000	40.935	40.935
35:00:00	0.000	0.000	0.000	0.000	40.568	40.568
35:30:00	0.000	0.000	0.000	0.000	40.204	40.204
36:00:00	0.000	0.000	0.000	0.000	39.844	39.844
36:30:00	0.000	0.000	0.000	0.000	39.487	39.487
37:00:00	0.000	0.000	0.000	0.000	39.133	39.133
37:30:00	0.000	0.000	0.000	0.000	38.782	38.782
38:00:00	0.000	0.000	0.000	0.000	38.434	38.434
38:30:00	0.000	0.000	0.000	0.000	38.090	38.090
39:00:00	0.000	0.000	0.000	0.000	37.748	37.748
39:30:00	0.000	0.000	0.000	0.000	37.410	37.410
40:00:00	0.000	0.000	0.000	0.000	37.074	37.074
40:30:00	0.000	0.000	0.000	0.000	36.742	36.742
41:00:00	0.000	0.000	0.000	0.000	36.413	36.413
41:30:00	0.000	0.000	0.000	0.000	36.086	36.086
42:00:00	0.000	0.000	0.000	0.000	35.763	35.763
42:30:00	0.000	0.000	0.000	0.000	35.442	35.442
43:00:00	0.000	0.000	0.000	0.000	35.124	35.124
43:30:00	0.000	0.000	0.000	0.000	34.809	34.809
44:00:00	0.000	0.000	0.000	0.000	34.497	34.497
44:30:00	0.000	0.000	0.000	0.000	34.188	34.188
45:00:00	0.000	0.000	0.000	0.000	33.882	33.882
45:30:00	0.000	0.000	0.000	0.000	33.578	33.578
46:00:00	0.000	0.000	0.000	0.000	33.277	33.277
46:30:00	0.000	0.000	0.000	0.000	32.978	32.978
47:00:00	0.000	0.000	0.000	0.000	32.683	32.683
47:30:00	0.000	0.000	0.000	0.000	32.390	32.390

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Time (hh:mm:ss)	Rain (mm)	Sewer Loss (m <sup>3</sup> /s)	Net Rain (mm)	Runoff (m <sup>3</sup> /s)	Baseflow (m <sup>3</sup> /s)	Total Flow (m <sup>3</sup> /s)
48:00:00	0.000	0.000	0.000	0.000	32.099	32.099
48:30:00	0.000	0.000	0.000	0.000	31.812	31.812
49:00:00	0.000	0.000	0.000	0.000	31.526	31.526
49:30:00	0.000	0.000	0.000	0.000	31.244	31.244
50:00:00	0.000	0.000	0.000	0.000	30.964	30.964
50:30:00	0.000	0.000	0.000	0.000	30.686	30.686
51:00:00	0.000	0.000	0.000	0.000	30.411	30.411
51:30:00	0.000	0.000	0.000	0.000	30.138	30.138
52:00:00	0.000	0.000	0.000	0.000	29.868	29.868
52:30:00	0.000	0.000	0.000	0.000	29.600	29.600
53:00:00	0.000	0.000	0.000	0.000	29.335	29.335
53:30:00	0.000	0.000	0.000	0.000	29.072	29.072
54:00:00	0.000	0.000	0.000	0.000	28.811	28.811
54:30:00	0.000	0.000	0.000	0.000	28.553	28.553
55:00:00	0.000	0.000	0.000	0.000	28.297	28.297
55:30:00	0.000	0.000	0.000	0.000	28.043	28.043
56:00:00	0.000	0.000	0.000	0.000	27.792	27.792
56:30:00	0.000	0.000	0.000	0.000	27.543	27.543
57:00:00	0.000	0.000	0.000	0.000	27.296	27.296
57:30:00	0.000	0.000	0.000	0.000	27.051	27.051
58:00:00	0.000	0.000	0.000	0.000	26.809	26.809
58:30:00	0.000	0.000	0.000	0.000	26.568	26.568
59:00:00	0.000	0.000	0.000	0.000	26.330	26.330
59:30:00	0.000	0.000	0.000	0.000	26.094	26.094
60:00:00	0.000	0.000	0.000	0.000	25.860	25.860
60:30:00	0.000	0.000	0.000	0.000	25.628	25.628
61:00:00	0.000	0.000	0.000	0.000	25.399	25.399
61:30:00	0.000	0.000	0.000	0.000	25.171	25.171
62:00:00	0.000	0.000	0.000	0.000	24.945	24.945
62:30:00	0.000	0.000	0.000	0.000	24.722	24.722
63:00:00	0.000	0.000	0.000	0.000	24.500	24.500
63:30:00	0.000	0.000	0.000	0.000	24.280	24.280
64:00:00	0.000	0.000	0.000	0.000	24.063	24.063
64:30:00	0.000	0.000	0.000	0.000	23.847	23.847
65:00:00	0.000	0.000	0.000	0.000	23.633	23.633

*\*The URBEXT2000 has been modified so that the 'Urban' proportion does not exceed 1.*

Time (hh:mm:ss)	Rain (mm)	Sewer Loss (m <sup>3</sup> /s)	Net Rain (mm)	Runoff (m <sup>3</sup> /s)	Baseflow (m <sup>3</sup> /s)	Total Flow (m <sup>3</sup> /s)
65:30:00	0.000	0.000	0.000	0.000	23.421	23.421
66:00:00	0.000	0.000	0.000	0.000	23.211	23.211
66:30:00	0.000	0.000	0.000	0.000	23.003	23.003
67:00:00	0.000	0.000	0.000	0.000	22.797	22.797
67:30:00	0.000	0.000	0.000	0.000	22.593	22.593
68:00:00	0.000	0.000	0.000	0.000	22.390	22.390
68:30:00	0.000	0.000	0.000	0.000	22.189	22.189
69:00:00	0.000	0.000	0.000	0.000	21.990	21.990
69:30:00	0.000	0.000	0.000	0.000	21.793	21.793
70:00:00	0.000	0.000	0.000	0.000	21.598	21.598
70:30:00	0.000	0.000	0.000	0.000	21.404	21.404
71:00:00	0.000	0.000	0.000	0.000	21.212	21.212
71:30:00	0.000	0.000	0.000	0.000	21.022	21.022
72:00:00	0.000	0.000	0.000	0.000	20.834	20.834
72:30:00	0.000	0.000	0.000	0.000	20.647	20.647
73:00:00	0.000	0.000	0.000	0.000	20.462	20.462
73:30:00	0.000	0.000	0.000	0.000	20.278	20.278
74:00:00	0.000	0.000	0.000	0.000	20.097	20.097
74:30:00	0.000	0.000	0.000	0.000	19.916	19.916
75:00:00	0.000	0.000	0.000	0.000	19.738	19.738
75:30:00	0.000	0.000	0.000	0.000	19.561	19.561
76:00:00	0.000	0.000	0.000	0.000	19.386	19.386
76:30:00	0.000	0.000	0.000	0.000	19.212	19.212
77:00:00	0.000	0.000	0.000	0.000	19.039	19.039
77:30:00	0.000	0.000	0.000	0.000	18.869	18.869
78:00:00	0.000	0.000	0.000	0.000	18.700	18.700
78:30:00	0.000	0.000	0.000	0.000	18.532	18.532
79:00:00	0.000	0.000	0.000	0.000	18.366	18.366
79:30:00	0.000	0.000	0.000	0.000	18.201	18.201
80:00:00	0.000	0.000	0.000	0.000	18.038	18.038
80:30:00	0.000	0.000	0.000	0.000	17.876	17.876
81:00:00	0.000	0.000	0.000	0.000	17.716	17.716
81:30:00	0.000	0.000	0.000	0.000	17.557	17.557
82:00:00	0.000	0.000	0.000	0.000	17.400	17.400
82:30:00	0.000	0.000	0.000	0.000	17.244	17.244

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Time (hh:mm:ss)	Rain (mm)	Sewer Loss (m <sup>3</sup> /s)	Net Rain (mm)	Runoff (m <sup>3</sup> /s)	Baseflow (m <sup>3</sup> /s)	Total Flow (m <sup>3</sup> /s)
83:00:00	0.000	0.000	0.000	0.000	17.089	17.089
83:30:00	0.000	0.000	0.000	0.000	16.936	16.936
84:00:00	0.000	0.000	0.000	0.000	16.784	16.784
84:30:00	0.000	0.000	0.000	0.000	16.634	16.634
85:00:00	0.000	0.000	0.000	0.000	16.485	16.485
85:30:00	0.000	0.000	0.000	0.000	16.337	16.337
86:00:00	0.000	0.000	0.000	0.000	16.190	16.190
86:30:00	0.000	0.000	0.000	0.000	16.045	16.045
87:00:00	0.000	0.000	0.000	0.000	15.901	15.901
87:30:00	0.000	0.000	0.000	0.000	15.759	15.759
88:00:00	0.000	0.000	0.000	0.000	15.617	15.617
88:30:00	0.000	0.000	0.000	0.000	15.477	15.477
89:00:00	0.000	0.000	0.000	0.000	15.339	15.339
89:30:00	0.000	0.000	0.000	0.000	15.201	15.201
90:00:00	0.000	0.000	0.000	0.000	15.065	15.065
90:30:00	0.000	0.000	0.000	0.000	14.930	14.930
91:00:00	0.000	0.000	0.000	0.000	14.796	14.796
91:30:00	0.000	0.000	0.000	0.000	14.663	14.663
92:00:00	0.000	0.000	0.000	0.000	14.532	14.532
92:30:00	0.000	0.000	0.000	0.000	14.402	14.402
93:00:00	0.000	0.000	0.000	0.000	14.273	14.273
93:30:00	0.000	0.000	0.000	0.000	14.145	14.145
94:00:00	0.000	0.000	0.000	0.000	14.018	14.018
94:30:00	0.000	0.000	0.000	0.000	13.892	13.892
95:00:00	0.000	0.000	0.000	0.000	13.768	13.768
95:30:00	0.000	0.000	0.000	0.000	13.644	13.644
96:00:00	0.000	0.000	0.000	0.000	13.522	13.522
96:30:00	0.000	0.000	0.000	0.000	13.401	13.401
97:00:00	0.000	0.000	0.000	0.000	13.280	13.280
97:30:00	0.000	0.000	0.000	0.000	13.161	13.161
98:00:00	0.000	0.000	0.000	0.000	13.043	13.043
98:30:00	0.000	0.000	0.000	0.000	12.926	12.926
99:00:00	0.000	0.000	0.000	0.000	12.811	12.811
99:30:00	0.000	0.000	0.000	0.000	12.696	12.696
100:00:00	0.000	0.000	0.000	0.000	12.582	12.582

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Time (hh:mm:ss)	Rain (mm)	Sewer Loss (m <sup>3</sup> /s)	Net Rain (mm)	Runoff (m <sup>3</sup> /s)	Baseflow (m <sup>3</sup> /s)	Total Flow (m <sup>3</sup> /s)
100:30:00	0.000	0.000	0.000	0.000	12.469	12.469
101:00:00	0.000	0.000	0.000	0.000	12.357	12.357

*\*The URBEXT2000 has been modified so that the 'Urban' proportion does not exceed 1.*

## Appendix

### Catchment descriptors \*

Name	Value	User-defined value used?
Area (km <sup>2</sup> )	211.82	No
ALTBAR	317	No
ASPBAR	183	No
ASPVAR	0.18	No
BFIHOST	0.54	No
BFIHOST19	0.5	No
DPLBAR (km)	22.27	No
DPSBAR (mkm <sup>-1</sup> )	182.3	No
FARL	0.98	No
LDP	41.98	No
PROPWET	0.49	No
RMED1H	11.8	No
RMED1D	52.7	No
RMED2D	70	No
SAAR (mm)	1454	No
SAAR4170 (mm)	1529	No
SPRHOST	29.79	No
URBEXT2000	0.1 [0.1]	Yes
URBEXT1990	0.08	No
URBCONC	0.74	No
URBLOC	0.95	No
DDF parameter C	-0.03	No
DDF parameter D1	0.46	No
DDF parameter D2	0.44	No
DDF parameter D3	0.35	No
DDF parameter E	0.29	No
DDF parameter F	2.54	No
DDF parameter C (1km grid value)	-0.03	No
DDF parameter D1 (1km grid value)	0.44	No
DDF parameter D2 (1km grid value)	0.41	No
DDF parameter D3 (1km grid value)	0.36	No
DDF parameter E (1km grid value)	0.28	No
DDF parameter F (1km grid value)	2.46	No

*Values in square brackets are the original values loaded from the FEH Web Service or FEH CD-ROM*

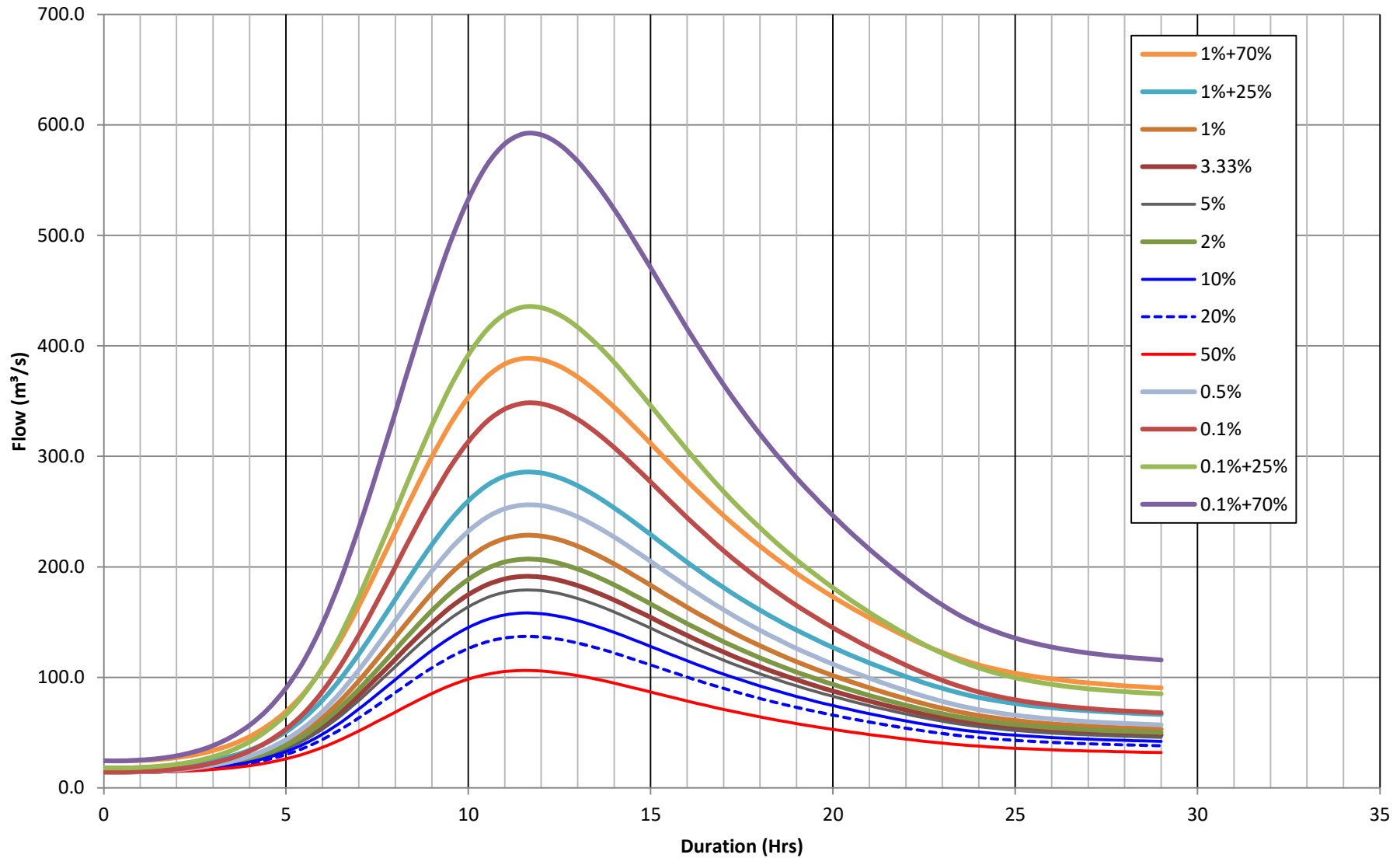
*\*The URBEXT2000 has been modified so that the 'Urban' proportion does not exceed 1.*

8.6 ReFH2 Design Hydrographs

# Design Hydrographs

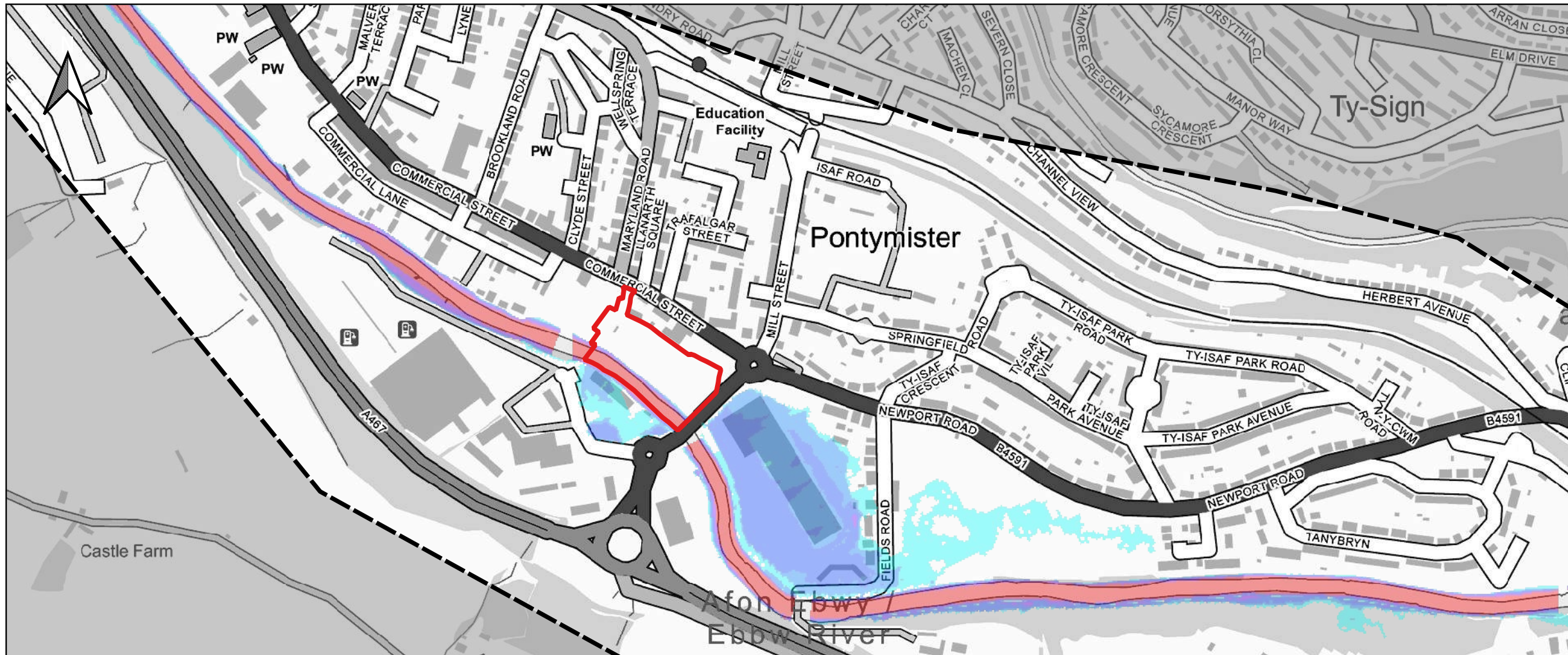
River Ebbw at Rhiwderin Gauge

Land at Pontymister, Risca



## **Appendix G Simulated Flood Maps**

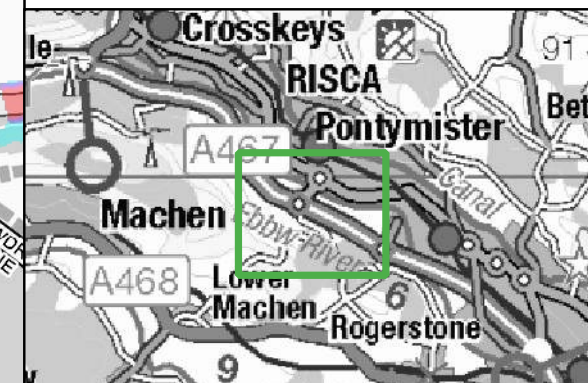
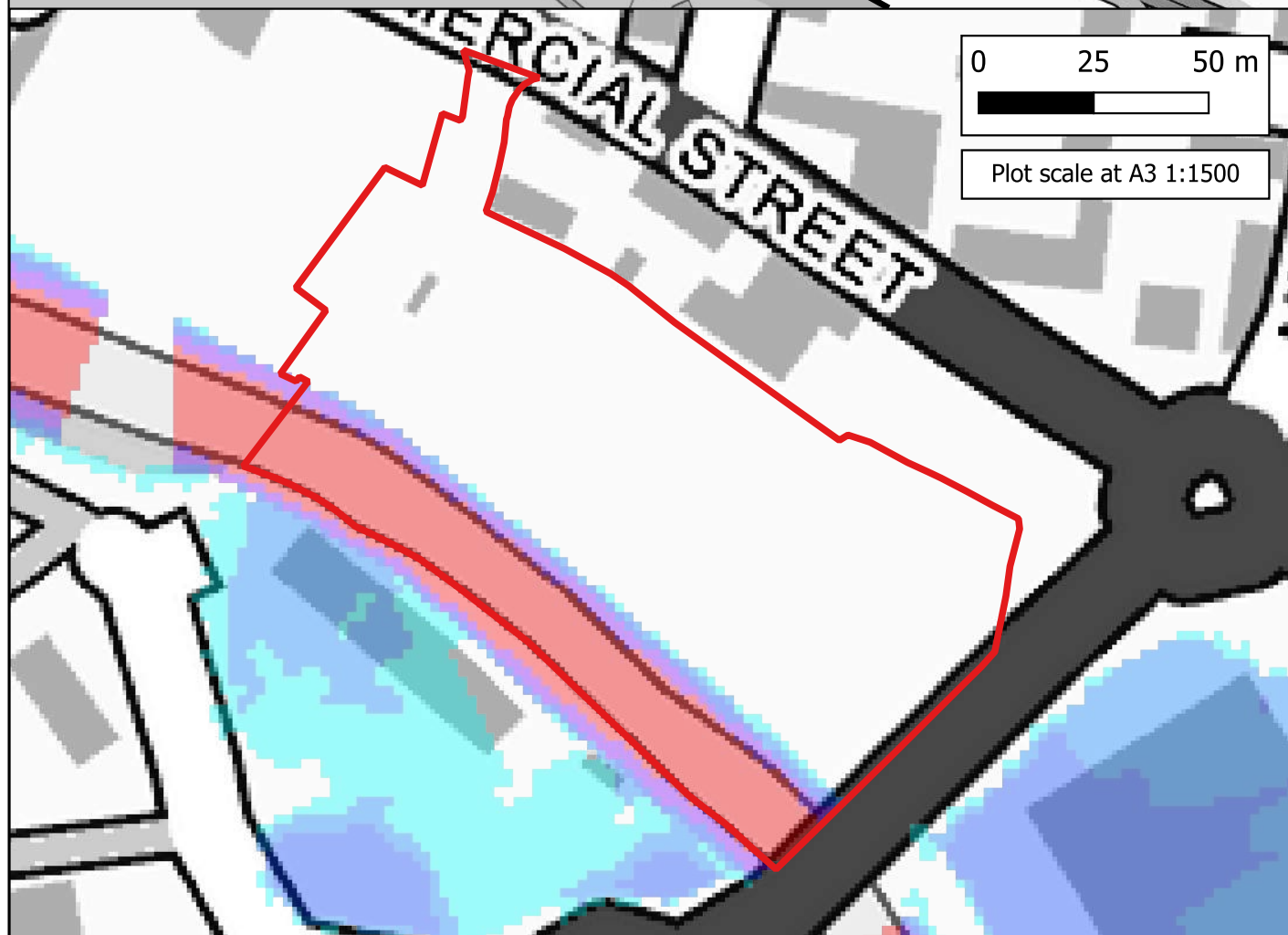
### **Normal Conditions Scenario**



Notes:  
 1) All dimensions are in metres and all levels in metres above Ordnance Datum unless stated otherwise.

**LEGEND**

- Site Boundary
- Maximum Flood Depth
- <= 0.3m
- 0.3m - 0.6m
- 0.6m - 1.2m
- 1.2m - 2.4m
- > 2.4m



CLIENT:  


  
 www.waterco.co.uk

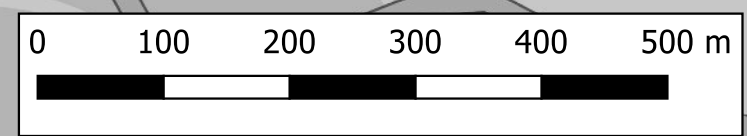
SCHEME:  
**Land at Pontymister, Risca**

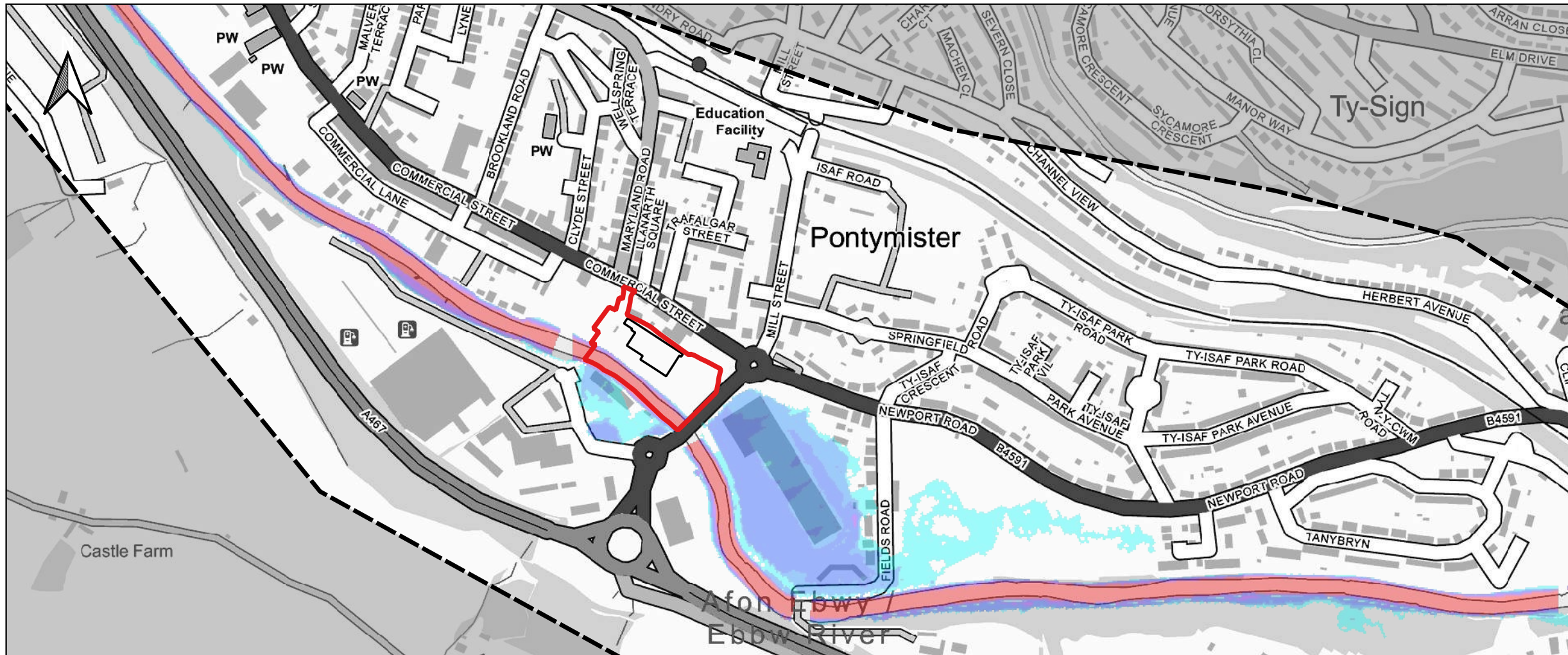
PLOT TITLE: Maximum Flood Depth  
 1% AEP Fluvial Event  
 Existing Scenario (EXG)  
 Defended Scenario  
 Normal Conditions

PLOT STATUS: FINAL DATE: 26-11-2024

DRAWN: MH	CHECKED: AA	APPROVED: LS	PLOT SCALE AT A3: 1:6000
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PLOT NAME: 15679\_EBBW\_Q100\_DEF\_EXG\_NC\_023\_d\_Max REVISION: -

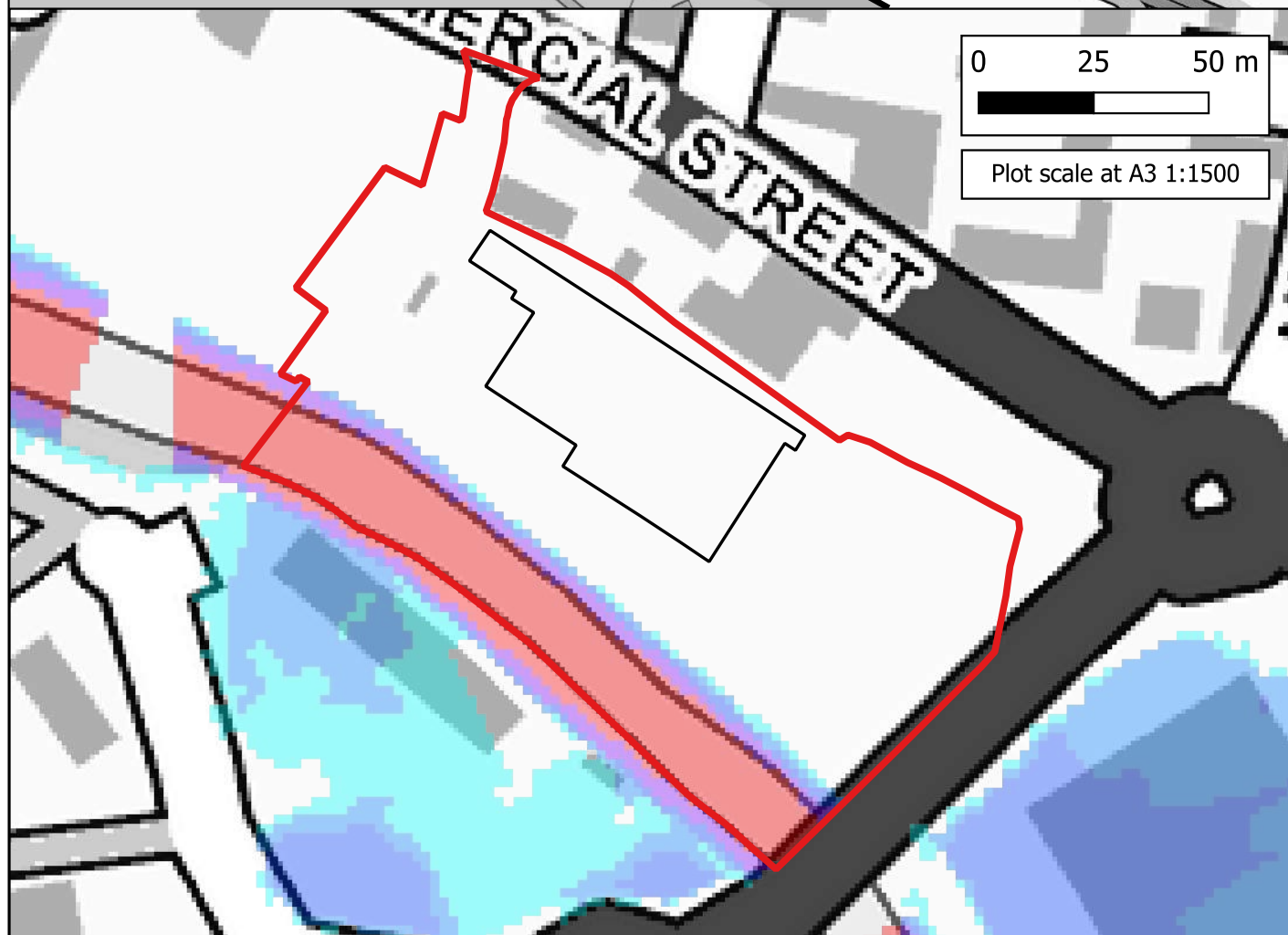




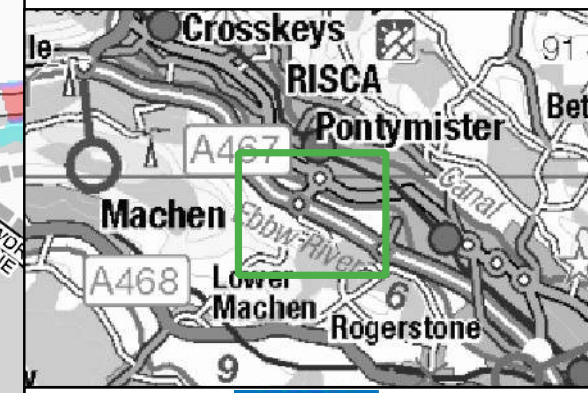
Notes:  
1) All dimensions are in metres and all levels in metres above Ordnance Datum unless stated otherwise.

