

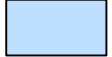



**KEY:**

-  Site Boundary
-  High Risk
-  Moderate Risk
-  Low Risk

P02	15/12/25	RLB updated	DL	DA	DA
P01	03/07/25	Issued for comment / approval	SD	DA	DA
Rev	Date	Description	DRA	CHK	APP

**Project**  
Henthorn Road, Clitheroe

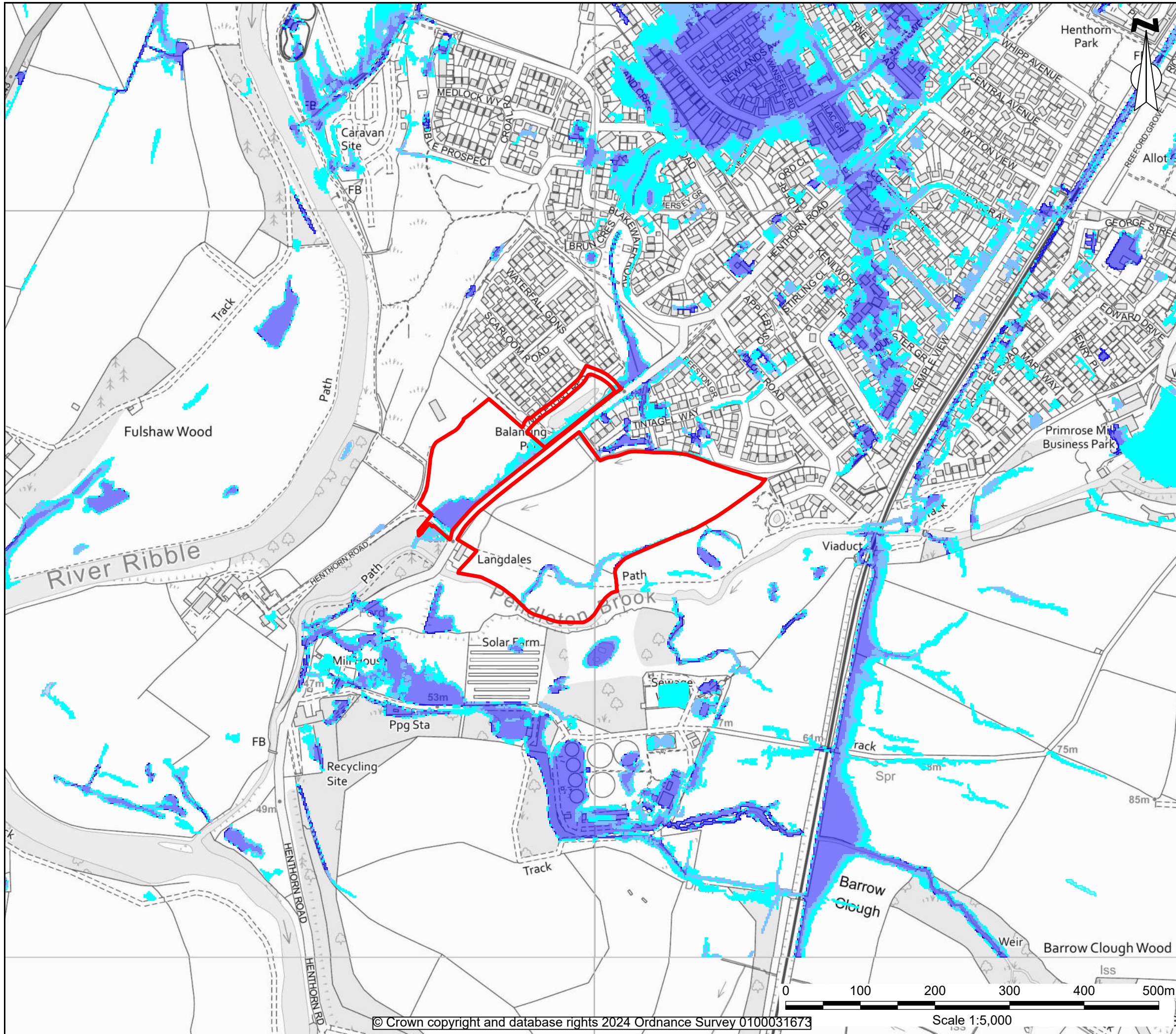
**Client**  
Gladman Developments Ltd

**Drawing Title**  
EA Risk of Flooding from Surface Water





<b>Scale</b> 1:5000@A3	<b>Date</b> 03/07/25	<b>Status</b> Preliminary
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<b>DWG No.</b> SHF1132306-ENZ-XX-XX-DR-Y-0006.1	<b>Revision</b> P02
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Sheffield 0114 321 5151	Belfast 07377673948	



**KEY:**

-  Site Boundary
-  High Risk
-  Moderate Risk
-  Low Risk

P02	15/12/25	RLB updated	DL	DA	DA
P01	03/07/25	Issued for comment / approval	SD	DA	DA
Rev	Date	Description	DRA	CHK	APP

