



Action for the River Kennet

Elcot Park, Marlborough, Wiltshire, SN8 2BG
t: 01672 512 700
w: riverkennet.org
Registered Charity No: 1120725

RIVER SHALBOURNE FLOODPLAIN RECONNECTION PROJECT

POLESDON ESTATE - TOPOGRAPHIC SURVEY & CONCEPT DESIGN



CONTENTS

1. Plan View Drawings

- 1. Existing Plan View (1:1,500) River Shalbourne
- 2. Existing Plan View (1:1,500) Environment Agency Flood Map
- 3. Existing Plan View (1:1,500) LiDAR 1m Relative Elevation Model
- 4. Existing Plan View (1:1,500) OS Six Inch 1886 Overlay
- 5. Existing Plan View (1:1,500) Drone Orthomosaic
- 6. Existing Plan View (1:1,500) GIS Overland Flow Pathways
- 7. Existing Plan View (1:1,500) Topographic Survey Locations
- 8. Proposed Plan View (1:1,500) Concept Design

2. Long Section Drawings

- 9. Long Section 1 (Existing & Proposed)
- 10. Long Section 2 (Existing & Proposed)

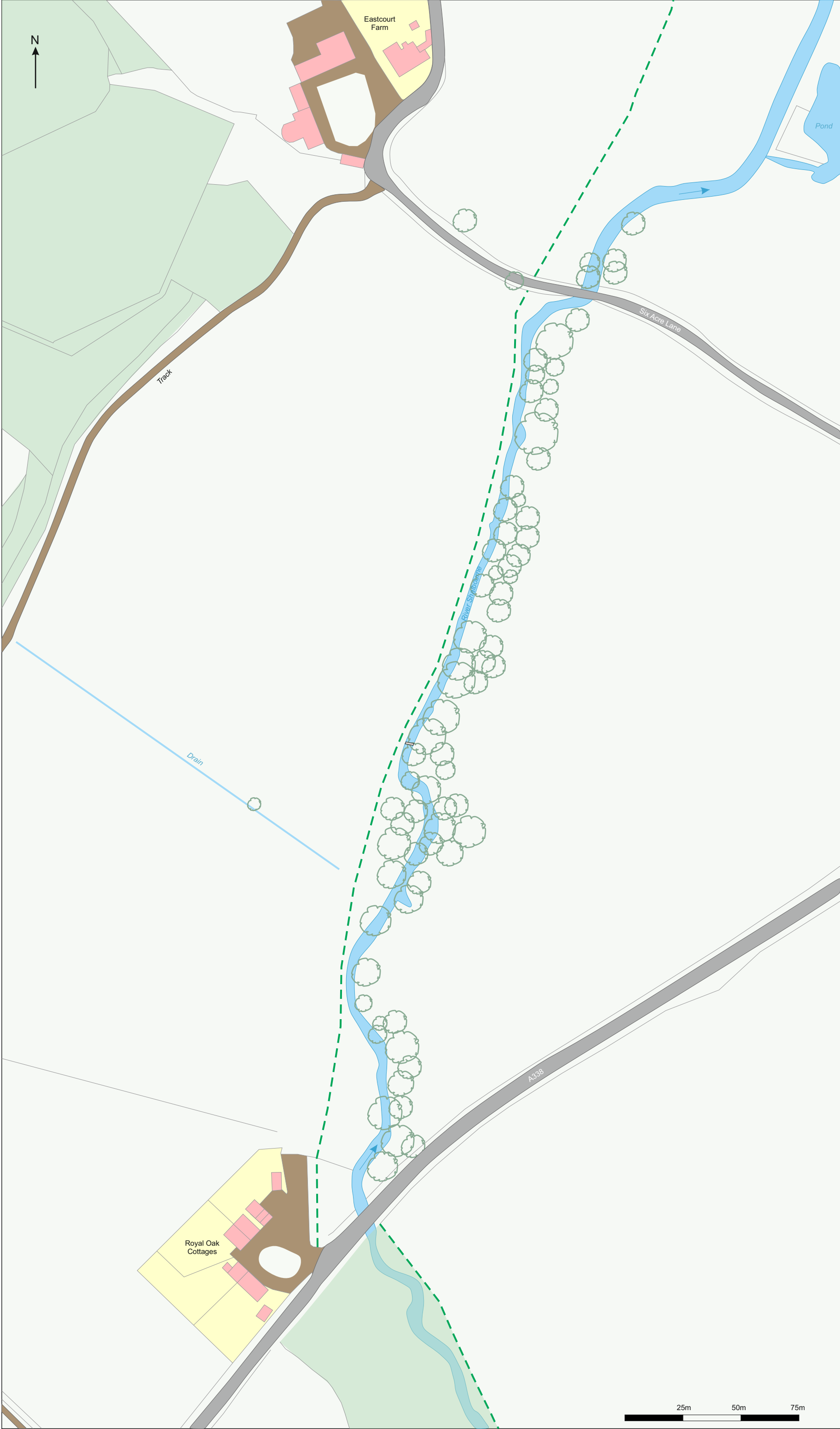
3. Cross Section Drawings

- 11. Cross Section 1 (Existing & Proposed) - River
- 12. Cross Section 3 (Existing & Proposed) - River
- 13. Cross Section 5 (Existing & Proposed) - River
- 14. Cross Section 6 (Existing & Proposed) - Ditch
- 15. Cross Section 7 (Existing & Proposed) - Ditch
- 16. Cross Section 9 (Existing & Proposed) - Ditch

Appendicies - Case Studies

- i. Lukely Brook Floodplain Reconnection
- ii. River Og Floodplain Reconnection
- iii. River Dorn Floodplain Reconnection

PLAN VIEW DRAWINGS





Action for the River Kennet

KEY:

- River Shalbourne
- Road
- Track / hard standing
- Building
- Property
- Woodland
- Tree
- Public RoW
- Concrete Sill

Safety, health and environmental information

Risks:

Utilities search required, farm machinery, tree works, public right of way, working in and near water.

Notes:

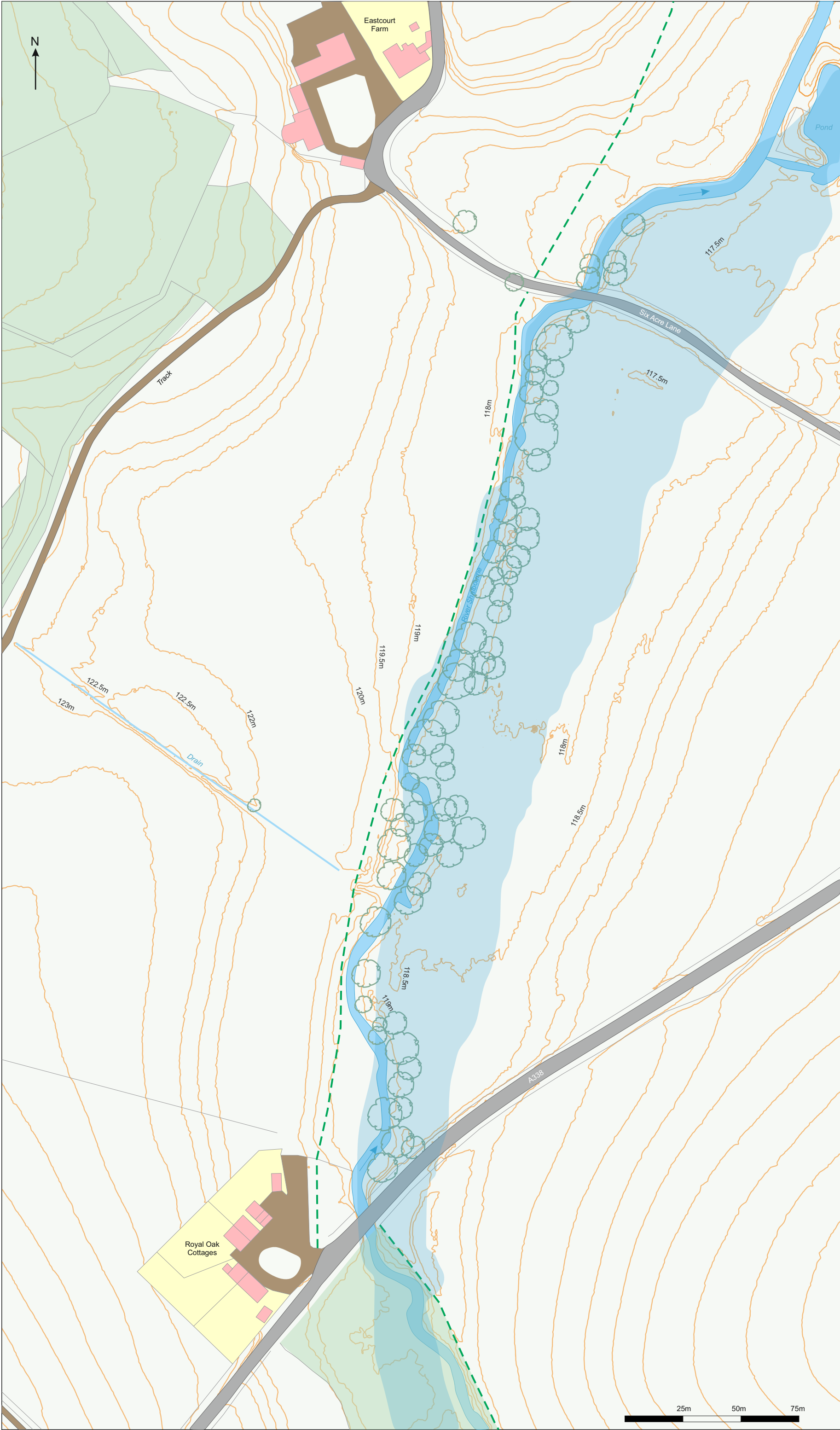
- Survey detail has been best-fitted to digital Ordnance Survey & CBE topographic/drone survey data.
- Dimensions should not be scaled. All dimensions should be checked on site before construction.
- Preliminary data is generally unchecked, therefore it is not guaranteed and should not be used for construction. Further site investigation is likely to be required.
- Levels indicated are measured to ordnance datum (mAOD).