**LEGEND**

- Site Boundary
- Proposed Store
- Maximum Flood Depth
- <= 0.3m
- 0.3m - 0.6m
- 0.6m - 1.2m
- 1.2m - 2.4m
- > 2.4m



0 25 50 m  
Plot scale at A3 1:1500



SCHEME:  
**Land at Pontymister, Risca**

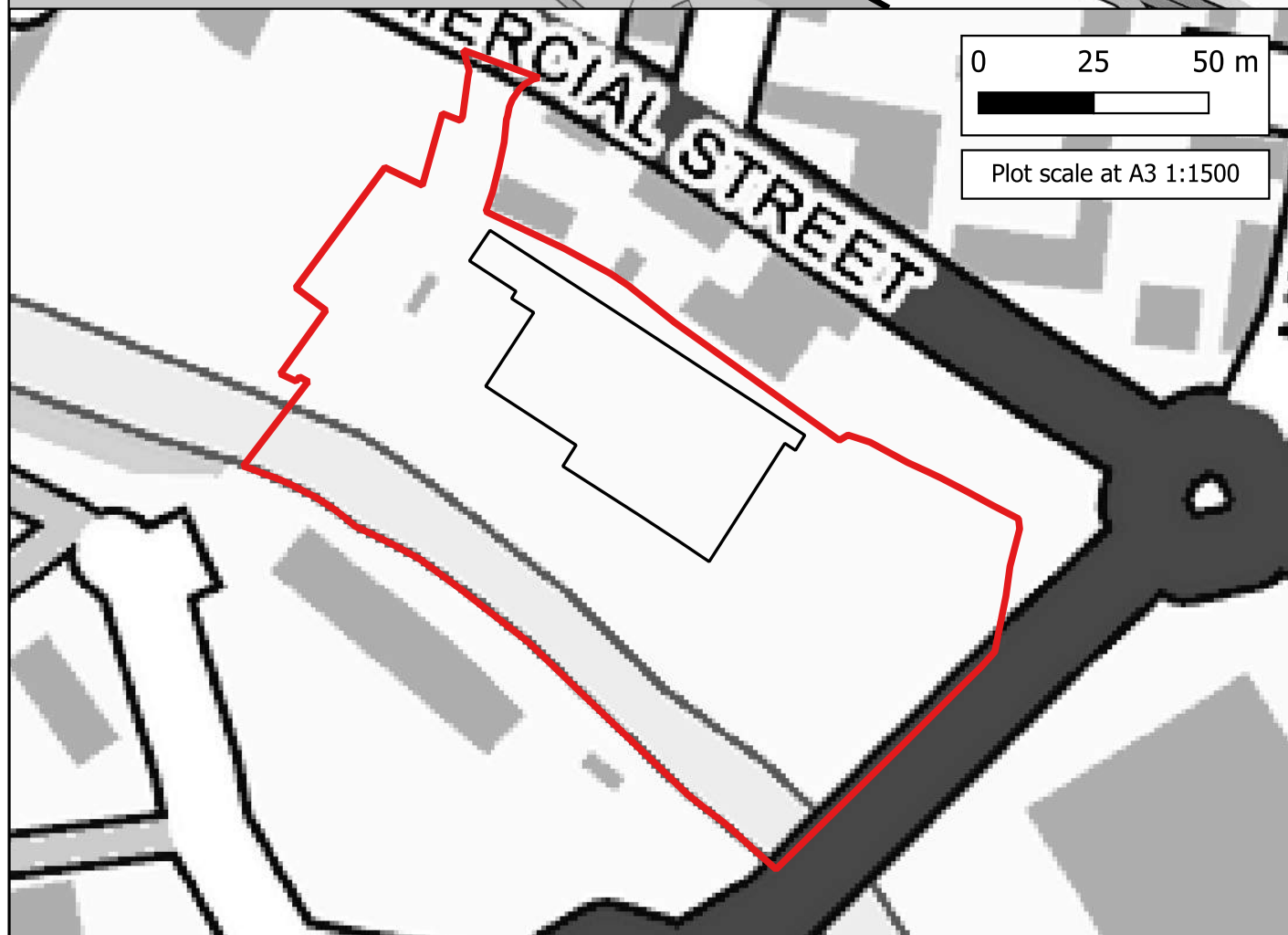
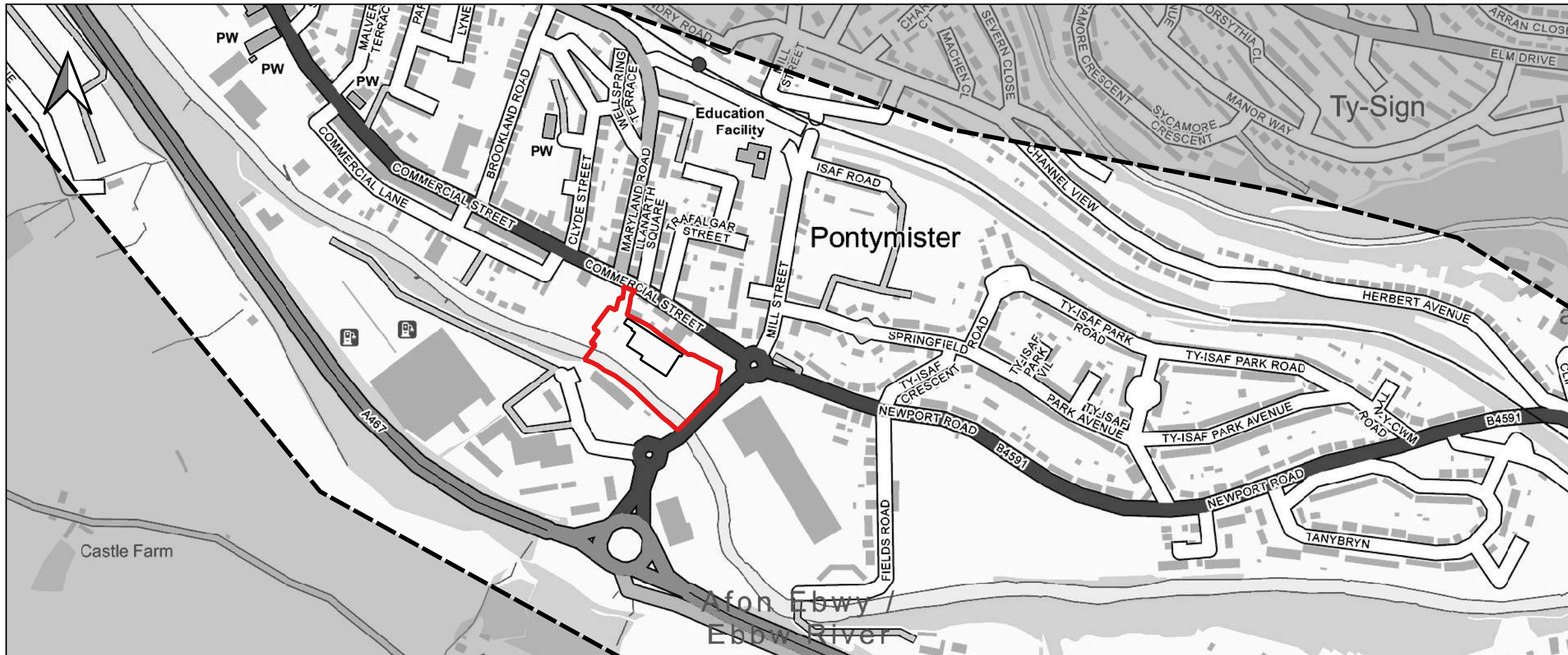
PLOT TITLE: Maximum Flood Depth  
1% AEP Fluvial Event  
Proposed Development Scenario (DEV)  
Defended Scenario  
Normal Conditions

PLOT STATUS: FINAL DATE: 26-11-2024

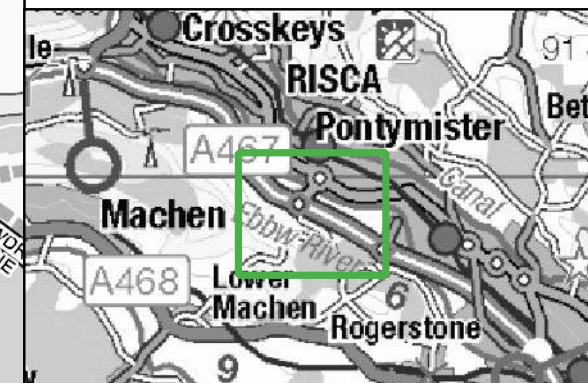
DRAWN: MH	CHECKED: AA	APPROVED: LS	PLOT SCALE AT A3: 1:6000
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PLOT NAME: 15679\_EBBW\_Q100\_DEF\_DEV\_NC\_027\_d\_Max REVISION: -





Notes:  
1) All dimensions are in metres and all levels in metres above Ordnance Datum unless stated otherwise.



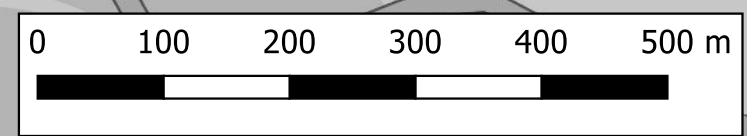
SCHEME:  
**Land at Pontymister, Risca**

PLOT TITLE: Maximum Flood Depth Difference  
1% AEP Fluvial Event  
DEV-EXG  
Defended Scenario  
Normal Conditions

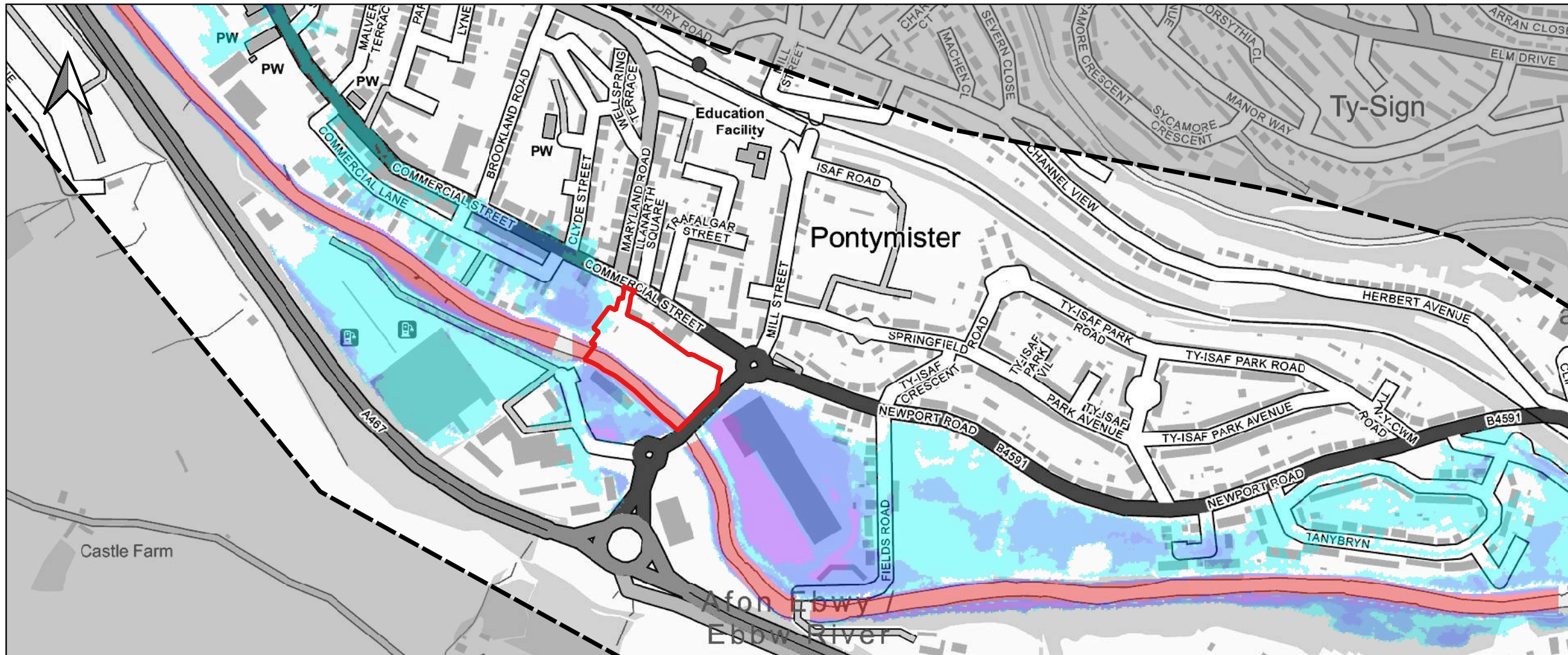
PLOT STATUS: FINAL DATE: 26-11-2024

DRAWN: MH	CHECKED: AA	APPROVED: LS	PLOT SCALE AT A3: 1:6000
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PLOT NAME: 15679\_EBBW\_Q100\_DEF\_DEV-EXG\_NC\_027\_d-Diff REVISION: -



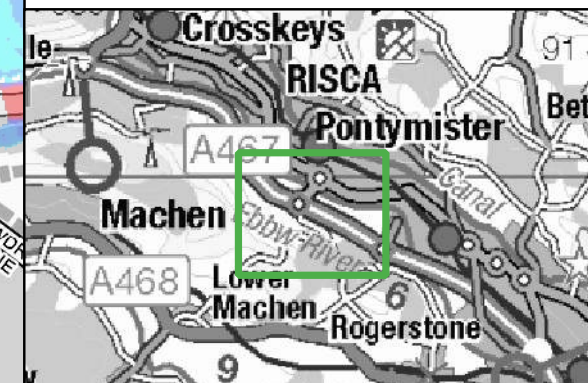
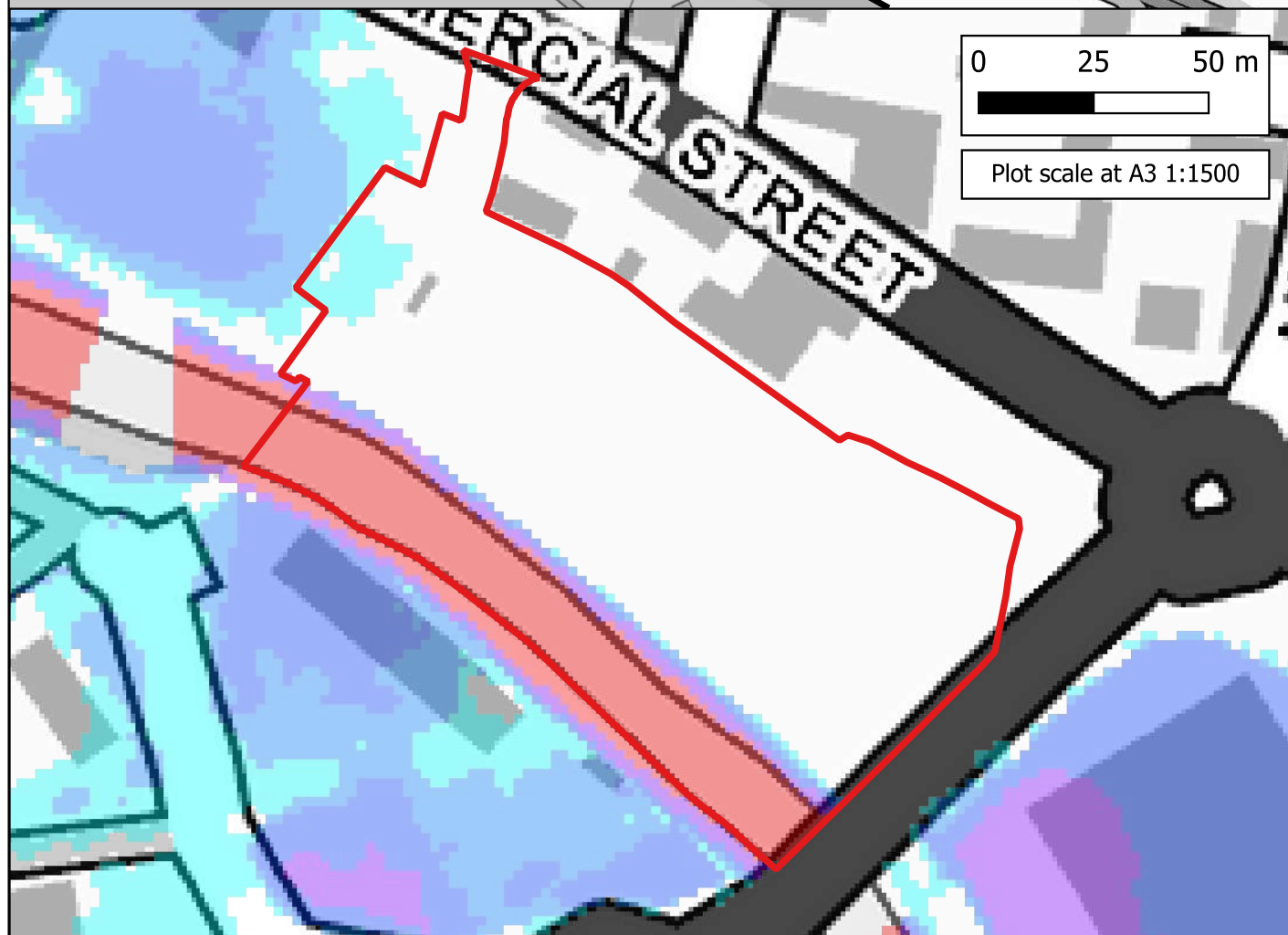




Notes:  
1) All dimensions are in metres and all levels in metres above Ordnance Datum unless stated otherwise.

**LEGEND**

- Site Boundary
- Maximum Flood Depth
- <= 0.3m
- 0.3m - 0.6m
- 0.6m - 1.2m
- 1.2m - 2.4m
- > 2.4m



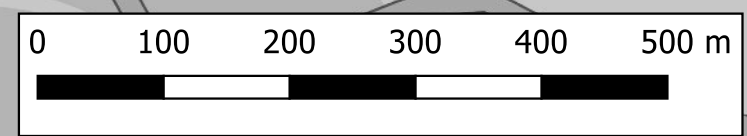
SCHEME:  
**Land at Pontymister, Risca**

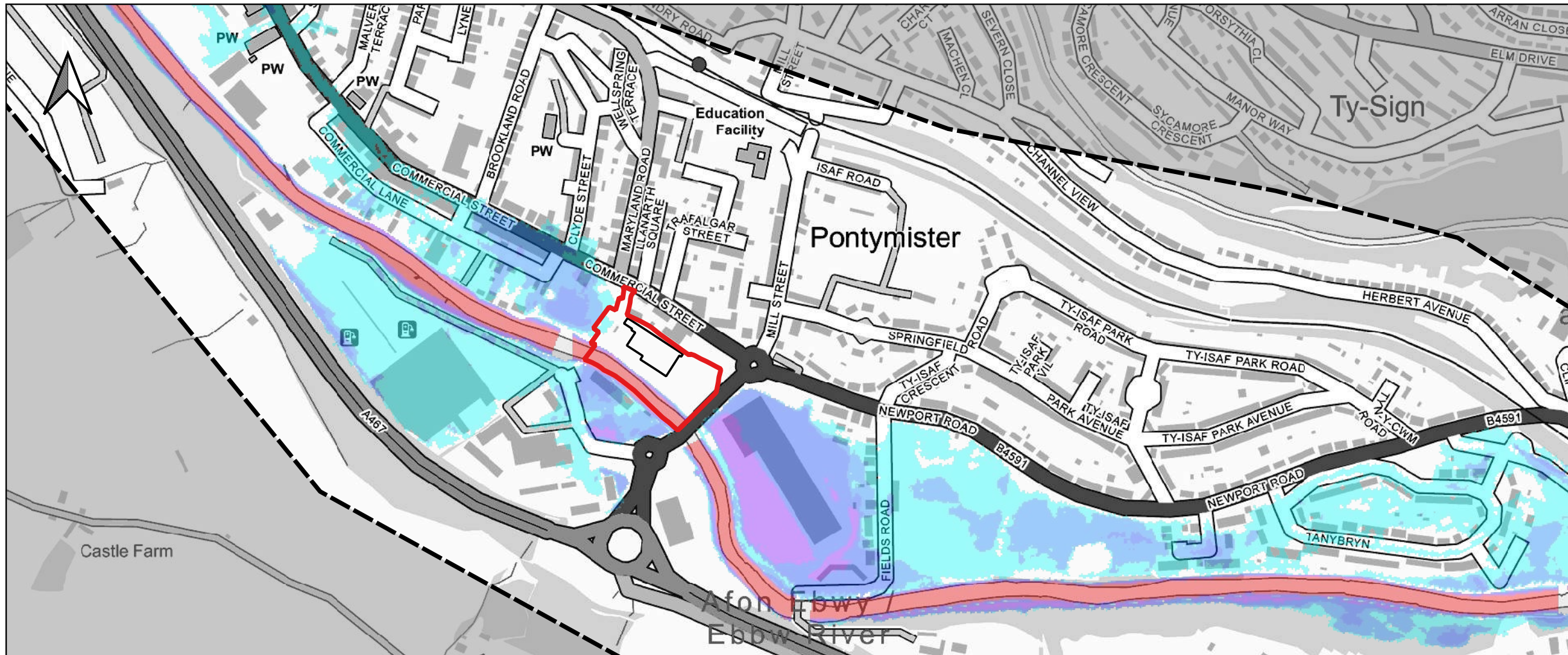
PLOT TITLE: Maximum Flood Depth  
1% AEP Plus 25% Climate Change Fluvial Event Existing Scenario (EXG) Defended Scenario Normal Conditions

PLOT STATUS: FINAL DATE: 26-11-2024

DRAWN: MH	CHECKED: AA	APPROVED: LS	PLOT SCALE AT A3: 1:6000
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PLOT NAME: 15679_EBBW_Q100CC25_DEF_EXG_NC_023_d_Max	REVISION: -
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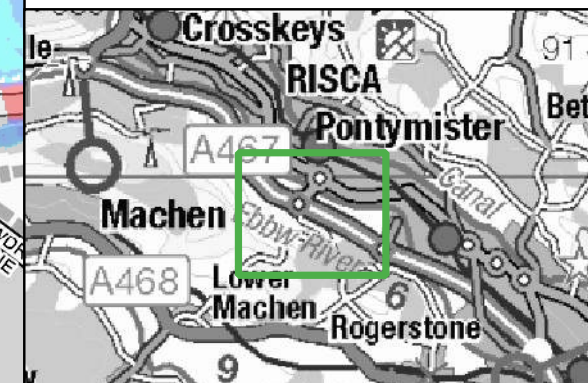
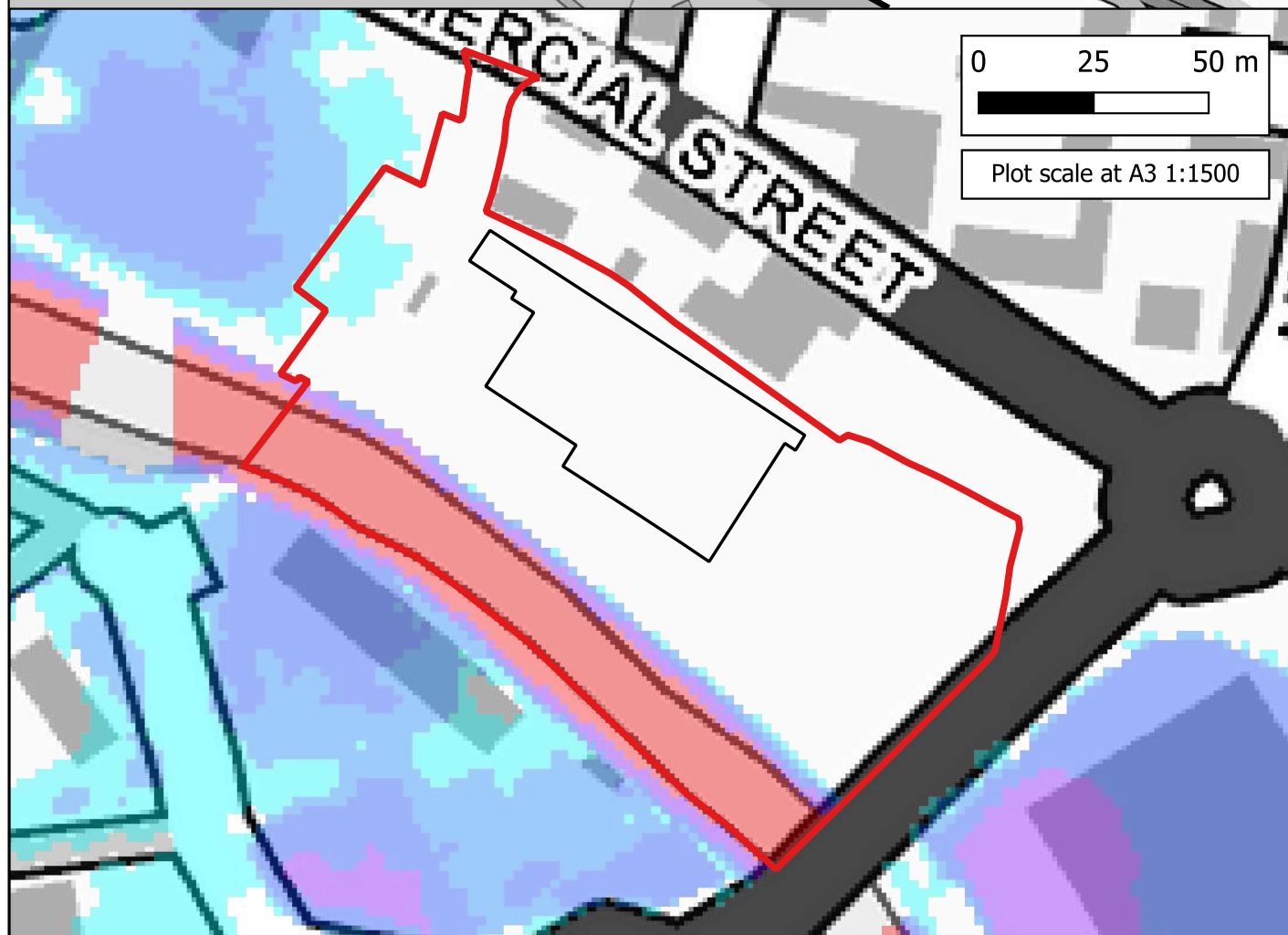




Notes:  
1) All dimensions are in metres and all levels in metres above Ordnance Datum unless stated otherwise.

**LEGEND**

- Site Boundary
- Proposed Store
- Maximum Flood Depth
- <= 0.3m
- 0.3m - 0.6m
- 0.6m - 1.2m
- 1.2m - 2.4m
- > 2.4m



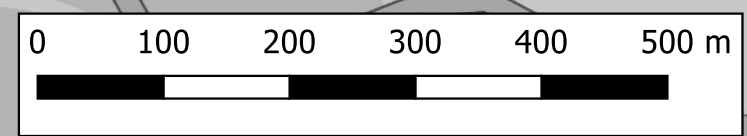
SCHEME:  
**Land at Pontymister, Risca**

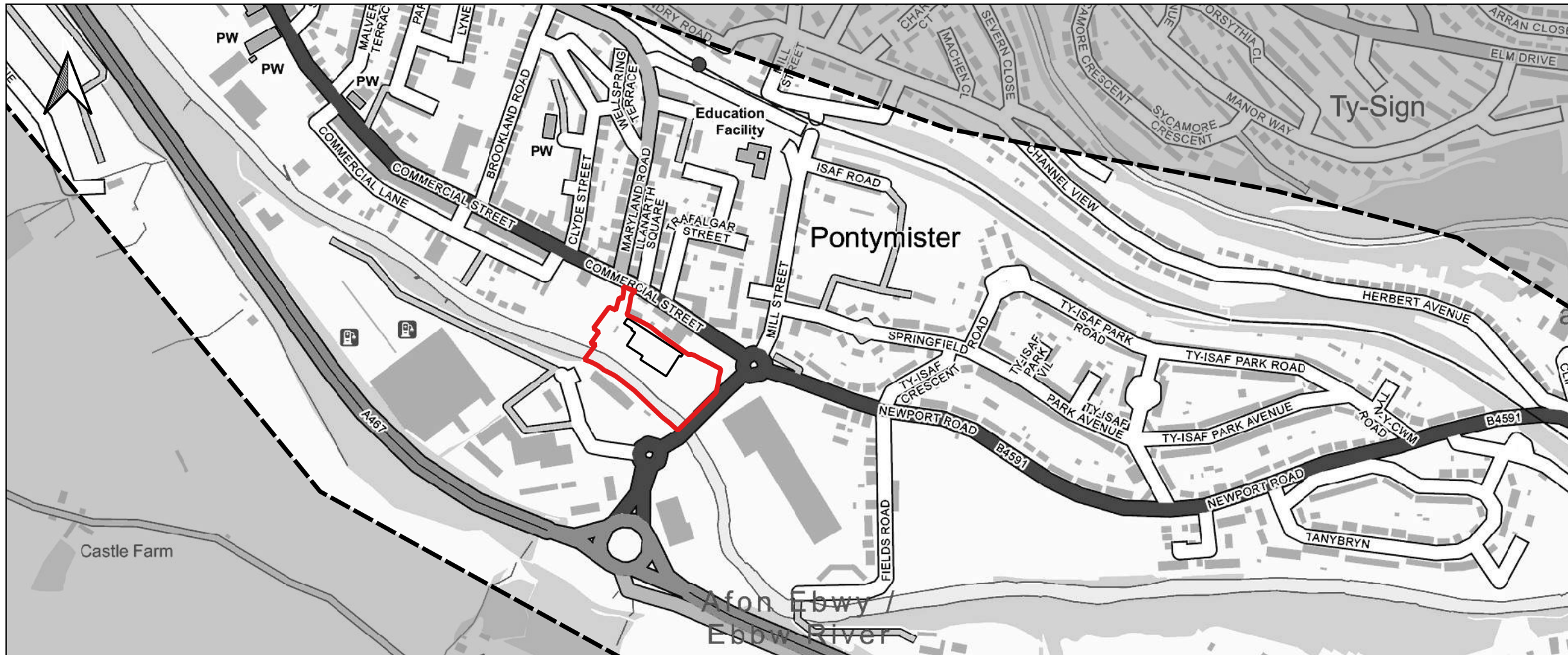
PLOT TITLE: Maximum Flood Depth  
1% AEP Plus 25% Climate Change Fluvial Event  
Proposed Development Scenario (DEV)  
Defended Scenario  
Normal Conditions