**Project**  
Henthorn Road, Clitheroe

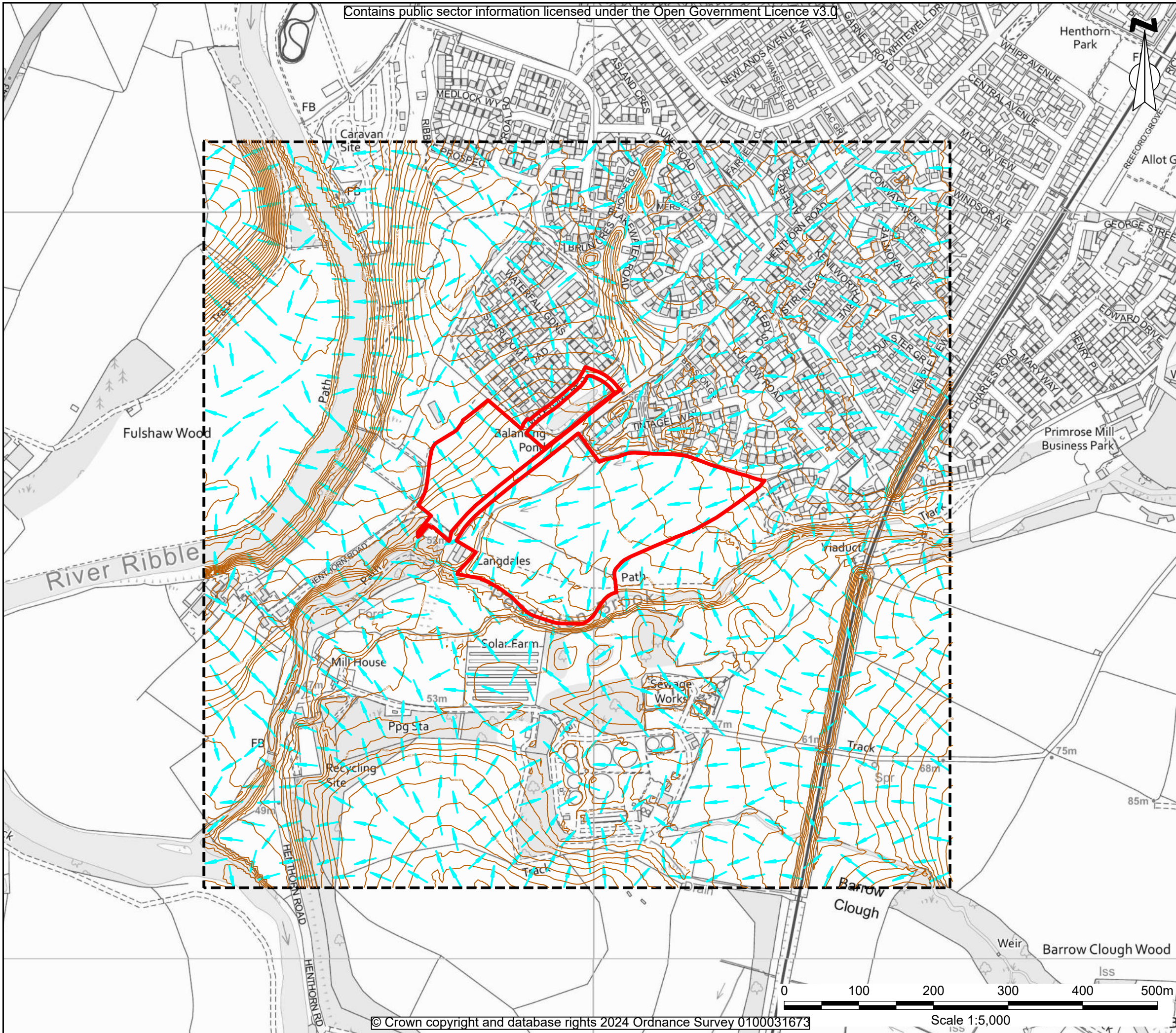
**Client**  
Gladman Developments Ltd

**Drawing Title**  
EA Risk of Flooding from Surface Water (Climate Change)

<b>Scale</b> 1:5000@A3	<b>Date</b> 03/07/25	<b>Status</b> Preliminary
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<b>DWG No.</b> SHF1132306-ENZ-XX-XX-DR-Y-0006.2	<b>Revision</b> P02
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**KEY:**

- Site Boundary
- Contours
- Surface Water Flow Path

P02	15/12/25	RLB updated	DL	DA	DA
P01	26/11/24	Issued for comment / approval	SD	DA	DA
Rev	Date	Description	DRA	CHK	APP