Action for the River Kennet

Elcot Park, Marlborough, Wiltshire, SN8 2BG
t: 01672 512 700
w: kennelandpang.org
Registered Charity No: 1120725

Date	18/08/2025
Client	Polesdon Estate
Project	River Shalbourne Floodplain Reconnection Project
Title	Drawing No.1 A3 Landscape Plan Existing Plan View Polesdon Estate
Drawing number	RS_PE_25_01_RK
Scale	1:1,500 @ A3





Action for the River Kennet

KEY:

- River Shalbourne
- Road
- Track / hard standing
- Building
- Property
- Woodland
- Tree
- Public RoW
- EA Flood Zone 3

Safety, health and environmental information

Risks:

Utilities search required, farm machinery, tree works, public right of way, working in and near water.

Notes:

- Survey detail has been best-fitted to digital Ordnance Survey & CBE topographic/drone survey data.
- Dimensions should not be scaled. All dimensions should be checked on site before construction.
- Preliminary data is generally unchecked, therefore it is not guaranteed and should not be used for construction. Further site investigation is likely to be required.
- Levels indicated are measured to ordnance datum (mAOD).



Action for the River Kennet

Elcot Park, Marlborough, Wiltshire, SN8 2BG
t: 01672 512 700
w: kennelandpang.org
Registered Charity No: 1120725

Date	19/08/2025
Client	Polesdon Estate
Project	River Shalbourne Floodplain Reconnection Project
Title	Drawing No.2 A3 Landscape Plan Existing Plan View Polesdon Estate Flood Zone 3
Drawing number	RS_PE_25_02_RK
Scale	1:1,500 @ A3





Action for the River Kennet

KEY:

- River Shalbourne
- Road
- Track / hard standing
- Building
- Property
- Woodland
- Tree
- Public RoW

Safety, health and environmental information

Risks:

Utilities search required, farm machinery, tree works, public right of way, working in and near water.

Notes:

- Survey detail has been best-fitted to digital Ordnance Survey & CBE topographic/drone survey data.
- Dimensions should not be scaled. All dimensions should be checked on site before construction.
- Preliminary data is generally unchecked, therefore it is not guaranteed and should not be used for construction. Further site investigation is likely to be required.
- Levels indicated are measured to ordnance datum (mAOD).



Action for the River Kennet

Elcot Park, Marlborough, Wiltshire, SN8 2BG
t: 01672 512 700
w: kennelandpang.org
Registered Charity No: 1120725

Date	19/08/2025
Client	Polesdon Estate
Project	River Shalbourne Floodplain Reconnection Project
Title	Drawing No.3 A3 Landscape Plan Existing Plan View Polesdon Estate Digital Terrain Model
Drawing number	RS_PE_25_03_RK
Scale	1:1,500 @ A3





Action for the River Kennet

KEY:

- River Shalbourne
- Road
- Track / hard standing
- Building
- Property
- Woodland
- Tree
- Public RoW

Safety, health and environmental information

Risks:

Utilities search required, farm machinery, tree works, public right of way, working in and near water.

Notes:

- Survey detail has been best-fitted to digital Ordnance Survey & CBE topographic/drone survey data.
- Dimensions should not be scaled. All dimensions should be checked on site before construction.
- Preliminary data is generally unchecked, therefore it is not guaranteed and should not be used for construction. Further site investigation is likely to be required.
- Levels indicated are measured to ordnance datum (mAOD).



Action for the River Kennet

Elcot Park, Marlborough, Wiltshire, SN8 2BG
t: 01672 512 700
w: kennelandpang.org
Registered Charity No: 1120725

Date	20/08/2025
Client	Polesdon Estate
Project	River Shalbourne Floodplain Reconnection Project
Title	Drawing No.4 A3 Landscape Plan Existing Plan View Polesdon Estate 1886 OS Six-inch Overlay
Drawing number	RS_PE_25_04_RK
Scale	1:1,500 @ A3





Action for the River Kennet

KEY:

-  River Shalbourne
-  Road
-  Track / hard standing
-  Building
-  Property
-  Woodland
-  Tree
-  Public RoW

Safety, health and environmental information

Risks:

Utilities search required, farm machinery, tree works, public right of way, working in and near water.

Notes:

1. Survey detail has been best-fitted to digital Ordnance Survey & CBE topographic/drone survey data.
2. Dimensions should not be scaled. All dimensions should be checked on site before construction.
3. Preliminary data is generally unchecked, therefore it is not guaranteed and should not be used for construction. Further site investigation is likely to be required.
4. Levels indicated are measured to ordnance datum (mAOD).



Action for the River Kennet

Elcot Park, Marlborough, Wiltshire, SN8 2BG
t: 01672 512 700
w: kennelandpang.org
Registered Charity No: 1120725

Date	19/08/2025
Client	Polesdon Estate
Project	River Shalbourne Floodplain Reconnection Project
Title	Drawing No.5 A3 Landscape Plan Existing Plan View Polesdon Estate Drone Orthomosaic
Drawing number	RS_PE_25_05_RK
Scale	1:1,500 @ A3





Action for the River Kennet

KEY:

- River Shalbourne
- Road
- Track / hard standing
- Building
- Property
- Woodland
- Tree
- Public RoW
- Overland flow pathway

Safety, health and environmental information

Risks:

Utilities search required, farm machinery, tree works, public right of way, working in and near water.

Notes:

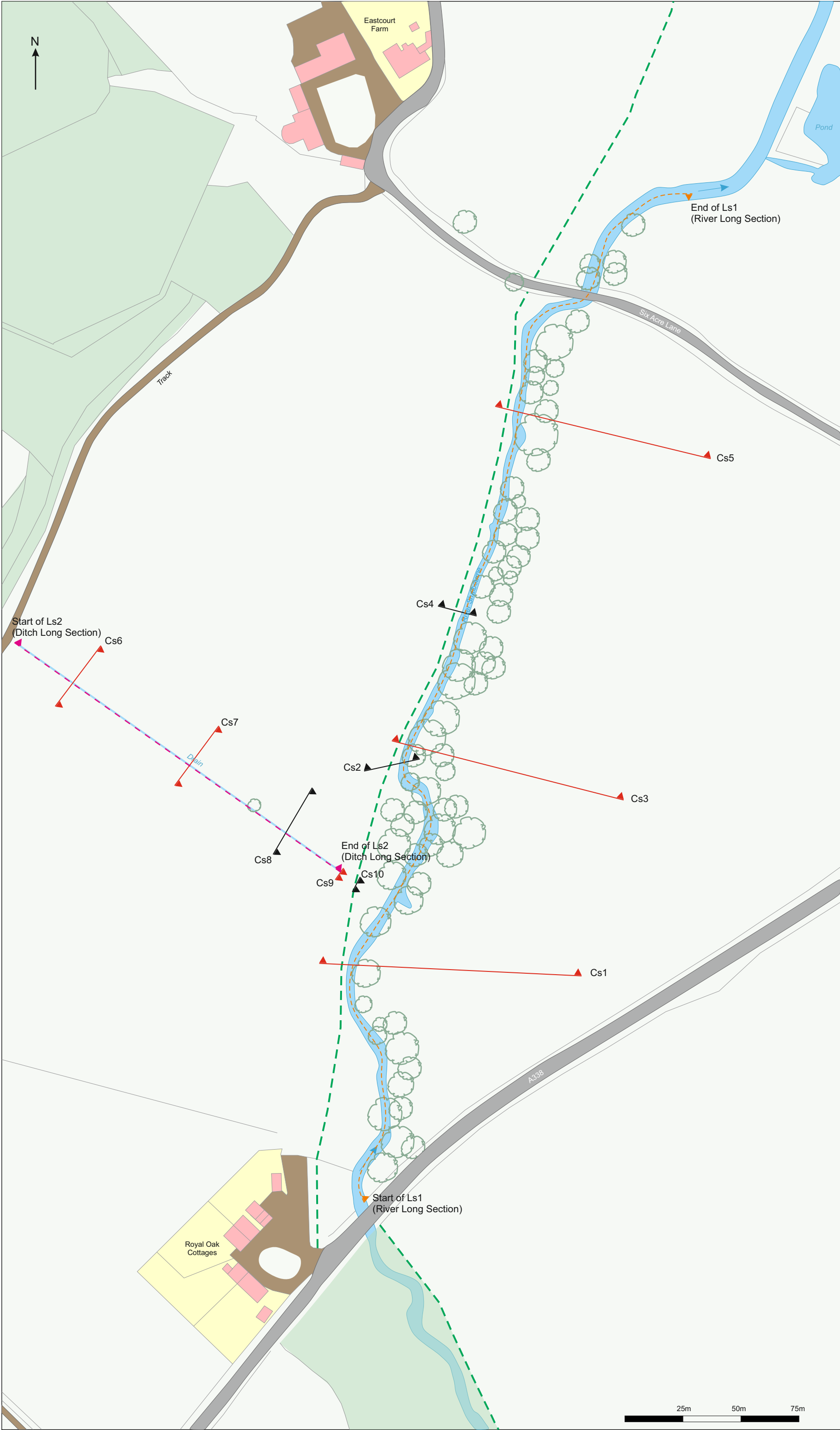
- Survey detail has been best-fitted to digital Ordnance Survey & CBE topographic/drone survey data.
- Dimensions should not be scaled. All dimensions should be checked on site before construction.
- Preliminary data is generally unchecked, therefore it is not guaranteed and should not be used for construction. Further site investigation is likely to be required.
- Levels indicated are measured to ordnance datum (mAOD).