PLOT STATUS: FINAL DATE: 26-11-2024

DRAWN: MH	CHECKED: AA	APPROVED: LS	PLOT SCALE AT A3: 1:6000
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PLOT NAME: 15679_EBBW_Q100CC25_DEF_DEV_NC_027_d_Max	REVISION: -
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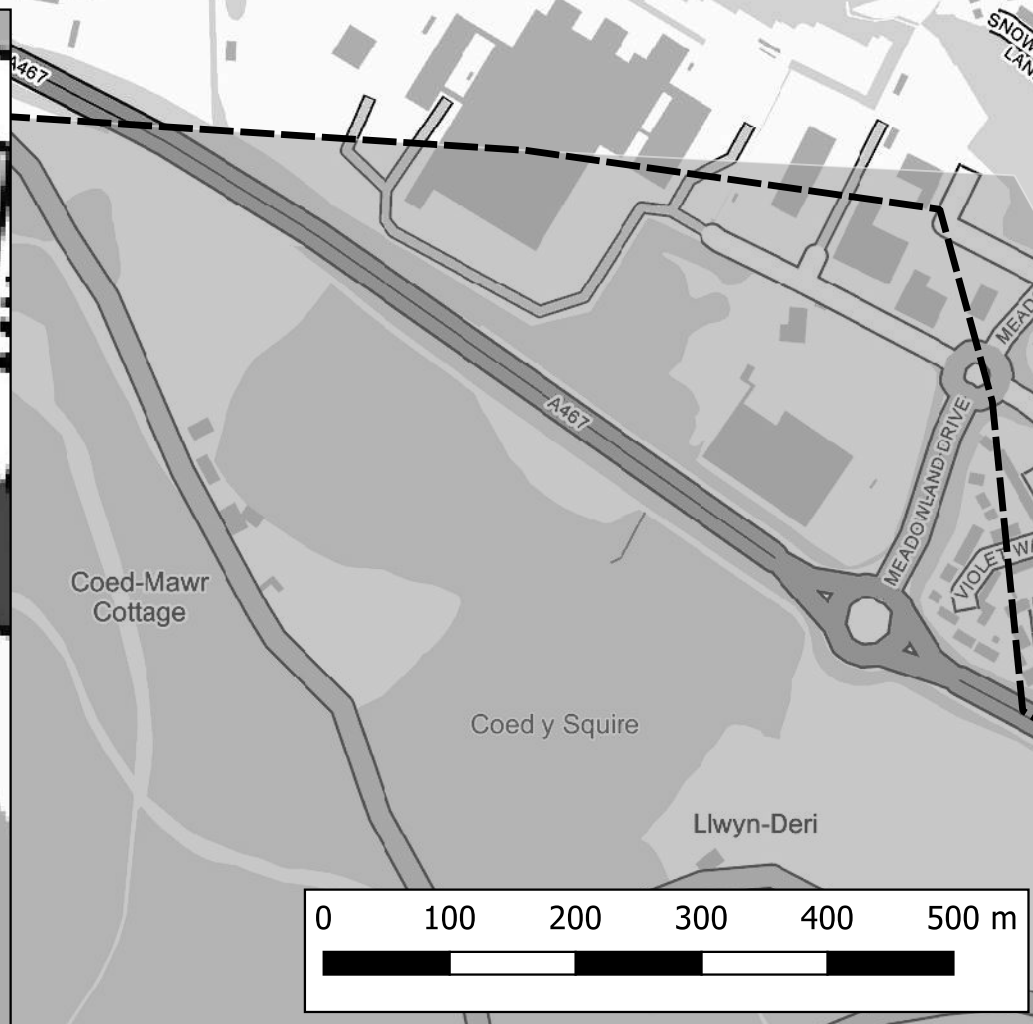
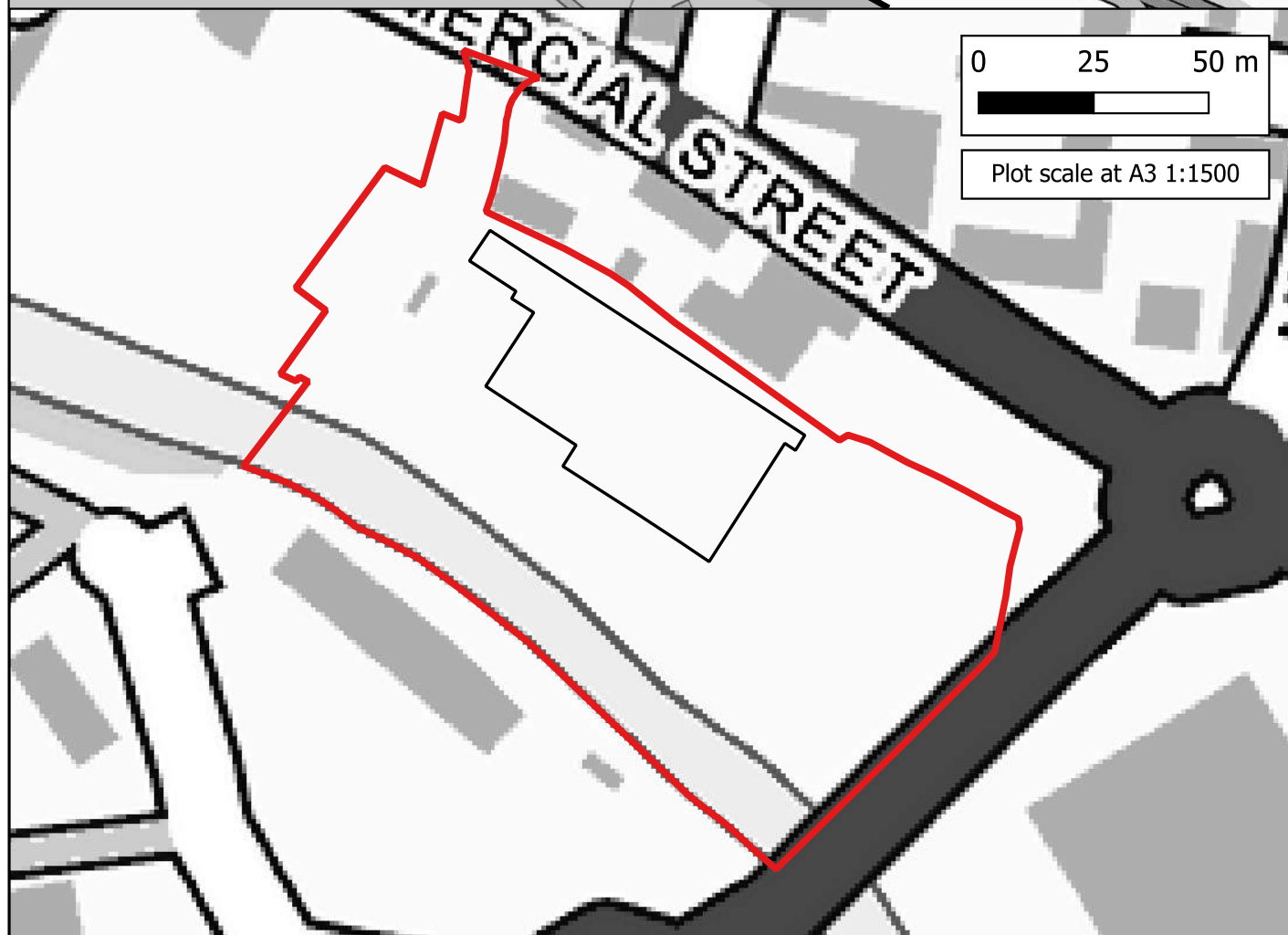
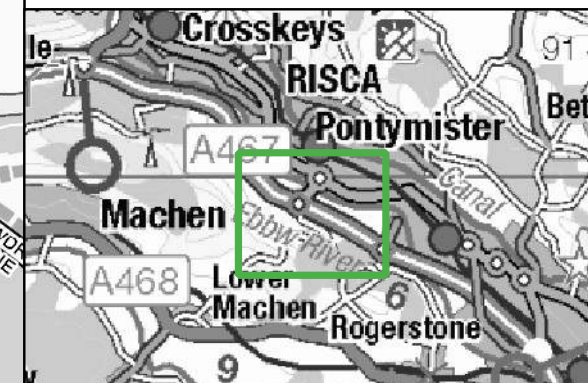
Notes:  
1) All dimensions are in metres and all levels in metres above Ordnance Datum unless stated otherwise.

**LEGEND**



- Site Boundary
- Proposed Store

Maximum Flood Depth Difference

- > -100mm
- 50mm to -100mm
- 5mm to -50mm
- No Change (+/- 5mm)
- +5mm to +50mm
- +50mm to +100mm
- > +100mm



CLIENT:

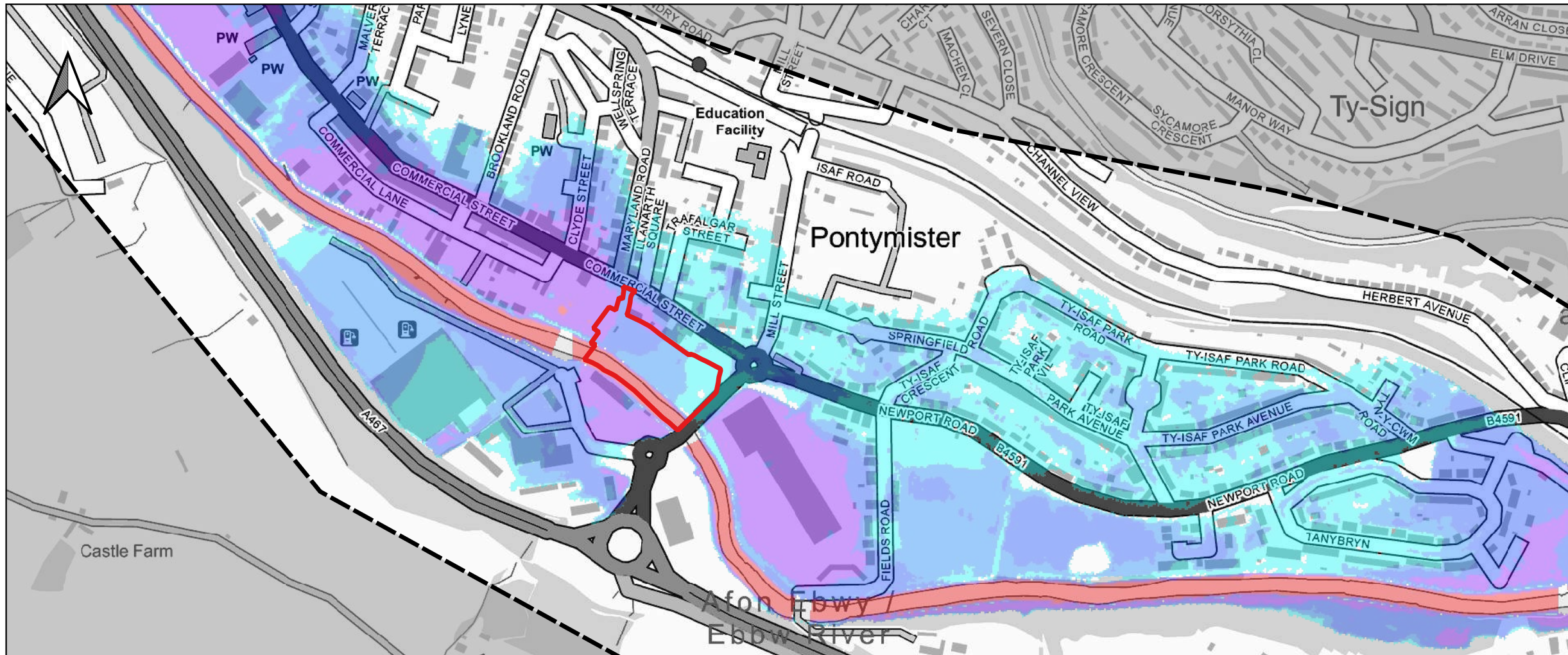
www.waterco.co.uk

SCHEME:

**Land at Pontymister, Risca**

PLOT TITLE: Maximum Flood Depth Difference  
1% AEP Plus 25% Climate Change Fluvial Event  
DEV-EXG  
Defended Scenario  
Normal Conditions

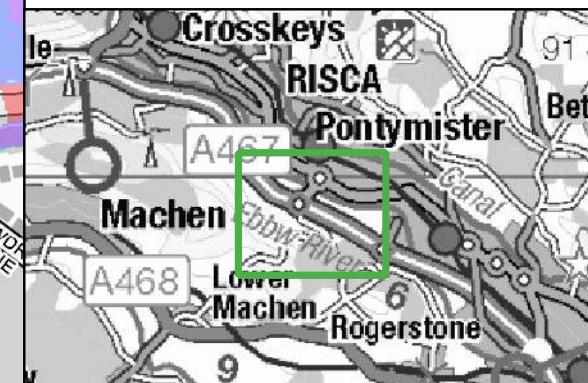
PLOT STATUS: FINAL	DATE: 26-11-2024		
DRAWN: MH	CHECKED: AA	APPROVED: LS	PLOT SCALE AT A3: 1:6000
PLOT NAME: 15679_EBBW_Q100CC25_DEF_DEV-EXG_NC_027_d-Diff			REVISION: -



Notes:  
 1) All dimensions are in metres and all levels in metres above Ordnance Datum unless stated otherwise.

**LEGEND**

- Site Boundary
- Maximum Flood Depth
- <= 0.3m
- 0.3m - 0.6m
- 0.6m - 1.2m
- 1.2m - 2.4m
- > 2.4m



CLIENT:

www.waterco.co.uk

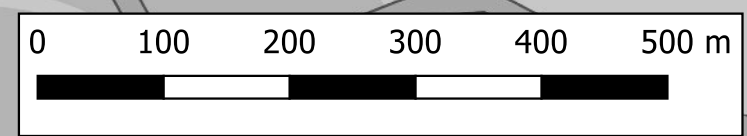
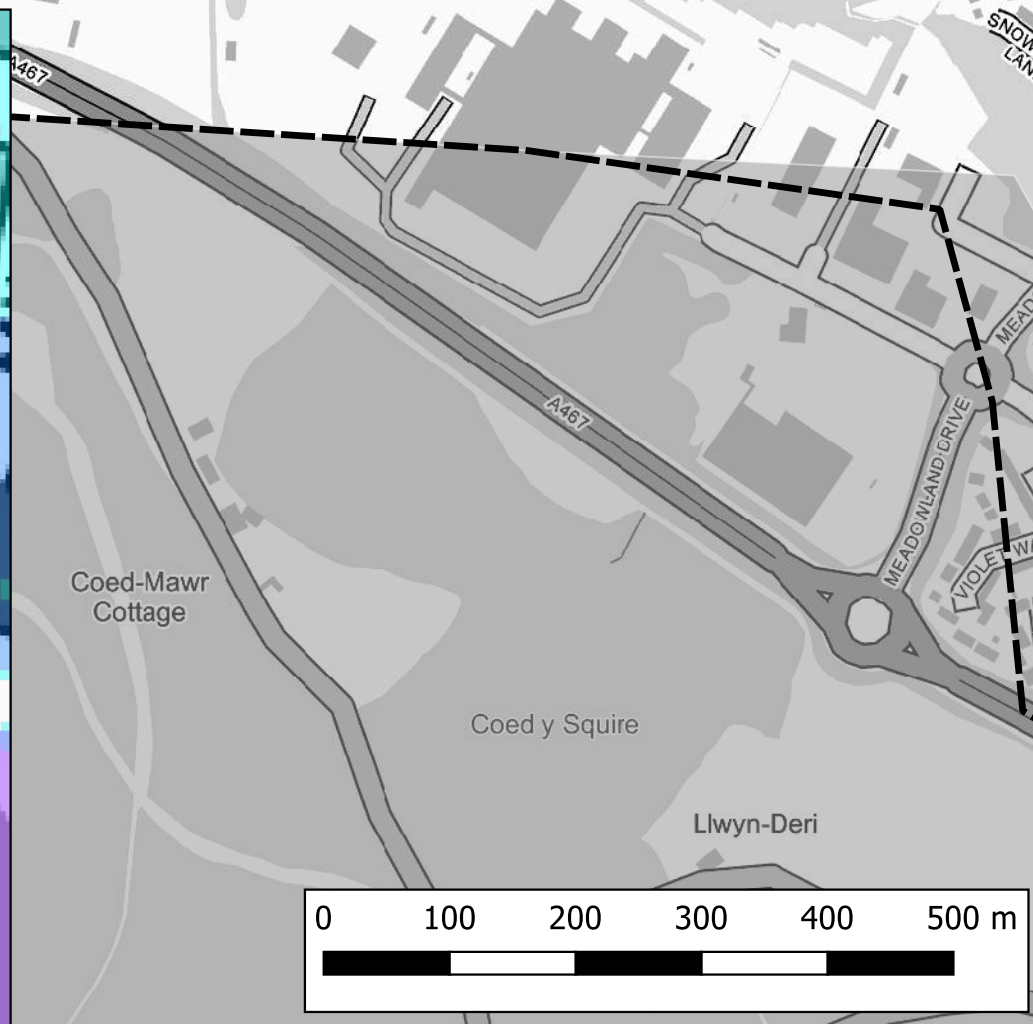
SCHEME:  
**Land at Pontymister, Risca**

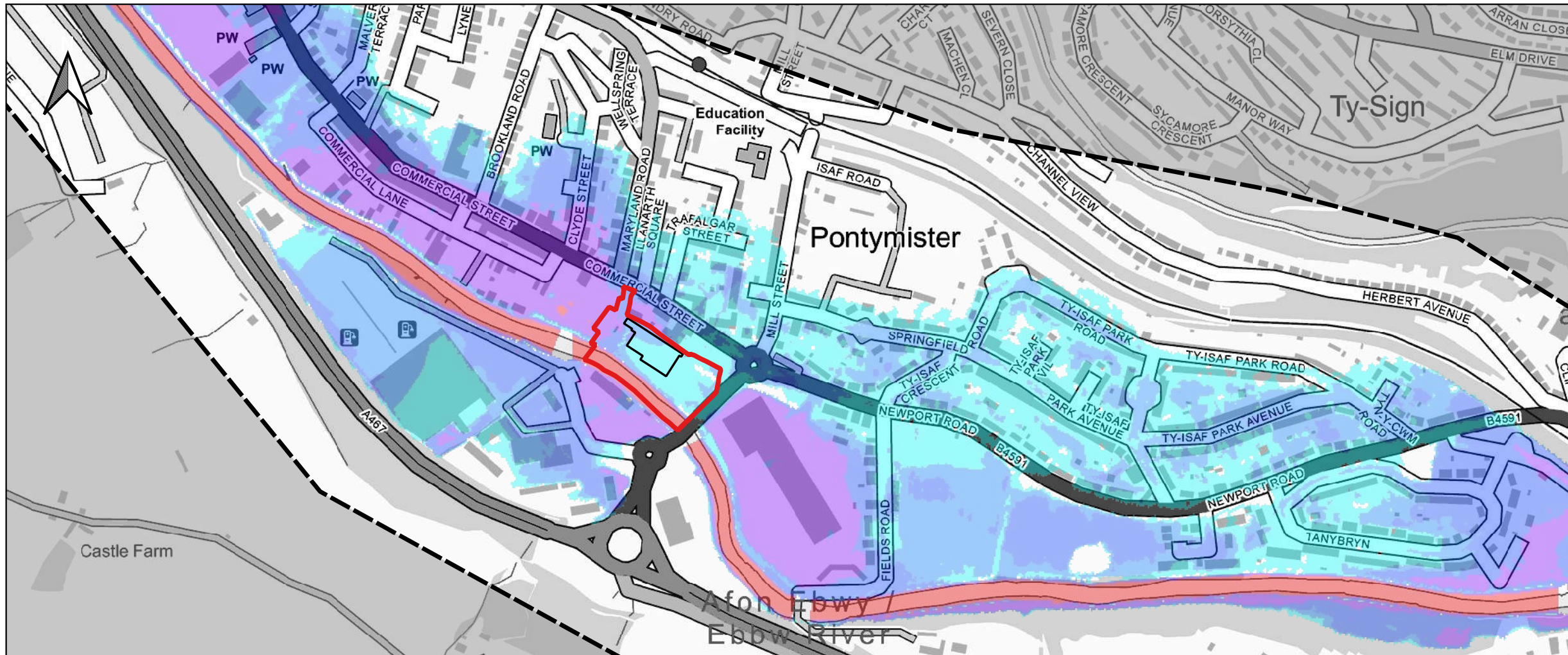
PLOT TITLE: Maximum Flood Depth  
 1% AEP Plus 70% Climate Change Fluvial Event  
 Existing Scenario (EXG)  
 Defended Scenario  
 Normal Conditions

PLOT STATUS: FINAL  
 DATE: 26-11-2024

DRAWN: MH	CHECKED: AA	APPROVED: LS	PLOT SCALE AT A3: 1:6000
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PLOT NAME: 15679\_EBBW\_Q100CC70\_DEF\_EXG\_NC\_023\_d\_Max  
 REVISION: -

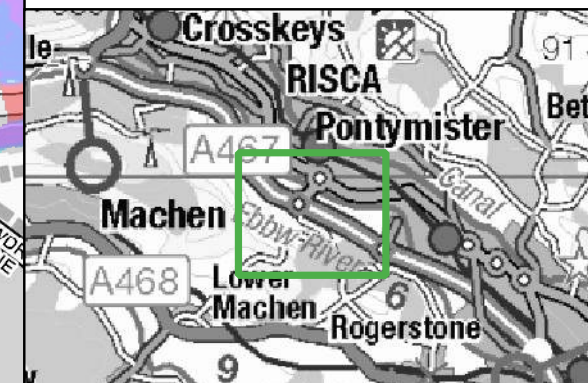
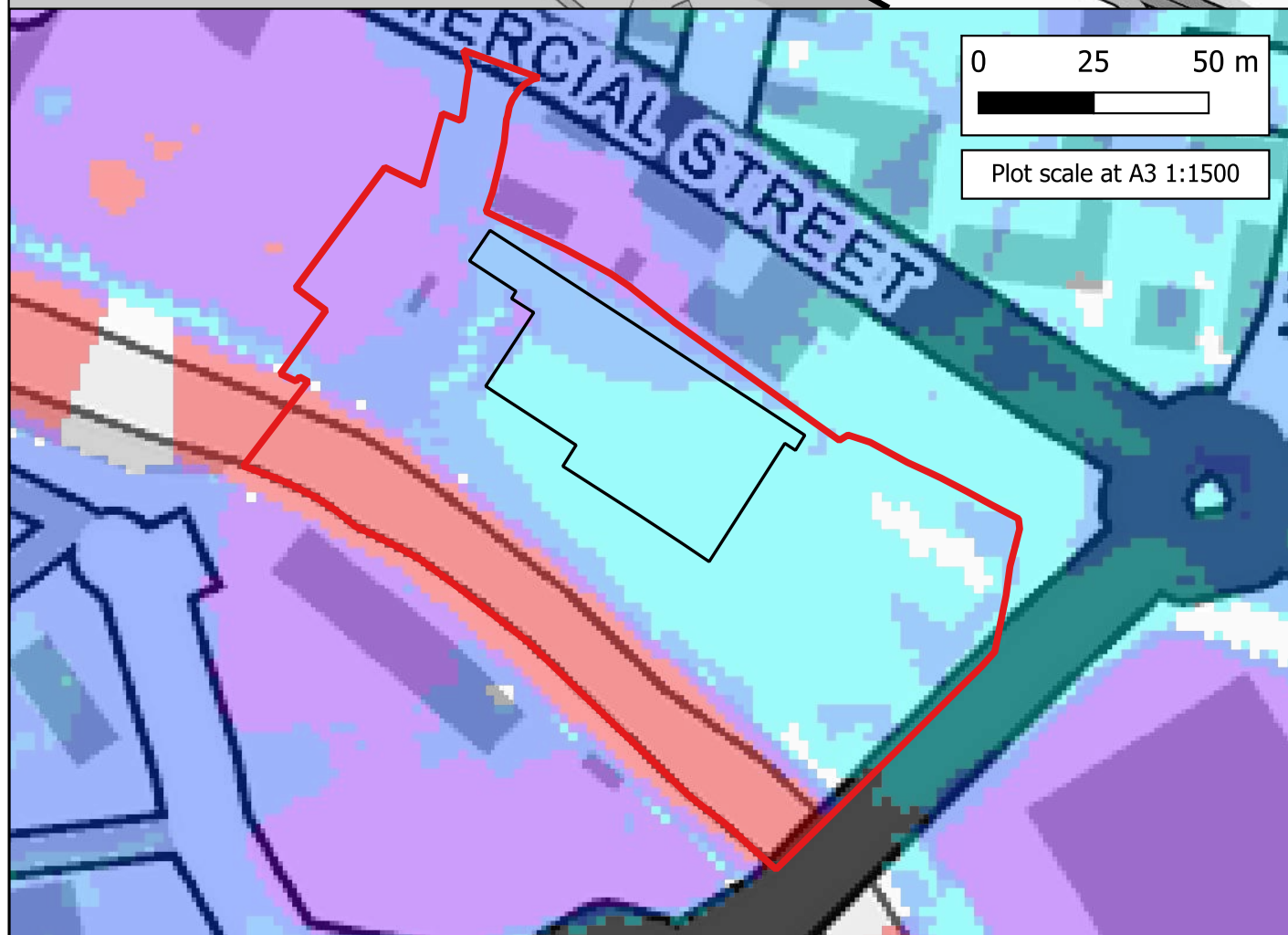




Notes:  
1) All dimensions are in metres and all levels in metres above Ordnance Datum unless stated otherwise.

**LEGEND**

- Site Boundary
- Proposed Store
- Maximum Flood Depth
  - <= 0.3m
  - 0.3m - 0.6m
  - 0.6m - 1.2m
  - 1.2m - 2.4m
  - > 2.4m



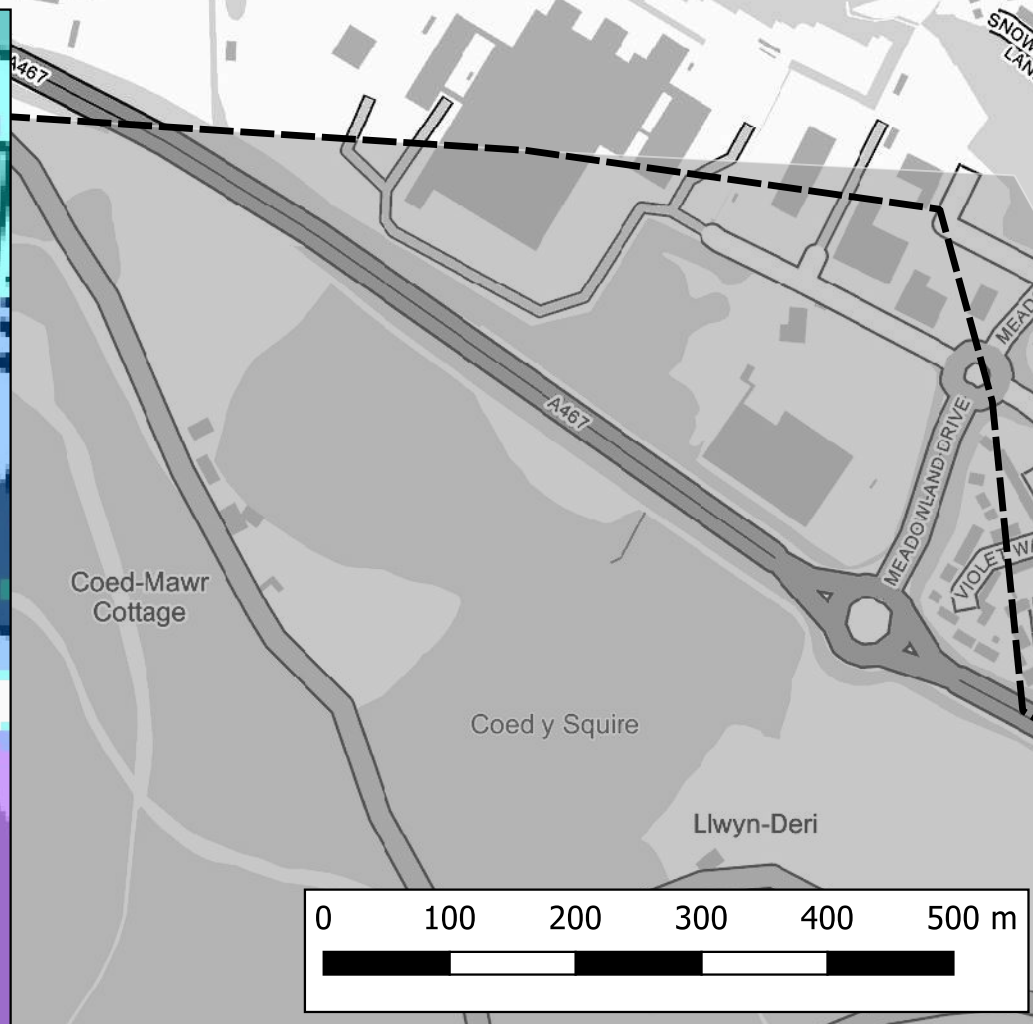
SCHEME:  
**Land at Pontymister, Risca**

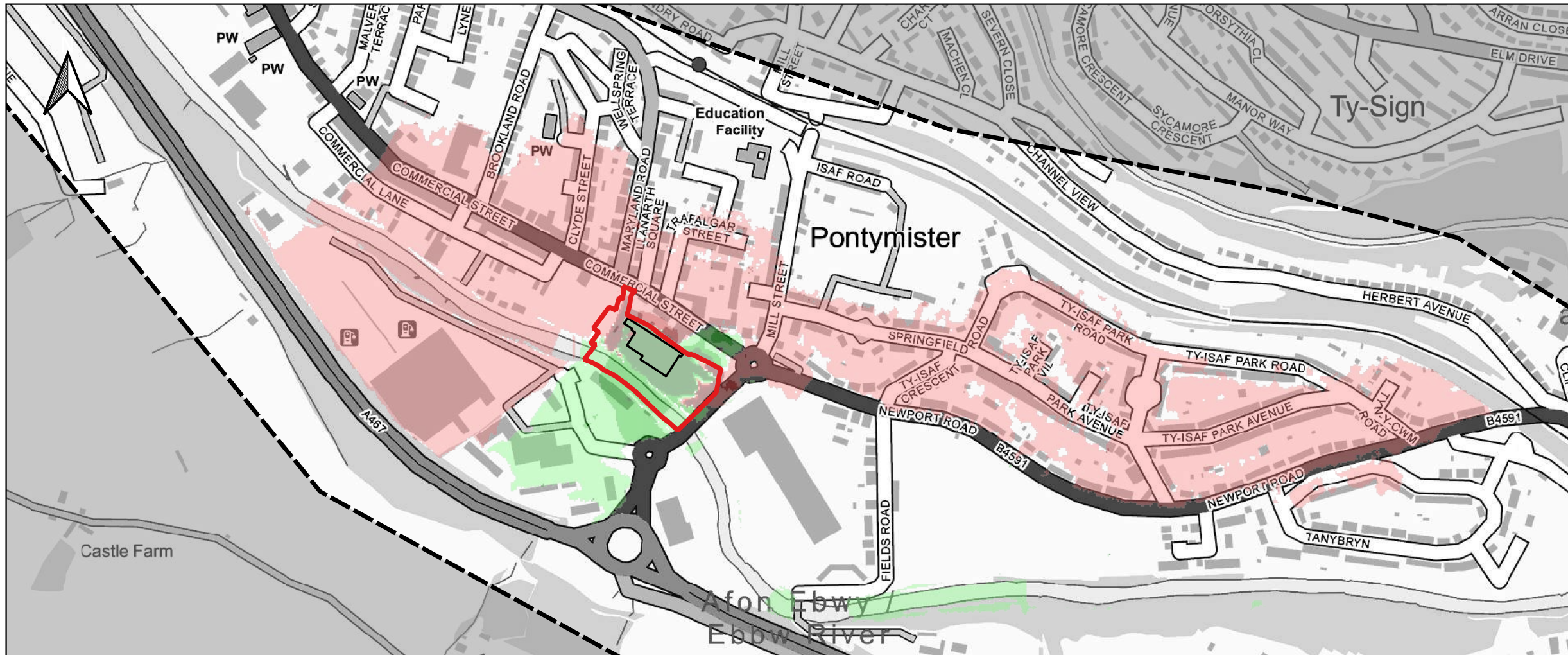
PLOT TITLE: Maximum Flood Depth  
1% AEP Plus 70% Climate Change Fluvial Event  
Proposed Development Scenario (DEV)  
Defended Scenario  
Normal Conditions

PLOT STATUS: FINAL DATE: 26-11-2024

DRAWN: MH	CHECKED: AA	APPROVED: LS	PLOT SCALE AT A3: 1:6000
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PLOT NAME: 15679_EBBW_Q100CC70_DEF_DEV_NC_027_d_Max	REVISION: -
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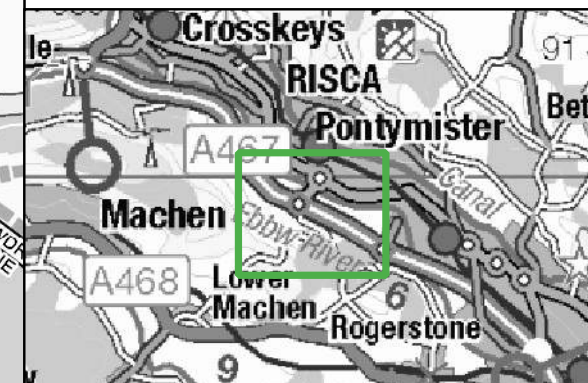
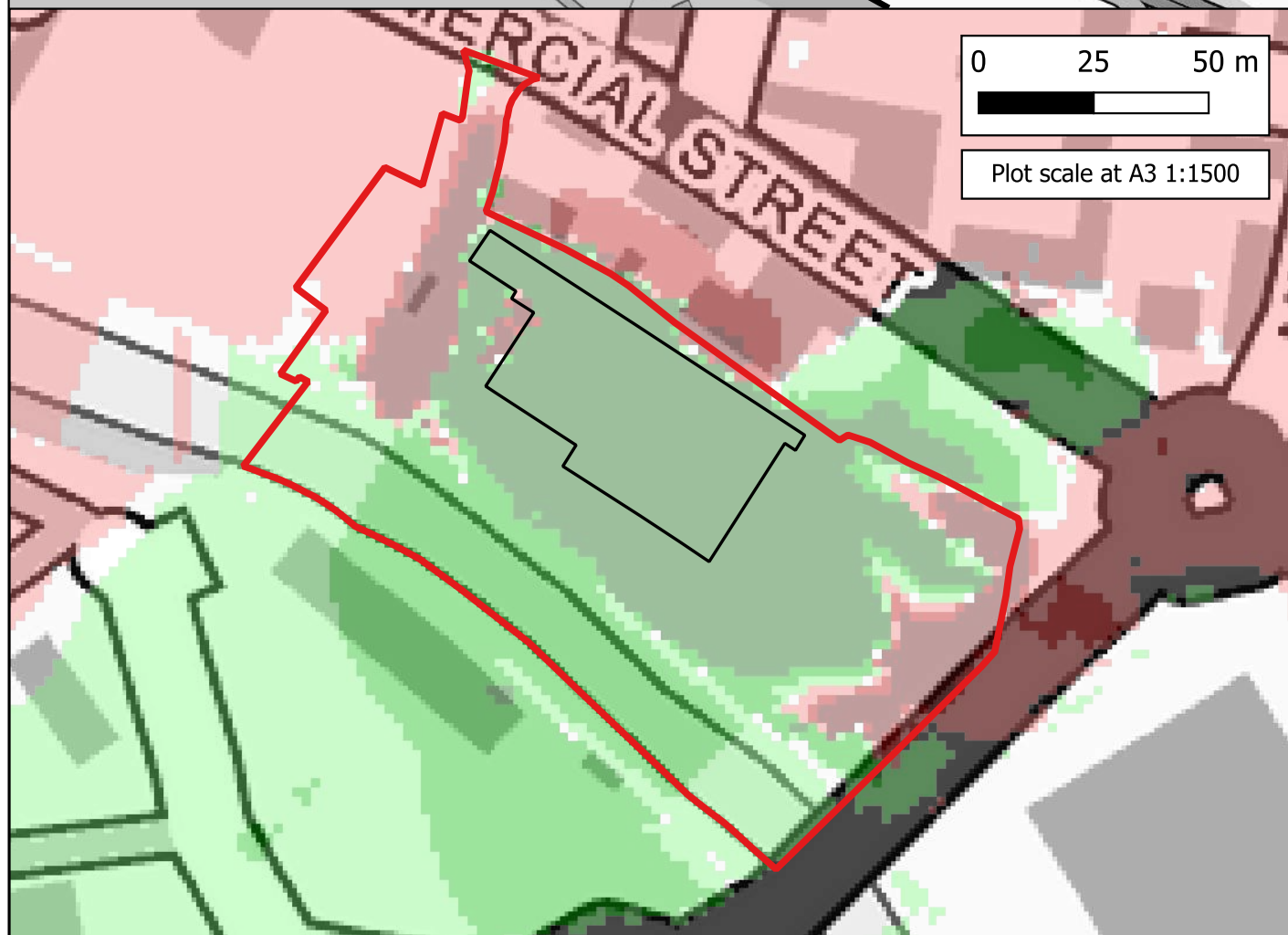




Notes:  
1) All dimensions are in metres and all levels in metres above Ordnance Datum unless stated otherwise.

