Working with

Affinity Water

from Southern Water

South East Strategic Reservoir Option (SESRO)

Options Consultation – Mapbook

Contents

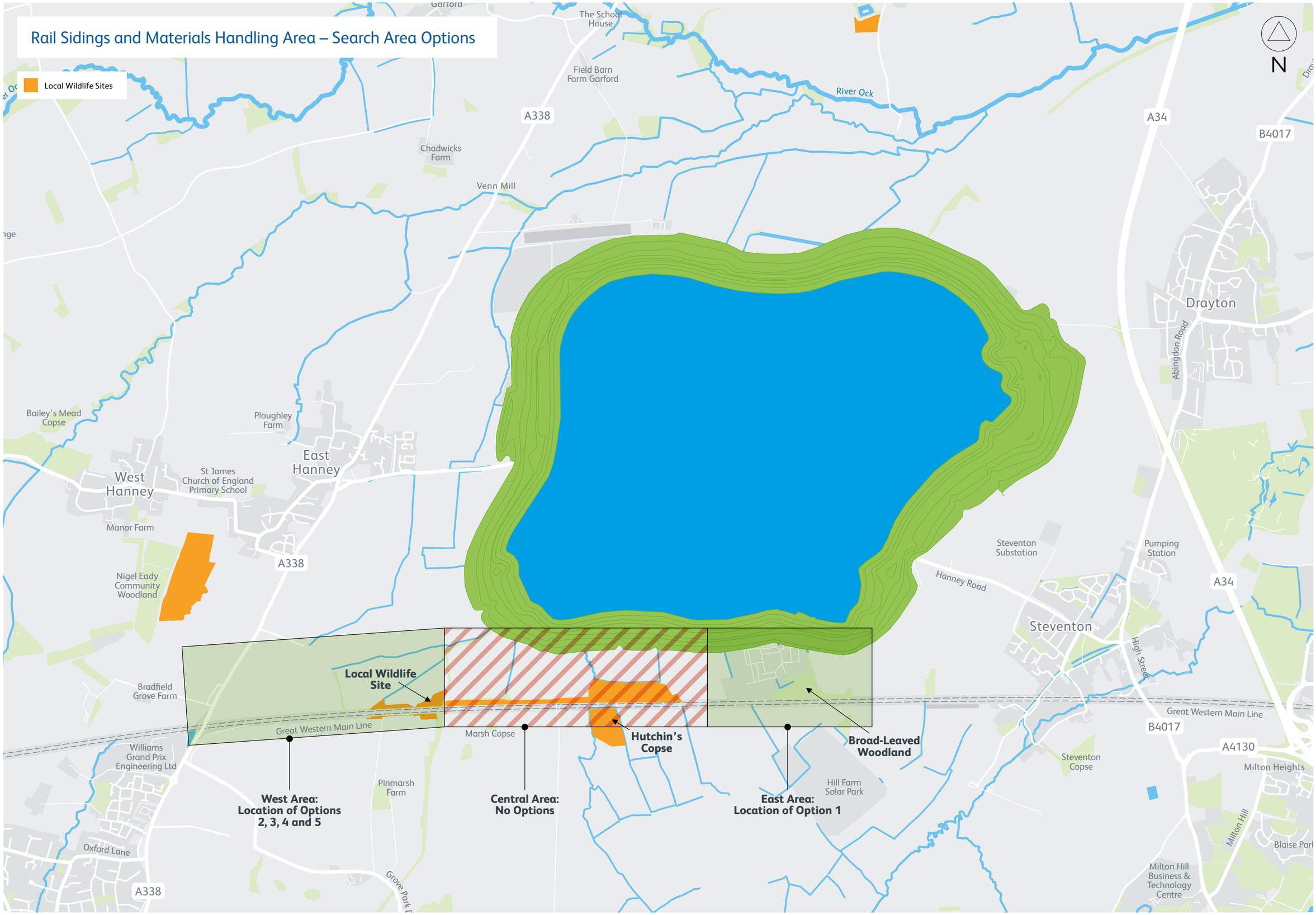
Mapping explanatory notes

This map book shows our current preferred and alternative proposals for the locations of associated infrastructure that have been developed through an options appraisal process for the South East Reservoir Option (SESRO) project. The map book also includes maps and diagrams to illustrate the interim masterplan for the proposed reservoir; indicative reservoir embankment cross sections; and indicative illustrations of what the proposed reservoir may look like once construction is complete. The material presented in the map book is subject to stakeholder engagement and further design development and forms part of a collection of documents prepared to support a public consultation for SESRO. All the documents are available on our website at www.thames-sro.co.uk/SESRO.

Index of maps

Part A
Options Appraisals
Maps

Rail Sidings and Materials Handling Area – Search Area Options



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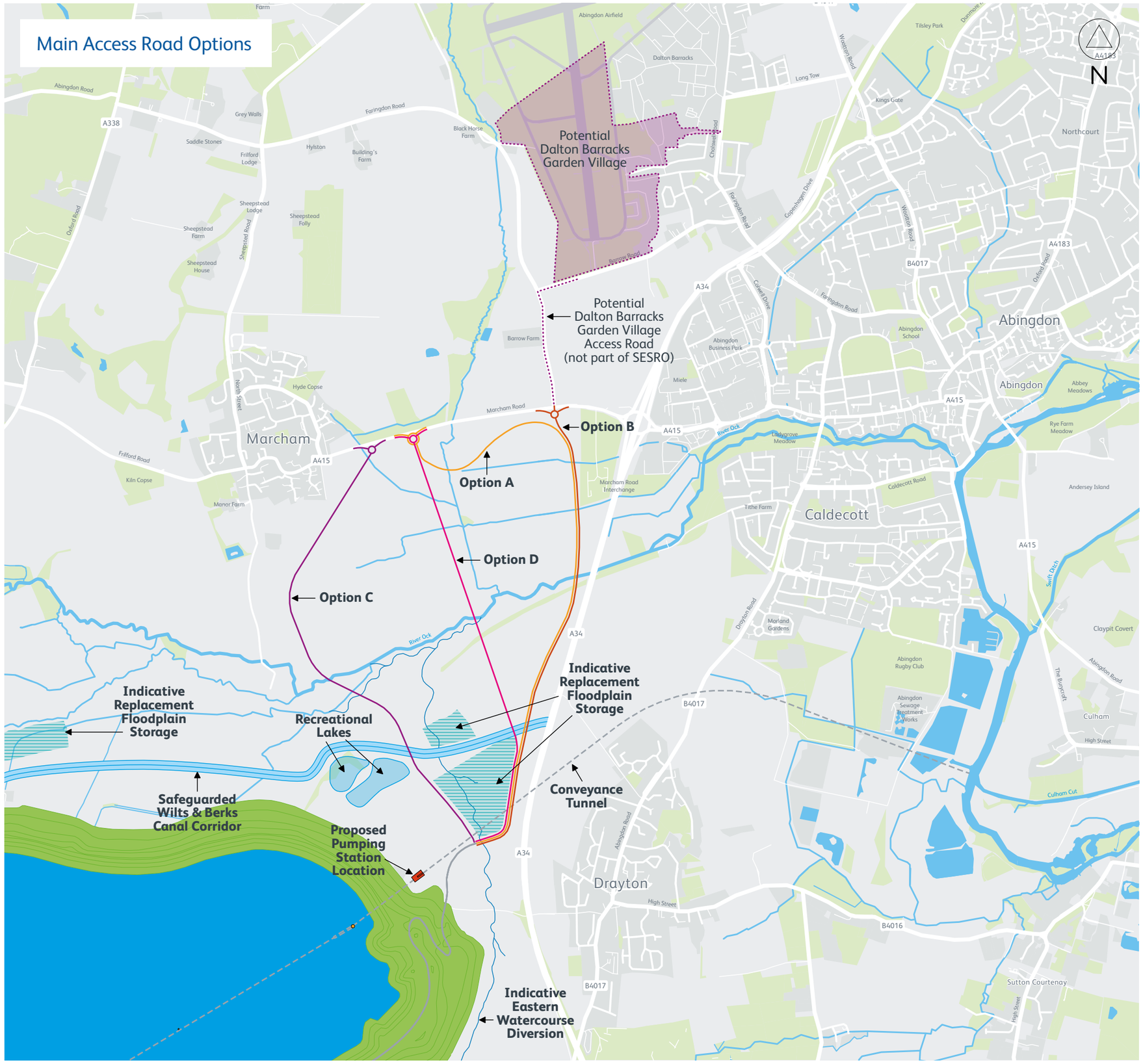
Main Access Road Options