**Project**  
Henthorn Road, Clitheroe

**Client**  
Gladman Developments Ltd

**Drawing Title**  
Flow Pathway Analysis

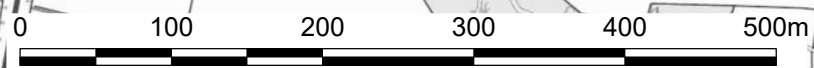
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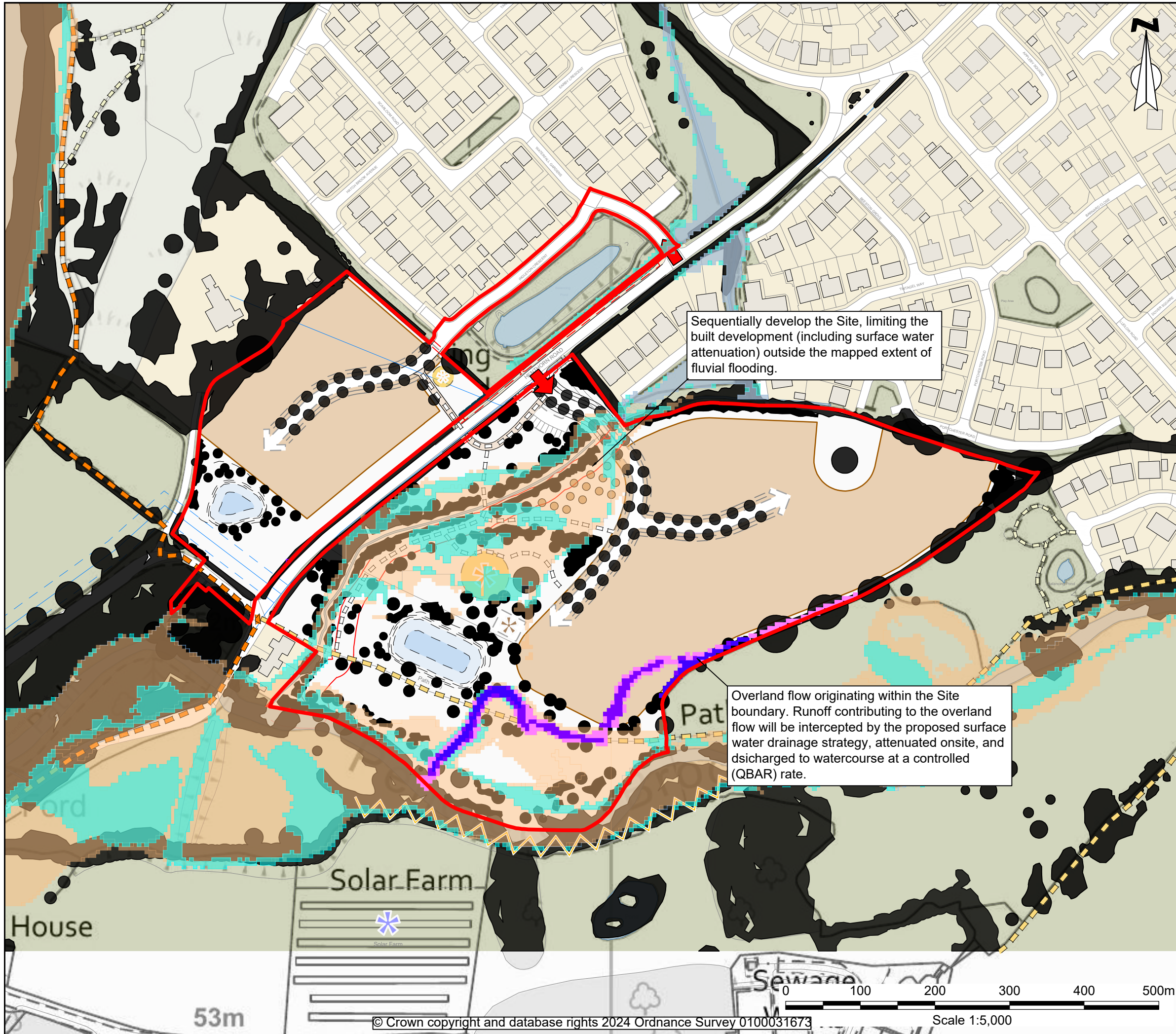
<b>DWG No.</b> SHF1132306-ENZ-XX-XX-DR-Y-0007	<b>Revision</b> P02
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Sequentially develop the Site, limiting the built development (including surface water attenuation) outside the mapped extent of fluvial flooding.

Overland flow originating within the Site boundary. Runoff contributing to the overland flow will be intercepted by the proposed surface water drainage strategy, attenuated onsite, and discharged to watercourse at a controlled (QBAR) rate.

**KEY:**

- Site Boundary
- Surface Water+CC - High Risk
- Surface Water+CC - Moderate Risk
- Surface Water+CC - Low Risk
- Flood Zone 3
- Flood Zone 2
- Flood Zone 1
- Flood Zone Climate Change

P02	15/12/25	Updated DFP	HDR	DA	DA
P01	29/09/25	Issued for comment / approval	DL	DA	DA
Rev	Date	Description	DRA	CHK	APP