Action for the River Kennet

Elcot Park, Marlborough, Wiltshire, SN8 2BG
t: 01672 512 700
w: kennelandpang.org
Registered Charity No: 1120725

Date	19/08/2025
Client	Polesdon Estate
Project	River Shalbourne Floodplain Reconnection Project
Title	Drawing No.6 A3 Landscape Plan Existing Plan View Polesdon Estate Flow Pathway Analysis
Drawing number	RS_PE_25_06_RK
Scale	1:1,500 @ A3





Action for the River Kennet

KEY:

- River Shalbourne
- Road
- Track / hard standing
- Building
- Property
- Woodland
- Tree
- Public RoW
- Survey Cross Section
- Cs Shown in Design Drawings
- Long Section 1 (River)
- Long Section 2 (Ditch)

Safety, health and environmental information

Risks:

Utilities search required, farm machinery, tree works, public right of way, working in and near water.

Notes:

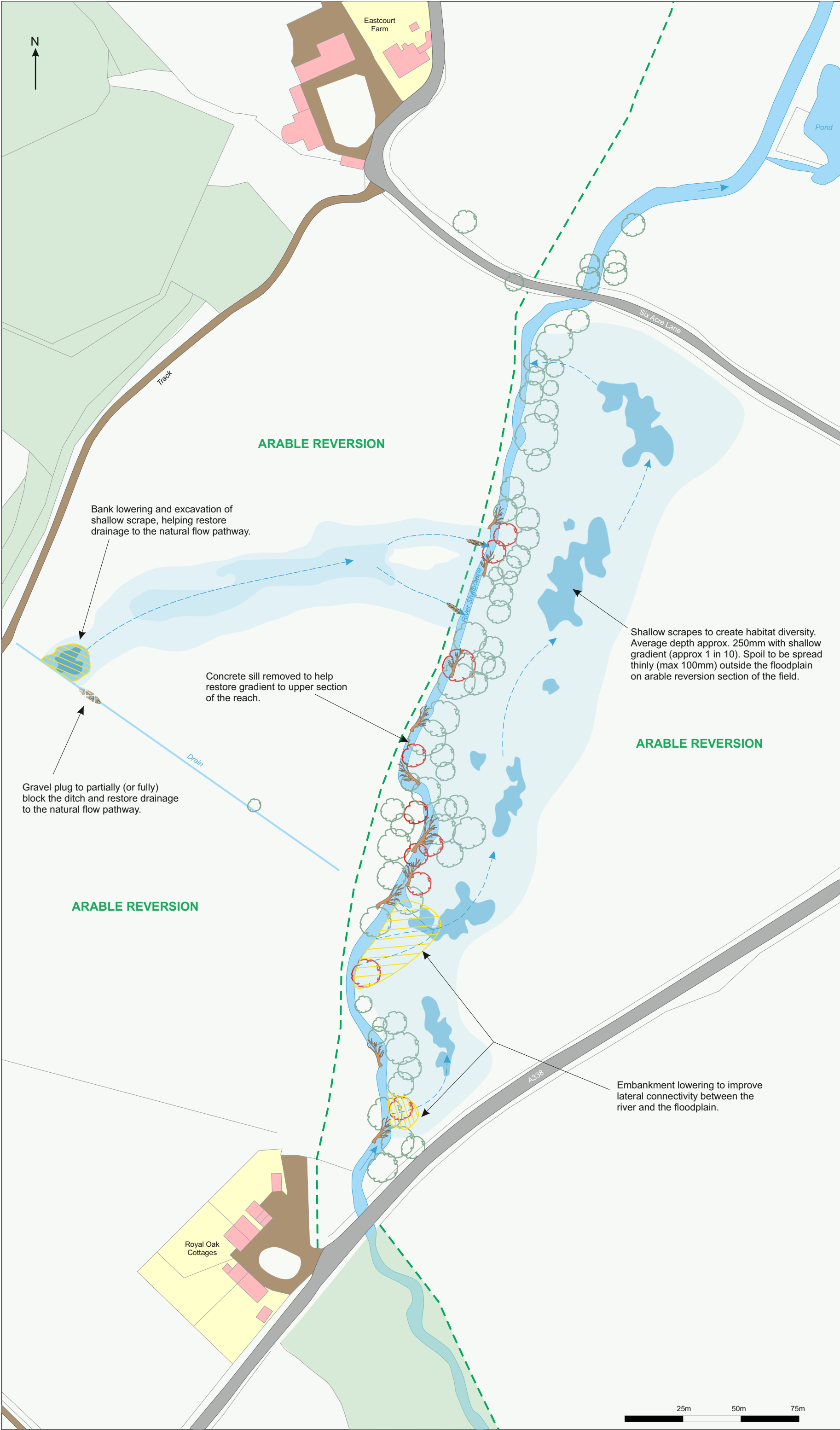
- Survey detail has been best-fitted to digital Ordnance Survey & CBE topographic/drone survey data.
- Dimensions should not be scaled. All dimensions should be checked on site before construction.
- Preliminary data is generally unchecked, therefore it is not guaranteed and should not be used for construction. Further site investigation is likely to be required.
- Levels indicated are measured to ordnance datum (mAOD).



Action for the River Kennet

Elcot Park, Marlborough, Wiltshire, SN8 2BG
t: 01672 512 700
w: kennelandpang.org
Registered Charity No: 1120725

Date	28/08/2025
Client	Polesdon Estate
Project	River Shalbourne Floodplain Reconnection Project
Title	Drawing No.7 A3 Landscape Plan Existing Plan View Polesdon Estate Topographic Survey
Drawing number	RS_PE_25_07_RK
Scale	1:1,500 @ A3





Action for the River Kennet

KEY:

- River Shalbourne
- Road
- Track / hard standing
- Building
- Property
- Woodland
- Tree
- Public RoW
- Large Woody Material
- Tree Works
- Gravel
- Scrape (Average Depth 250mm)
- Wet Grassland (seasonal)
- Bank lowering

Safety, health and environmental information

Risks:

Utilities search required, farm machinery, tree works, public right of way, working in and near water.

Notes:

- Survey detail has been best-fitted to digital Ordnance Survey & CBE topographic/drone survey data.
- Dimensions should not be scaled. All dimensions should be checked on site before construction.
- Preliminary data is generally unchecked, therefore it is not guaranteed and should not be used for construction. Further site investigation is likely to be required.
- Levels indicated are measured to ordnance datum (mAOD).



Action for the River Kennet

Elcot Park, Marlborough, Wiltshire, SN8 2BG
t: 01672 512 700
w: kennelandpang.org
Registered Charity No: 1120725

Date	29/08/2025
Client	Polesdon Estate
Project	River Shalbourne Floodplain Reconnection Project
Title	Drawing No.8 A3 Landscape Plan Proposed Plan View Polesdon Estate Concept Design
Drawing number	RS_PE_25_08_RK_V3
Scale	1:1,500 @ A3

LONG SECTION DRAWINGS



Action for the River Kennet

KEY

- River Shalbourne
- Existing Bed Profile
- Spot Height (mAOD)
- Water Level (mAOD)
- Existing Top of Bank (True Right Hand Bank)
- Spot Height (mAOD) (Top of Bank)
- Large Woody Material
- Proposed Top of Bank (True Right Hand Bank)
- Bank lowering

Safety, health and environmental information:

Risks: Buried services, farm machinery, steep banks, public RoW, deep water.

- Notes:
1. Survey detail has been best-fitted to digital Ordnance Survey & topographic/drone survey data.
 2. Dimensions should not be scaled. All dimensions should be checked on site before construction.
 3. Preliminary data is generally unchecked, therefore it is not guaranteed and should not be used for construction. Further site investigation is likely to be required.
 4. Levels indicated are measured to ordnance datum (mAOD).