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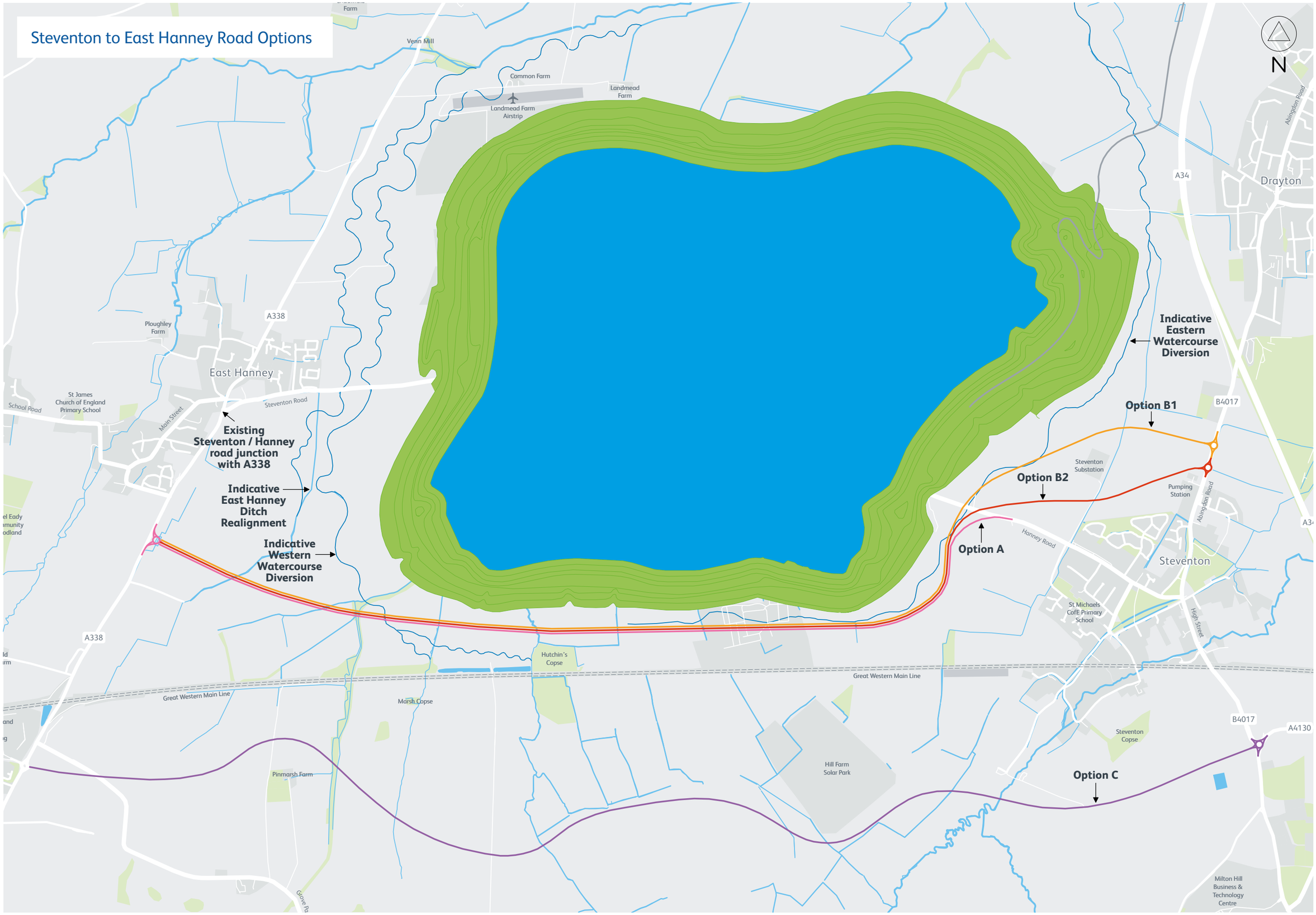
Steventon to East Hanney Road Options



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Water Treatment Works (WTWs) Options

- Indicative Land to be accessed for WTW
- Indicative WTW Construction Compound
- Indicative Water Treatment Works (WTW) Footprint
- Indicative Replacement Floodplain Storage

Indicative Replacement Floodplain Storage

Water Treatment Works Option 1

Safeguarded Wilts & Berks Canal Corridor

Recreational Lakes

SESRO Main Access Road (Preferred Option)

Water Treatment Works Option 4

Conveyance Tunnel

Indicative Replacement Floodplain Storage

Water Treatment Works Option 2

Proposed Pumping Station Location

Indicative Eastern Watercourse Diversion

Indicative East Hanney Ditch Realignment

Indicative Western Watercourse Diversion

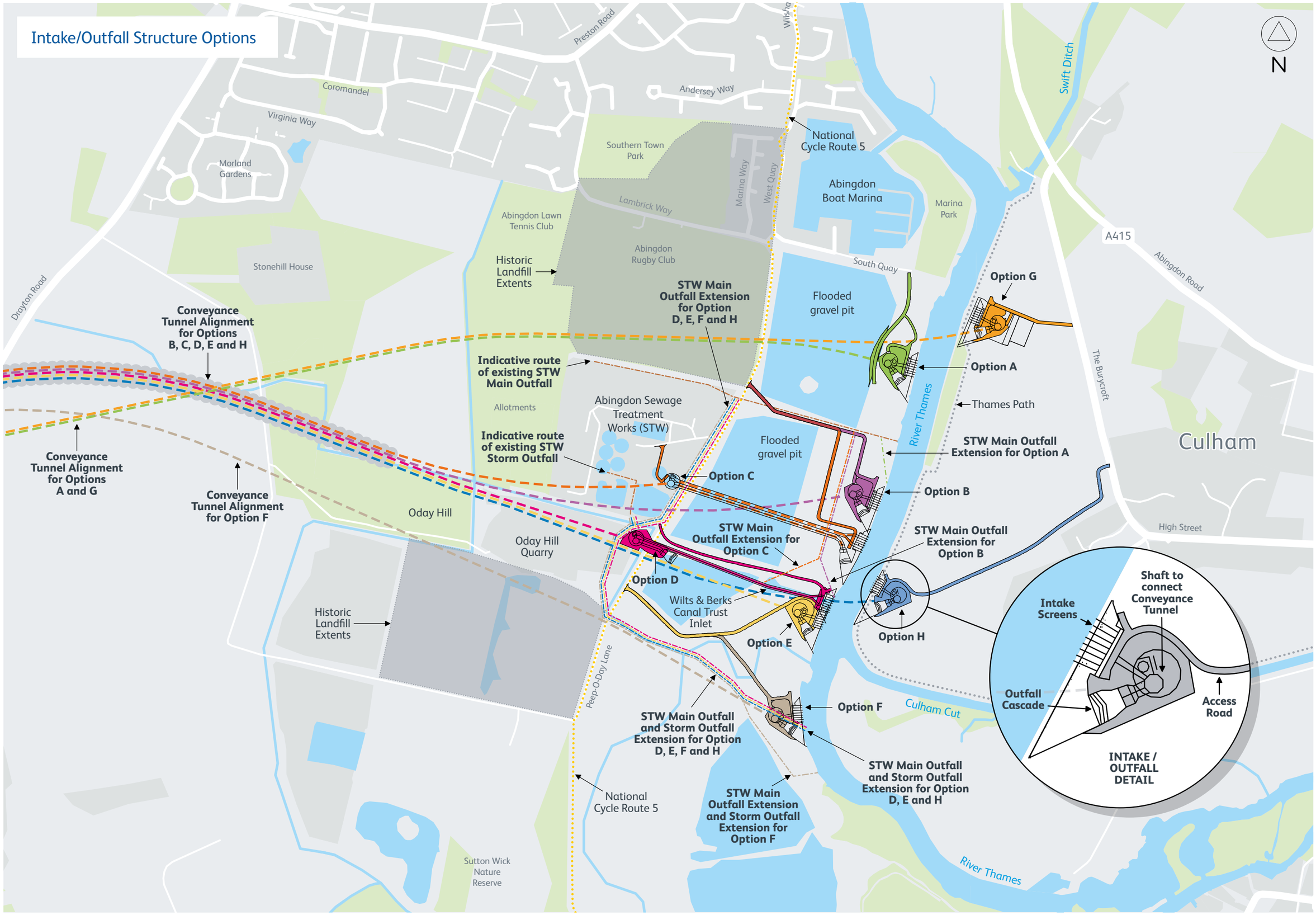
Steventon to East Hanney Road Diversion (Preferred Option)

Water Treatment Works Option 3

N

A338 A34 B4017 A4130 River Ock Field Barn Farm Garford Chadwicks Farm Venn Mill Ploughley Farm East Hanney Steventon Road Main Street Drayton High Street Abingdon Road Steventon Substation Pumping Station Steventon Hanney Road St Michaels CofE Primary School Hutchin's Copse Marsh Copse Great Western Main Line Steventon Copse Milton Height