**Project**  
Henthorn Road, Clitheroe

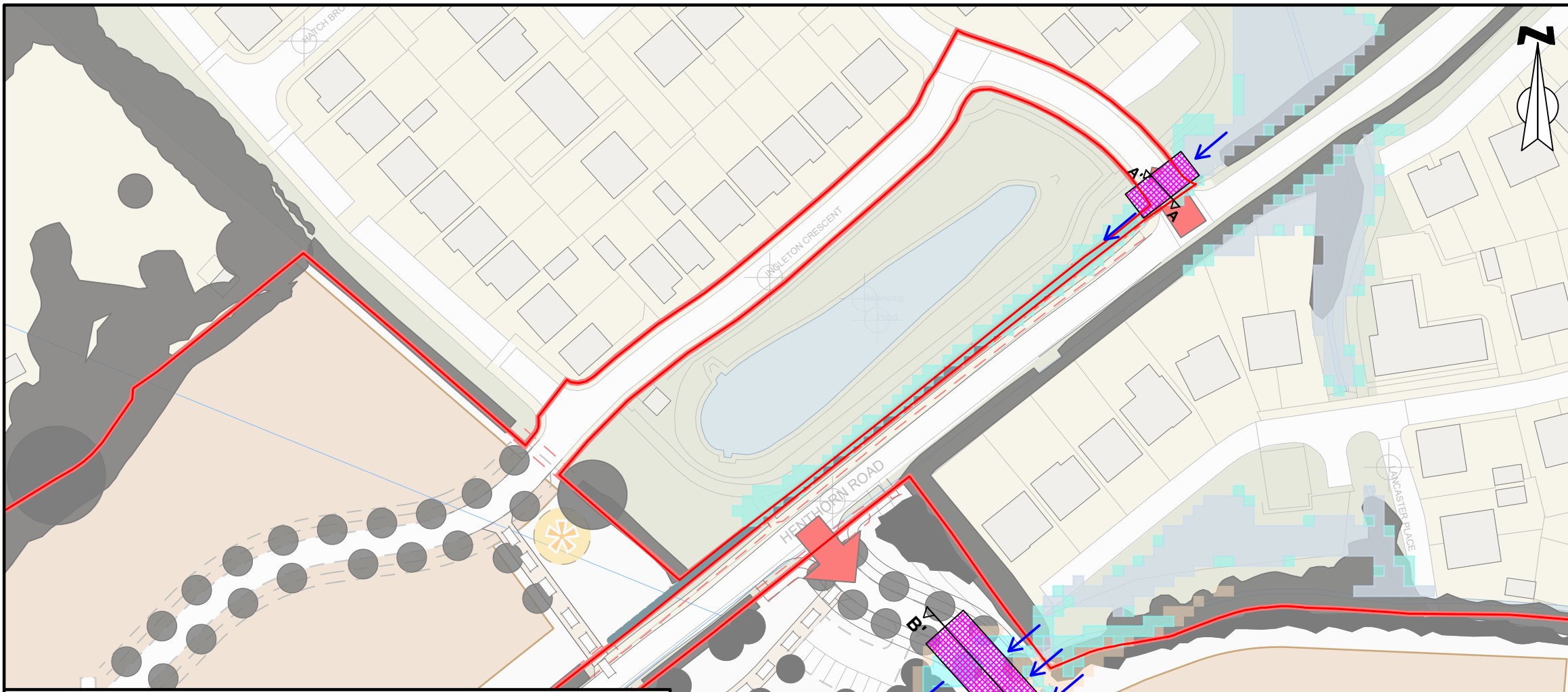
**Client**  
Gladman Developments Ltd

**Drawing Title**  
Fluvial and Surface Water Flood Outline Overlay