Date
28/08/2025

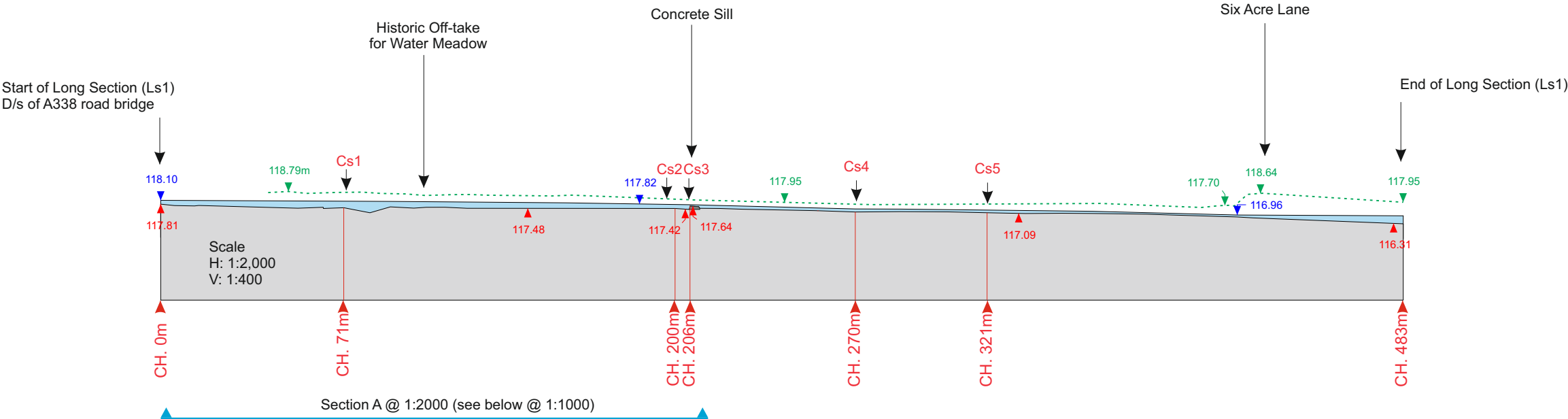
Recipient
Polesdon Estate

Project
**River Shalbourne
Floodplain Reconnection
Proposal**

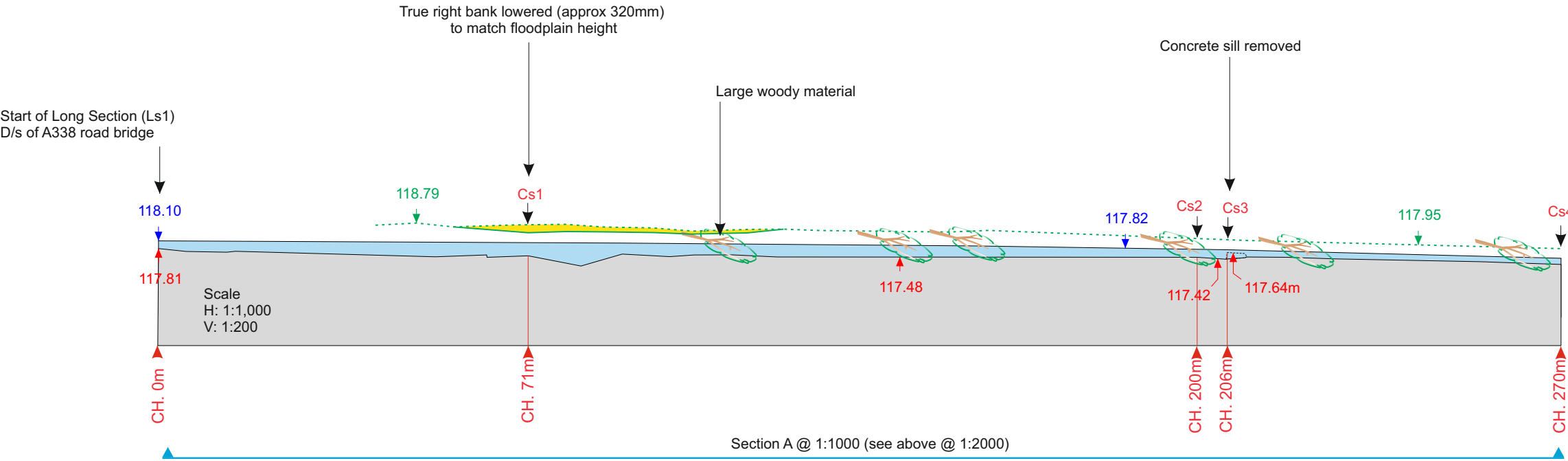
Drawing number
RS_PE_25_09_RK_LS1

Scale
See drawing for details

Long Section 1 (River) - Existing

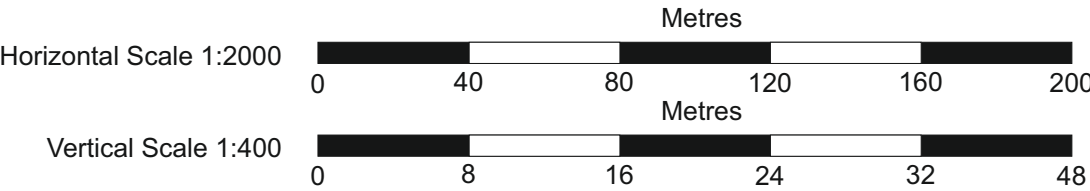


'Section A' Long Section 1 (River) - Proposed Concept Design

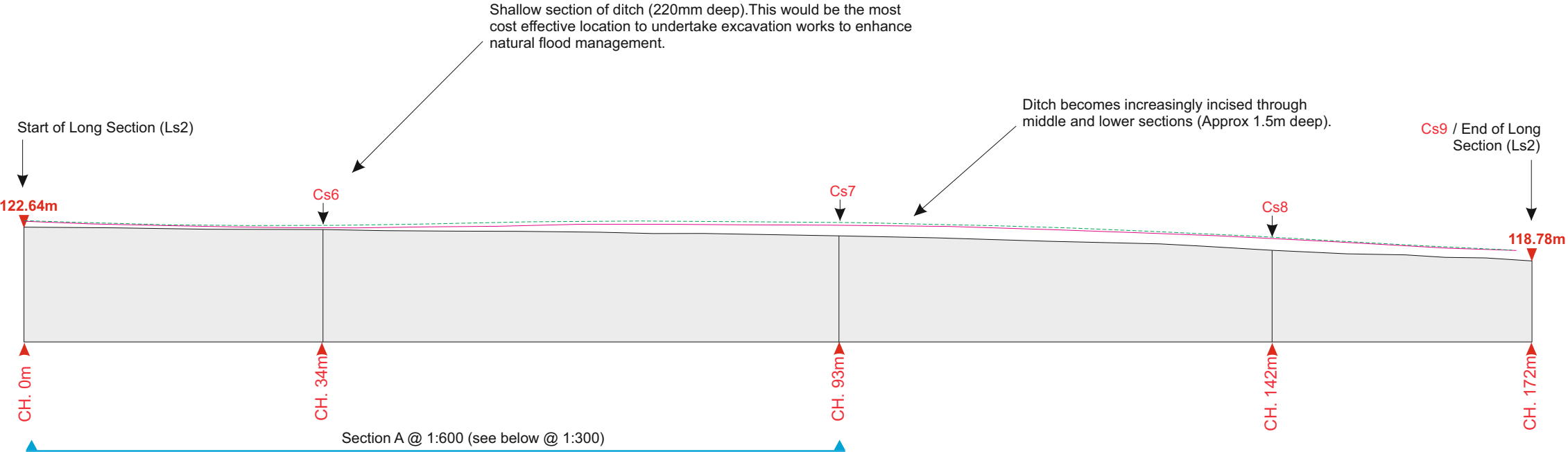


Action for the River Kennet
Elcot Park, Marlborough, Wiltshire, SN8 2BG
t: 01672 512 700
w: riverkennet.org
Registered Charity No: 1120725

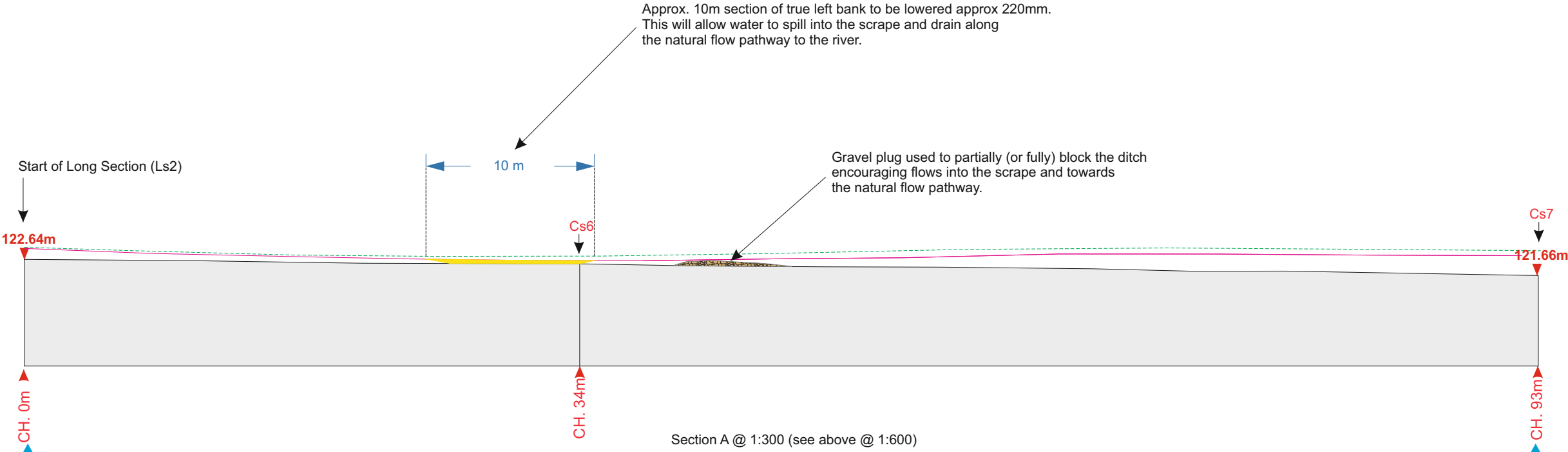
Drawing Title.
Drawing No. 09: River Shalbourne, Polesdon Estate
A3 Landscape Existing & Proposed Long Section 1



Long Section 2 (Ditch) - Existing



'Section A' Long Section 2 (Ditch) - Proposed Concept Design



Action for the River Kennet

KEY



Existing Bed Profile



Spot Height (mAOD)



Gravel Plug



Existing Top of Bank (True Right Hand Bank)



Existing Top of Bank (True Left Hand Bank)



Proposed Bank Lowering (True Left Hand Bank)

Safety, health and environmental information:

Risks: Buried services, farm machinery, steep banks, public RoW, deep water.