**LEGEND**

- Site Boundary
- Proposed Store
- Maximum Flood Depth
- > -100mm
- 50mm to -100mm
- 5mm to -50mm
- No Change (+/- 5mm)
- +5mm to +50mm
- +50mm to +100mm
- > +100mm



CLIENT:

www.waterco.co.uk

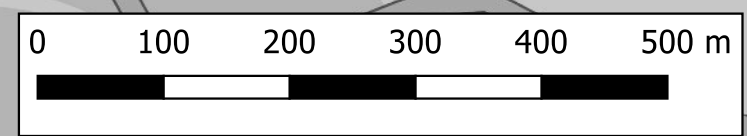
SCHEME:  
**Land at Pontymister, Risca**

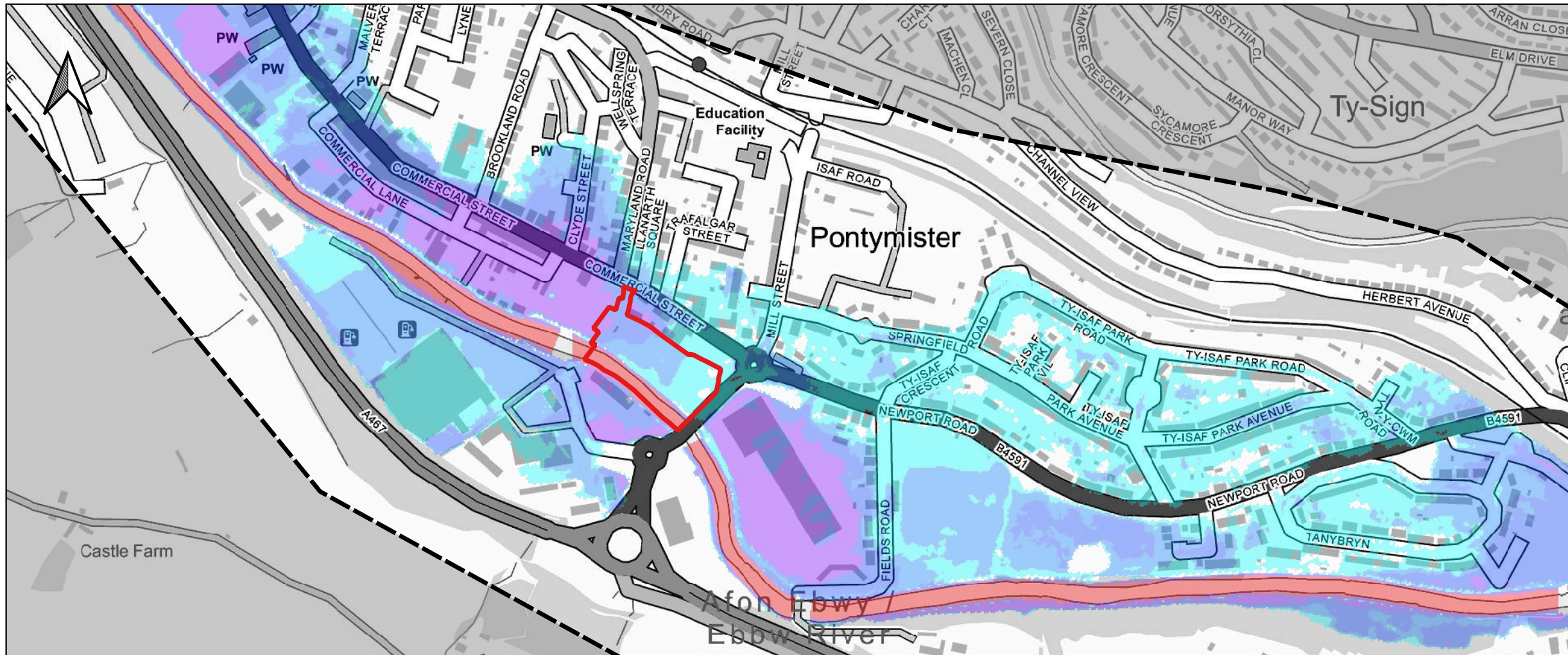
PLOT TITLE: Maximum Flood Depth Difference  
1% AEP Plus 70% Climate Change Fluvial Event  
DEV-EXG  
Defended Scenario  
Normal Conditions

PLOT STATUS: FINAL  
DATE: 26-11-2024

DRAWN: MH	CHECKED: AA	APPROVED: LS	PLOT SCALE AT A3: 1:6000
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PLOT NAME: 15679_EBBW_Q100CC70_DEF_DEV-EXG_NC_027_d-Diff	REVISION: -
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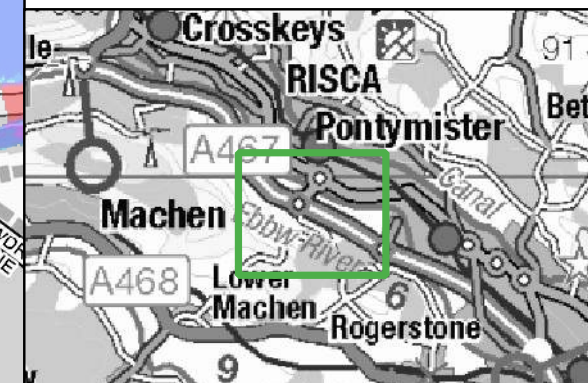
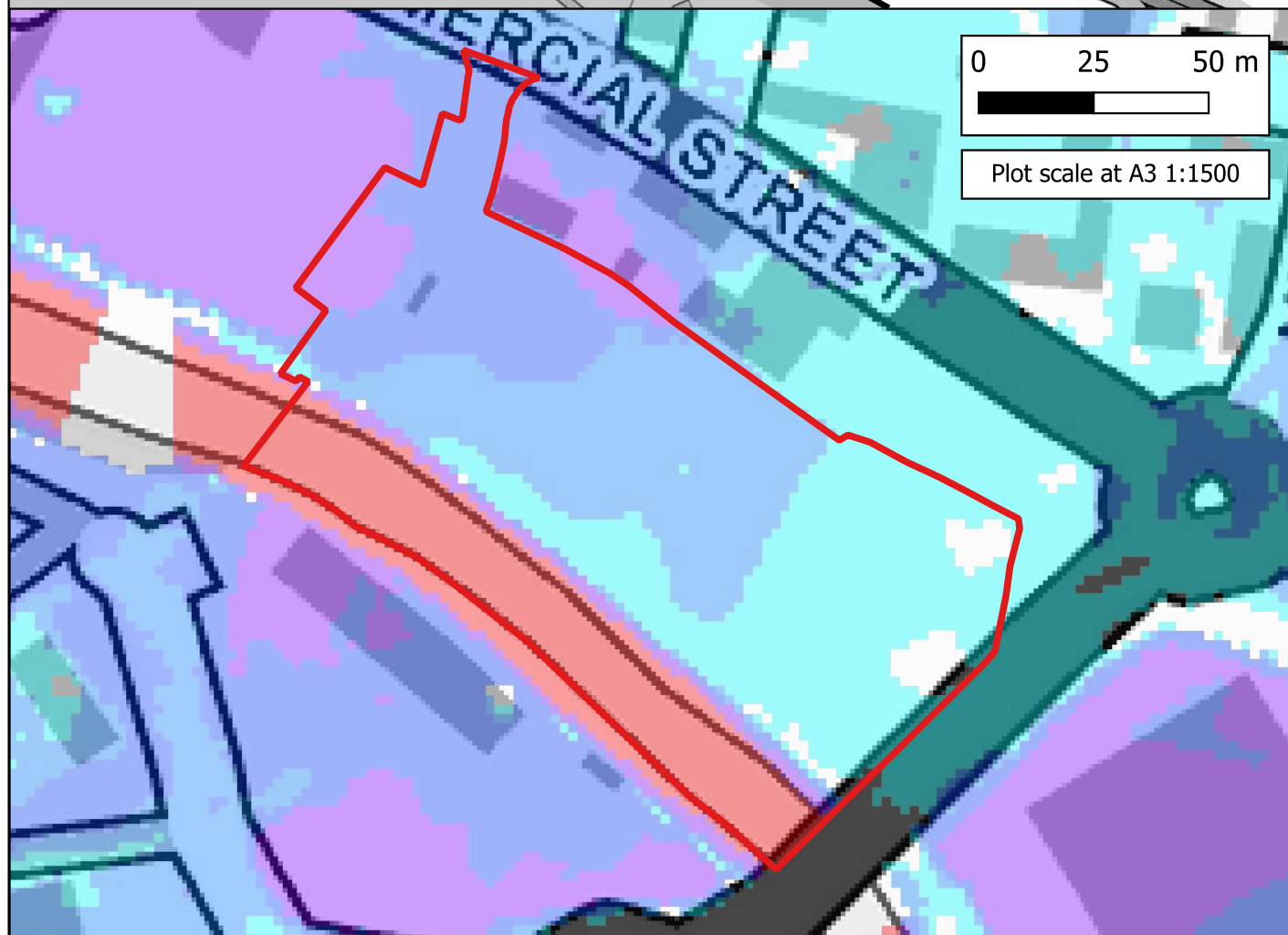




Notes:  
 1) All dimensions are in metres and all levels in metres above Ordnance Datum unless stated otherwise.

**LEGEND**

- Site Boundary
- Maximum Flood Depth
- <= 0.3m
- 0.3m - 0.6m
- 0.6m - 1.2m
- 1.2m - 2.4m
- > 2.4m



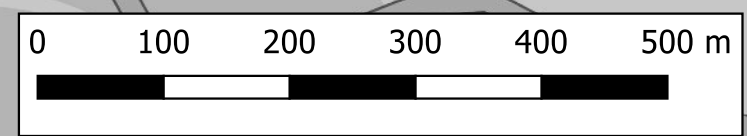
SCHEME:  
**Land at Pontymister, Risca**

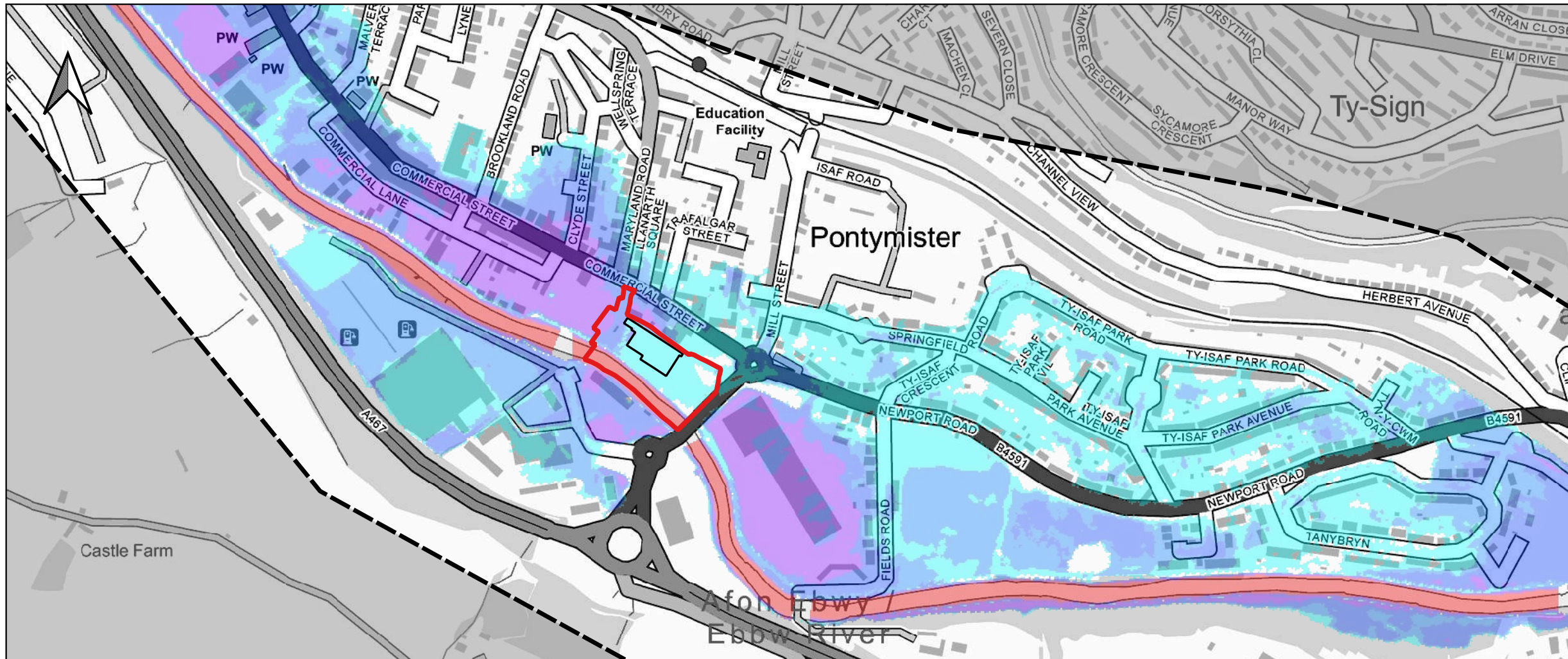
PLOT TITLE: Maximum Flood Depth  
 0.1% AEP Fluvial Event  
 Existing Scenario (EXG)  
 Defended Scenario  
 Normal Conditions

PLOT STATUS: FINAL DATE: 26-11-2024

DRAWN: MH	CHECKED: AA	APPROVED: LS	PLOT SCALE AT A3: 1:6000
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PLOT NAME: 15679\_EBBW\_Q1000\_DEF\_EXG\_NC\_023\_d\_Max REVISION: -

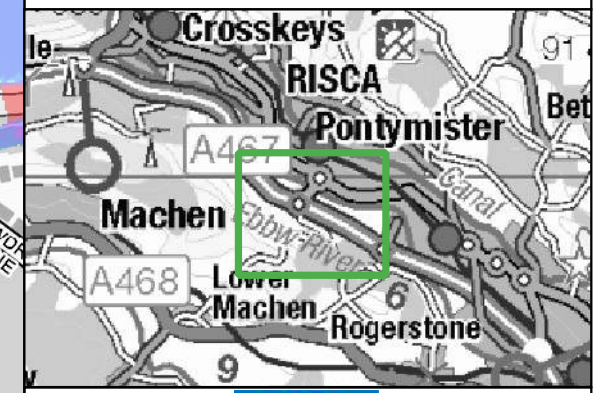




Notes:  
1) All dimensions are in metres and all levels in metres above Ordnance Datum unless stated otherwise.

**LEGEND**

- Site Boundary
- Proposed Store
- Maximum Flood Depth
  - <= 0.3m
  - 0.3m - 0.6m
  - 0.6m - 1.2m
  - 1.2m - 2.4m
  - > 2.4m



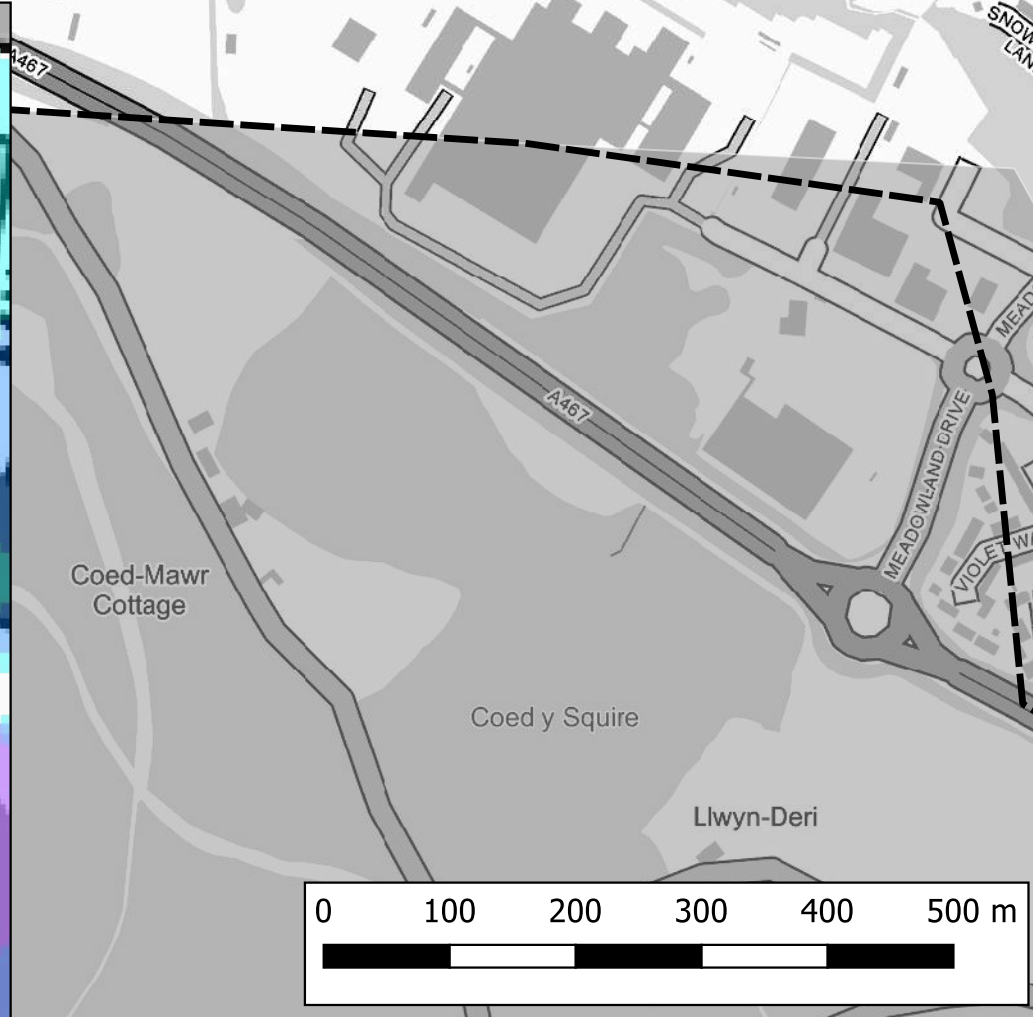
SCHEME:  
**Land at Pontymister, Risca**

PLOT TITLE: Maximum Flood Depth  
0.1% AEP Fluvial Event  
Proposed Development Scenario (DEV)  
Defended Scenario  
Normal Conditions

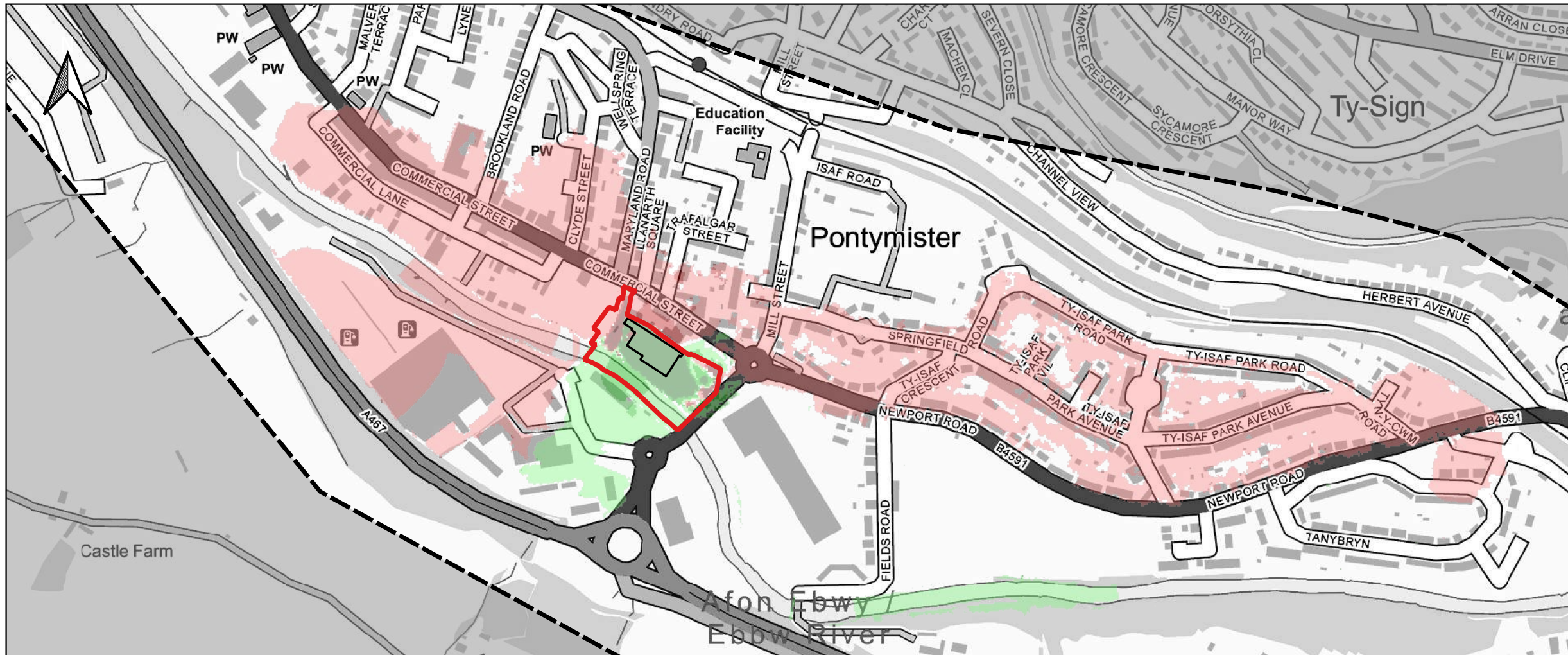
PLOT STATUS: FINAL DATE: 26-11-2024

DRAWN: MH	CHECKED: AA	APPROVED: LS	PLOT SCALE AT A3: 1:6000
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PLOT NAME: 15679\_EBBW\_Q1000\_DEF\_DEV\_NC\_027\_d\_Max REVISION: -







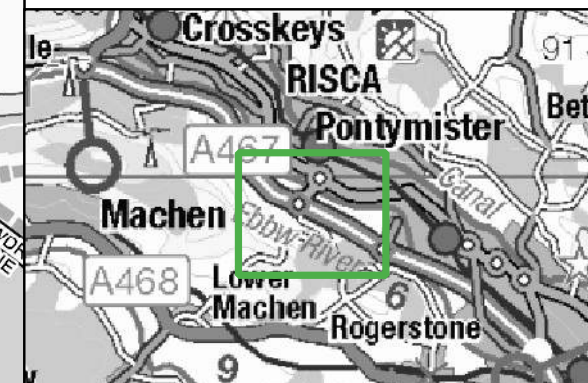
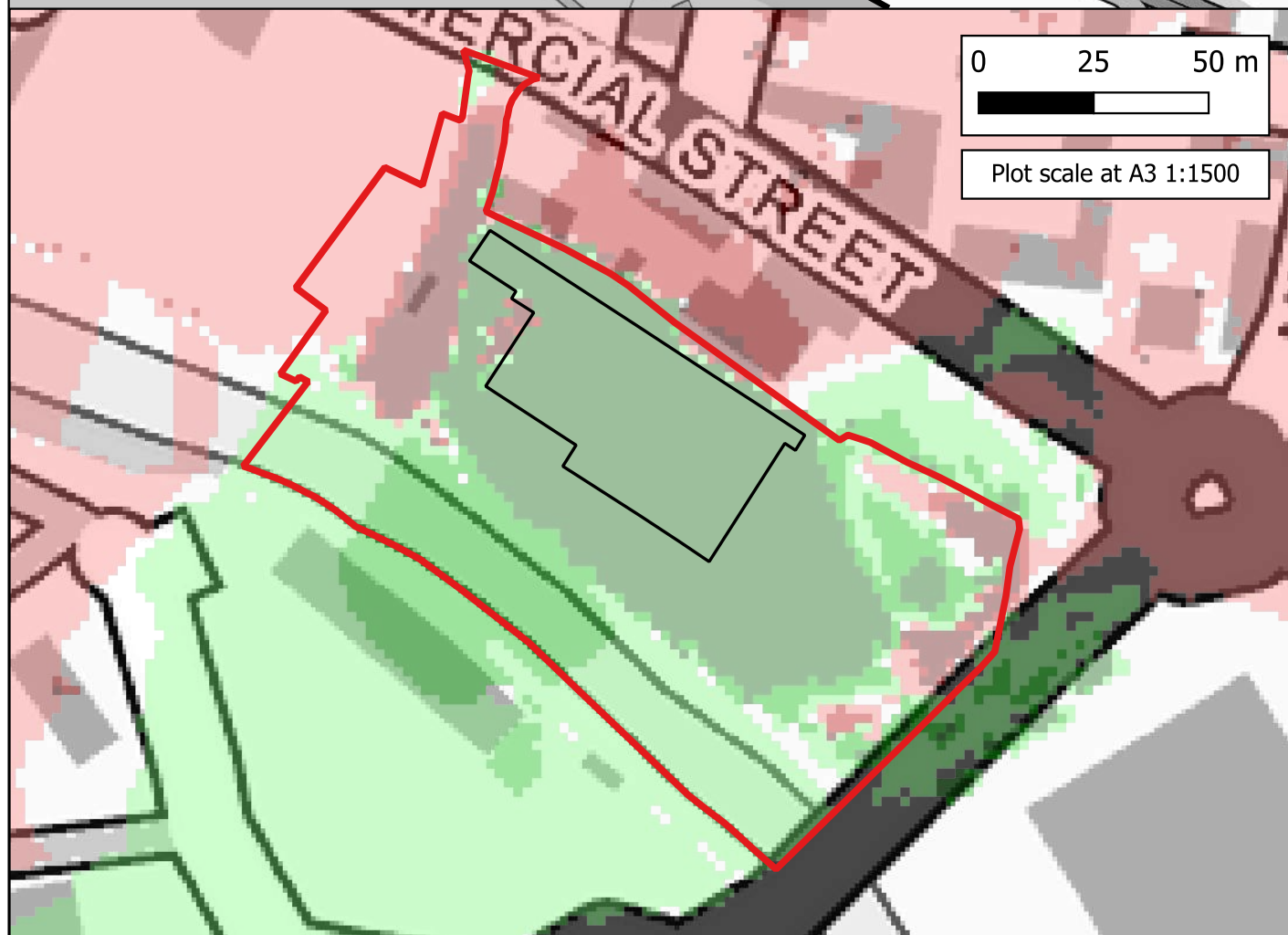
Notes:  
1) All dimensions are in metres and all levels in metres above Ordnance Datum unless stated otherwise.