<b>Scale</b> 1:5000@A3	<b>Date</b> 15/12/25	<b>Status</b> Preliminary
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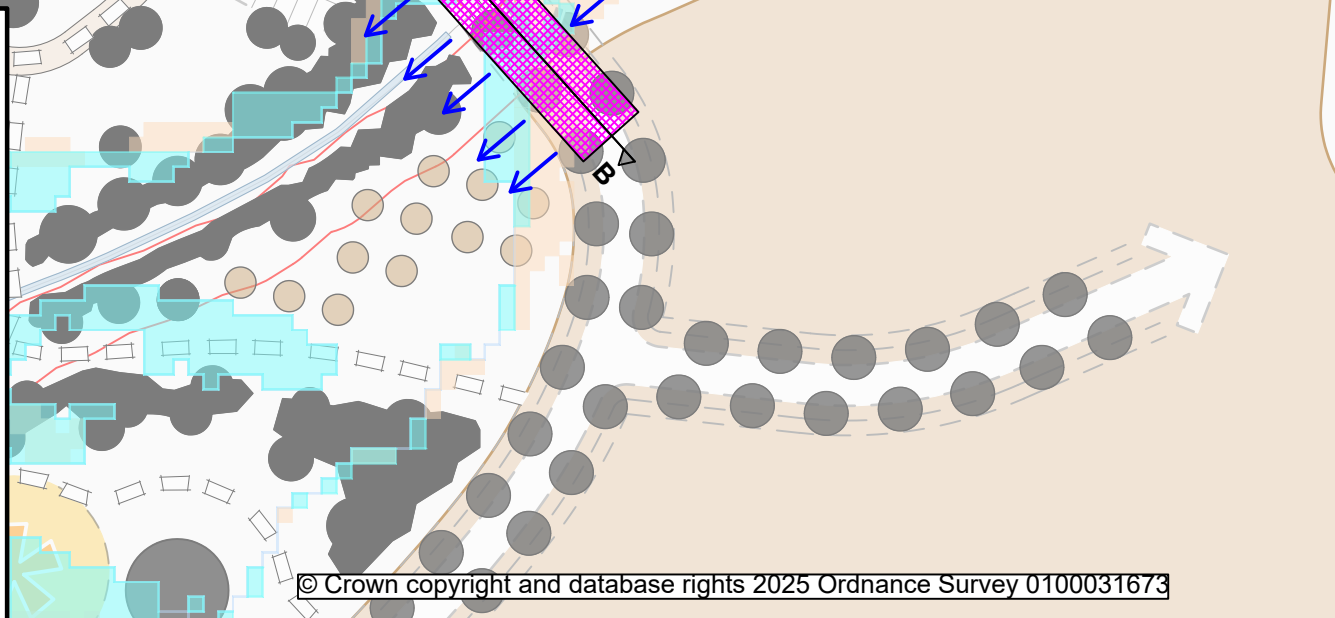