Intake/Outfall Structure Options

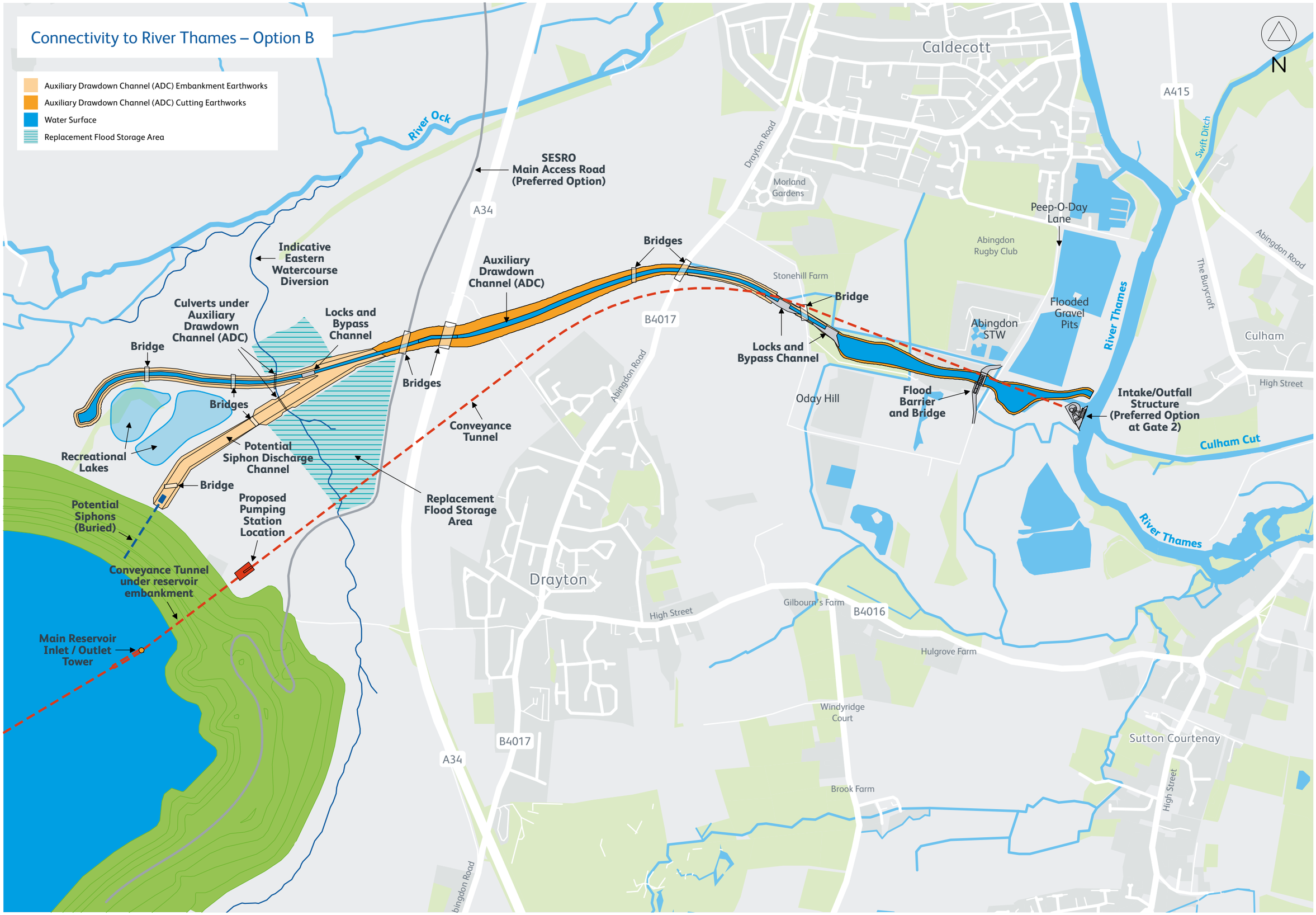


Connectivity to River Thames – Option A

Auxiliary Drawdown Channel (ADC) Embankment Earthworks
Auxiliary Drawdown Channel (ADC) Cutting Earthworks
Water Surface
Replacement Flood Storage Area

River Ock
SESRO Main Access Road (Preferred Option)
A34
Indicative Eastern Watercourse Diversion
Culverts under Auxiliary Drawdown Channel (ADC)
Locks and Bypass Channel
Bridge
Bridges
Auxiliary Drawdown Channel (ADC)
Bridges
Bridge
Locks and Bypass Channel
Conveyance Tunnel
Recreational Lakes
Potential Siphon Discharge Channel
Bridge
Proposed Pumping Station Location
Potential Siphons (Buried)
Conveyance Tunnel under reservoir embankment
Main Reservoir Inlet / Outlet Tower
Replacement Flood Storage Area
B4017
Abingdon Road
Stonehill Farm
Oday Hill
Drayton Road
Morland Gardens
Caldecott
Peep-O-Day Lane
Abingdon Rugby Club
Abingdon STW
Flooded Gravel Pits
River Thames
A415
Swift Ditch
The Burycroft
Abingdon Road
Culham
High Street
Bridge
Intake/Outfall Structure (Preferred Option at Gate 2)
Culham Cut
River Thames
Drayton
High Street
Gilbourn's Farm
B4016
Hulgrove Farm
Windyridge Court
B4017
A34
Brook Farm
Sutton Courtenay
High Street
N

Connectivity to River Thames – Option B



Connectivity to River Thames – Option C

Replacement Flood Storage Area

River Ock

SESRO Main Access Road (Preferred Option)

A34

Indicative Eastern Watercourse Diversion

Conveyance Tunnel

Replacement Flood Storage Area

Proposed Pumping Station Location

Conveyance Tunnel under reservoir embankment

Main Reservoir Inlet / Outlet Tower

Caldecott

Drayton Road

Morland Gardens

Peep-O-Day Lane

Abingdon Rugby Club

Stonehill Farm

B4017

Abingdon Road

Abingdon STW

Flooded Gravel Pits

River Thames

A415

Swift Ditch

The Burycroft

Abingdon Road

Culham

High Street

Oday Hill

Intake/Outfall Structure (Preferred Option at Gate 2)

Culham Cut

River Thames

Drayton

High Street

Gilbourn's Farm

B4016

Hulgrove Farm

Windyridge Court

B4017

A34

Brook Farm

Sutton Courtenay

High Street

N

Part B
Interim Landscape and Environmental Master Plan drawings


Legend
Existing:
Public rights of way
Woodland in the wider landscape
Woodland to be retained as far as practicable
Scrub to be retained as far as practicable
Hedgerow to be retained as far as practicable
Hedgerow with trees to be retained as far as practicable
Tree belt to be retained as far as practicable
Watercourse to be retained
Water body to be retained
Proposed:
Reservoir water extent
Indicative replacement floodplain storage
Inner toe of reservoir embankment and borrow pit contours
Indicative embankment and bund contours
Corridor for potential future canal diversion
Indicative vantage point with seating area for views towards North Wessex Downs National Landscape and/or limestone ridge
Public rights of way or permissive paths
Car park with hardstanding
Car park with reinforced grass
Visitor centre
Water sports centre
Cafe
Recreational facility
Education centre
Operational facility
Proposed:
Watercourse diversion
Watercourse realignment
Wetland ditch
Embankment toe-drain/perimeter ditch
Wetland habitat mosaic with reeds, species rich wet grassland and floodplain marsh
Floating island
Wildlife ponds, scrapes and pools
Great crested newt habitat pond
Recreational lakes
Marginal habitat
Species-rich native hedgerow
Species-rich native hedgerow with trees
Existing hedgerow to be retained as far as practicable and enhanced
Existing hedgerow with trees to be retained as far as practicable and enhanced
Existing tree belt to be retained as far as practicable and enhanced
Pasture for sheep grazing
Species-rich neutral grassland
Scrub
Intermittent trees and shrubs
Woodland and copse
Wet woodland
Land to be reinstated and returned to agriculture
Land to be reinstated to existing use
Disclaimer
The indicative proposals illustrated on this drawing, including potential locations of operational and recreational facilities, is subject to consultation, stakeholder engagement and further design development.
MAIN SHEET
INSET A
Caldecott
Abingdon Sewage Treatment Works
Drayton
B4017
Marcham
Marcham Road
A34
Abingdon
River Ock
A338
Childrey Brook
Steventon Road
East Hanney
Lollcombe Brook
Hanney Road
Steventon
Great Western Main Line Railway
Notes
1. Refer to J696-AJ-A02X-ZZZZ-DR-EN-100020 Interim Landscape and Environmental Master Plan with Below Ground Emergency Discharge Tunnel for labelled version of the Master Plan, as well as J696-AJ-A02X-ZZZZ-DR-EN-100034, J696-AJ-A02X-ZZZZ-DR-EN-100035 and J696-AJ-A02X-ZZZZ-DR-EN-100036 Interim Landscape and Environmental Master Plan Indicative Embankment Cross Sections (Sheet 1 to 3).
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Do not scale - if in doubt ask
0 100 200 300 400 500 600 700 800 900 1000 m
NOT TO SCALE
CURRENT REVISION INFORMATION
This drawing is based on the preferred project configuration with a below ground emergency discharge through the reservoir conveyance tunnel.
C01 A1 Authorised and accepted for consultation DR LD DS 16/05/24
Thames Water
AffinityWater
WATER for LIFE
Southern Water
APFP Reference: N/A
Security Reference: Public
Site Name: Abingdon
Project Name: South East Strategic Reservoir Option (SESRO)
Drawing Title: INTERIM LANDSCAPE AND ENVIRONMENTAL MASTER PLAN WITH BELOW GROUND EMERGENCY DISCHARGE TUNNEL
Scale: A1 - 1:10,000 A3 - 1:20,000
Sheet Size: A1
Status: A1
Drawing Number: J696-AJ-A02X-ZZZZ-DR-EN-100054
Revision: C01