**LEGEND**

- Site Boundary
- Proposed Store

Maximum Flood Depth Difference

- > -100mm
- 50mm to -100mm
- 5mm to -50mm
- No Change (+/- 5mm)
- +5mm to +50mm
- +50mm to +100mm
- > +100mm



CLIENT:



**Waterco**  
www.waterco.co.uk

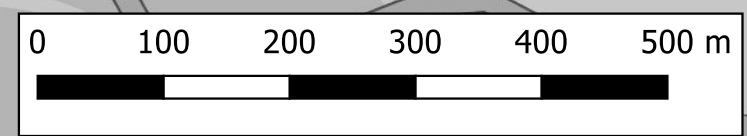
SCHEME:  
**Land at Pontymister, Risca**

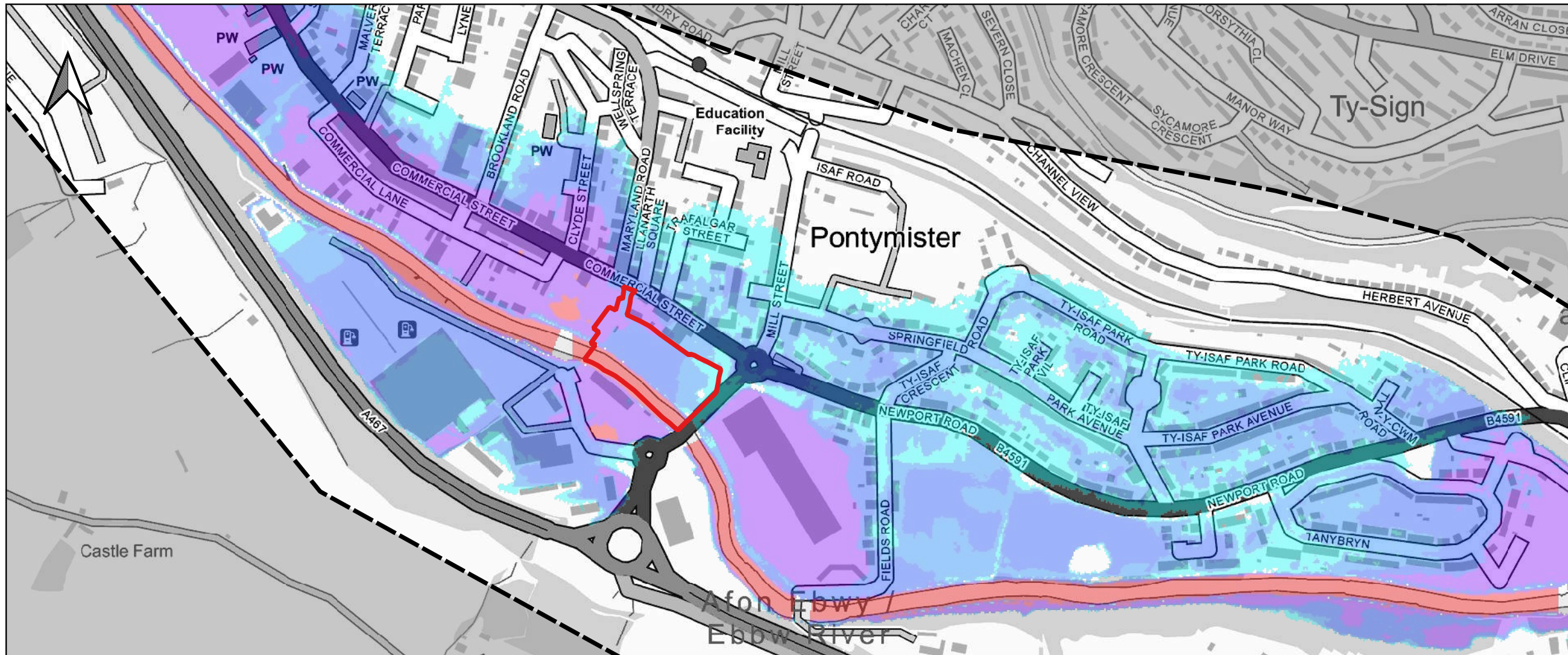
PLOT TITLE: Maximum Flood Depth Difference  
0.1% AEP Fluvial Event  
DEV-EXG  
Defended Scenario  
Normal Conditions

PLOT STATUS: FINAL  
DATE: 26-11-2024

DRAWN: MH	CHECKED: AA	APPROVED: LS	PLOT SCALE AT A3: 1:6000
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PLOT NAME: 15679_EBBW_Q1000_DEF_DEV-EXG_NC_027_d-Diff	REVISION: -
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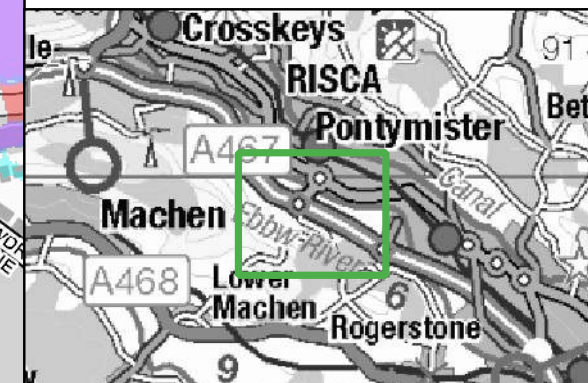
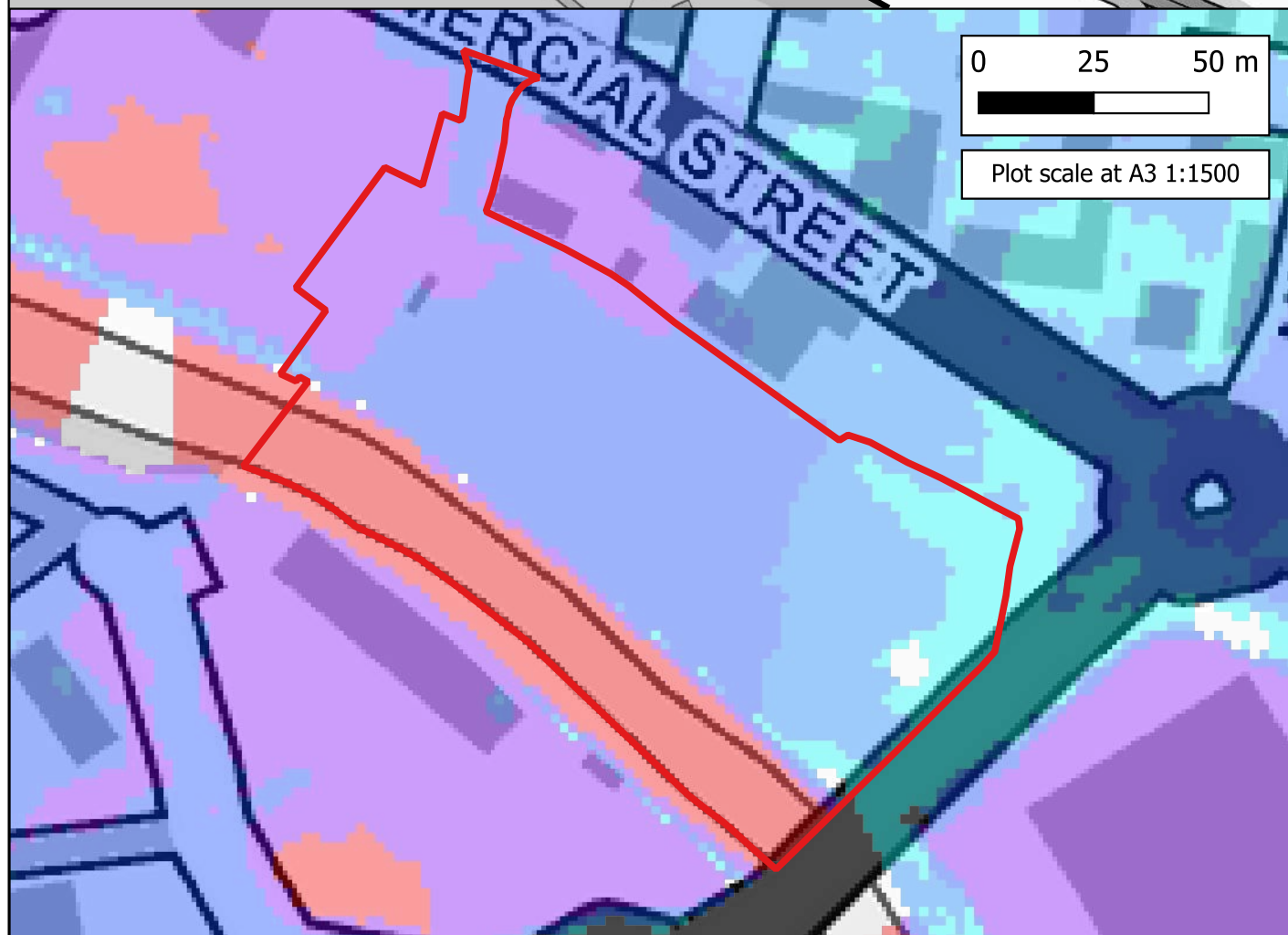




Notes:  
 1) All dimensions are in metres and all levels in metres above Ordnance Datum unless stated otherwise.

**LEGEND**

-  Site Boundary
- Maximum Flood Depth
-  <= 0.3m
-  0.3m - 0.6m
-  0.6m - 1.2m
-  1.2m - 2.4m
-  > 2.4m



CLIENT:  


  
 www.waterco.co.uk

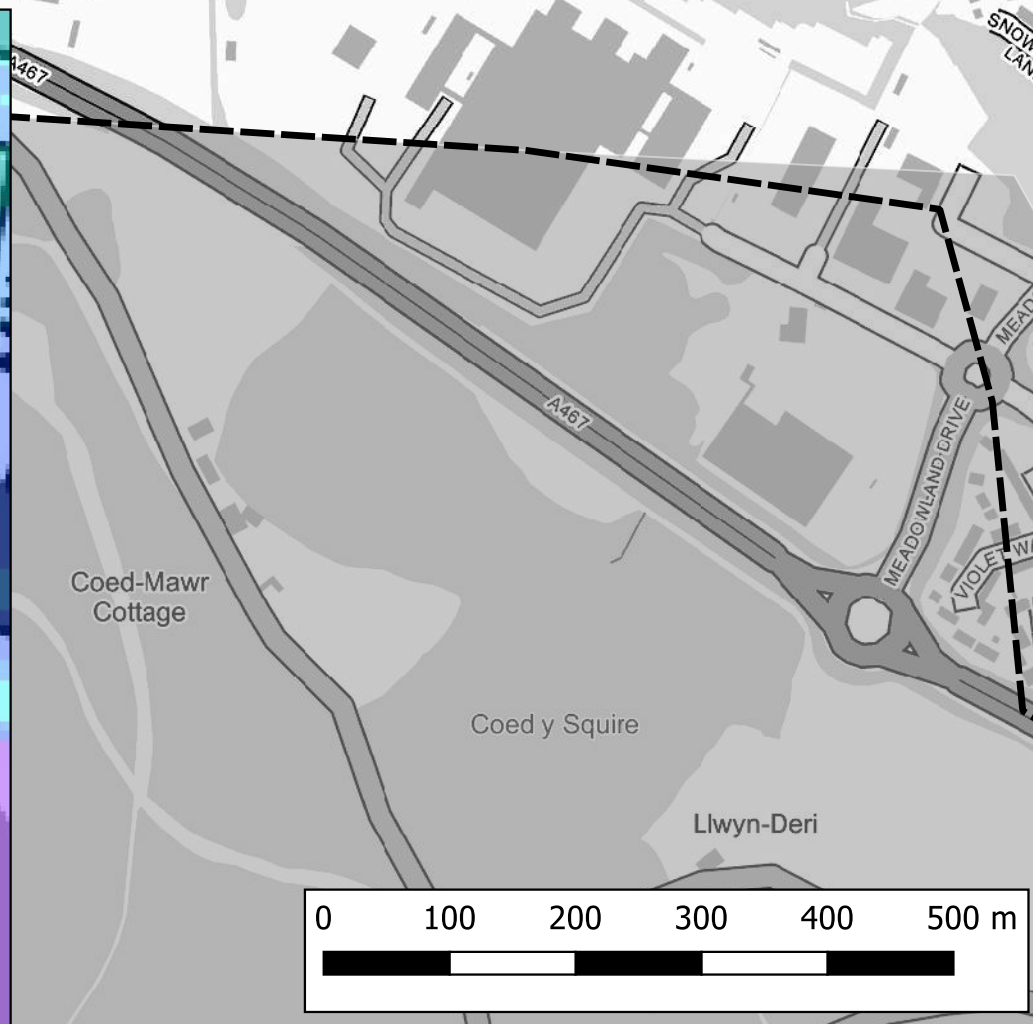
SCHEME:  
**Land at Pontymister, Risca**

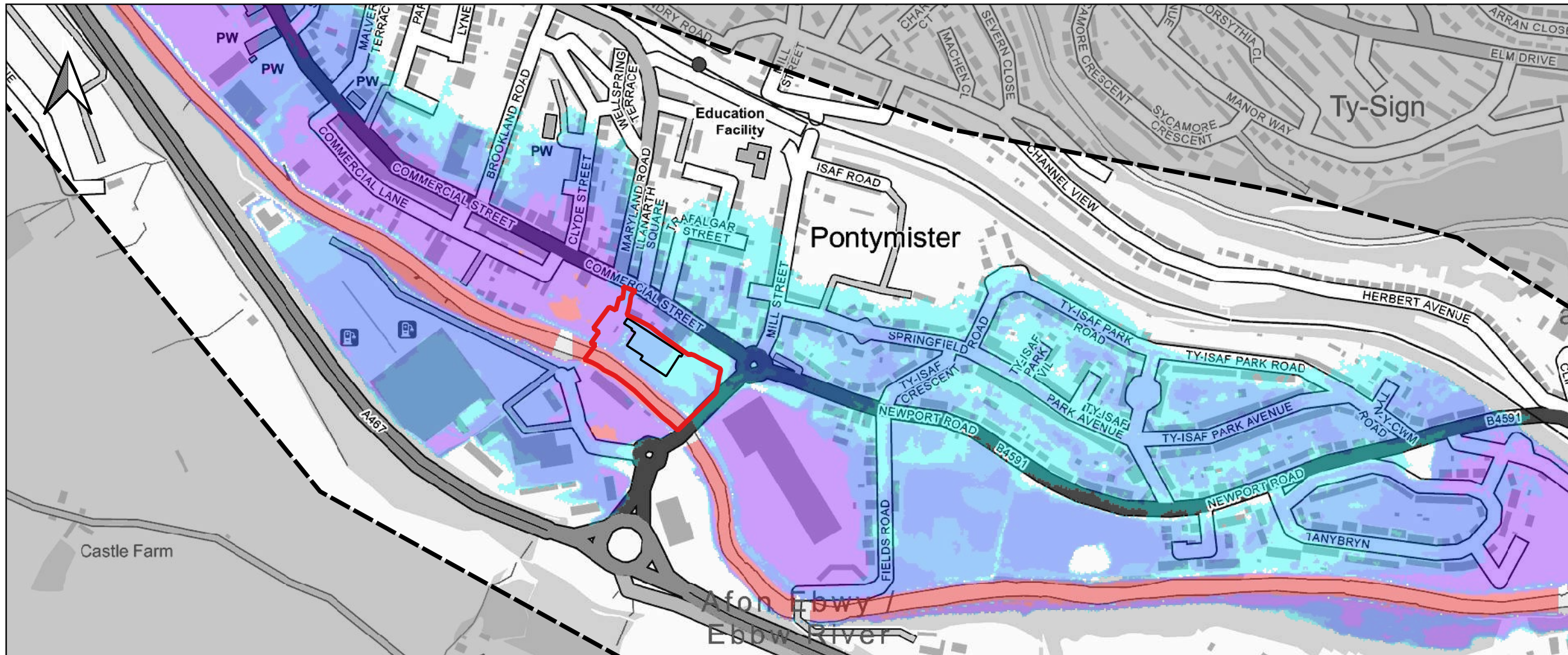
PLOT TITLE: Maximum Flood Depth  
 0.1% AEP Plus 25% Climate Change Fluvial Event  
 Existing Scenario (EXG)  
 Defended Scenario  
 Normal Conditions

PLOT STATUS: FINAL  
 DATE: 26-11-2024

DRAWN: MH	CHECKED: AA	APPROVED: LS	PLOT SCALE AT A3: 1:6000
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PLOT NAME: 15679_EBBW_Q1000CC25_DEF_EXG_NC_023_d_Max	REVISION: -
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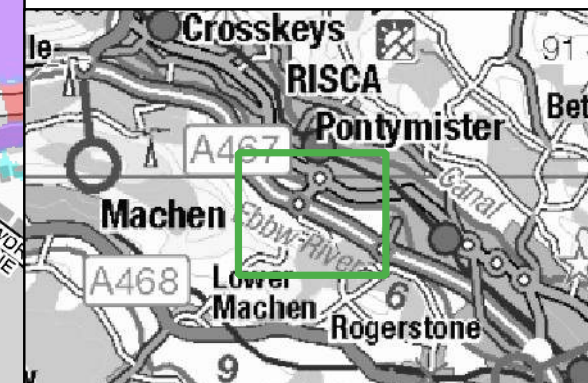
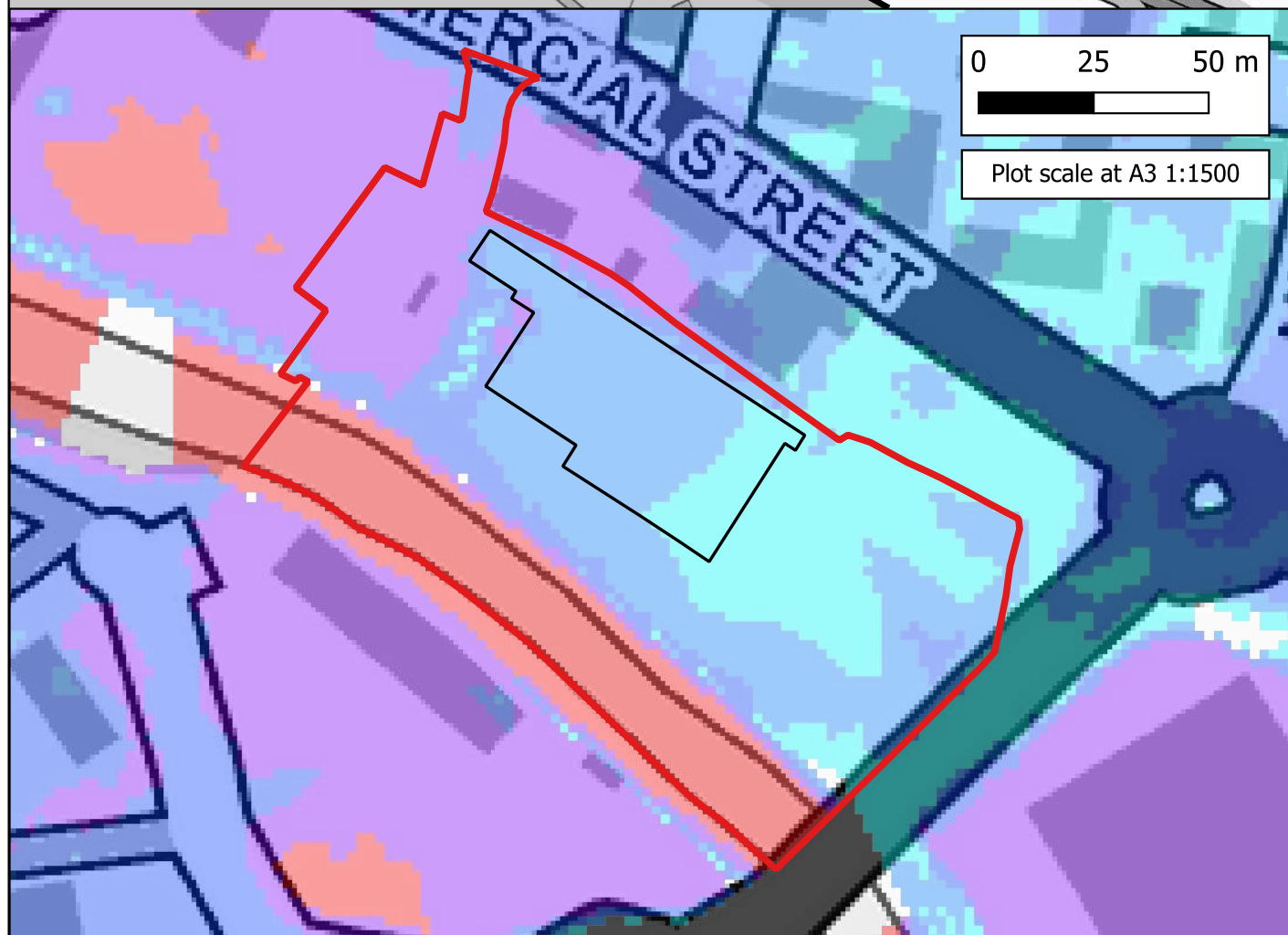




Notes:  
1) All dimensions are in metres and all levels in metres above Ordnance Datum unless stated otherwise.

**LEGEND**

- Site Boundary
- Proposed Store
- Maximum Flood Depth
- <= 0.3m
- 0.3m - 0.6m
- 0.6m - 1.2m
- 1.2m - 2.4m
- > 2.4m



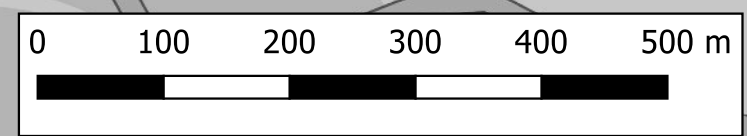
SCHEME:  
**Land at Pontymister, Risca**

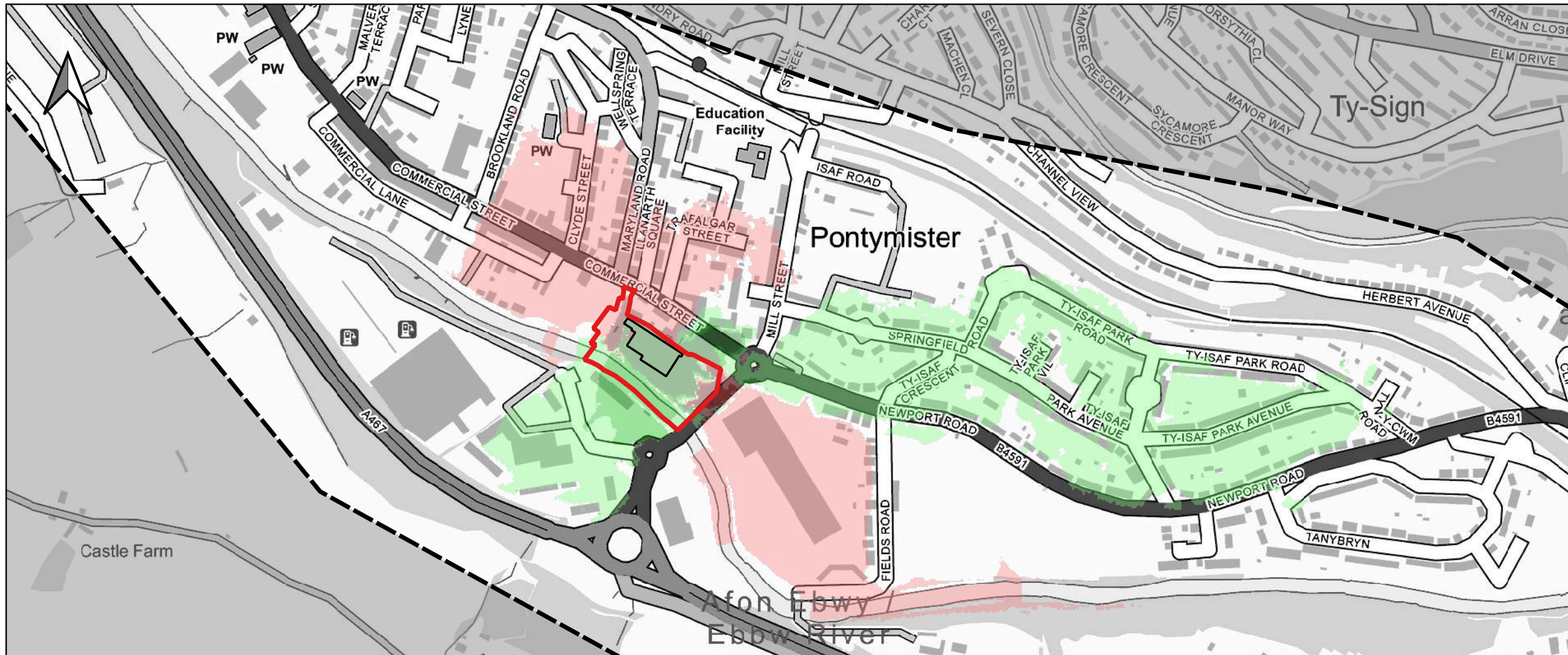
PLOT TITLE: Maximum Flood Depth  
0.1% AEP Plus 25% Climate Change Fluvial Event  
Proposed Development Scenario (DEV)  
Defended Scenario  
Normal Conditions

PLOT STATUS:	FINAL	DATE:	26-11-2024
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DRAWN:	CHECKED:	APPROVED:	PLOT SCALE AT A3:
MH	AA	LS	1:6000

PLOT NAME:	REVISION:
15679_EBBW_Q1000CC25_DEF_DEV_NC_027_d_Max	-

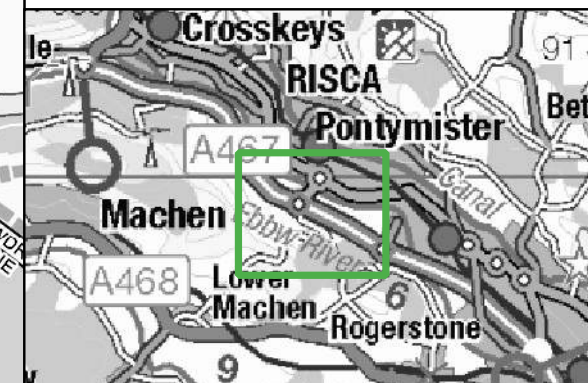
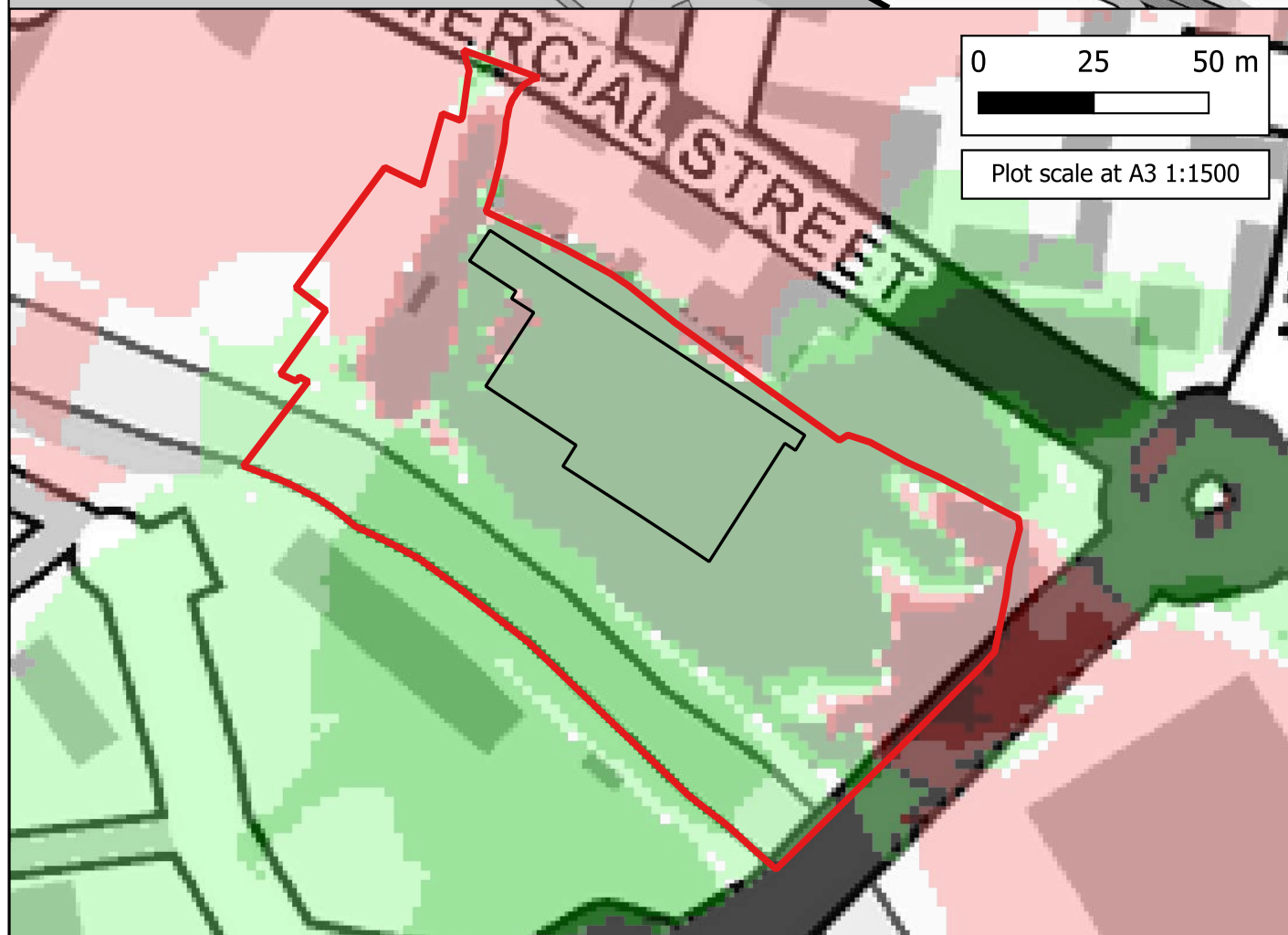




Notes:  
1) All dimensions are in metres and all levels in metres above Ordnance Datum unless stated otherwise.

**LEGEND**

- Site Boundary
- Proposed Store
- Maximum Flood Depth Difference
- > -100mm
- 50mm to -100mm
- 5mm to -50mm
- No Change (+/- 5mm)
- +5mm to +50mm
- +50mm to +100mm
- > +100mm



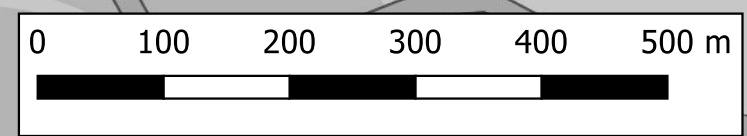
SCHEME:  
**Land at Pontymister, Risca**

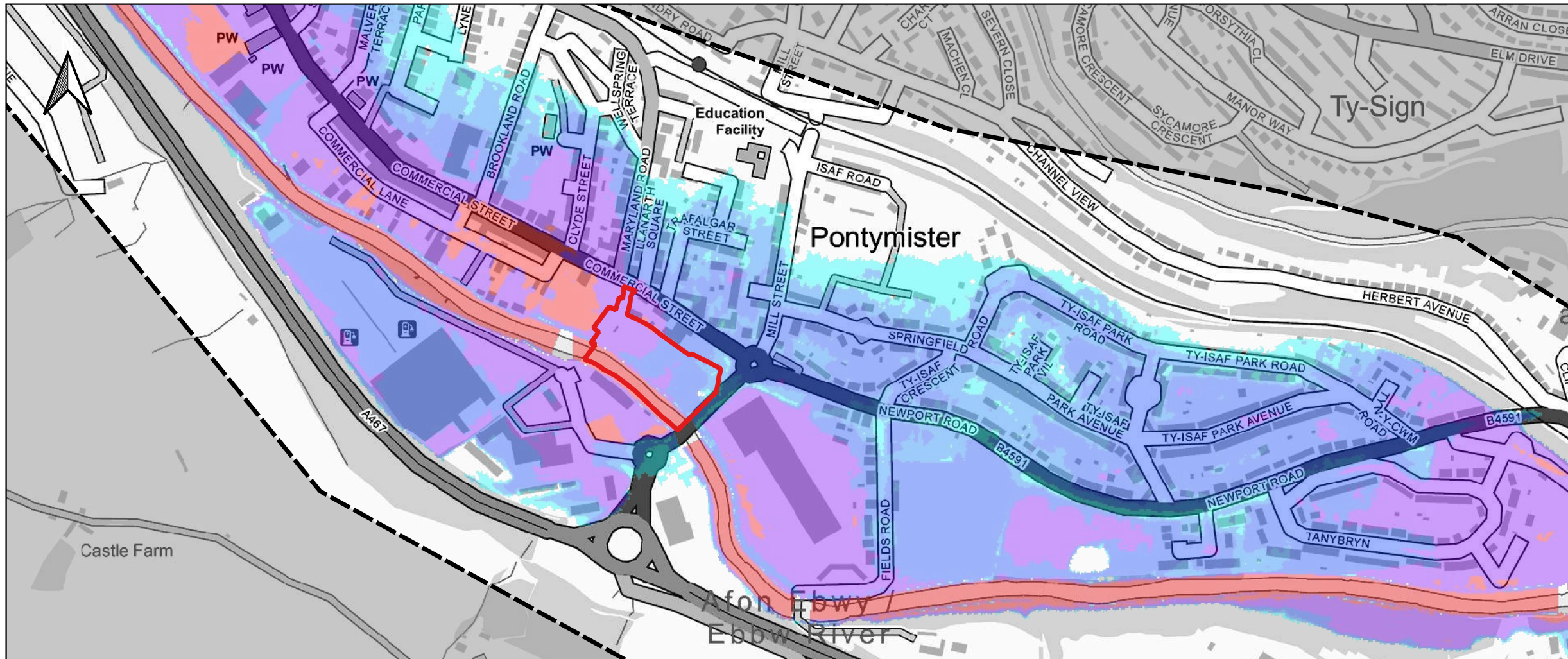
PLOT TITLE: Maximum Flood Depth Difference  
0.1% AEP Plus 25% Climate Change Fluvial Event  
DEV-EXG  
Defended Scenario  
Normal Conditions

PLOT STATUS: **FINAL** DATE: **26-11-2024**

DRAWN: MH	CHECKED: AA	APPROVED: LS	PLOT SCALE AT A3: 1:6000
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PLOT NAME: 15679_EBBW_Q1000CC25_DEF_DEV-EXG_NC_027_d-Diff	REVISION: -
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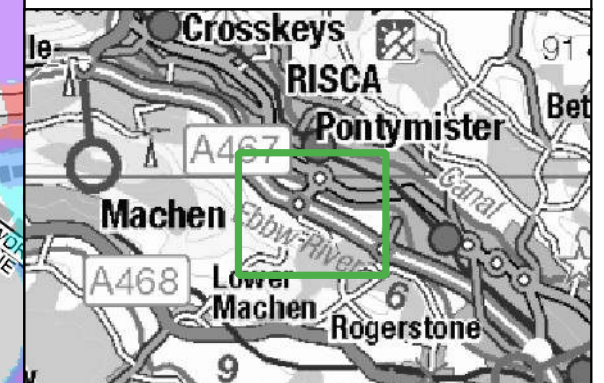
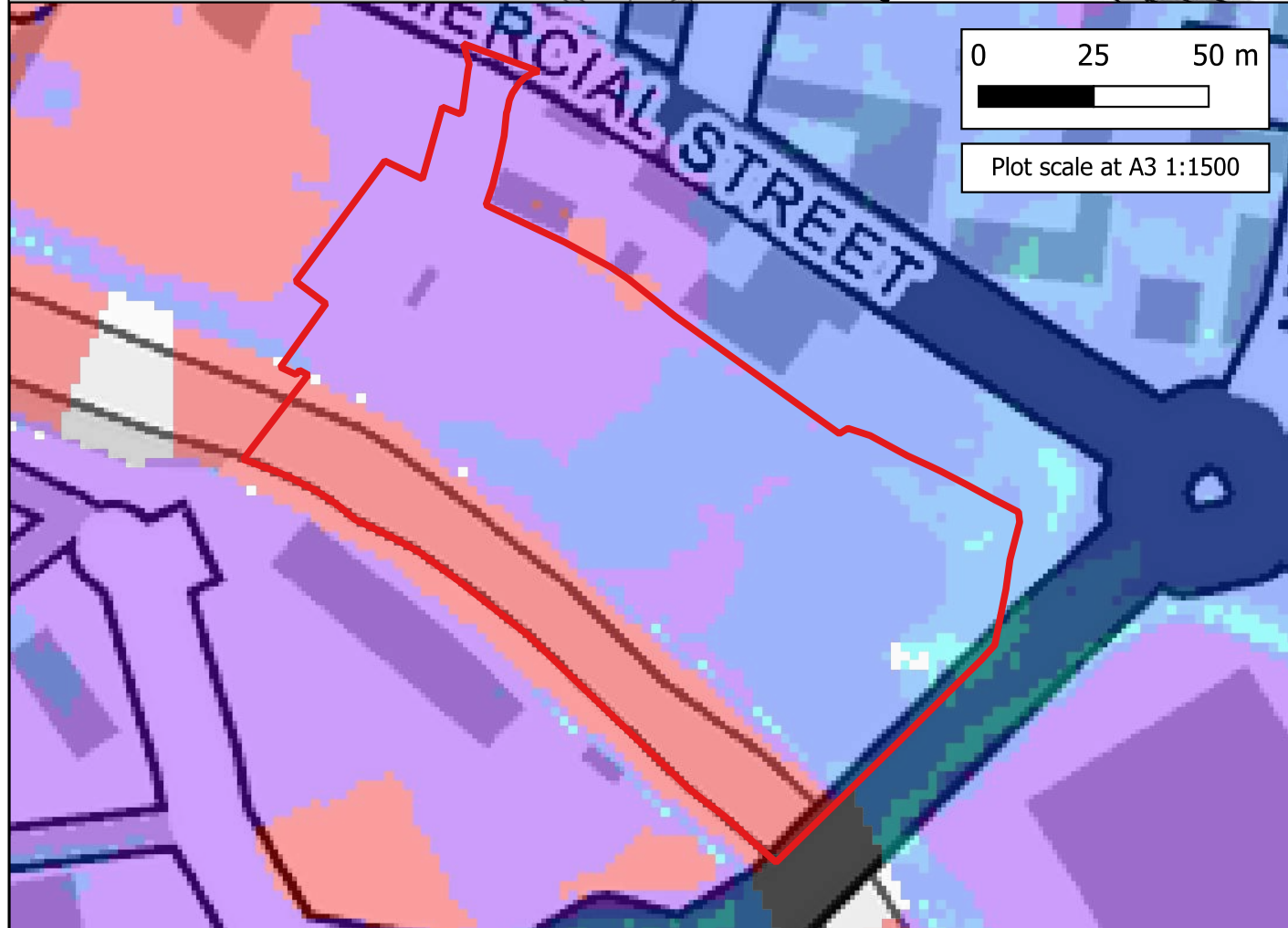






Notes:  
1) All dimensions are in metres and all levels in metres above Ordnance Datum unless stated otherwise.