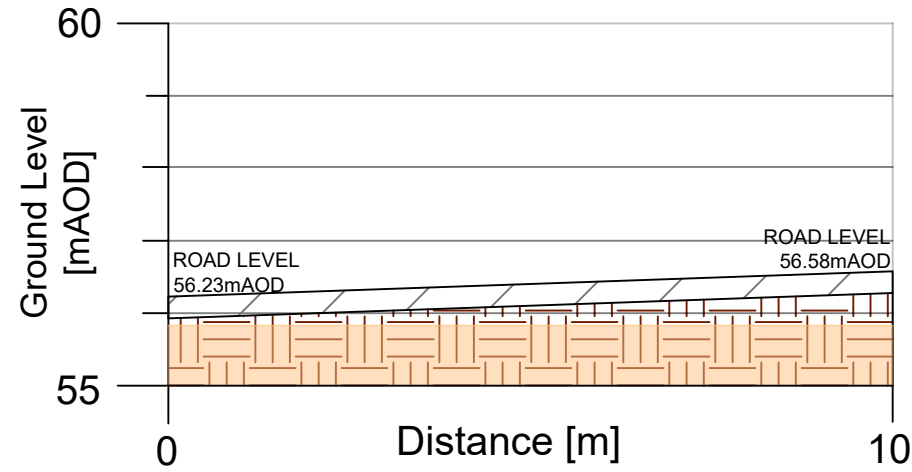
<b>DWG No.</b> SHF1132306-ENZ-XX-XX-DR-Y-0008	<b>Revision</b> P02
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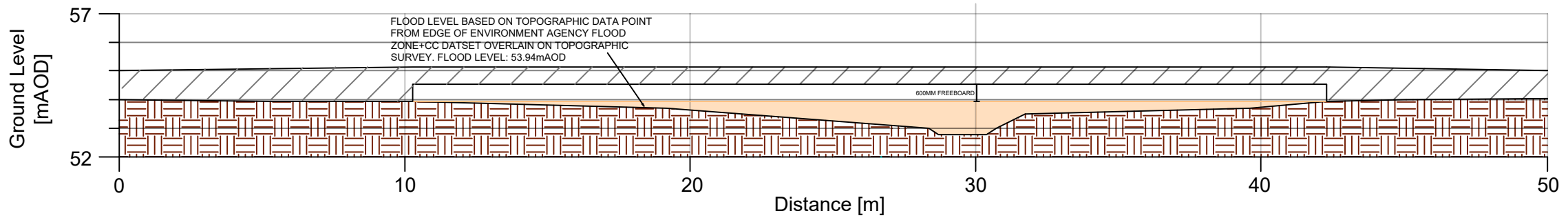