Legend
Existing:
Public rights of way
Woodland in the wider landscape
Woodland to be retained as far as practicable
Scrub to be retained as far as practicable
Hedgerow to be retained as far as practicable
Hedgerow with trees to be retained as far as practicable
Tree belt to be retained as far as practicable
Watercourse to be retained
Water body to be retained
Proposed:
Reservoir water extent
Indicative replacement floodplain storage
Inner toe of reservoir embankment and borrow pit contours
Indicative embankment and bund contours
Corridor for potential future canal diversion
Indicative vantage point with seating area for views towards North Wessex Downs National Landscape and/or limestone ridge
Public rights of way or permissive paths
Car park with hardstanding
Car park with reinforced grass
Visitor centre
Cafe
Education centre
Water sports centre
Recreational facility
Operational facility
Proposed:
Watercourse diversion
Watercourse realignment
Wetland ditch
Embankment toe-drain/perimeter ditch
Wetland habitat mosaic with reeds, species rich wet grassland and floodplain marsh
Floating island
Wildlife ponds, scrapes and pools
Great crested newt habitat pond
Recreational lakes
Marginal habitat
Species-rich native hedgerow
Species-rich native hedgerow with trees
Existing hedgerow to be retained as far as practicable and enhanced
Existing hedgerow with trees to be retained as far as practicable and enhanced
Existing tree belt to be retained as far as practicable and enhanced
Pasture for sheep grazing
Species-rich neutral grassland
Scrub
Intermittent trees and shrubs
Woodland and copse
Wet woodland
Land to be reinstated and returned to agriculture
Land to be reinstated to existing use
Disclaimer
The indicative proposals illustrated on this drawing, including potential locations of operational and recreational facilities, is subject to consultation, stakeholder engagement and further design development.
MAIN SHEET
Caldecott
INTAKE/OUTFALL STRUCTURE
Abingdon Sewage Treatment Works
B4017
CONVEYANCE TUNNEL (INCLUDING EMERGENCY DISCHARGE)
Drayton
ALTERNATIVE INDICATIVE LOCATIONS FOR THAMES TO SOUTHERN TRANSFER WATER TREATMENT WORKS AND TEMPORARY COMPOUND
Marcham
ALTERNATIVE EDUCATION CENTRE LOCATION
CAFE NEXT TO RECREATIONAL LAKES
Bird hides may be incorporated within the wetland area.
PUMPING STATION
RECREATIONAL FACILITIES ASSOCIATED WITH LAKES
Marcham Road
A34
Abingdon
River Ock
SESRO MAIN ACCESS ROAD
Characteristic pattern of wide verges with ditches for road drainage and hedgerows with standard trees to be included along the access road.
A338
River Ock
Series of linked ponds, scrapes and backwaters to be created within existing floodplain, to include an informal network of footpaths and platforms for pond dipping (catching and studying pondlife) to provide biodiversity enhancements and an educational and recreational resource.
Wet woodland proposed adjacent to existing watercourse and tree belt with an ancient and several veteran trees (as shown on the Woodland Trust Ancient Tree Inventory). To be established through strategic tree planting and natural regeneration.
River Ock
River Ock
Childrey Brook
INSET A
Caldecott
B4017
CONVEYANCE TUNNEL (INCLUDING EMERGENCY DISCHARGE)
Drayton
Childrey Brook
Green infrastructure proposals along the northern fringe to align with the Ock Valley Blue Corridor ambitions, set out in the South & Vale Green Infrastructure Strategy. Key opportunities for strategic green infrastructure enhancement, linkage and creation to be explored.
Enhancements to public rights of way network with proposed public rights of way or permissive path links, including along the alignment of the corridor for potential future canal diversion. This would improve accessibility within this strategic green infrastructure corridor.
Bird hides may be incorporated within the wetland area.
Existing hedgerow along A338 to be retained and enhanced.
Wetland lagoons with marginal habitat and wet woodland for biodiversity and visual amenity enhancement.
INDICATIVE MINOR CAR PARK WITH RESTRICTED ACCESS
Steventon Road
East Hanney
A338
Hedgerows, small woodlands and woodland copses proposed on reservoir embankments for habitat connectivity and to help to integrate the embankments into the surrounding landscape.
Letcombe Brook
STEVENTON TO EAST HANNEY ROAD DIVERSION
SIPHON PIPES BURIED UNDER SURFACE OF DAM
CAFE NEXT TO RESERVOIR
RESERVOIR TOWERS WITH CONNECTING PIPE LAID ON RESERVOIR FLOOR
MAIN VISITOR CAR PARK
Bridleway access across A34 retained for walkers/wheelers, cyclists and horse-riders. (No public vehicular access).
A34
B4017
ALTERNATIVE VISITOR CENTRE LOCATION
ALTERNATIVE VISITOR AND EDUCATION CENTRE LOCATION
ALTERNATIVE OPERATIONAL ACCESS ROAD (No public vehicular access).
ALTERNATIVE WATER SPORTS CENTRE LOCATIONS. Limited associated secured and monitored car parking accessed via controlled barrier.
POTENTIAL EXTENSION OF ACCESS ROAD TO ALTERNATIVE WATER SPORTS CENTRE
Steventon Substation
Natural play features to be incorporated along trails.
Hanney Road
Steventon
INDICATIVE MINOR CAR PARK WITH RESTRICTED ACCESS
Great Western Main Line Railway
Notes
1. Key infrastructure and recreational facilities are labelled in capitals.
2. Refer to J696-AJ-A02X-ZZZZ-DR-EN-100034, J696-AJ-A02X-ZZZZ-DR-EN-100035 and J696-AJ-A02X-ZZZZ-DR-EN-100036 Interim Landscape and Environmental Master Plan Indicative Embankment Cross Sections (Sheet 1 to 3).
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NOT TO SCALE
CURRENT REVISION INFORMATION
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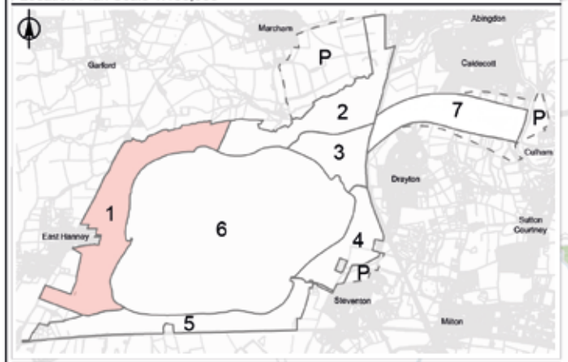
C01 A1 Authorised and accepted for consultation DR LD DS 16/05/24
Thames Water
AffinityWater
WATER for LIFE
Southern Water
AFFP References: N/A
Security Reference: Public
Site Name: Abingdon
Project Name: South East Strategic Reservoir Option (SESRO)
Drawing Title: INTERIM LANDSCAPE AND ENVIRONMENTAL MASTER PLAN WITH BELOW GROUND EMERGENCY DISCHARGE TUNNEL
Scale: A1 - 1:10,000 A3 - 1:20,000
Sheet Size: A1
Status: A1
Drawing Number: J696-AJ-A02X-ZZZZ-DR-EN-100020
Revision: C01

Location Plan Scale 1:100,000



References

This drawing should be read in conjunction with drawing J696-AJ-A02X-ZZZZ-DR-EN-100020 Interim Landscape and Environmental Master Plan with Below Ground Emergency Discharge Tunnel and drawings for:
Zone 2 - J696-AJ-A02X-ZZZZ-DR-EN-100024
Zone 3 - J696-AJ-A02X-ZZZZ-DR-EN-100026
Zone 4 - J696-AJ-A02X-ZZZZ-DR-EN-100028
Zone 5 - J696-AJ-A02X-ZZZZ-DR-EN-100029
Zone 6 - J696-AJ-A02X-ZZZZ-DR-EN-100030
Zone 7 - J696-AJ-A02X-ZZZZ-DR-EN-100032
No drawings have been prepared for Zones P which are potential areas for Master Plan amendment, following consultation and ongoing design work on options for associated infrastructure.