**LEGEND**

- Site Boundary
- Maximum Flood Depth
  - <= 0.3m
  - 0.3m - 0.6m
  - 0.6m - 1.2m
  - 1.2m - 2.4m
  - > 2.4m



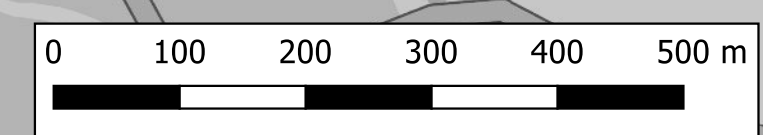
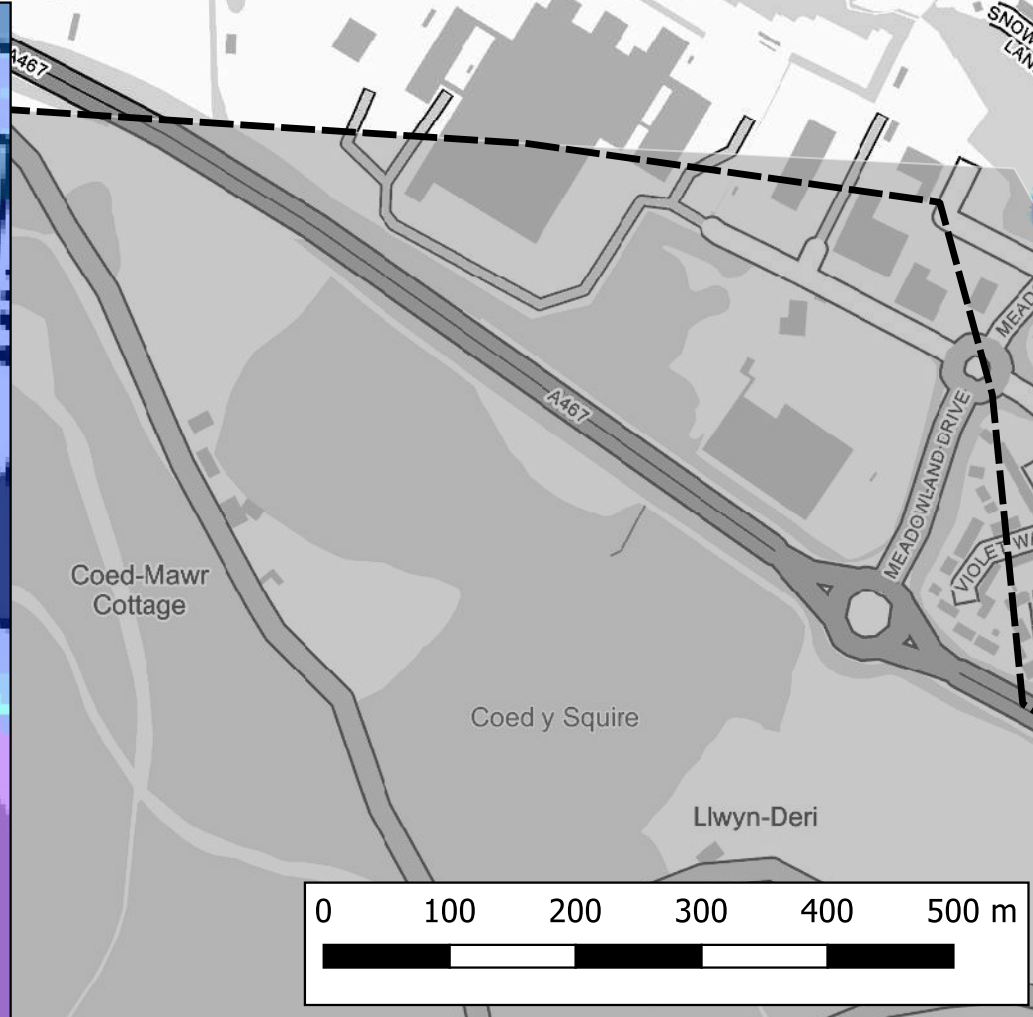
CLIENT: 

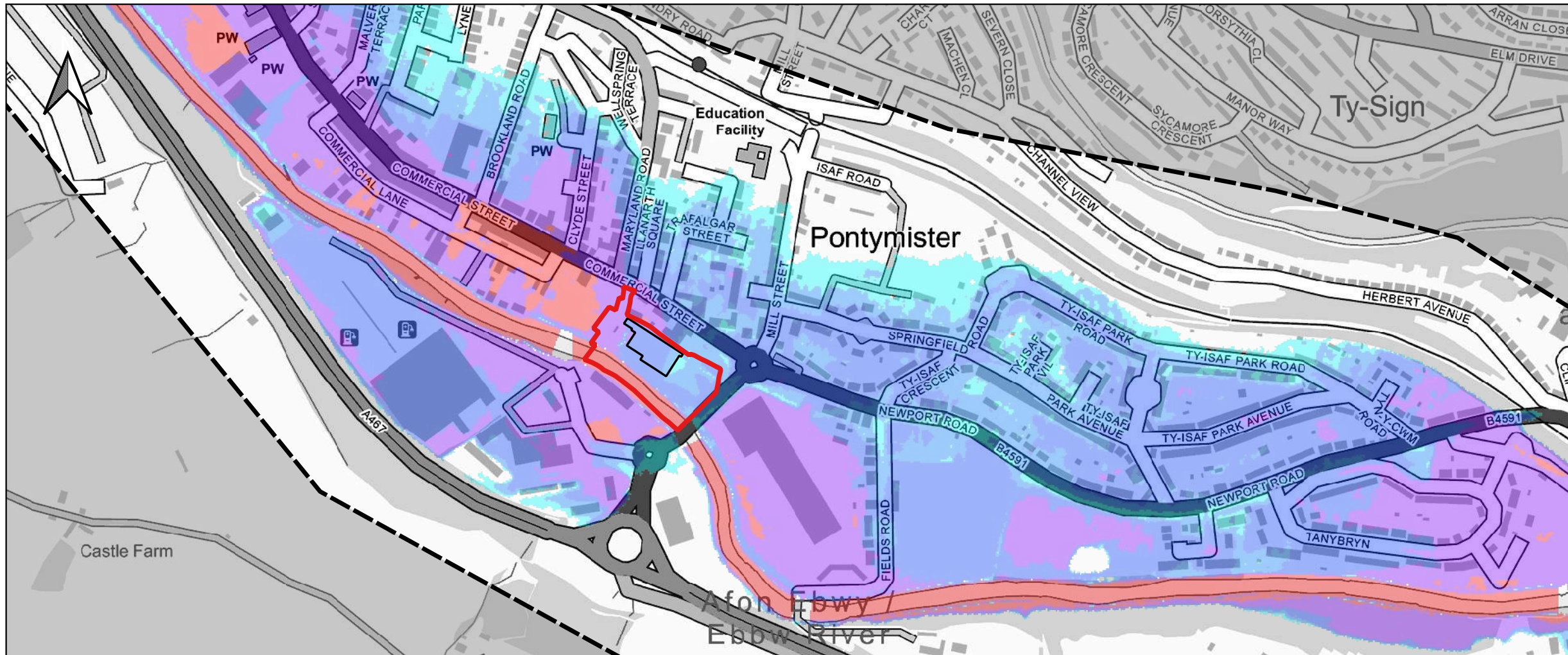
  
www.waterco.co.uk

SCHEME:  
**Land at Pontymister, Risca**

PLOT TITLE: Maximum Flood Depth  
0.1% AEP Plus 70% Climate Change Fluvial Event  
Existing Scenario (EXG)  
Defended Scenario  
Normal Conditions

PLOT STATUS:	FINAL	DATE:	26-11-2024	
DRAWN:	MH	CHECKED:	AA	
APPROVED:	LS	PLOT SCALE AT A3:	1:6000	
PLOT NAME:	15679_EBBW_Q1000CC25_DEF_EXG_NC_023_d_Max		REVISION:	-

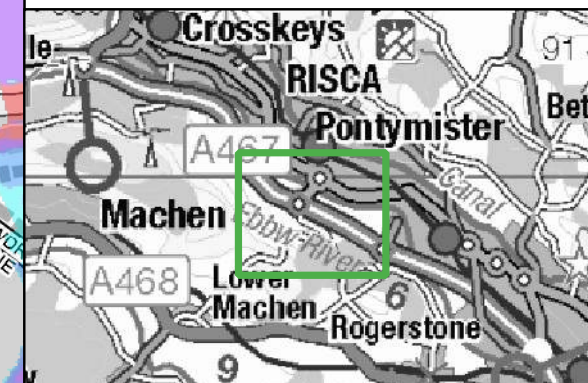
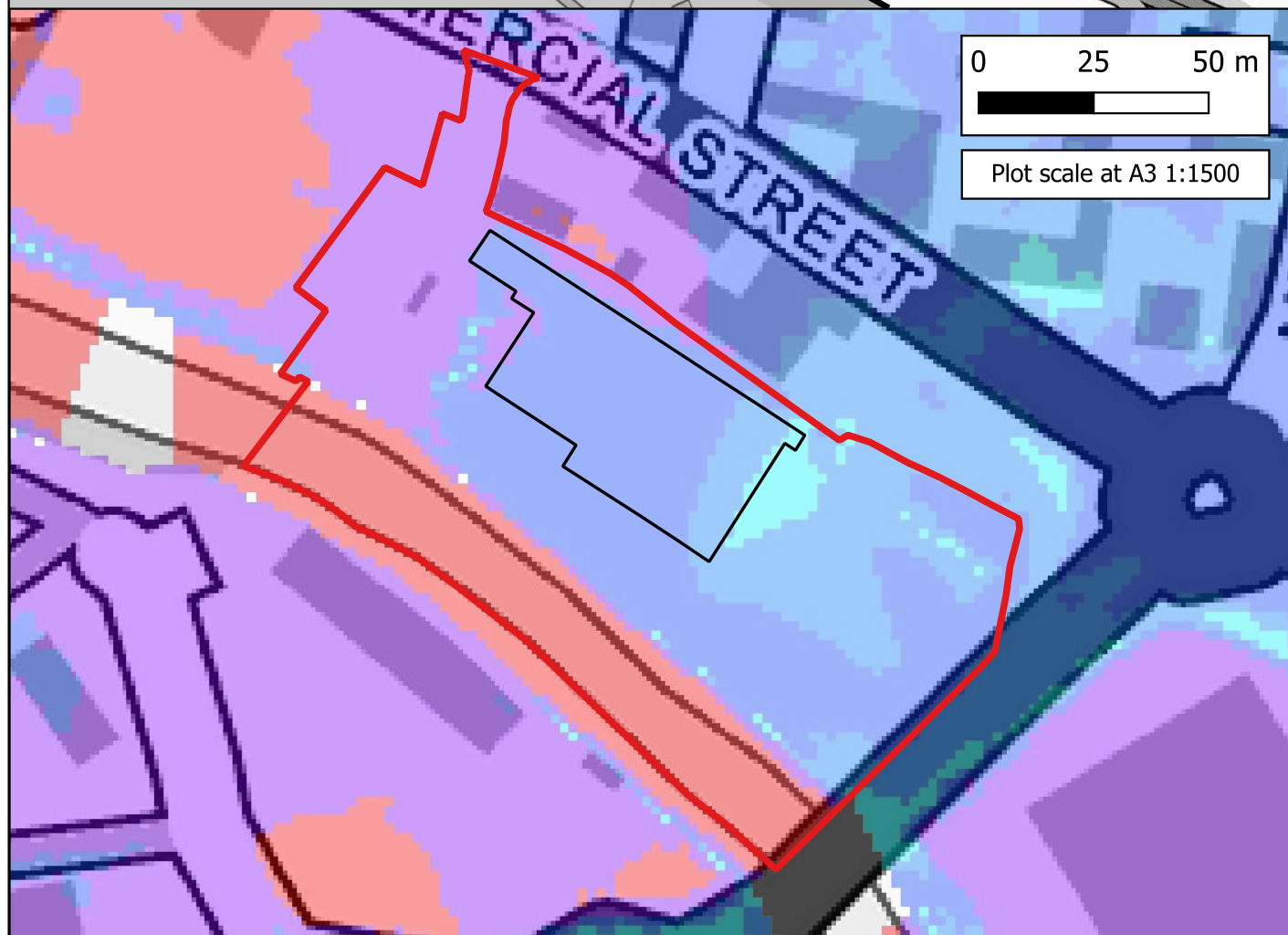




Notes:  
1) All dimensions are in metres and all levels in metres above Ordnance Datum unless stated otherwise.

**LEGEND**

- Site Boundary
- Proposed Store
- Maximum Flood Depth
- <= 0.3m
- 0.3m - 0.6m
- 0.6m - 1.2m
- 1.2m - 2.4m
- > 2.4m



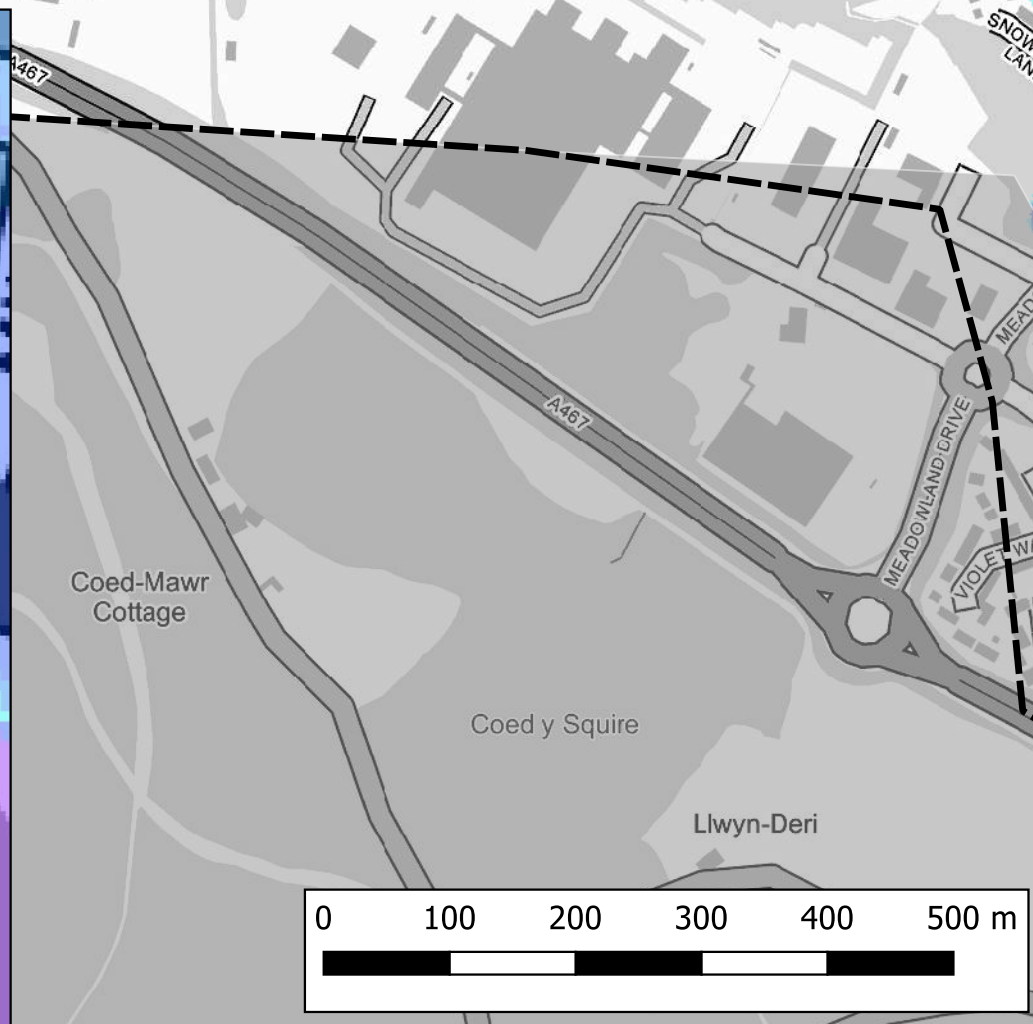
SCHEME:  
**Land at Pontymister, Risca**

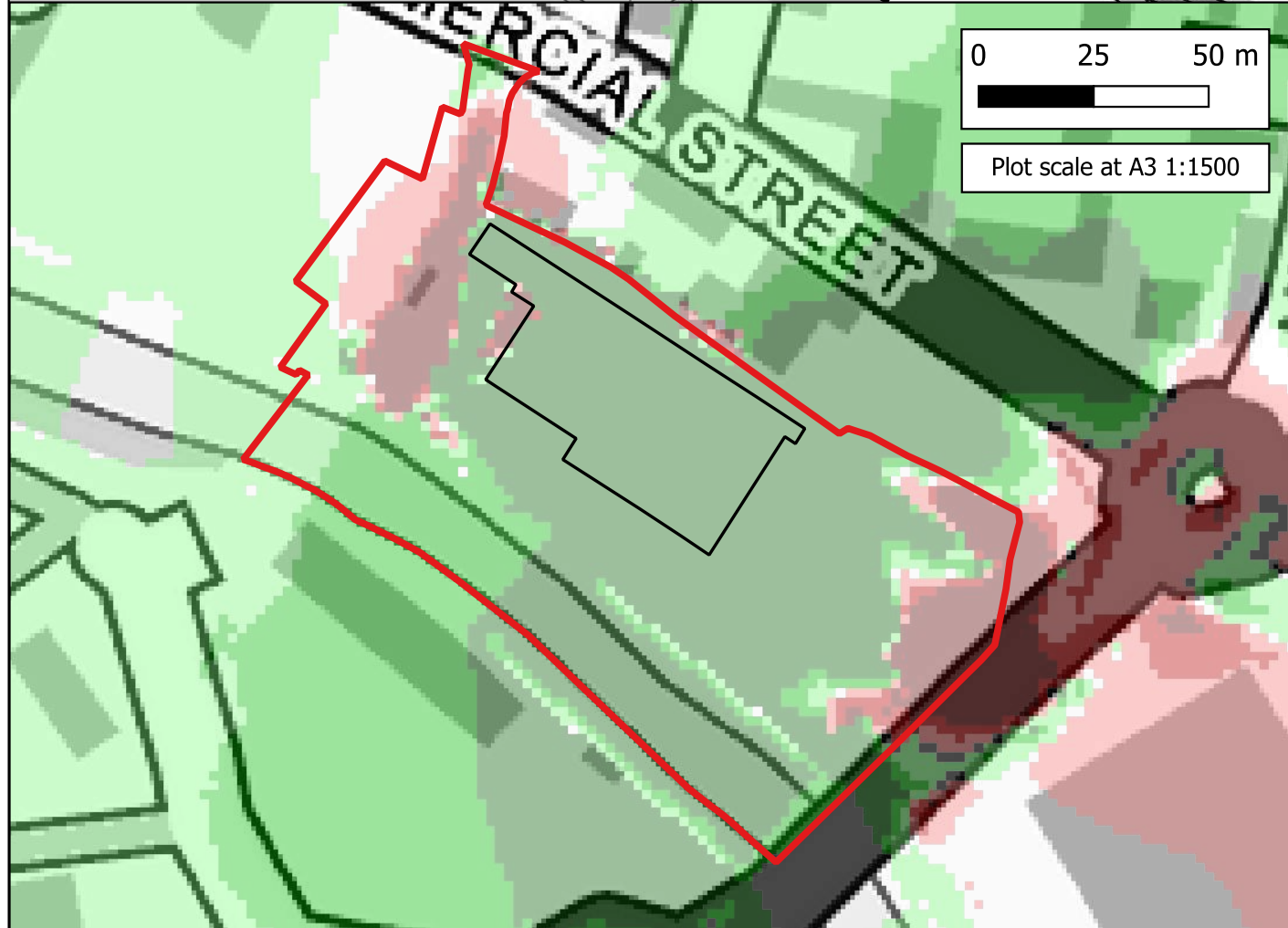
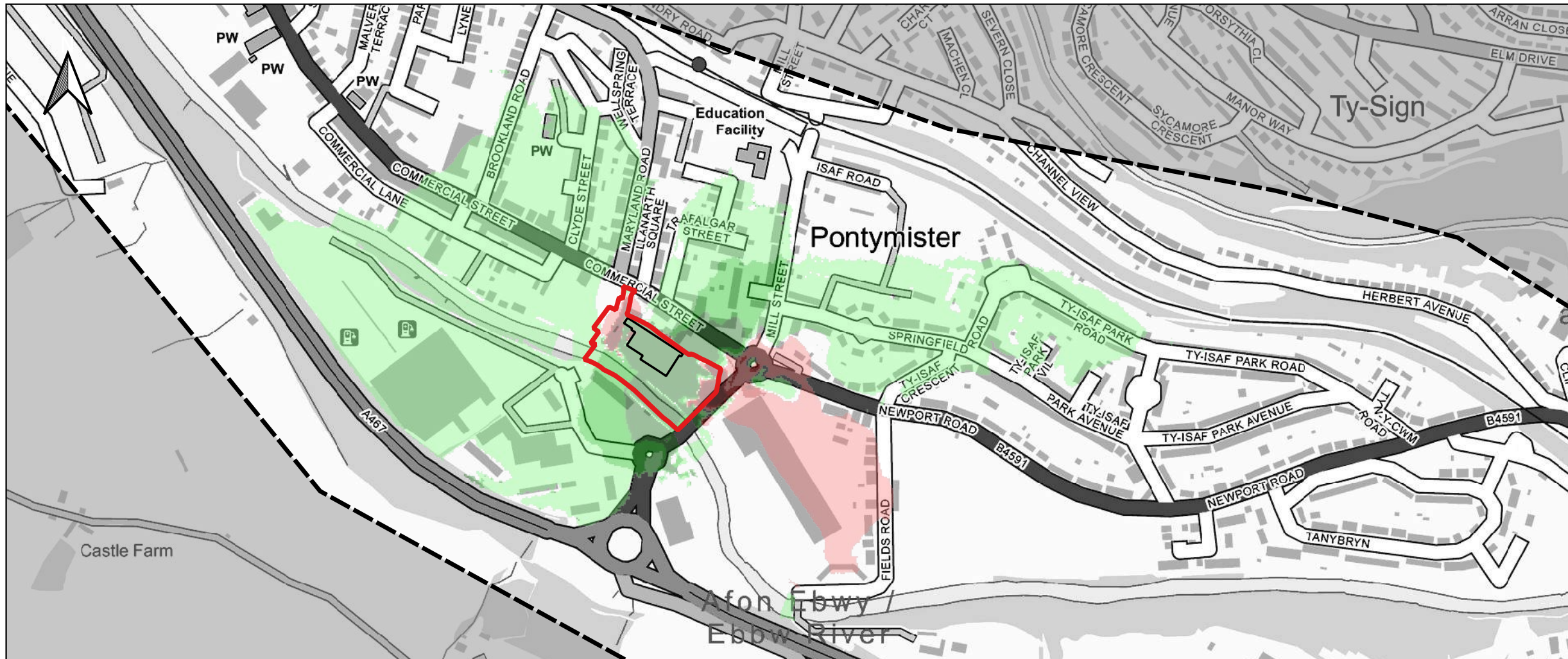
PLOT TITLE: Maximum Flood Depth  
0.1% AEP Plus 70% Climate Change Fluvial Event  
Proposed Development Scenario (DEV)  
Defended Scenario  
Normal Conditions

PLOT STATUS: FINAL DATE: 26-11-2024

DRAWN: MH	CHECKED: AA	APPROVED: LS	PLOT SCALE AT A3: 1:6000
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PLOT NAME: 15679_EBBW_Q1000CC25_DEF_DEV_NC_027_d_Max	REVISION: -
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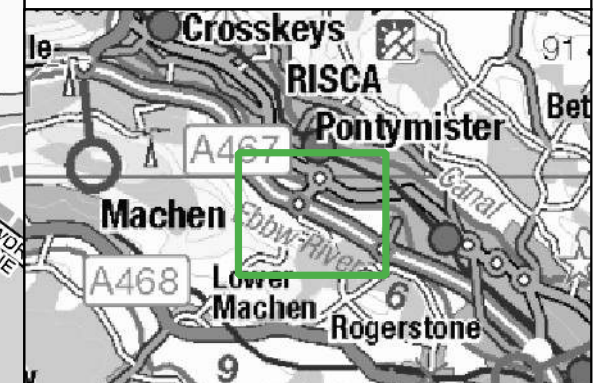
Notes:  
1) All dimensions are in metres and all levels in metres above Ordnance Datum unless stated otherwise.

**LEGEND**

- Site Boundary
- Proposed Store

Maximum Flood Depth Difference

- > -100mm
- 50mm to -100mm
- 5mm to -50mm
- No Change (+/- 5mm)
- +5mm to +50mm
- +50mm to +100mm
- > +100mm



CLIENT:



**Waterco**  
www.waterco.co.uk

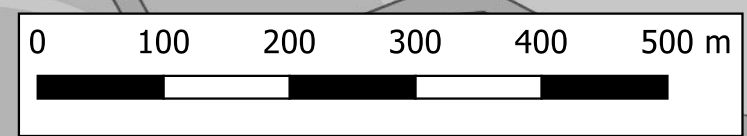
SCHEME:  
**Land at Pontymister, Risca**

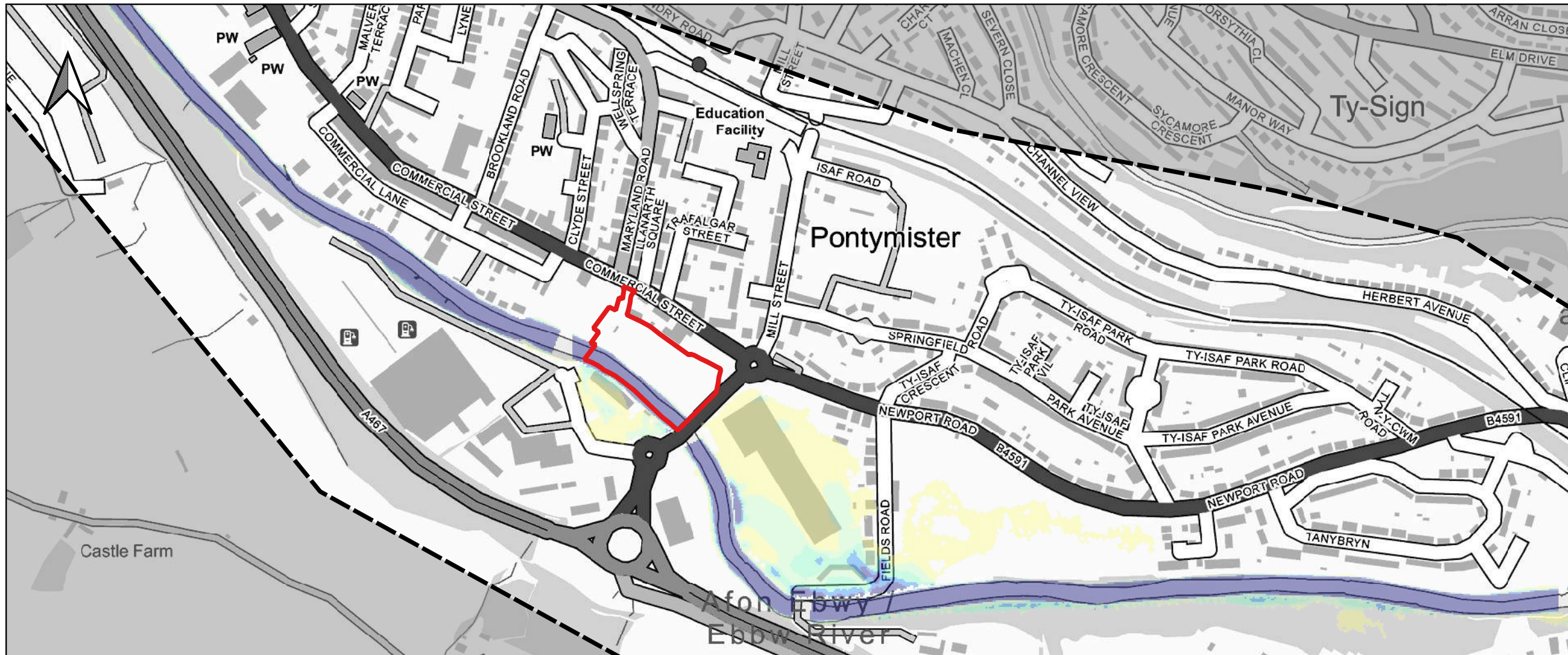
PLOT TITLE: Maximum Flood Depth Difference  
0.1% AEP Plus 70% Climate Change Fluvial Event  
DEV-EXG  
Defended Scenario  
Normal Conditions

PLOT STATUS: **FINAL** DATE: **26-11-2024**

DRAWN: MH	CHECKED: AA	APPROVED: LS	PLOT SCALE AT A3: 1:6000
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PLOT NAME: 15679_EBBW_Q1000CC70_DEF_DEV-EXG_NC_027_d-Diff	REVISION: -
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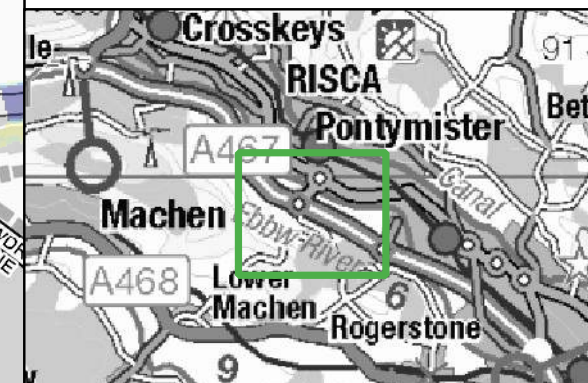
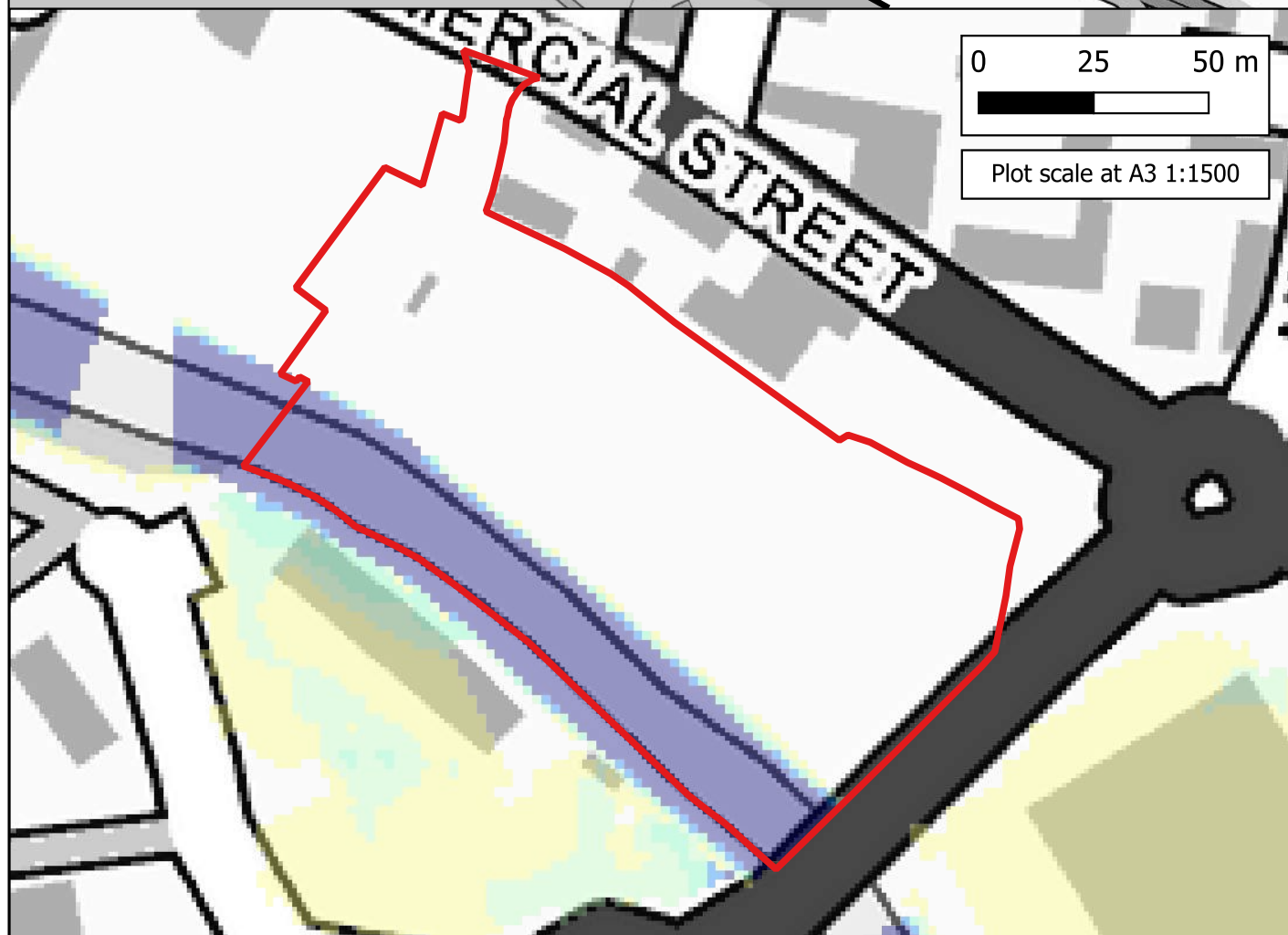




Notes:  
1) All dimensions are in metres and all levels in metres above Ordnance Datum unless stated otherwise.