- MAP KEY:**
- Site Boundary
  - Flood Zone Climate Change
  - Flood Zone 3
  - Flood Zone 2
  - Flood Zone 1
  - Crossing Locations
  - Crossing Cross Section
  - Direction of Flow
- SECTION KEY:**
- Soil/Below Ground
  - Road Deck
  - Flood Zone Climate Change

**SECTION A - A'**



**SECTION B - B'**



P01	16/12/25	Issued for comment / approval	HDR	DA	DA
Rev	Date	Description	DRA	CHK	APP

**Project**  
Henthorn Road, Clitheroe

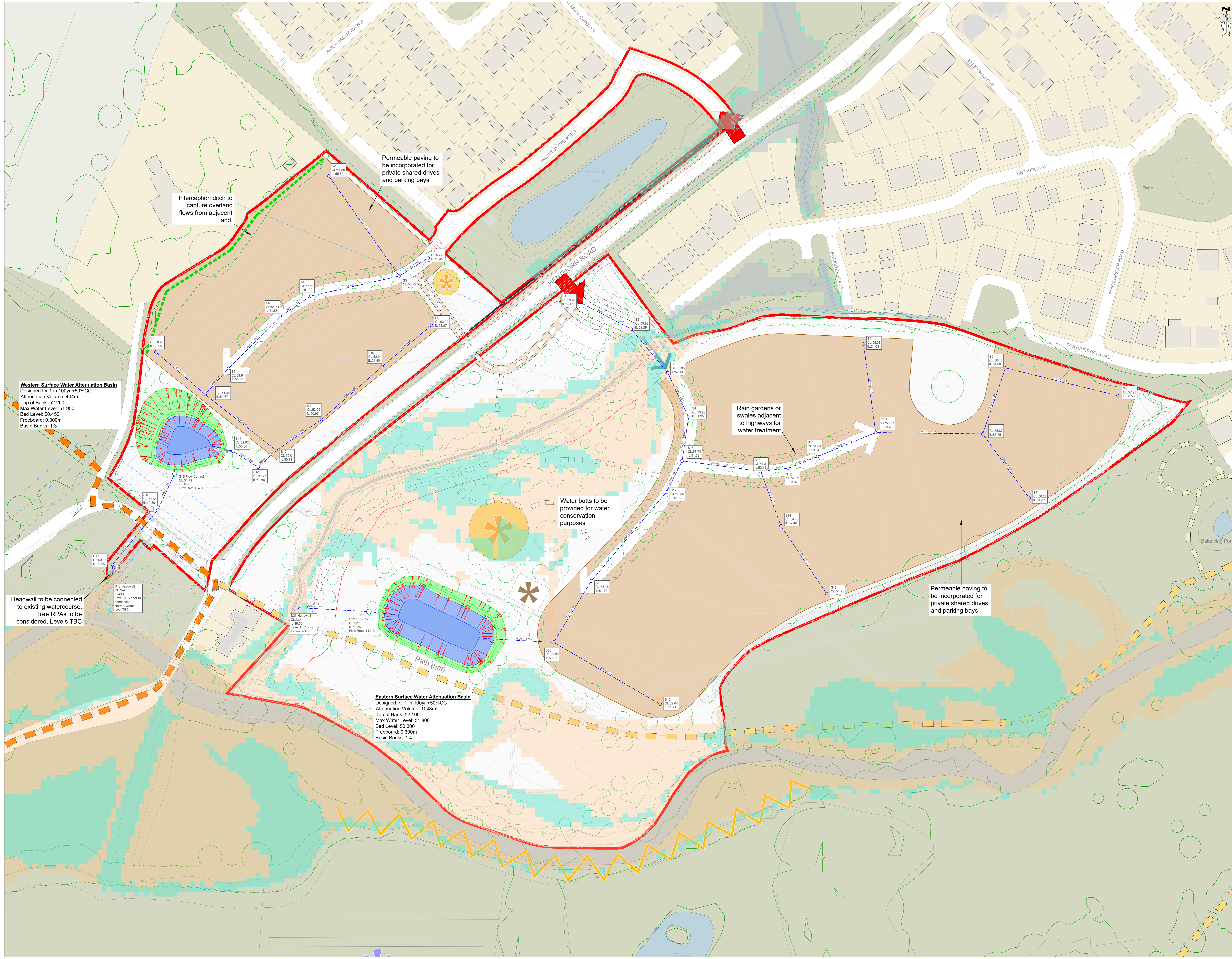
**Client**  
Gladman Developments Ltd

**Drawing Title**  
Indicative Road Crossing Sections

<b>Scale</b> NTS	<b>Date</b> 16/12/25	<b>Status</b> Preliminary
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<b>DWG No.</b> SHF1132306-ENZ-XX-XX-DR-Y-0009	<b>Revision</b> P01
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- KEY:**
- Site Boundary
  - Surface Water Sewer
  - Surface Water Manhole
  - Interception Ditch
  - Flood Zone 3
  - Flood Zone 2
  - Flood Zone Climate Change

**NOTES:**

ALL DIMENSIONS ARE IN METRES UNLESS STATED OTHERWISE

THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT DRAWINGS AND DOCUMENTS ASSOCIATED WITH THIS PROJECT.

ALL EXISTING AND PROPOSED DIMENSIONS, LEVELS AND LOCATIONS TO BE CHECKED AND VERIFIED BY THE MAIN CONTRACTOR ON SITE PRIOR TO THE COMMENCEMENT OF THE WORKS AND ANY ANOMALIES REPORTED TO THE ENGINEER.

**Western Surface Water Attenuation Basin**  
 Designed for 1 in 100yr +50%CC  