Notes

1. Key infrastructure features and recreational facilities are labelled in capitals.

Green infrastructure proposals along the northern fringe to align with the Ock Valley Blue Corridor ambitions, set out in the South & Vale Green Infrastructure Strategy. Key opportunities for strategic green infrastructure enhancement, linkage and creation to be explored.

Realignment of East Hanney Ditch.

Western watercourse diversion of Cow Common Brook.

Enhancements to public rights of way network with proposed public rights of way or permissive path links, including along the alignment of the corridor for potential future canal diversion. This would improve accessibility within this strategic green infrastructure corridor.

Bird hides may be incorporated within the wetland area.

Existing hedgerow along A338 to be retained and enhanced with locally characteristic species where they are in poor condition.

Intermittent trees and shrubs, species-rich native hedgerow with trees and enhancement of existing hedgerows to provide a green buffer along the eastern fringe of East Hanney.

STEVENTON TO EAST HANNEY ROAD DIVERSION

Environmental bunding with intermittent trees and shrubs for noise and visual screening of traffic along the Steventon to East Hanney road diversion.

EXTENT OF INDICATIVE REPLACEMENT FLOODPLAIN STORAGE

Public rights of way diversions or other permissive paths located mainly around the wetlands would allow visitors to SESRO to enjoy the wetlands and associated wildlife. Links to and from East Hanney would enable local access.

INDICATIVE MINOR CAR PARK WITH RESTRICTED ACCESS

EXTENT OF INDICATIVE REPLACEMENT FLOODPLAIN STORAGE

Childrey Brook
Childrey Brook
River Ock
Steventon Road
A338
East Hanney
Letcombe Brook

0 100 200 300 400 500 600 700 800 900 1000 m
SCALE 1:15,000

Do not scale - if in doubt ask

Legend

Existing:
- Public rights of way
- Woodland in the wider landscape
- Woodland to be retained as far as practicable
- Scrub to be retained as far as practicable
- Hedgerow to be retained as far as practicable
- Hedgerow with trees to be retained as far as practicable
- Tree belt to be retained as far as practicable
- Watercourse to be retained
- Water body to be retained

Proposed:
- Reservoir water extent
- Indicative replacement floodplain storage
- Inner toe of reservoir embankment and borrow pit contours
- Indicative embankment and bund contours
- Corridor for potential future canal diversion
- Indicative vantage point with seating area for views towards North Wessex Downs National Landscape and/or limestone ridge
- Public rights of way or permissive paths
- Car park with hardstanding
- Car park with reinforced grass
- Visitor centre
- Cafe
- Education centre
- Water sports centre
- Recreational facility
- Operational facility
- Watercourse diversion
- Watercourse realignment
- Wetland ditch
- Embankment toe-drain/perimeter ditch
- Wetland habitat mosaic with reeds, species rich wet grassland and floodplain marsh
- Floating island
- Wildlife ponds, scrapes and pools
- Great crested newt habitat pond
- Recreational lakes
- Marginal habitat
- Species-rich native hedgerow
- Species-rich native hedgerow with trees
- Existing hedgerow to be retained as far as practicable and enhanced
- Existing hedgerow with trees to be retained as far as practicable and enhanced
- Existing tree belt to be retained as far as practicable and enhanced
- Pasture for sheep grazing
- Species-rich neutral grassland
- Scrub
- Intermittent trees and shrubs
- Woodland and copse
- Wet woodland
- Land to be reinstated and returned to agriculture
- Land to be reinstated to existing use

Disclaimer

The indicative proposals illustrated on this drawing, including potential locations of operational and recreational facilities, is subject to consultation, stakeholder engagement and further design development.

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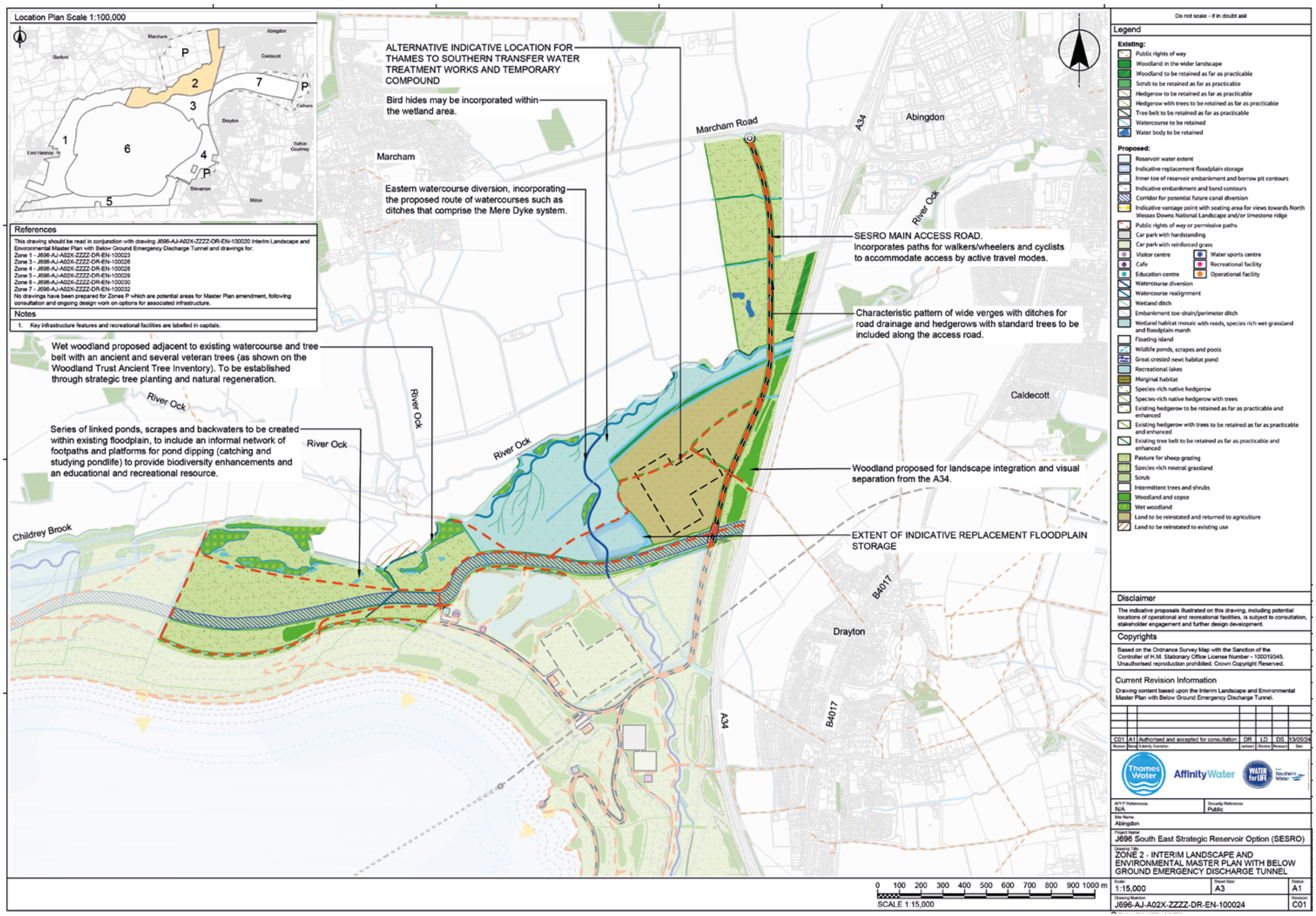
Current Revision Information

Drawing content based upon the Interim Landscape and Environmental Master Plan with Below Ground Emergency Discharge Tunnel.