Notes:

1. Survey detail has been best-fitted to digital Ordnance Survey & topographic/drone survey data.
2. Dimensions should not be scaled. All dimensions should be checked on site before construction.
3. Preliminary data is generally unchecked, therefore it is not guaranteed and should not be used for construction. Further site investigation is likely to be required.
4. Levels indicated are measured to ordnance datum (mAOD).

Date

29/08/2025

Recipient

Polesdon Estate

Project

River Shalbourne
Floodplain Reconnection
Proposal

Drawing number

RS_PE_25_10_RK_LS2

Scale

1:600 @ A3

1:300 @ A3



Action for the River Kennet

Elcot Park, Marlborough, Wiltshire, SN8 2BG

t: 01672 512 700

w: riverkennet.org

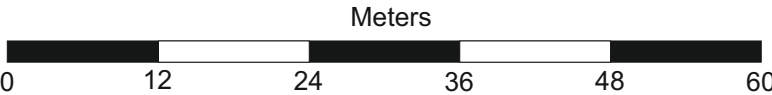
Registered Charity No: 1120725

Drawing Title.

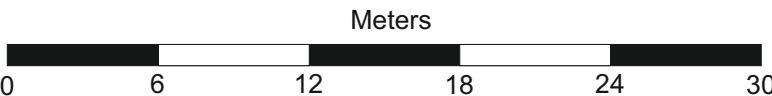
Drawing No. 10: River Shalbourne, Polesdon Estate

A3 Landscape Existing & Proposed Long Section 2 (Ditch)

Scale 1:600



Scale 1:300



CROSS SECTION DRAWINGS



Action for the River Kennet

KEY

- River Shalbourne
- Existing Bed Profile
- Proposed Bed Profile
- Spot Height (mAOD)
- Water Level (mAOD)
- Floodplain Low Point (mAOD)
- Marginal Plants

Safety, health and environmental information:

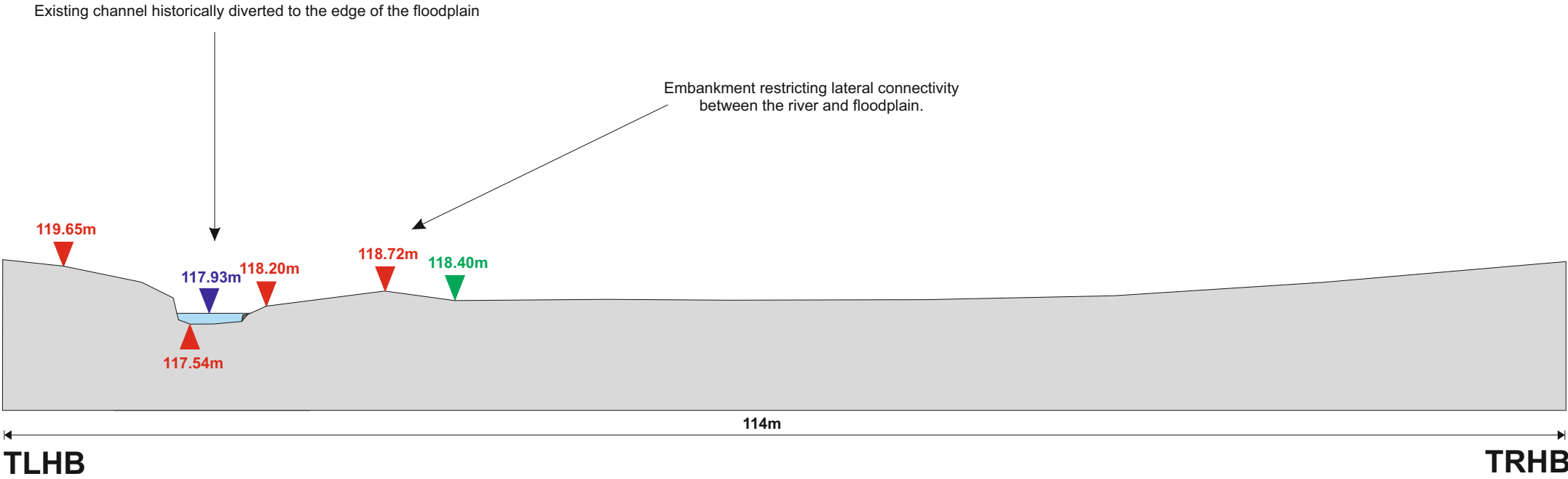
Risks: Buried services, steep banks, farm machinery, public RoW, deep water.

Notes:

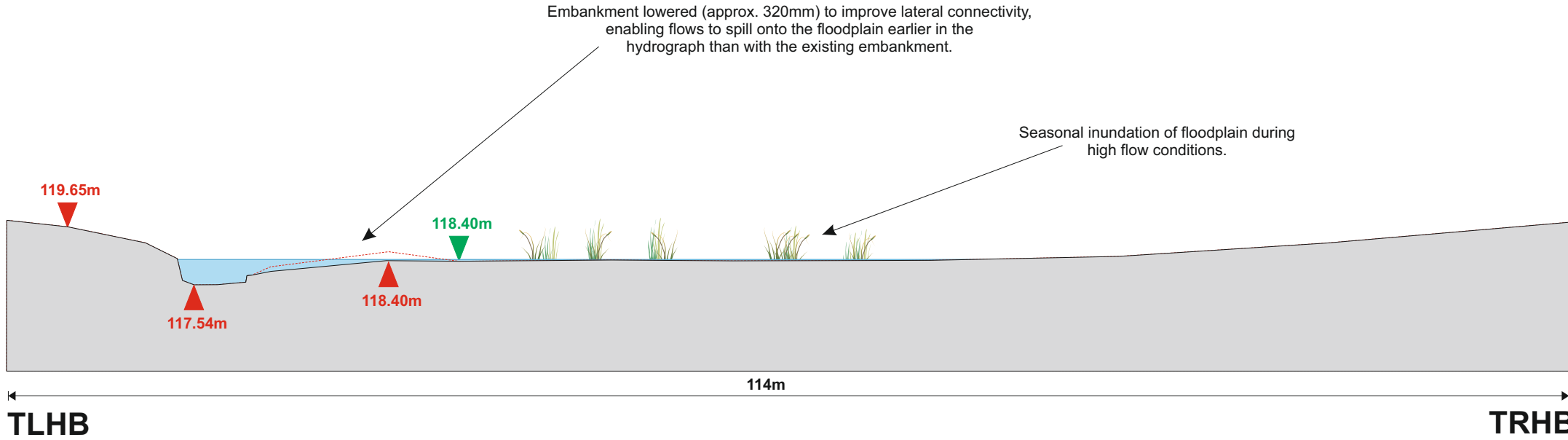
1. Survey detail has been best-fitted to digital Ordnance Survey & CBE topographic/drone survey data.
2. Dimensions should not be scaled. All dimensions should be checked on site before construction.
3. Preliminary data is generally unchecked, therefore it is not guaranteed and should not be used for construction. Further site investigation is likely to be required.
4. Levels indicated are measured to ordnance datum (mAOD).

Date	29/08/2025
Recipient	Polesdon Estate
Project	River Shalbourne Floodplain Reconnection Project
Drawing number	RS_PE_25_11_RK_CS1
Scale	Vertical = 1:200 Horizontal = 1:400

Cross Section 1 (River) - Existing



Cross Section 1 (River) - Proposed Concept Design



Action for the River Kennet
Elcot Park, Marlborough, Wiltshire, SN8 2BG
t: 01672 512 700
w: riverkennet.org
Registered Charity No: 1120725

Drawing Title.