**LEGEND**

- Site Boundary
- Maximum Flood Velocity (m/s)
- 0.0 - 0.3
- 0.3 - 0.6
- 0.6 - 0.9
- 0.9 - 1.2
- > 1.2



CLIENT:



**Waterco**  
www.waterco.co.uk

SCHEME:  
**Land at Pontymister, Risca**

PLOT TITLE: Maximum Flood Velocity  
1% AEP Fluvial Event  
Existing Scenario (EXG)  
Defended Scenario  
Normal Conditions

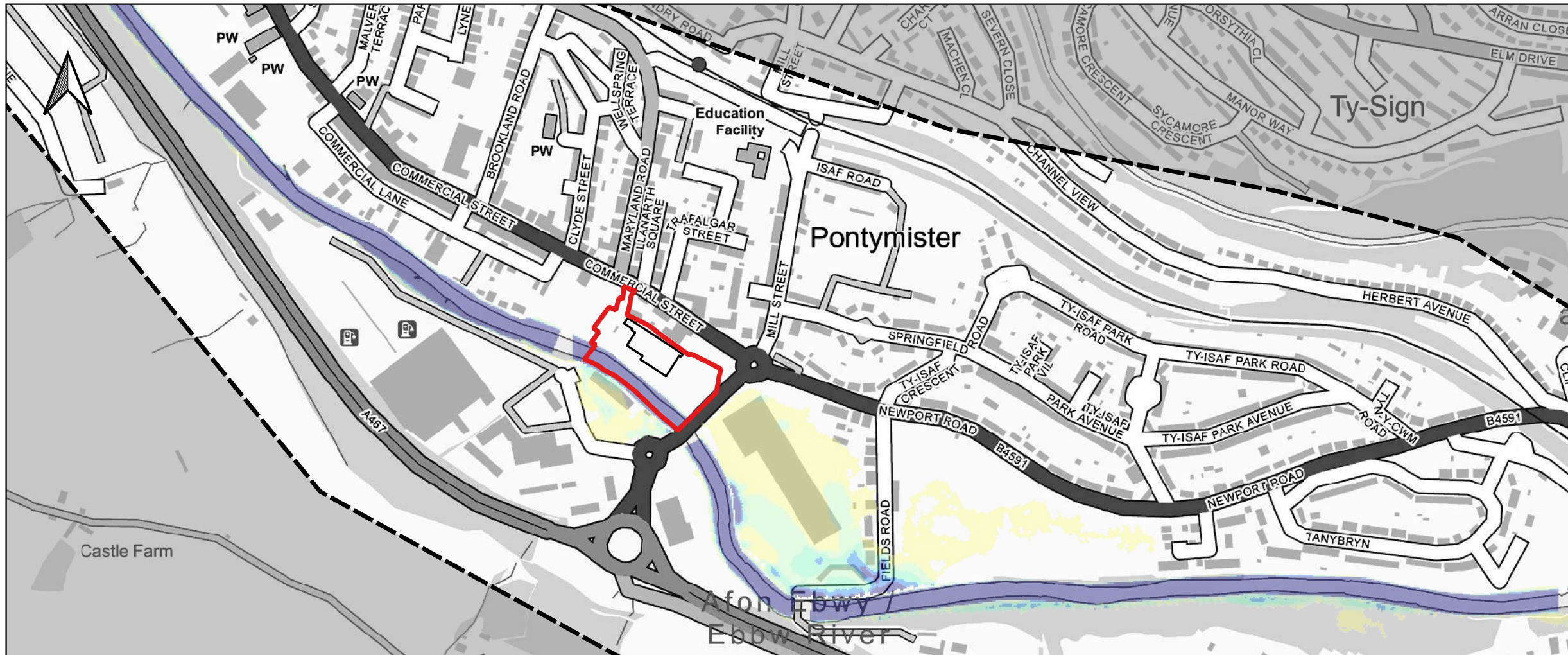
PLOT STATUS: FINAL DATE: 26-11-2024

DRAWN: MH	CHECKED: AA	APPROVED: LS	PLOT SCALE AT A3: 1:6000
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PLOT NAME: 15679\_EBBW\_Q100\_DEF\_EXG\_NC\_023\_V\_Max REVISION: -



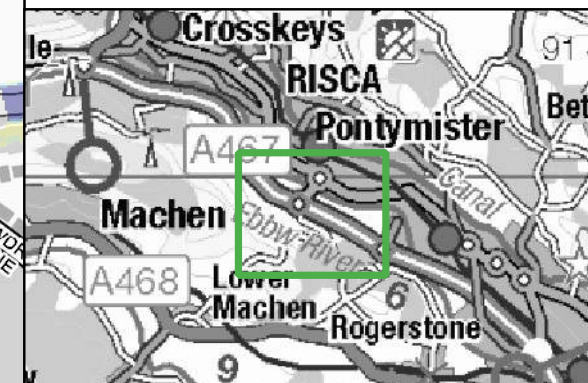
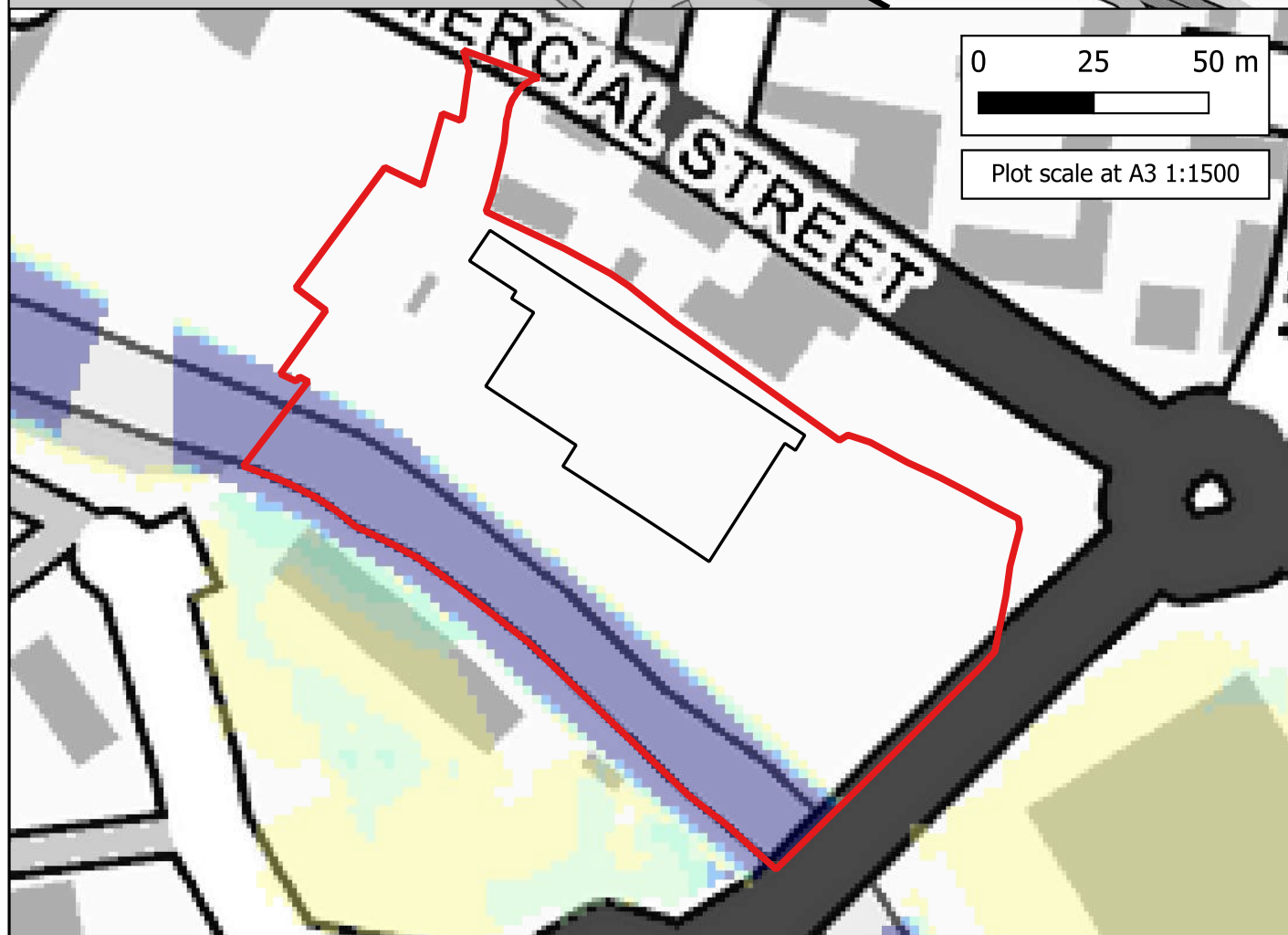




Notes:  
1) All dimensions are in metres and all levels in metres above Ordnance Datum unless stated otherwise.

**LEGEND**

- Site Boundary
- Proposed Store
- Maximum Flood Velocity (m/s)
  - 0.0 - 0.3
  - 0.3 - 0.6
  - 0.6 - 0.9
  - 0.9 - 1.2
  - > 1.2



SCHEME:  
**Land at Pontymister, Risca**

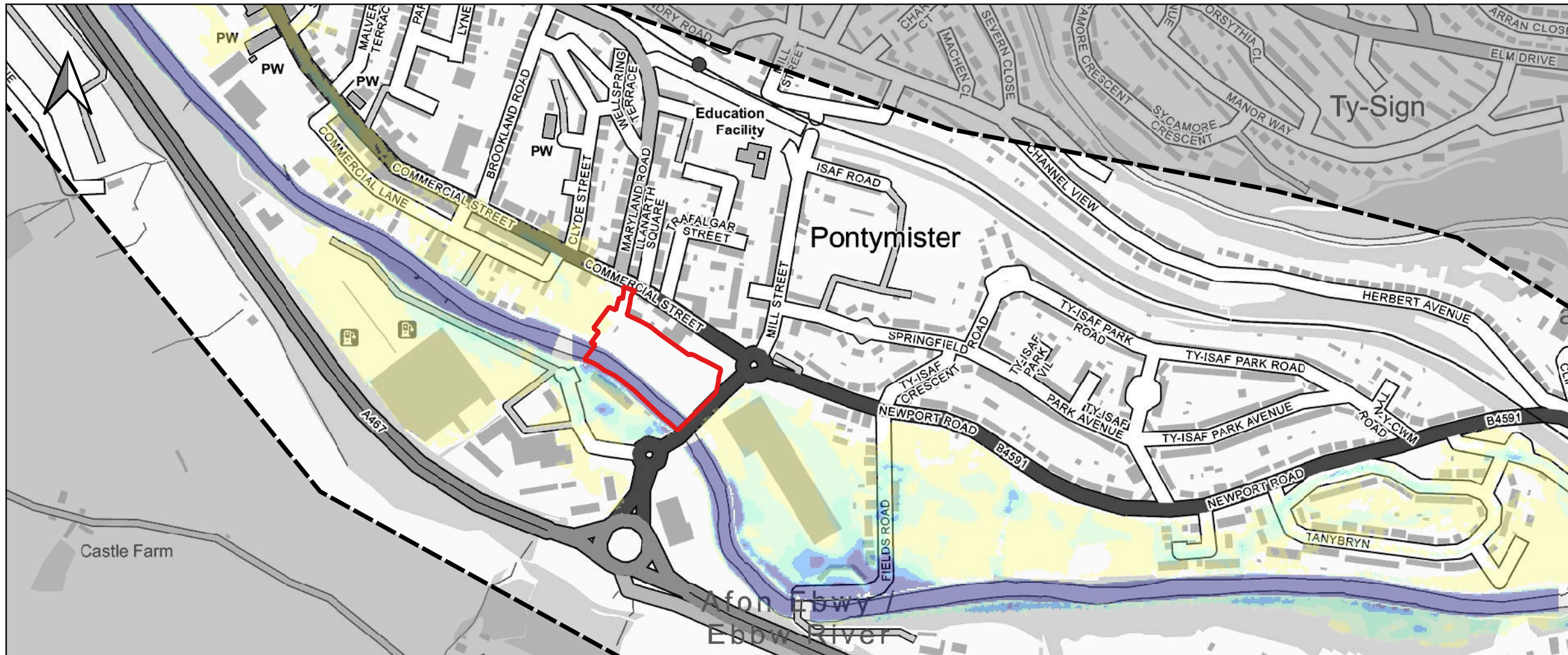
PLOT TITLE: Maximum Flood Velocity  
1% AEP Fluvial Event  
Proposed Development Scenario (DEV)  
Defended Scenario  
Normal Conditions

PLOT STATUS: FINAL DATE: 26-11-2024

DRAWN: MH CHECKED: AA APPROVED: LS PLOT SCALE AT A3: 1:6000

PLOT NAME: 15679\_EBBW\_Q100\_DEF\_DEV\_NC\_027\_V\_Max REVISION: -

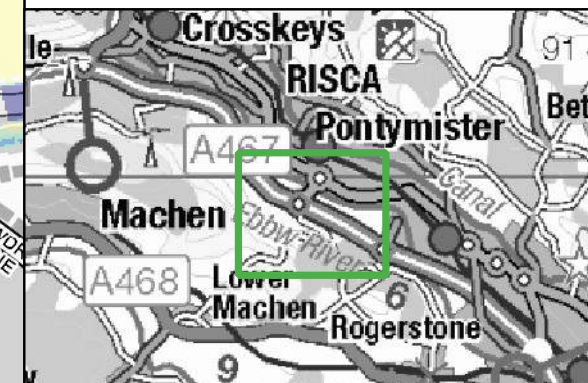
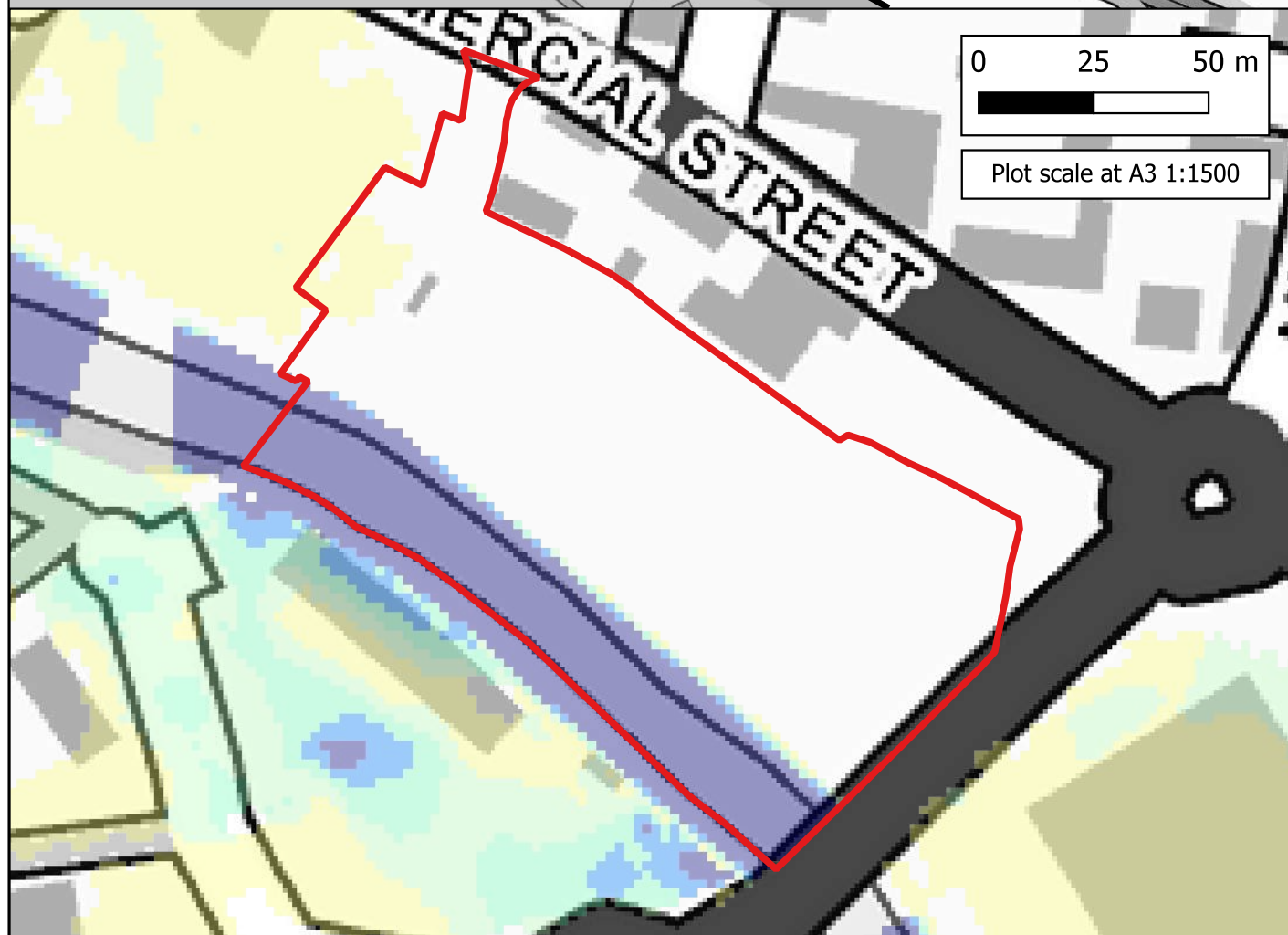




Notes:  
1) All dimensions are in metres and all levels in metres above Ordnance Datum unless stated otherwise.

**LEGEND**

- Site Boundary
- Maximum Flood Velocity (m/s)
- 0.0 - 0.3
- 0.3 - 0.6
- 0.6 - 0.9
- 0.9 - 1.2
- > 1.2



CLIENT:



**Waterco**  
www.waterco.co.uk

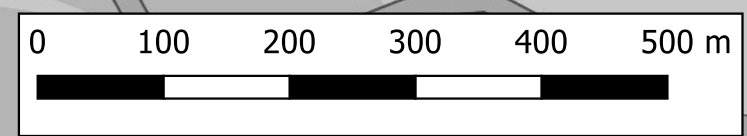
SCHEME:  
**Land at Pontymister, Risca**

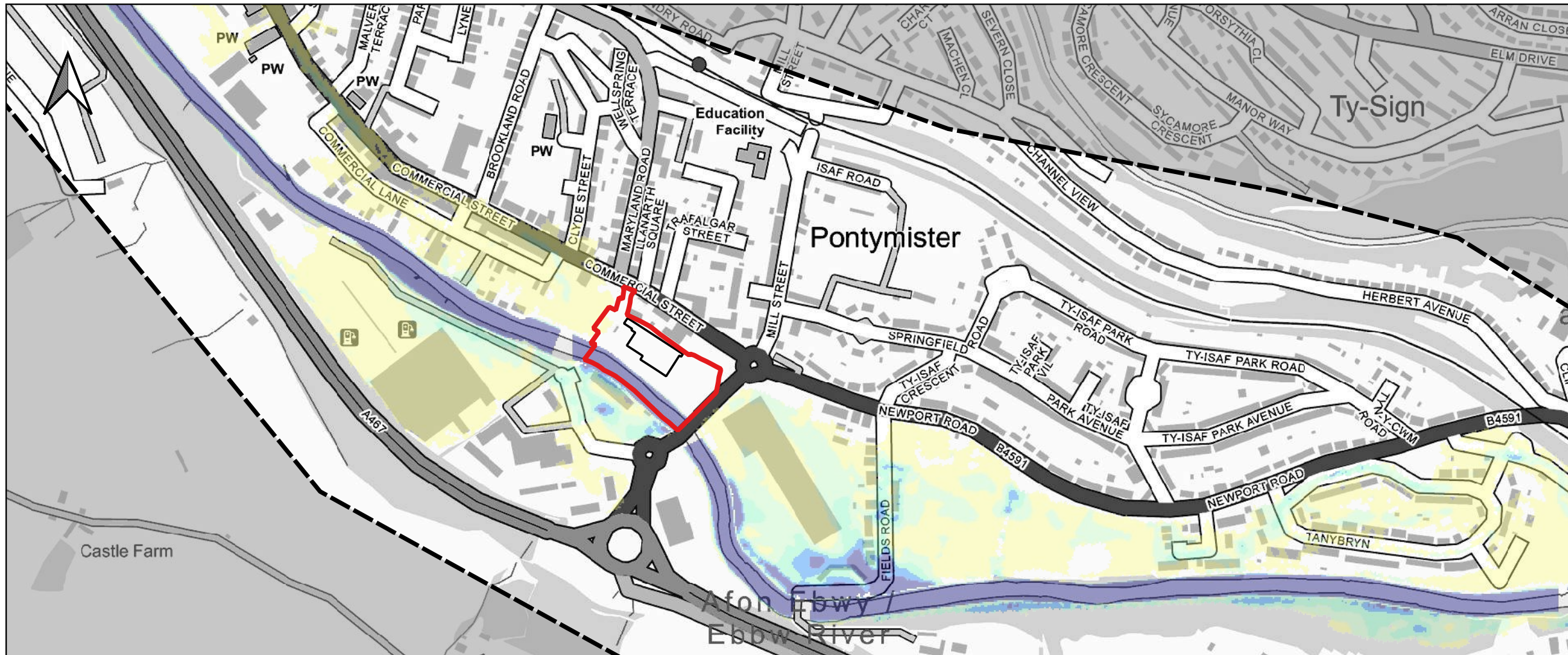
PLOT TITLE: Maximum Flood Velocity  
1% AEP Plus 25% Climate Change Fluvial Event Existing Scenario (EXG) Defended Scenario Normal Conditions

PLOT STATUS: FINAL DATE: 26-11-2024

DRAWN: MH	CHECKED: AA	APPROVED: LS	PLOT SCALE AT A3: 1:6000
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PLOT NAME: 15679\_EBBW\_Q100CC25\_DEF\_EXG\_NC\_023\_V\_Max REVISION: -





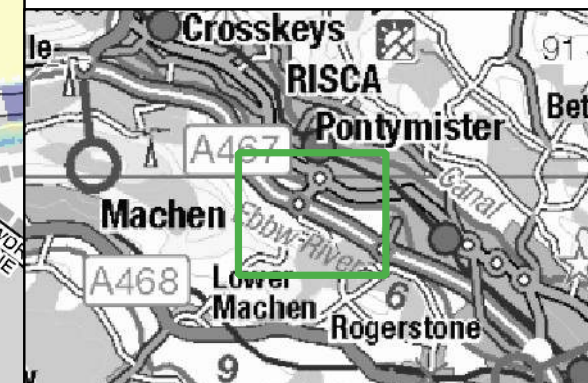
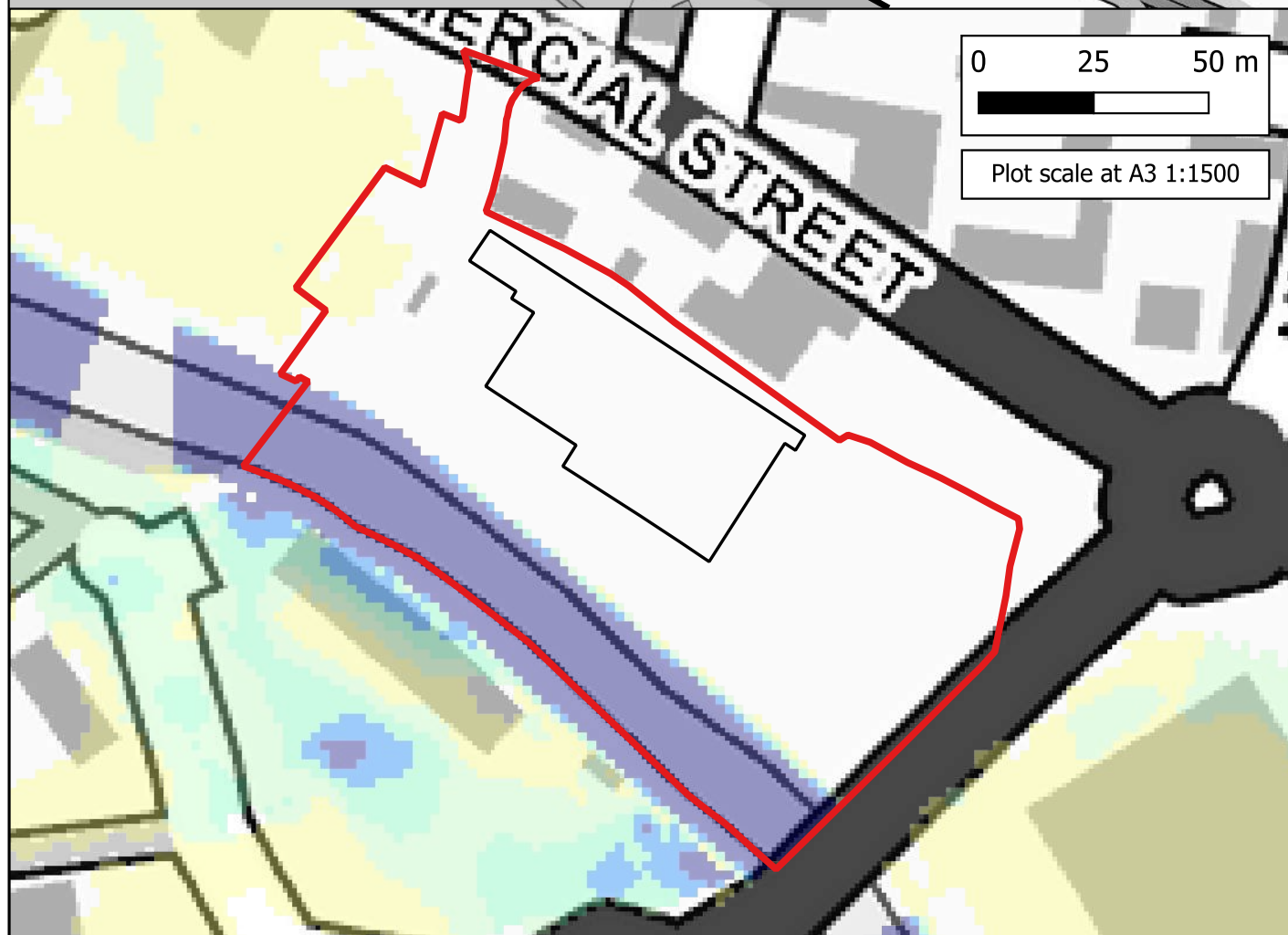
Notes:  
1) All dimensions are in metres and all levels in metres above Ordnance Datum unless stated otherwise.