Revision	Issue	Suitability Description	Authorised	Checked	Reviewed	Date
C01	A1	Authorised and accepted for consultation	DR	LD	DS	14/05/24

Thames Water · AffinityWater · Water for Life · Southern Water

APEP References: N/A	Security Reference: Public
Site Name: South East Strategic Reservoir Option (SESRO)	
Project Name: J696 South East Strategic Reservoir Option (SESRO)	
Drawing Title: ZONE 1 - INTERIM LANDSCAPE AND ENVIRONMENTAL MASTER PLAN WITH BELOW GROUND EMERGENCY DISCHARGE TUNNEL	
Scale: 1:15,000	Sheet Size: A3 / Status: A1
Drawing Number: J696-AJ-A02X-ZZZZ-DR-EN-100023	Revision: C01


Location Plan Scale 1:100,000
Marcham
Abingdon
Garford
Caldecott
Drayton
Culham
Sutton Courtney
East Hanney
Steventon
Milton
P
1
2
3
4
5
6
7
References
This drawing should be read in conjunction with drawing J696-AJ-A02X-ZZZZ-DR-EN-100020 Interim Landscape and Environmental Master Plan with Below Ground Emergency Discharge Tunnel and drawings for:
Zone 1 - J696-AJ-A02X-ZZZZ-DR-EN-100023
Zone 3 - J696-AJ-A02X-ZZZZ-DR-EN-100026
Zone 4 - J696-AJ-A02X-ZZZZ-DR-EN-100028
Zone 5 - J696-AJ-A02X-ZZZZ-DR-EN-100029
Zone 6 - J696-AJ-A02X-ZZZZ-DR-EN-100030
Zone 7 - J696-AJ-A02X-ZZZZ-DR-EN-100032
No drawings have been prepared for Zones P which are potential areas for Master Plan amendment, following consultation and ongoing design work on options for associated infrastructure.
Notes
1. Key infrastructure features and recreational facilities are labelled in capitals.
ALTERNATIVE INDICATIVE LOCATION FOR THAMES TO SOUTHERN TRANSFER WATER TREATMENT WORKS AND TEMPORARY COMPOUND
Bird hides may be incorporated within the wetland area.
Marcham
Eastern watercourse diversion, incorporating the proposed route of watercourses such as ditches that comprise the Mere Dyke system.
Wet woodland proposed adjacent to existing watercourse and tree belt with an ancient and several veteran trees (as shown on the Woodland Trust Ancient Tree Inventory). To be established through strategic tree planting and natural regeneration.
River Ock
Series of linked ponds, scrapes and backwaters to be created within existing floodplain, to include an informal network of footpaths and platforms for pond dipping (catching and studying pondlife) to provide biodiversity enhancements and an educational and recreational resource.
River Ock
River Ock
River Ock
Childrey Brook
Marcham Road
A34
Abingdon
River Ock
SESRO MAIN ACCESS ROAD.
Incorporates paths for walkers/wheelers and cyclists to accommodate access by active travel modes.
Characteristic pattern of wide verges with ditches for road drainage and hedgerows with standard trees to be included along the access road.
Caldecott
Woodland proposed for landscape integration and visual separation from the A34.
EXTENT OF INDICATIVE REPLACEMENT FLOODPLAIN STORAGE
B4017
Drayton
A34
B4017
0 100 200 300 400 500 600 700 800 900 1000 m
SCALE 1:15,000
Do not scale - if in doubt ask
Legend
Existing:
Public rights of way
Woodland in the wider landscape
Woodland to be retained as far as practicable
Scrub to be retained as far as practicable
Hedgerow to be retained as far as practicable
Hedgerow with trees to be retained as far as practicable
Tree belt to be retained as far as practicable
Watercourse to be retained
Water body to be retained
Proposed:
Reservoir water extent
Indicative replacement floodplain storage
Inner toe of reservoir embankment and borrow pit contours
Indicative embankment and bund contours
Corridor for potential future canal diversion
Indicative vantage point with seating area for views towards North Wessex Downs National Landscape and/or limestone ridge
Public rights of way or permissive paths
Car park with hardstanding
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Visitor centre
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Education centre
Water sports centre
Recreational facility
Operational facility
Watercourse diversion
Watercourse realignment
Wetland ditch
Embankment toe-drain/perimeter ditch
Wetland habitat mosaic with reeds, species rich wet grassland and floodplain marsh
Floating island
Wildlife ponds, scrapes and pools
Great crested newt habitat pond
Recreational lakes
Marginal habitat
Species-rich native hedgerow
Species-rich native hedgerow with trees
Existing hedgerow to be retained as far as practicable and enhanced
Existing hedgerow with trees to be retained as far as practicable and enhanced
Existing tree belt to be retained as far as practicable and enhanced
Pasture for sheep grazing
Species-rich neutral grassland
Scrub
Intermittent trees and shrubs
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Land to be reinstated to existing use
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Current Revision Information
Drawing content based upon the Interim Landscape and Environmental Master Plan with Below Ground Emergency Discharge Tunnel.
C01 A1 Authorised and accepted for consultation DR LD DS 13/05/24
Thames Water
Affinity Water
WATER for LIFE
APP Reference: N/A
Security Reference: Public
Site Name: Abingdon
Project Name: J696 South East Strategic Reservoir Option (SESRO)
Drawing Title: ZONE 2 - INTERIM LANDSCAPE AND ENVIRONMENTAL MASTER PLAN WITH BELOW GROUND EMERGENCY DISCHARGE TUNNEL
Scale: 1:15,000
Sheet Size: A3
Status: A1
Drawing Number: J696-AJ-A02X-ZZZZ-DR-EN-100024
Revision: C01

Location Plan Scale 1:100,000

References

This drawing should be read in conjunction with drawing J696-AJ-A02X-ZZZZ-DR-EN-100020 Interim Landscape and Environmental Master Plan with Below Ground Emergency Discharge Tunnel and drawings for:
Zone 1 - J696-AJ-A02X-ZZZZ-DR-EN-100023
Zone 2 - J696-AJ-A02X-ZZZZ-DR-EN-100024
Zone 4 - J696-AJ-A02X-ZZZZ-DR-EN-100028
Zone 5 - J696-AJ-A02X-ZZZZ-DR-EN-100029
Zone 6 - J696-AJ-A02X-ZZZZ-DR-EN-100030
Zone 7 - J696-AJ-A02X-ZZZZ-DR-EN-100032
No drawings have been prepared for Zones P which are potential areas for Master Plan amendment, following consultation and ongoing design work on options for associated infrastructure.

Notes

1. Key infrastructure features and recreational facilities are labelled in capitals.

Frilford Road

Eastern watercourse diversion, incorporating the proposed route of watercourses such as ditches that comprise the Mere Dyke system.

Potential picnic or barbeque area with seating.

Recreational lakes, incorporating marginal habitat and wet woodland, to potentially provide visitors with opportunities for angling and swimming.

RECREATIONAL FACILITIES ASSOCIATED WITH LAKES

River Ock

River Ock

CAFE NEXT TO RECREATIONAL LAKES

River Ock

ALTERNATIVE EDUCATION CENTRE LOCATION

Childrey Brook

EXTENT OF INDICATIVE REPLACEMENT FLOODPLAIN STORAGE

Caldecott

B4017

Drayton

CONVEYANCE TUNNEL (INCLUDING EMERGENCY DISCHARGE)

B4017

Environmental bunding with woodland planting along the A34 to provide noise and visual screening of the indicative location for SESRO from traffic associated with the A34.

ALTERNATIVE INDICATIVE LOCATION FOR THAMES TO SOUTHERN TRANSFER WATER TREATMENT WORKS AND TEMPORARY COMPOUND

A34

Bridleway access across A34 retained for walkers/wheelers, cyclists and horse-riders. (No public vehicular access).

PUMPING STATION

ALTERNATIVE VISITOR CENTRE LOCATION

MAIN VISITOR CAR PARK

A34

0 100 200 300 400 500 600 700 800 900 1000 m
SCALE 1:15,000

Do not scale - if in doubt ask

Legend

Existing:
- Public rights of way
- Woodland in the wider landscape
- Woodland to be retained as far as practicable
- Scrub to be retained as far as practicable
- Hedgerow to be retained as far as practicable
- Hedgerow with trees to be retained as far as practicable
- Tree belt to be retained as far as practicable
- Watercourse to be retained
- Water body to be retained

Proposed:
- Reservoir water extent
- Indicative replacement floodplain storage
- Inner toe of reservoir embankment and borrow pit contours
- Indicative embankment and bund contours
- Corridor for potential future canal diversion
- Indicative vantage point with seating area for views towards North Wessex Downs National Landscape and/or limestone ridge
- Public rights of way or permissive paths
- Car park with hardstanding
- Car park with reinforced grass
- Visitor centre
- Cafe
- Education centre
- Water sports centre
- Recreational facility
- Operational facility
- Watercourse diversion
- Watercourse realignment
- Wetland ditch
- Embankment toe-drain/perimeter ditch
- Wetland habitat mosaic with reeds, species rich wet grassland and floodplain marsh
- Floating island
- Wildlife ponds, scrapes and pools
- Great crested newt habitat pond
- Recreational lakes
- Marginal habitat
- Species-rich native hedgerow
- Species-rich native hedgerow with trees
- Existing hedgerow to be retained as far as practicable and enhanced
- Existing hedgerow with trees to be retained as far as practicable and enhanced
- Existing tree belt to be retained as far as practicable and enhanced
- Pasture for sheep grazing
- Species-rich neutral grassland
- Scrub
- Intermittent trees and shrubs
- Woodland and copse
- Wet woodland
- Land to be reinstated and returned to agriculture
- Land to be reinstated to existing use