Drawing No. 11: River Shalbourne, Polesodon Estate

A3 Landscape Existing & Proposed Cross Section 1 (River)

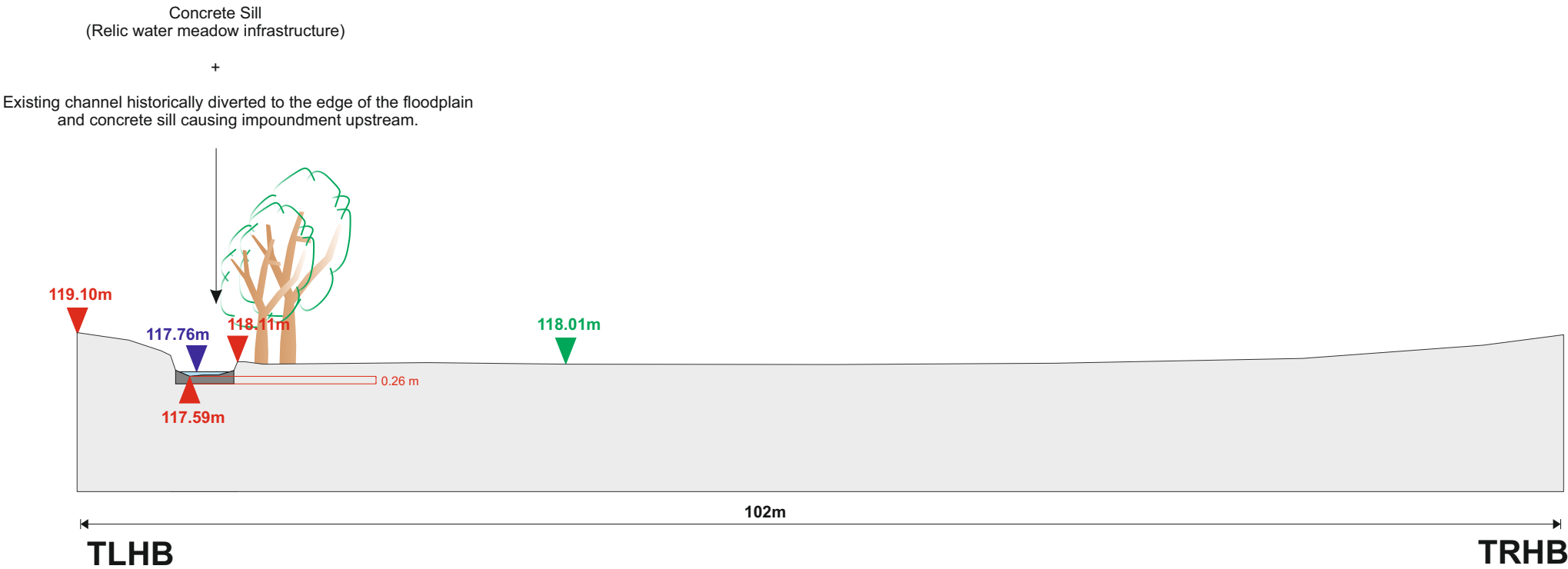
Vertical = 1:200

0 4 8 12 16 20

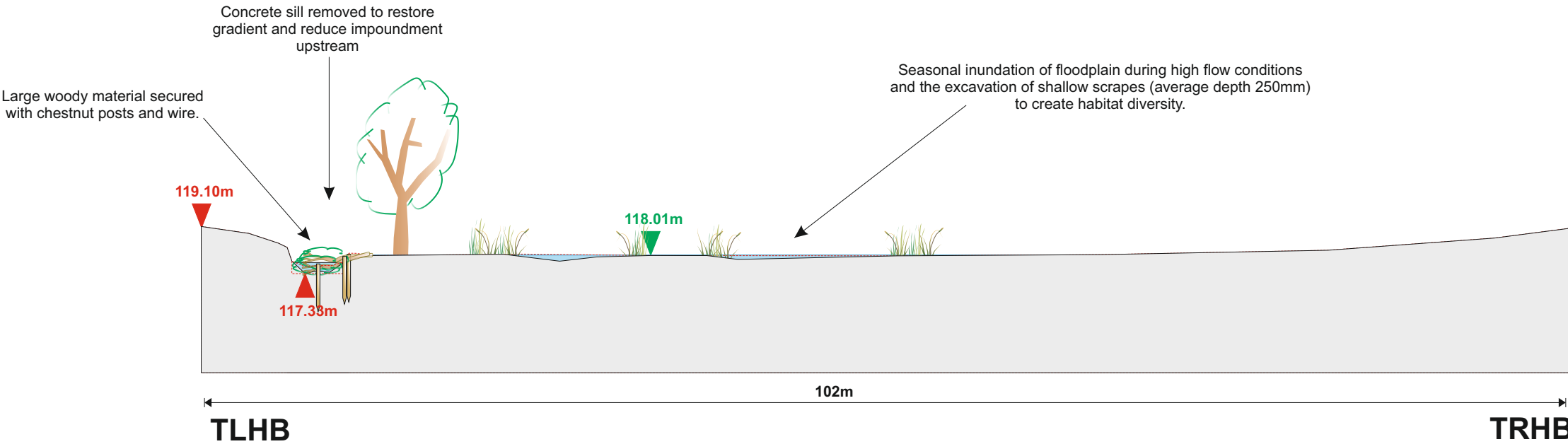
Horizontal = 1:400

0 8 16 24 32 40

Cross Section 3 (River) - Existing



Cross Section 3 (River) - Proposed Concept Design



Action for the River Kennet

KEY



River Shalbourne



Existing Bed Profile



Proposed Bed Profile



Spot Height (mAOD)



Water Level (mAOD)



Floodplain Low Point
(mAOD)



Tree



Large Woody Material



Chestnut Post



Marginal Plants

Safety, health and environmental
information:

Risks: Buried services, steep banks,
farm machinery, public RoW, deep water.

Notes:

1. Survey detail has been best-fitted to digital Ordnance
Survey & CBE topographic/drone survey data.
2. Dimensions should not be scaled. All dimensions
should be checked on site before construction.
3. Preliminary data is generally unchecked, therefore it
is not guaranteed and should not be used for
construction. Further site investigation is likely to be
required.
4. Levels indicated are measured to ordnance datum
(mAOD).

Date

29/08/2025

Recipient

Polesdon Estate

Project

River Shalbourne

Floodplain Reconnection
Project

Drawing number

RS_PE_25_12_RK_CS3

Scale

Vertical = 1:200
Horizontal = 1:400



Action for the River Kennet

Elcot Park, Marlborough, Wiltshire, SN8 2BG
t: 01672 512 700
w: riverkennet.org
Registered Charity No: 1120725

Drawing Title.

Drawing No. 12: River Shalbourne, Polesodon Estate

A3 Landscape Existing & Proposed Cross Section 3 (River)