**LEGEND**

- Site Boundary
- Proposed Store

Maximum Flood Velocity (m/s)

- 0.0 - 0.3
- 0.3 - 0.6
- 0.6 - 0.9
- 0.9 - 1.2
- > 1.2



CLIENT:



**Waterco**  
www.waterco.co.uk

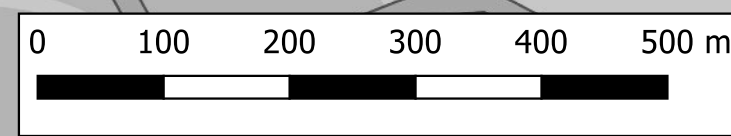
SCHEME:  
**Land at Pontymister, Risca**

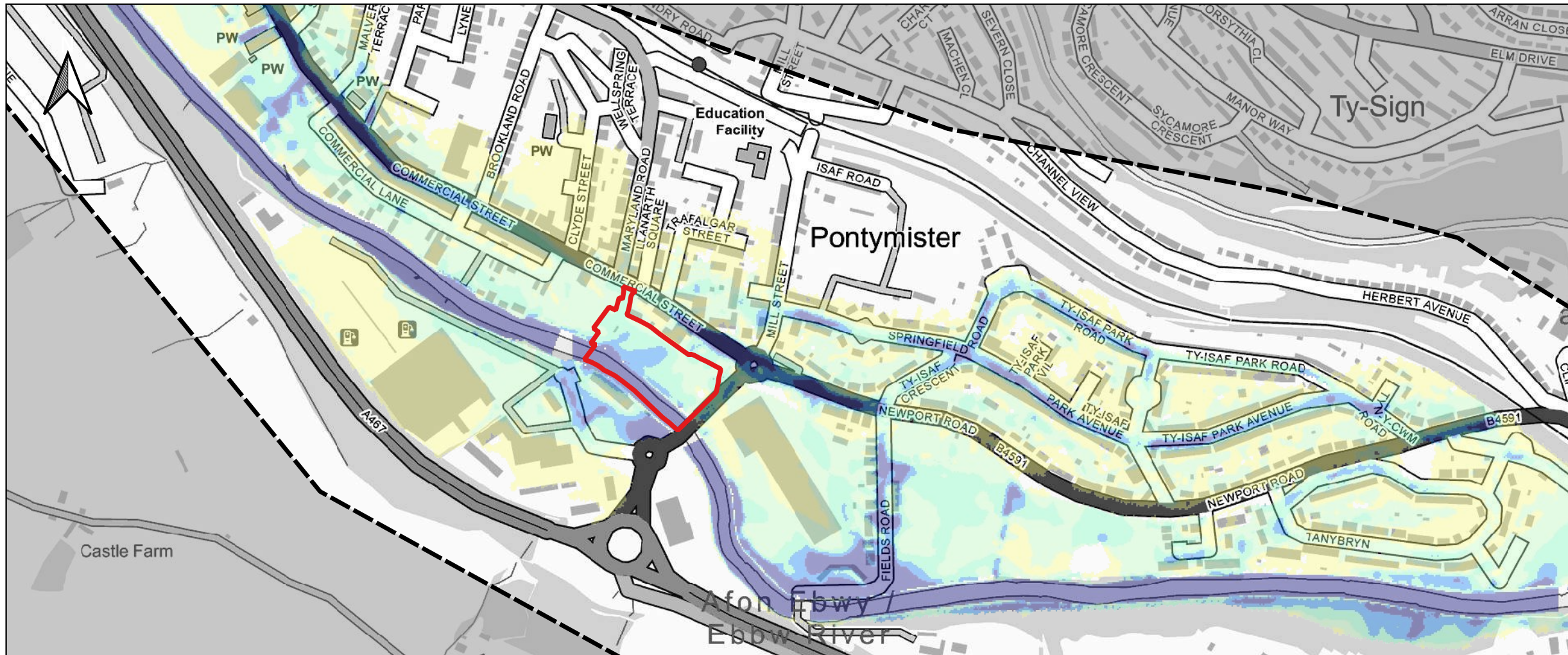
PLOT TITLE: Maximum Flood Velocity  
1% AEP Plus 25% Climate Change Fluvial Event  
Proposed Development Scenario (DEV)  
Defended Scenario  
Normal Conditions

PLOT STATUS:	FINAL	DATE:	26-11-2024
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DRAWN:	CHECKED:	APPROVED:	PLOT SCALE AT A3:
MH	AA	LS	1:6000

PLOT NAME:	REVISION:
15679_EBBW_Q100CC25_DEF_DEV_NC_027_V_Max	-

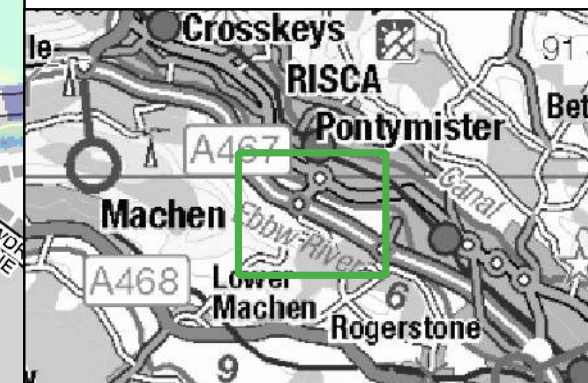
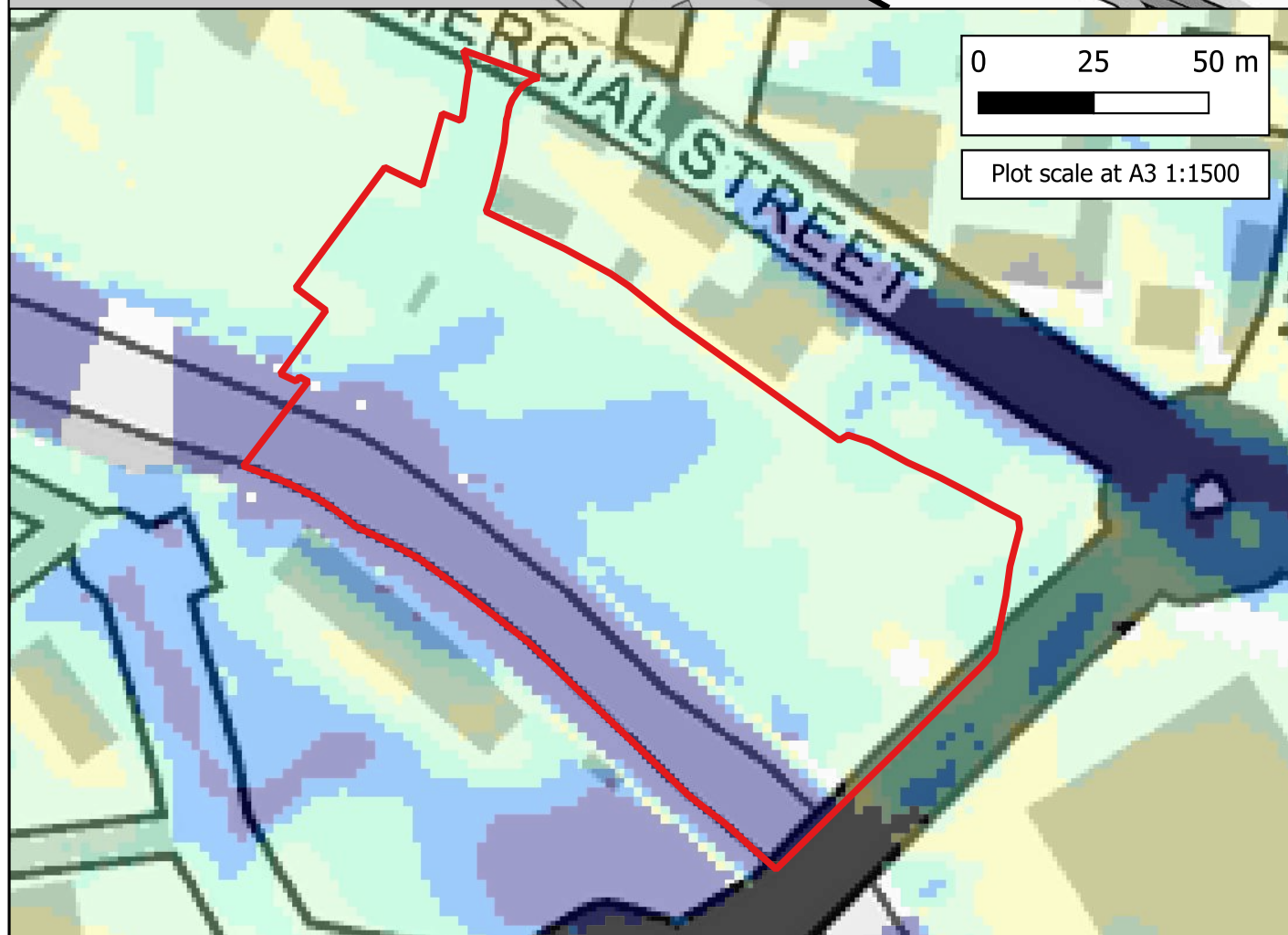




Notes:  
 1) All dimensions are in metres and all levels in metres above Ordnance Datum unless stated otherwise.

**LEGEND**

- Site Boundary
- Maximum Flood Velocity (m/s)
- 0.0 - 0.3
- 0.3 - 0.6
- 0.6 - 0.9
- 0.9 - 1.2
- > 1.2



CLIENT:




www.waterco.co.uk

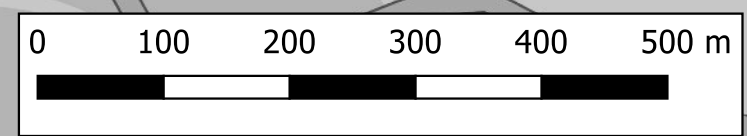
SCHEME:  
**Land at Pontymister, Risca**

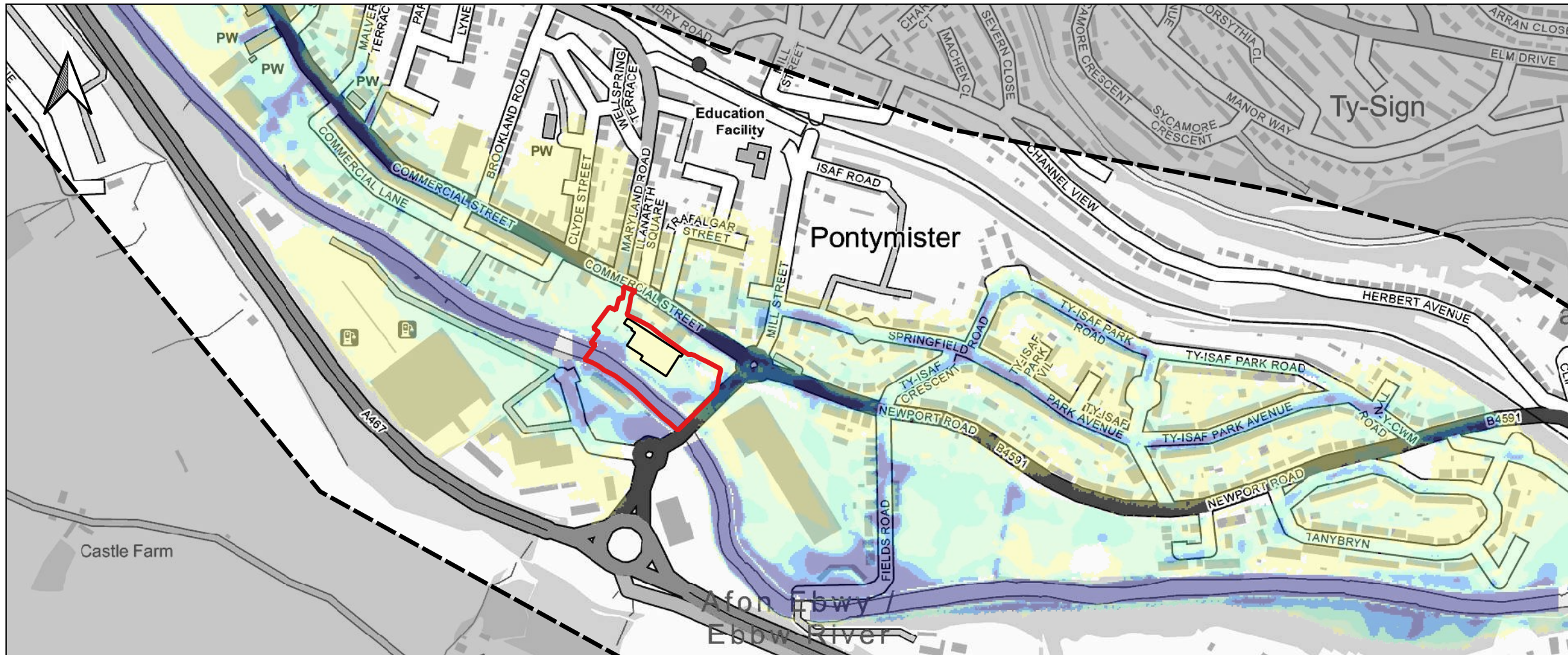
PLOT TITLE: Maximum Flood Velocity  
 1% AEP Plus 70% Climate Change Fluvial Event  
 Existing Scenario (EXG)  
 Defended Scenario  
 Normal Conditions

PLOT STATUS: FINAL DATE: 26-11-2024

DRAWN: MH	CHECKED: AA	APPROVED: LS	PLOT SCALE AT A3: 1:6000
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PLOT NAME: 15679_EBBW_Q100CC70_DEF_EXG_NC_023_V_Max	REVISION: -
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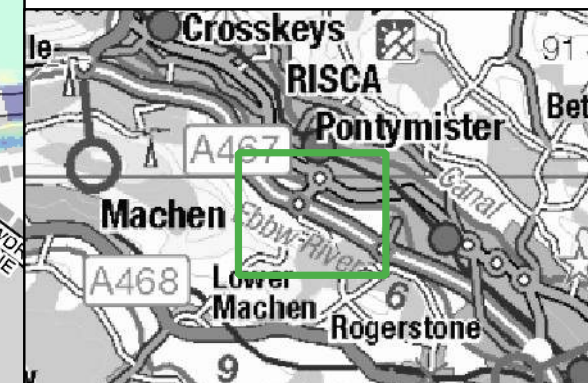
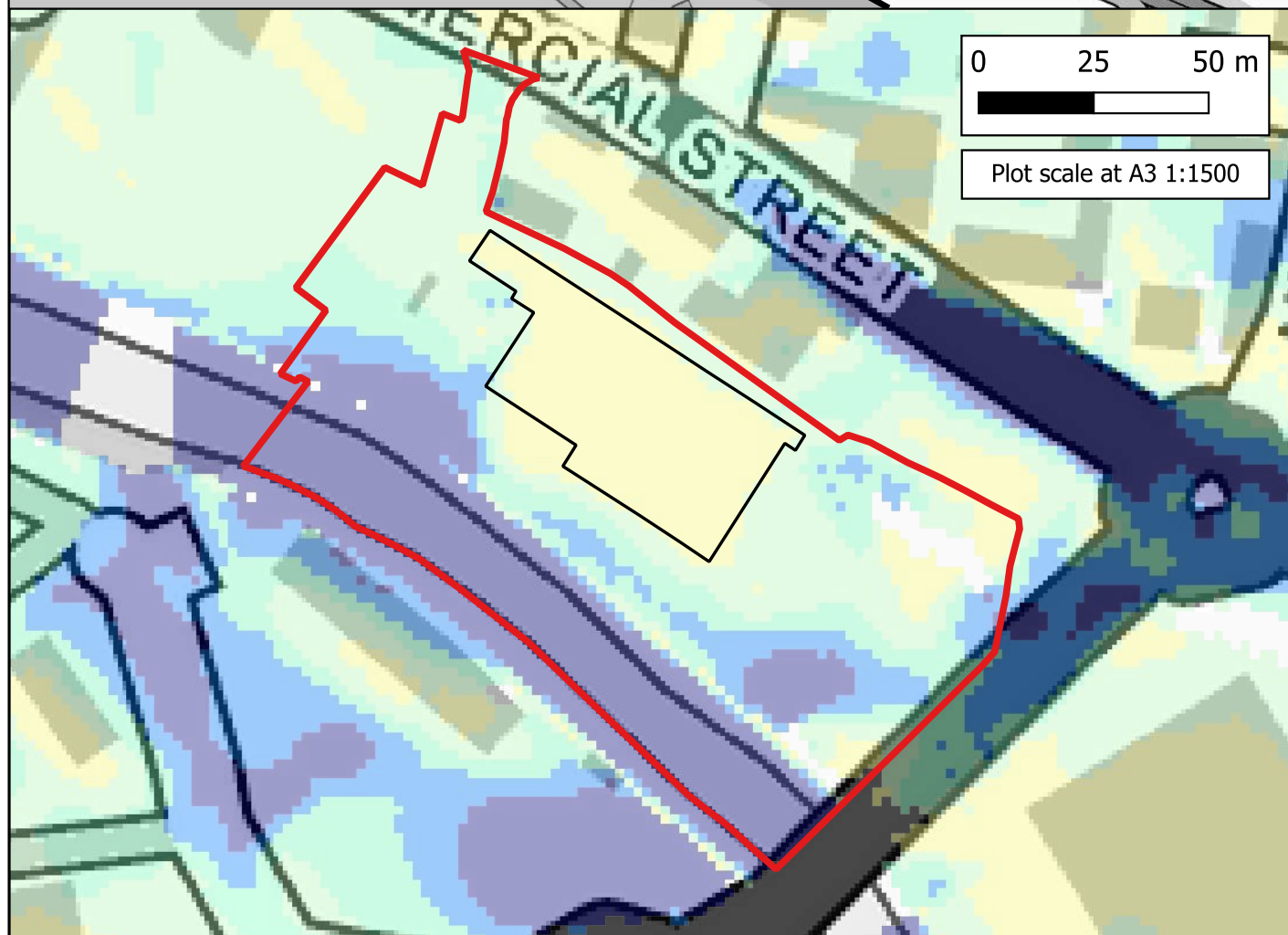
Notes:  
 1) All dimensions are in metres and all levels in metres above Ordnance Datum unless stated otherwise.

**LEGEND**

- Site Boundary
- Proposed Store

Maximum Flood Velocity (m/s)

- 0.0 - 0.3
- 0.3 - 0.6
- 0.6 - 0.9
- 0.9 - 1.2
- > 1.2



CLIENT:



**Waterco**  
 www.waterco.co.uk

SCHEME:  
**Land at Pontymister, Risca**

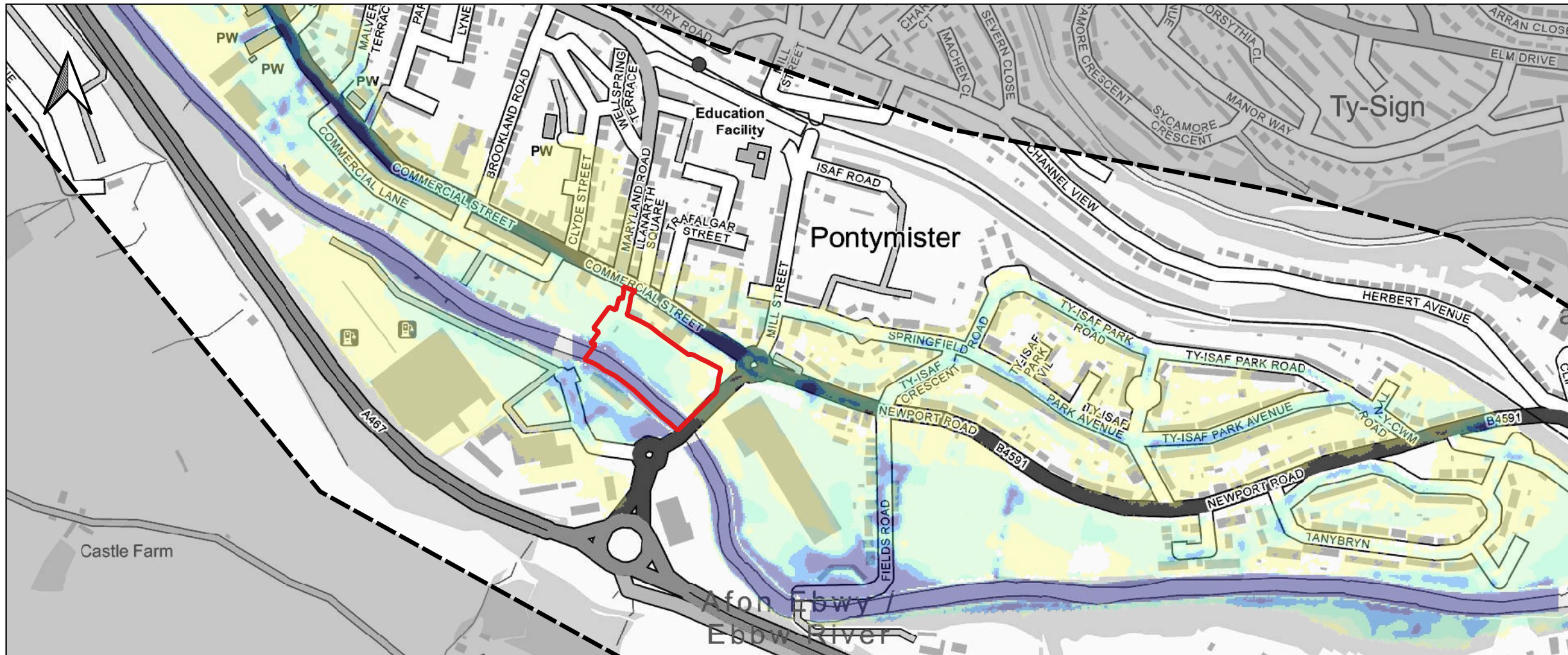
PLOT TITLE: Maximum Flood Velocity  
 1% AEP Plus 70% Climate Change Fluvial Event  
 Proposed Development Scenario (DEV)  
 Defended Scenario  
 Normal Conditions

PLOT STATUS: FINAL DATE: 26-11-2024

DRAWN: MH	CHECKED: AA	APPROVED: LS	PLOT SCALE AT A3: 1:6000
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PLOT NAME: 15679_EBBW_Q100CC70_DEF_DEV_NC_027_V_Max	REVISION: -
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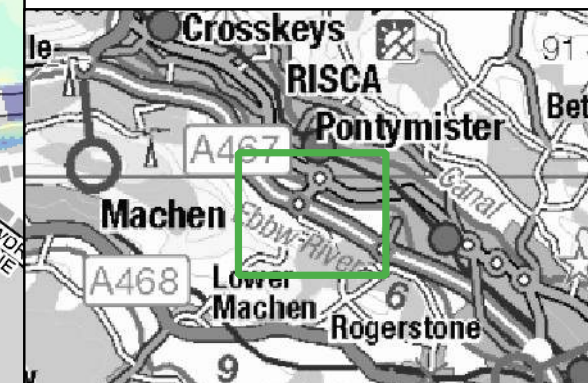
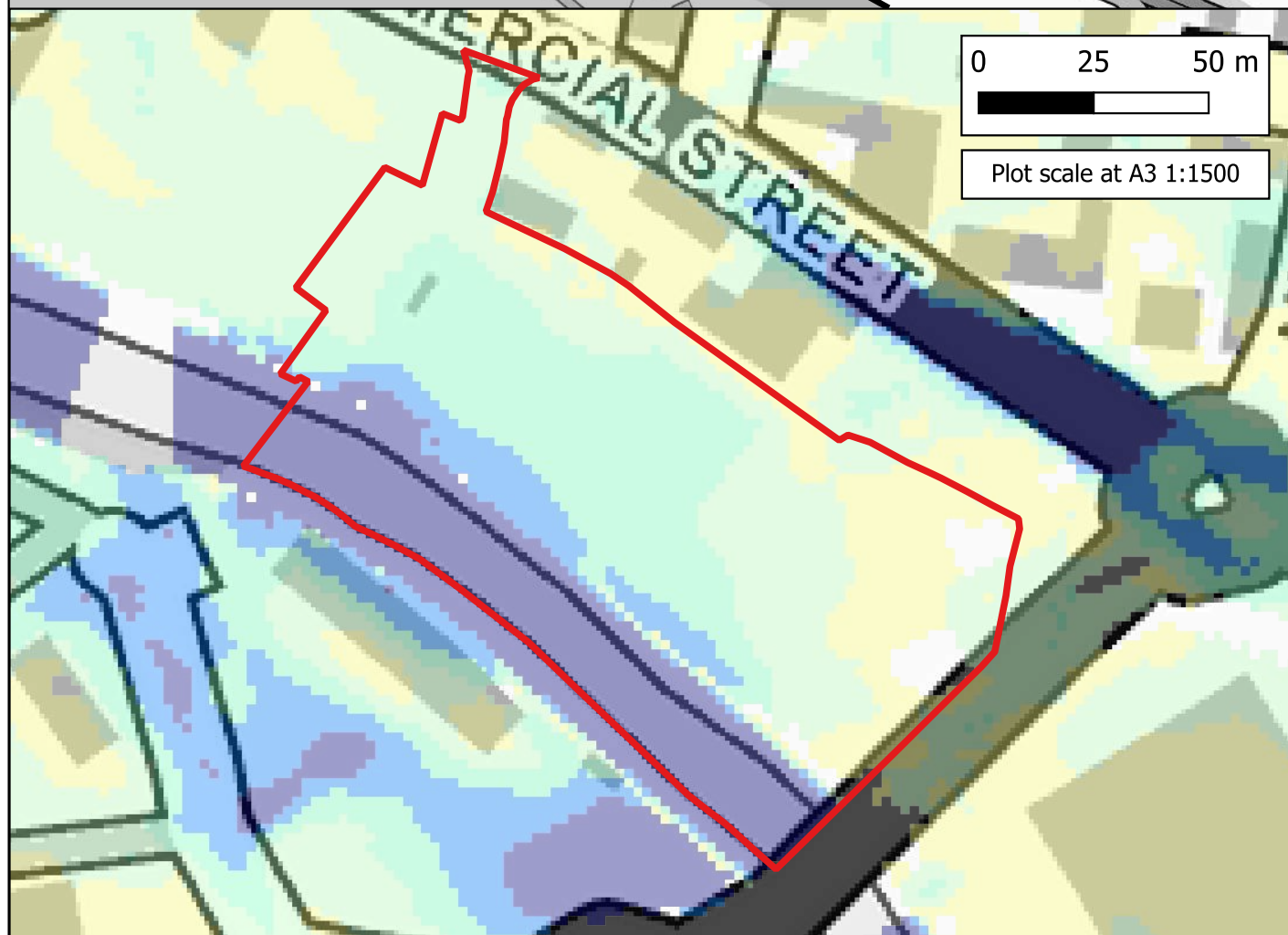




Notes:  
1) All dimensions are in metres and all levels in metres above Ordnance Datum unless stated otherwise.

**LEGEND**

- Site Boundary
- Maximum Flood Velocity (m/s)
- 0.0 - 0.3
- 0.3 - 0.6
- 0.6 - 0.9
- 0.9 - 1.2
- > 1.2



CLIENT:




www.waterco.co.uk

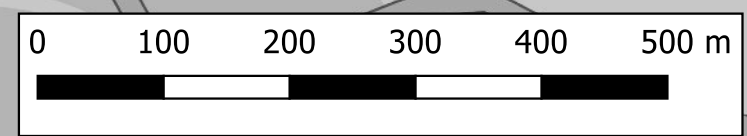
SCHEME:  
**Land at Pontymister, Risca**

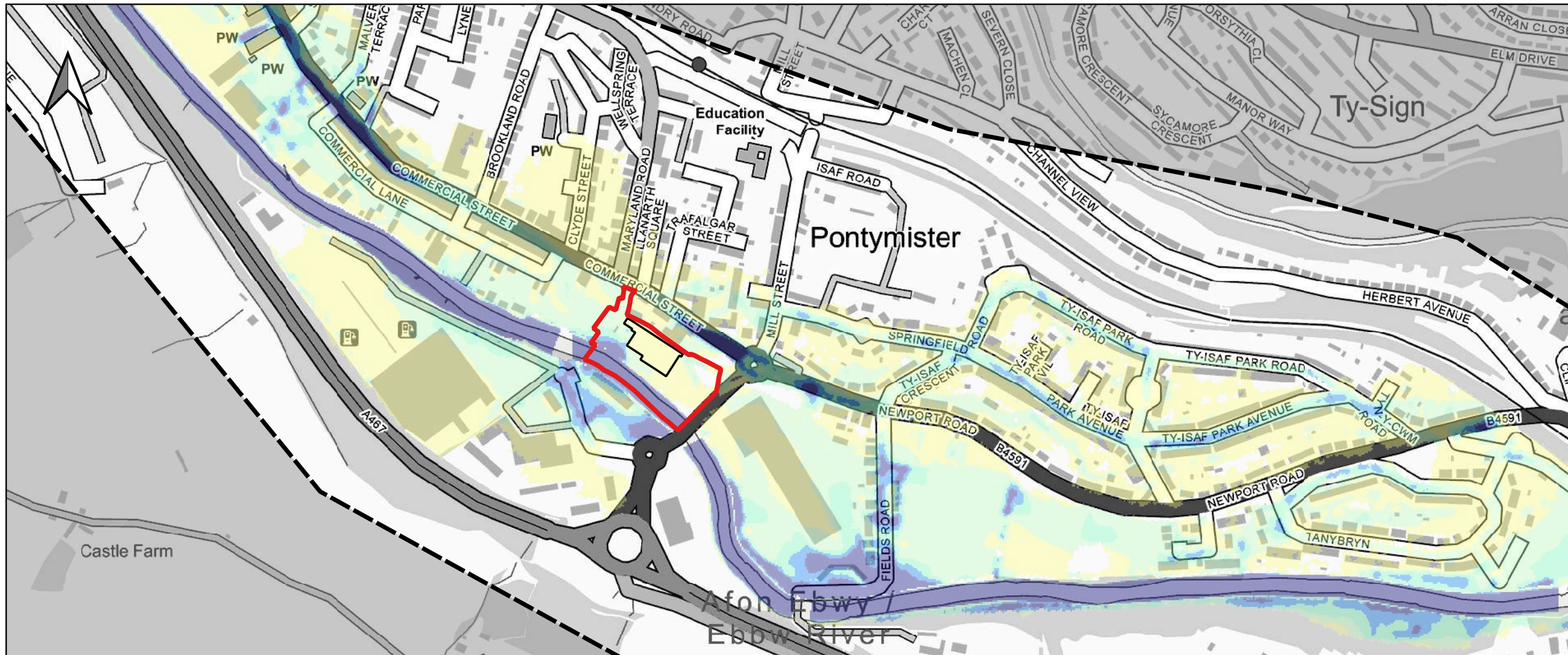
PLOT TITLE: Maximum Flood Velocity  
0.1% AEP Fluvial Event  
Existing Scenario (EXG)  
Defended Scenario  
Normal Conditions

PLOT STATUS: FINAL DATE: 26-11-2024

DRAWN: MH	CHECKED: AA	APPROVED: LS	PLOT SCALE AT A3: 1:6000
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PLOT NAME: 15679\_EBBW\_Q1000\_DEF\_EXG\_NC\_023\_V\_Max REVISION: -





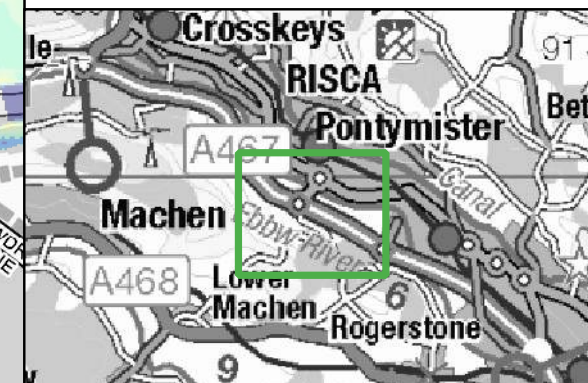
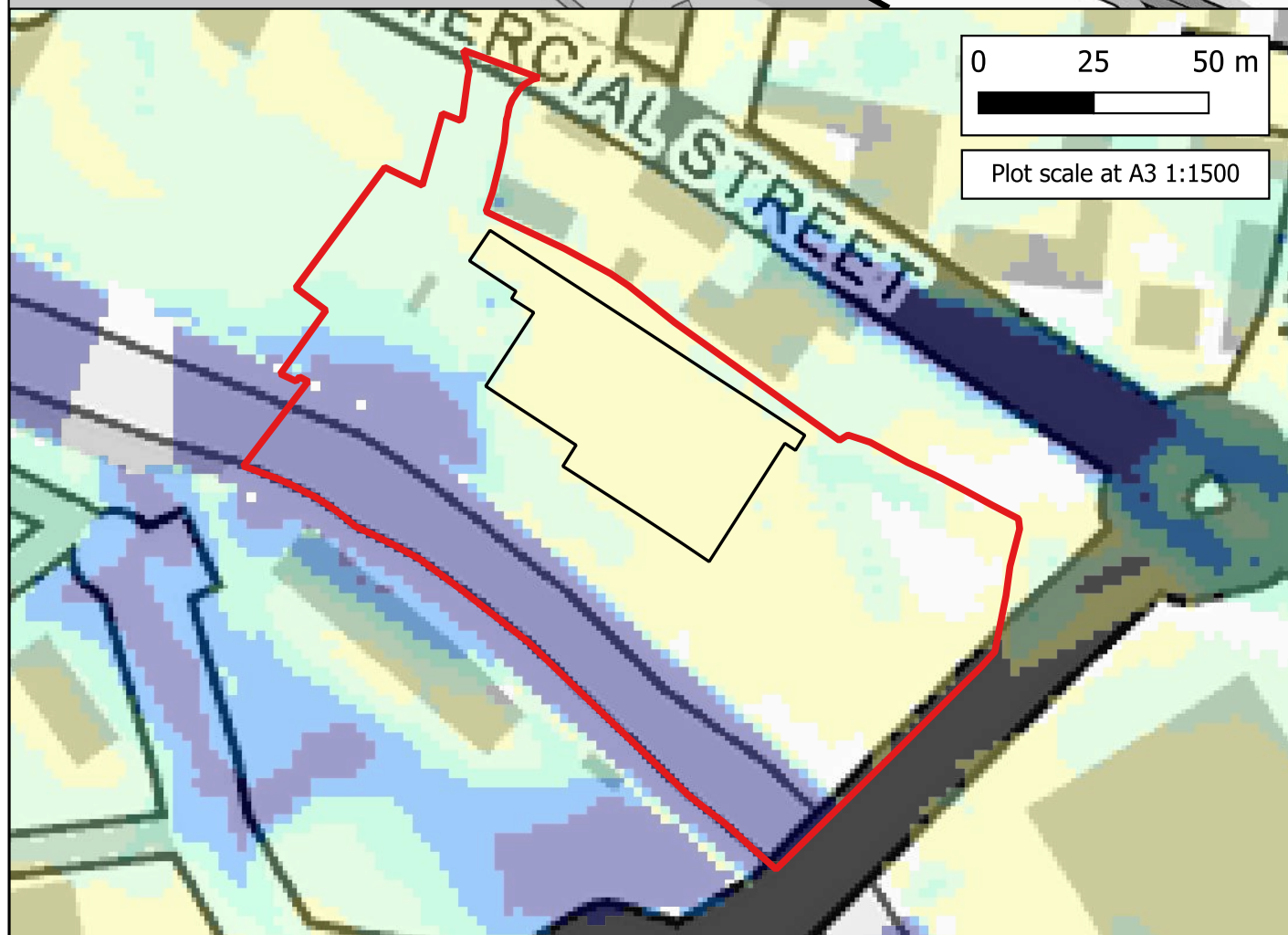
Notes:  
 1) All dimensions are in metres and all levels in metres above Ordnance Datum unless stated otherwise.

**LEGEND**

- Site Boundary
- Proposed Store

Maximum Flood Velocity (m/s)

- 0.0 - 0.3
- 0.3 - 0.6
- 0.6 - 0.9
- 0.9 - 1.2
- > 1.2



SCHEME:  
**Land at Pontymister, Risca**

PLOT TITLE:  
 Maximum Flood Velocity  
 0.1% AEP Fluvial Event  
 Proposed Development Scenario (DEV)  
 Defended Scenario  
 Normal Conditions

PLOT STATUS: **FINAL** DATE: **26-11-2024**

DRAWN: MH	CHECKED: AA	APPROVED: LS	PLOT SCALE AT A3: 1:6000
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PLOT NAME: 15679\_EBBW\_Q1000\_DEF\_DEV\_NC\_027\_V\_Max REVISION: -