Disclaimer

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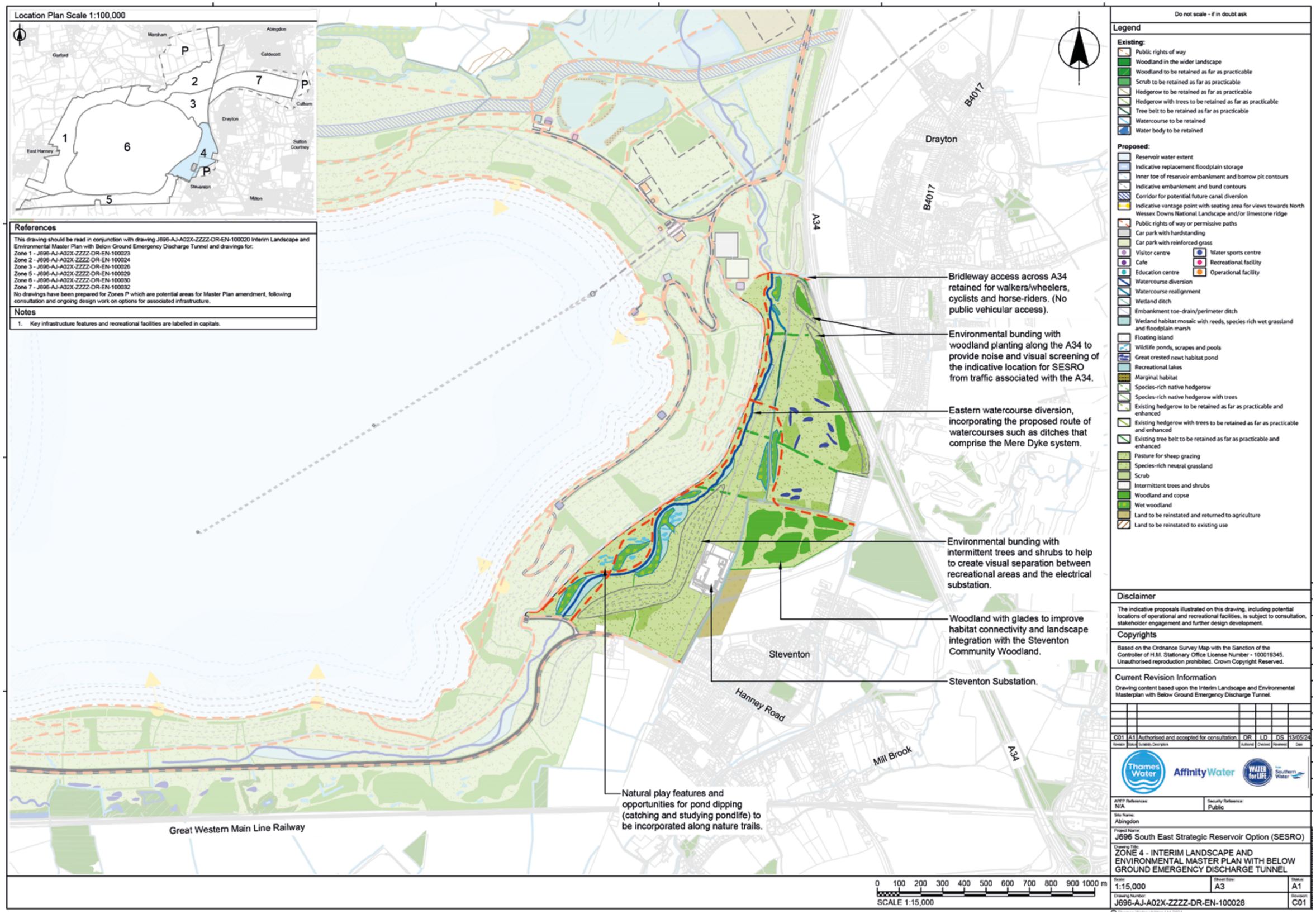
Current Revision Information

Drawing content based upon the Interim Landscape and Environmental Master Plan with Below Ground Emergency Discharge Tunnel.

Revision	Status	Suitability Description	Authored	Checked	Reviewed	Date
C01	A1	Authorised and accepted for consultation	DR	LD	DS	13/05/24

Thames Water · AffinityWater · Water for Life – Southern Water

APP References: N/A	Security Reference: Public
Site Name: Abingdon	
Project Name: J696 South East Strategic Reservoir Option (SESRO)	
Drawing Title: ZONE 3 - INTERIM LANDSCAPE AND ENVIRONMENTAL MASTER PLAN WITH BELOW GROUND EMERGENCY DISCHARGE TUNNEL	
Scale: 1:15,000	Sheet Size: A3 / Status: A1
Drawing Number: J696-AJ-A02X-ZZZZ-DR-EN-100026	Revision: C01


Location Plan Scale 1:100,000
Marcham
Abingdon
Garford
Caldecott
Culham
Drayton
Sutton Courtney
East Hanney
Steventon
Milton
P
1
2
3
4
5
6
7
References
This drawing should be read in conjunction with drawing J696-AJ-A02X-ZZZZ-DR-EN-100020 Interim Landscape and Environmental Master Plan with Below Ground Emergency Discharge Tunnel and drawings for:
Zone 1 - J696-AJ-A02X-ZZZZ-DR-EN-100023
Zone 2 - J696-AJ-A02X-ZZZZ-DR-EN-100024
Zone 3 - J696-AJ-A02X-ZZZZ-DR-EN-100026
Zone 5 - J696-AJ-A02X-ZZZZ-DR-EN-100029
Zone 6 - J696-AJ-A02X-ZZZZ-DR-EN-100030
Zone 7 - J696-AJ-A02X-ZZZZ-DR-EN-100032
No drawings have been prepared for Zones P which are potential areas for Master Plan amendment, following consultation and ongoing design work on options for associated infrastructure.
Notes
1. Key infrastructure features and recreational facilities are labelled in capitals.
B4017
Drayton
A34
Bridleway access across A34 retained for walkers/wheelers, cyclists and horse-riders. (No public vehicular access).
Environmental bunding with woodland planting along the A34 to provide noise and visual screening of the indicative location for SESRO from traffic associated with the A34.
Eastern watercourse diversion, incorporating the proposed route of watercourses such as ditches that comprise the Mere Dyke system.
Environmental bunding with intermittent trees and shrubs to help to create visual separation between recreational areas and the electrical substation.
Woodland with glades to improve habitat connectivity and landscape integration with the Steventon Community Woodland.
Steventon
Steventon Substation.
Hanney Road
Mill Brook
Natural play features and opportunities for pond dipping (catching and studying pondlife) to be incorporated along nature trails.
Great Western Main Line Railway
Do not scale - if in doubt ask
Legend
Existing:
Public rights of way
Woodland in the wider landscape
Woodland to be retained as far as practicable
Scrub to be retained as far as practicable
Hedgerow to be retained as far as practicable
Hedgerow with trees to be retained as far as practicable
Tree belt to be retained as far as practicable
Watercourse to be retained
Water body to be retained
Proposed:
Reservoir water extent
Indicative replacement floodplain storage
Inner toe of reservoir embankment and borrow pit contours
Indicative embankment and bund contours
Corridor for potential future canal diversion
Indicative vantage point with seating area for views towards North Wessex Downs National Landscape and/or limestone ridge
Public rights of way or permissive paths
Car park with hardstanding
Car park with reinforced grass
Visitor centre
Cafe
Education centre
Water sports centre
Recreational facility
Operational facility
Watercourse diversion
Watercourse realignment
Wetland ditch
Embankment toe-drain/perimeter ditch
Wetland habitat mosaic with reeds, species rich wet grassland and floodplain marsh
Floating island
Wildlife ponds, scrapes and pools
Great crested newt habitat pond
Recreational lakes
Marginal habitat
Species-rich native hedgerow
Species-rich native hedgerow with trees
Existing hedgerow to be retained as far as practicable and enhanced
Existing hedgerow with trees to be retained as far as practicable and enhanced
Existing tree belt to be retained as far as practicable and enhanced
Pasture for sheep grazing
Species-rich neutral grassland
Scrub
Intermittent trees and shrubs
Woodland and copse
Wet woodland
Land to be reinstated and returned to agriculture
Land to be reinstated to existing use
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Current Revision Information
Drawing content based upon the Interim Landscape and Environmental Masterplan with Below Ground Emergency Discharge Tunnel.
C01 A1 Authorised and accepted for consultation. DR LD DS 13/05/24
Thames Water
Affinity Water
WATER for LIFE
APFP References: N/A
Security Reference: Public
Site Name: Abingdon
Project Name: J696 South East Strategic Reservoir Option (SESRO)
Drawing Title: ZONE 4 - INTERIM LANDSCAPE AND ENVIRONMENTAL MASTER PLAN WITH BELOW GROUND EMERGENCY DISCHARGE TUNNEL
Scale: 1:15,000
Sheet Size: A3
Status: A1
Drawing Number: J696-AJ-A02X-ZZZZ-DR-EN-100028
Revision: C01
0 100 200 300 400 500 600 700 800 900 1000 m
SCALE 1:15,000