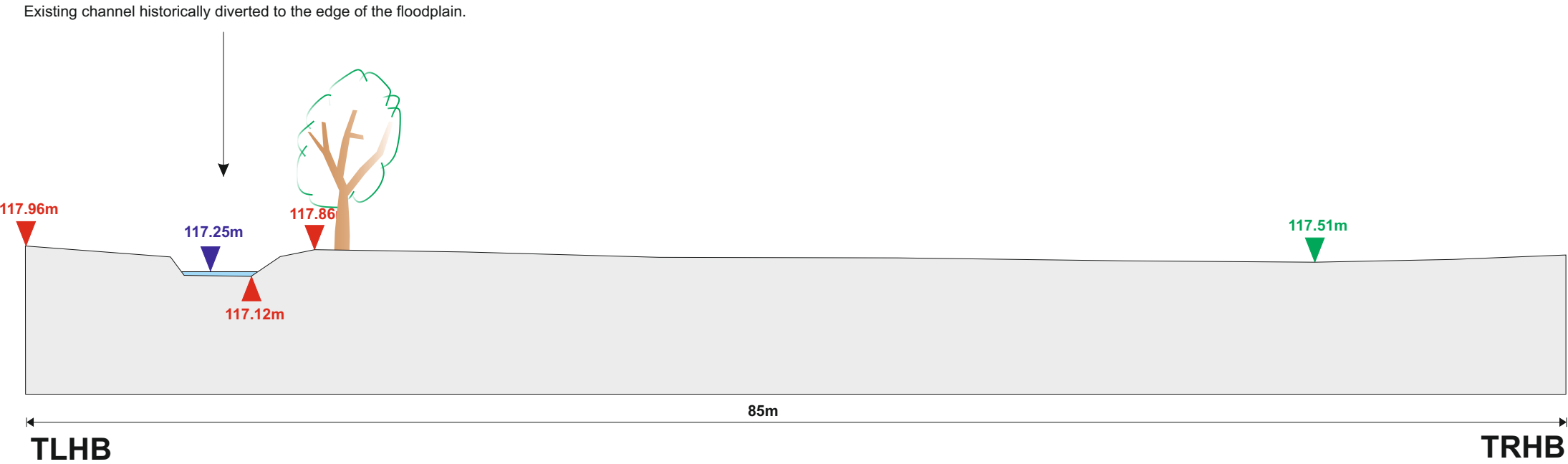
Vertical = 1:200



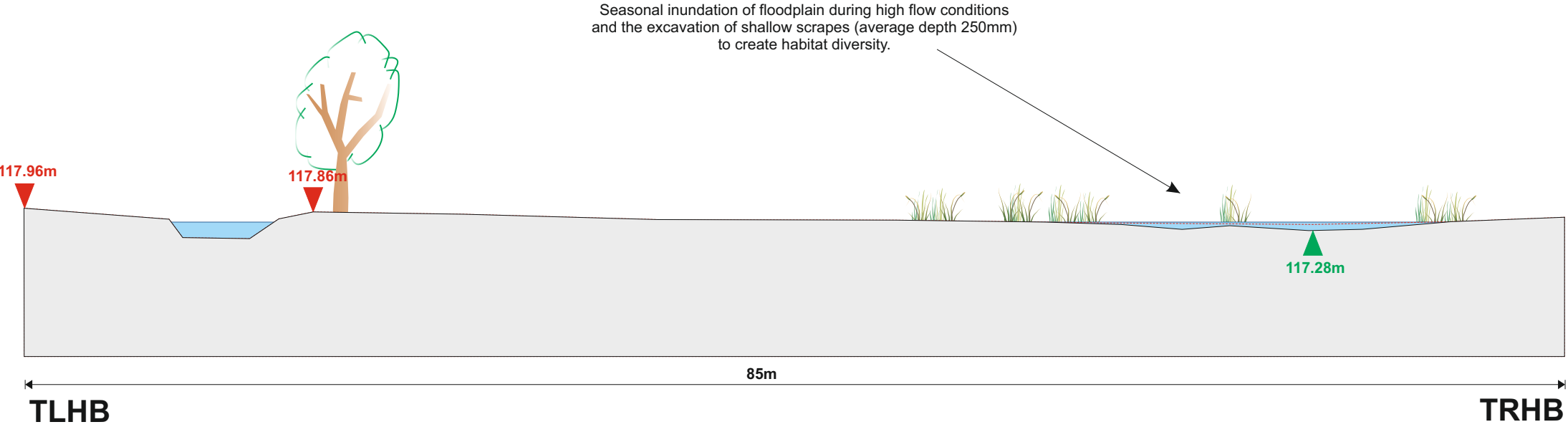
Horizontal = 1:400



Cross Section 5 (River) - Existing



Cross Section 5 (River) - Proposed Concept Design



Action for the River Kennet

KEY

- River Shalbourne
- Existing Bed Profile
- Proposed Bed Profile
- Spot Height (mAOD)
- Water Level (mAOD)
- Floodplain Low Point (mAOD)
- Tree
- Marginal Plants

Safety, health and environmental information:

Risks: Buried services, steep banks, farm machinery, public RoW, deep water.

Notes:

1. Survey detail has been best-fitted to digital Ordnance Survey & CBE topographic/drone survey data.
2. Dimensions should not be scaled. All dimensions should be checked on site before construction.
3. Preliminary data is generally unchecked, therefore it is not guaranteed and should not be used for construction. Further site investigation is likely to be required.
4. Levels indicated are measured to ordnance datum (mAOD).

Date	29/08/2025
Recipient	Polesdon Estate
Project	River Shalbourne Floodplain Reconnection Project
Drawing number	RS_PE_25_13_RK_CS5
Scale	Vertical = 1:150 Horizontal = 1:300



Action for the River Kennet
Elcot Park, Marlborough, Wiltshire, SN8 2BG
t: 01672 512 700
w: riverkennet.org
Registered Charity No: 1120725

Drawing Title.
Drawing No. 13: River Shalbourne, Polesodon Estate
A3 Landscape Existing & Proposed Cross Section 5 (River)

Vertical = 1:150
Horizontal = 1:300



Action for the River Kennet

KEY



Existing Bed Profile (Ditch)



Proposed Bed Profile (Ditch)



Spot Height (mAOD)



Gravel Plug

Safety, health and environmental information:

Risks: Buried services, steep banks, farm machinery, public RoW, deep water.

Notes:

1. Survey detail has been best-fitted to digital Ordnance Survey & CBE topographic/drone survey data.
2. Dimensions should not be scaled. All dimensions should be checked on site before construction.
3. Preliminary data is generally unchecked, therefore it is not guaranteed and should not be used for construction. Further site investigation is likely to be required.
4. Levels indicated are measured to ordnance datum (mAOD).

Date

29/08/2025

Recipient

Polesdon Estate

Project

River Shalbourne

Floodplain Reconnection Project

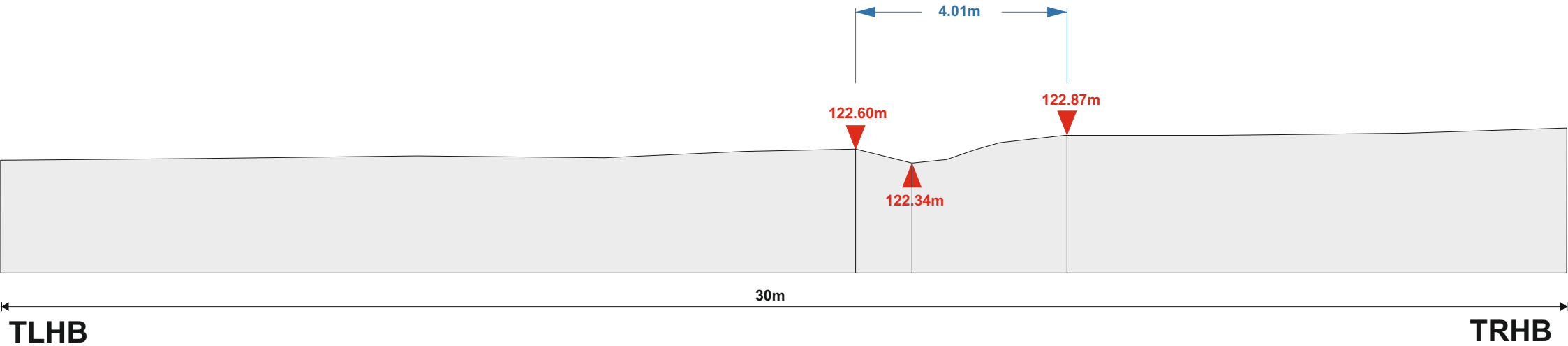
Drawing number

RS_PE_25_14_RK_CS6

Scale

1:100 @ A3

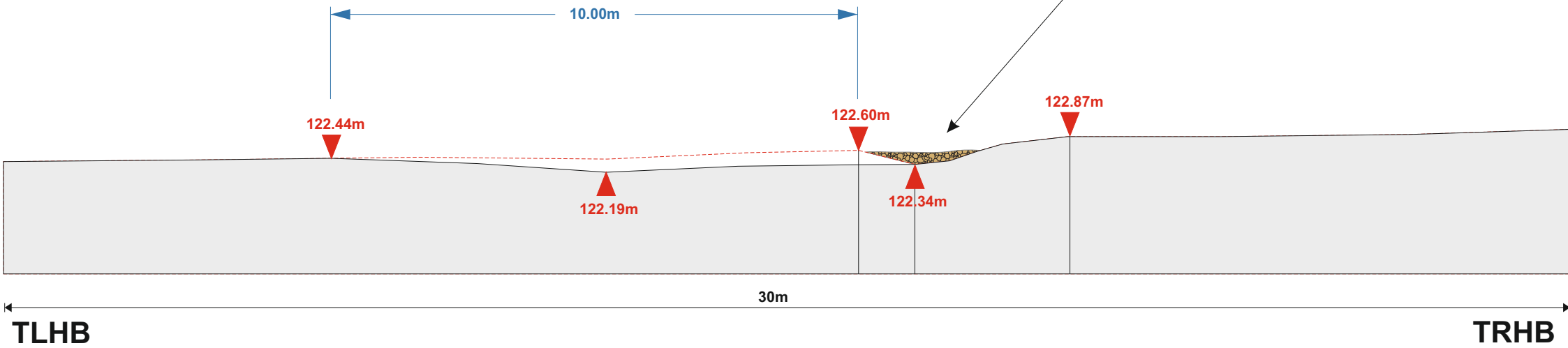
Cross Section 6 - Existing (Ditch)



Cross Section 6 - Proposed Concept Design (Ditch)

True left bank to be lowered and shallow scrape created. This will allow water to spill out of the ditch, into the scrape and drain along the natural flow pathway to the river.

Gravel plug used to partially (or fully) block the ditch downstream of where the bank has been lowered. This will encourage flows into the scrape and towards the natural flow pathway.



Action for the River Kennet
Elcot Park, Marlborough, Wiltshire, SN8 2BG
t: 01672 512 700
w: riverkennet.org
Registered Charity No: 1120725

Drawing Title.