 Attenuation Volume: 444m³  
 Top of Bank: 52.250  
 Max Water Level: 51.950  
 Bed Level: 50.450  
 Freeboard: 0.300m  
 Basin Banks: 1:3

**Eastern Surface Water Attenuation Basin**  
 Designed for 1 in 100yr +50%CC  
 Attenuation Volume: 1043m³  
 Top of Bank: 52.100  
 Max Water Level: 51.800  
 Bed Level: 50.300  
 Freeboard: 0.300m  
 Basin Banks: 1:4

Headwall to be connected to existing watercourse. Tree RPAs to be considered. Levels TBC

Interception ditch to capture overland flows from adjacent land.

Permeable paving to be incorporated for private shared drives and parking bays

Rain gardens or swales adjacent to highways for water treatment

Water butts to be provided for water conservation purposes

Permeable paving to be incorporated for private shared drives and parking bays

P03	15/12/25	Updated to DPP rev P16 and outfall route for western parcel applied.	RB	DA	DA
P02	01/10/25	Western parcel outfall route amended.	RB	DA	DA
P01	29/09/25	Issued for comment / approval	RB	DA	DA
Rev	Date	Description	DRA	CHK	APP

**Project**  
Henthorn Road, Clitheroe

**Client**  
Gladman Developments Ltd  
**Drawing Title**  
Outline Surface Water Drainage

**Scale**  
1:500@A0  
**Date**  
29/09/25  
**Status**  
Preliminary  
**DWG No.**  
SHF.1132.306-ENZ-XX-XX-DR-D-0010 P03  
**Revision**

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