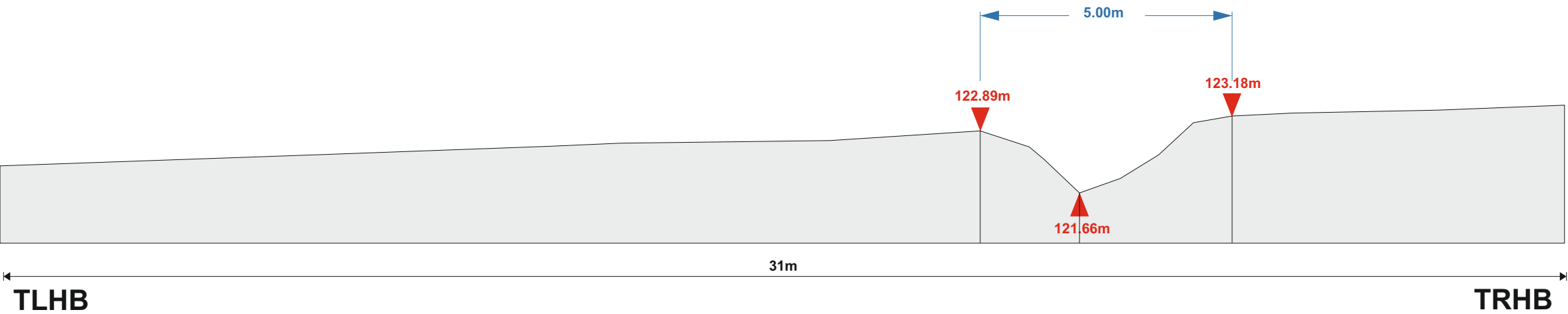
Drawing No. 14: River Shalbourne, Polesodon Estate

A3 Landscape Existing & Proposed Cross Section 6

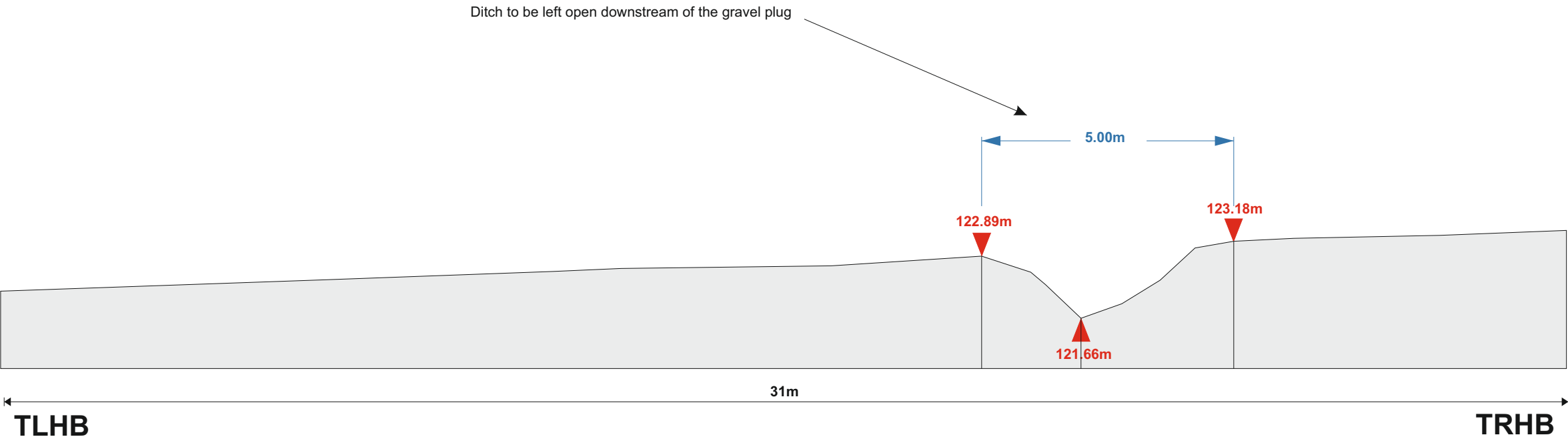
Scale 1:100



Cross Section 7 - Existing (Ditch)



Cross Section 7 - Proposed Concept Design (Ditch)



Action for the River Kennet

KEY



Existing Bed Profile (Ditch)



Spot Height (mAOD)

Safety, health and environmental information:

Risks: Buried services, steep banks, farm machinery, public RoW, deep water.

Notes:

1. Survey detail has been best-fitted to digital Ordnance Survey & CBE topographic/drone survey data.
2. Dimensions should not be scaled. All dimensions should be checked on site before construction.
3. Preliminary data is generally unchecked, therefore it is not guaranteed and should not be used for construction. Further site investigation is likely to be required.
4. Levels indicated are measured to ordnance datum (mAOD).

Date

29/08/2025

Recipient

Polesdon Estate

Project

River Shalbourne

Floodplain Reconnection Project

Drawing number

RS_PE_25_15_RK_CS7

Scale

1:100 @ A3



Action for the River Kennet

Elcot Park, Marlborough, Wiltshire, SN8 2BG

t: 01672 512 700

w: riverkennet.org

Registered Charity No: 1120725

Drawing Title.

Drawing No. 15: River Shalbourne, Polesodon Estate

A3 Landscape Existing & Proposed Cross Section 7 (Ditch)

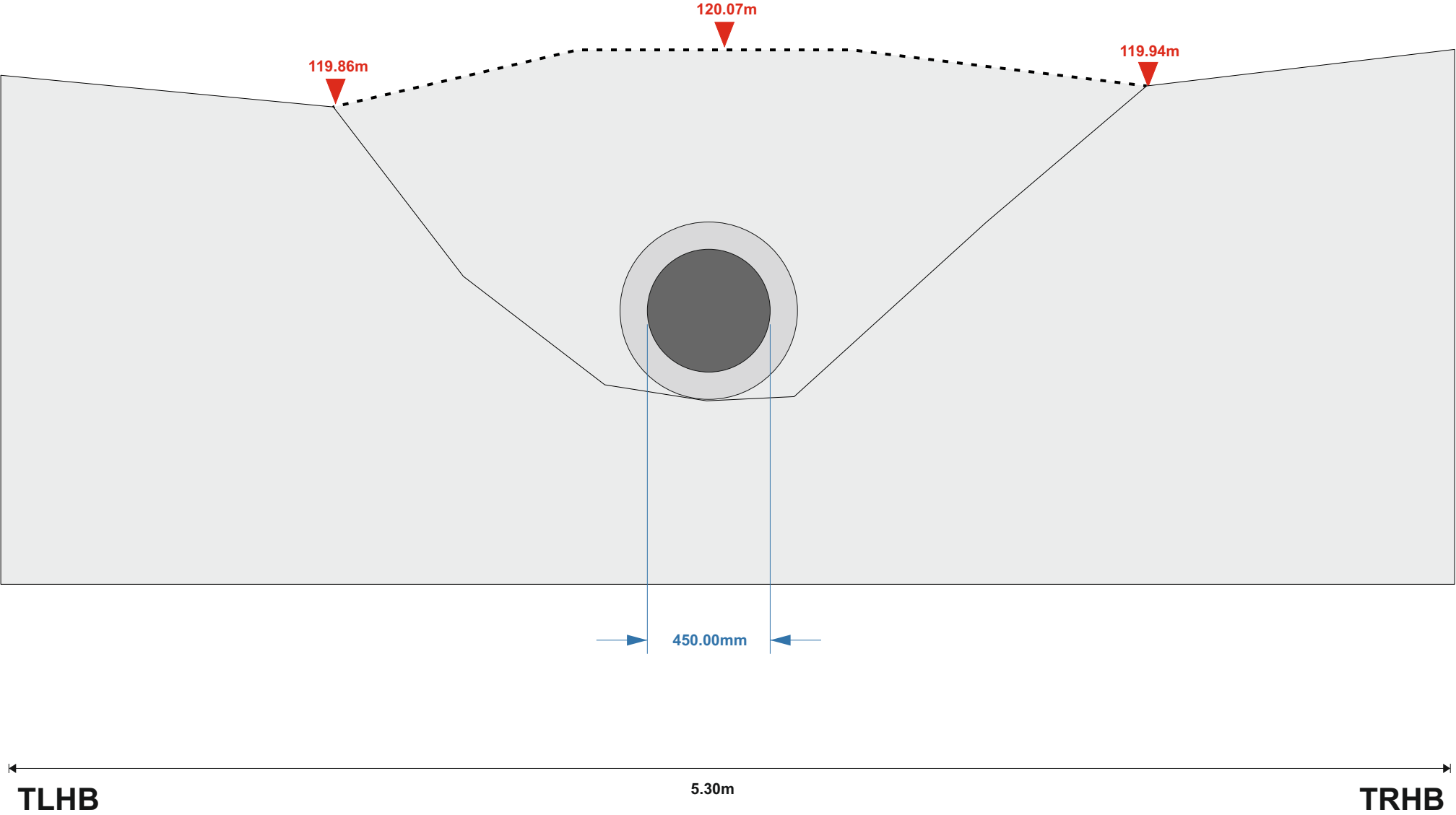
Scale 1:100





Action for the River Kennet

Cross Section 9 - Existing & Proposed (Ditch)



KEY



Existing Bed Profile (Ditch)



Spot Height (mAOD)



Culvert

Safety, health and environmental information:

Risks: Buried services, steep banks, farm machinery, public RoW, deep water.

Notes:

- 1. Survey detail has been best-fitted to digital Ordnance Survey & CBE topographic/drone survey data.
- 2. Dimensions should not be scaled. All dimensions should be checked on site before construction.
- 3. Preliminary data is generally unchecked, therefore it is not guaranteed and should not be used for construction. Further site investigation is likely to be required.
- 4. Levels indicated are measured to ordnance datum (mAOD).

Date
29/08/2025

Recipient
Polesdon Estate

Project
River Shalbourne
Floodplain Reconnection Project

Drawing number
RS_PE_25_16_RK_CS9

Scale
1:20 @ A3



Action for the River Kennet
Elcot Park, Marlborough, Wiltshire, SN8 2BG
t: 01672 512 700
w: riverkennet.org
Registered Charity No: 1120725

Drawing Title.
Drawing No. 16: River Shalbourne, Polesodon Estate
A3 Landscape Existing & Proposed Cross Section 9 (Ditch)





Action for the River Kennet

Elcot Park, Marlborough, Wiltshire, SN8 2BG
t: 01672 512 700
w: riverkennet.org
Registered Charity No: 1120725