Location Plan Scale 1:100,000

References

This drawing should be read in conjunction with drawing J696-AJ-A02X-ZZZZ-DR-EN-100020 Interim Landscape and Environmental Master Plan with Below Ground Emergency Discharge Tunnel and drawings for:
Zone 1 - J696-AJ-A02X-ZZZZ-DR-EN-100023
Zone 2 - J696-AJ-A02X-ZZZZ-DR-EN-100024
Zone 3 - J696-AJ-A02X-ZZZZ-DR-EN-100026
Zone 4 - J696-AJ-A02X-ZZZZ-DR-EN-100028
Zone 6 - J696-AJ-A02X-ZZZZ-DR-EN-100030
Zone 7 - J696-AJ-A02X-ZZZZ-DR-EN-100032
No drawings have been prepared for Zones P which are potential areas for Master Plan amendment, following consultation and ongoing design work on options for associated infrastructure.

Notes

1. Key infrastructure features and recreational facilities are labelled in capitals.

INDICATIVE MINOR CAR PARK WITH RESTRICTED ACCESS

Eastern watercourse diversion, incorporating the proposed route of watercourses such as ditches that comprise the Mere Dyke system.

Great Western Main Line Railway

EXTENT OF INDICATIVE REPLACEMENT FLOODPLAIN STORAGE

Woodland with glades to increase the woodland habitat west of The Cuttings and Hutchins Copse Local Wildlife Site.

STEVENTON TO EAST HANNEY ROAD DIVERSION incorporates paths for walkers/wheelers and cyclists to accommodate access by active travel modes.

Existing woodland associated with The Cuttings and Hutchins Copse Local Wildlife Site.

Woodland with glades to increase the woodland habitat east of The Cuttings and Hutchins Copse Local Wildlife Site.

Environmental bunding with intermittent trees and shrubs to provide noise and visual screening of traffic on the Steventon to East Hanney road diversion for properties on the western fringe of Steventon.

0 100 200 300 400 500 600 700 800 900 1000 m
SCALE 1:15,000

Do not scale - if in doubt ask

Legend

Existing:
- Public rights of way
- Woodland in the wider landscape
- Woodland to be retained as far as practicable
- Scrub to be retained as far as practicable
- Hedgerow to be retained as far as practicable
- Hedgerow with trees to be retained as far as practicable
- Tree belt to be retained as far as practicable
- Watercourse to be retained
- Water body to be retained

Proposed:
- Reservoir water extent
- Indicative replacement floodplain storage
- Inner toe of reservoir embankment and borrow pit contours
- Indicative embankment and bund contours
- Corridor for potential future canal diversion
- Indicative vantage point with seating area for views towards North Wessex Downs National Landscape and/or limestone ridge
- Public rights of way or permissive paths
- Car park with hardstanding
- Car park with reinforced grass
- Visitor centre
- Cafe
- Education centre
- Water sports centre
- Recreational facility
- Operational facility
- Watercourse diversion
- Watercourse realignment
- Wetland ditch
- Embankment toe-drain/perimeter ditch
- Wetland habitat mosaic with reeds, species rich wet grassland and floodplain marsh
- Floating island
- Wildlife ponds, scrapes and pools
- Great crested newt habitat pond
- Recreational lakes
- Marginal habitat
- Species-rich native hedgerow
- Species-rich native hedgerow with trees
- Existing hedgerow to be retained as far as practicable and enhanced
- Existing hedgerow with trees to be retained as far as practicable and enhanced
- Existing tree belt to be retained as far as practicable and enhanced
- Pasture for sheep grazing
- Species-rich neutral grassland
- Scrub
- Intermittent trees and shrubs
- Woodland and copse
- Wet woodland
- Land to be reinstated and returned to agriculture
- Land to be reinstated to existing use

Disclaimer

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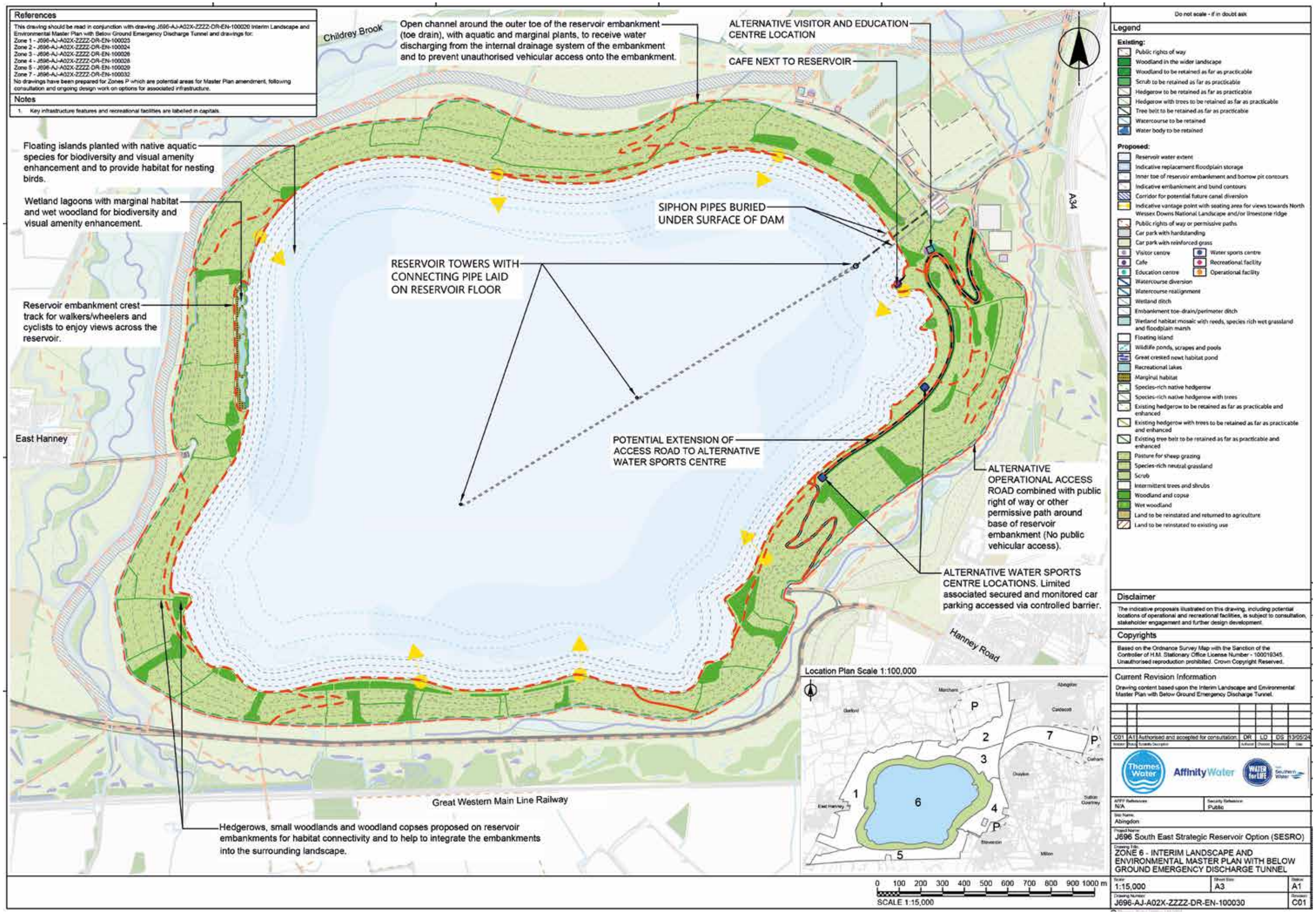
Current Revision Information

Drawing content based upon the Interim Landscape and Environmental Master Plan with Below Ground Emergency Discharge Tunnel.

Revision	Status	Suitability Description	Authored	Checked	Reviewed	Date
C01	A1	Authorised and accepted for consultation	DR	LD	DS	14/05/24

Thames Water · Affinity Water · Water for Life · Southern Water

AFFP References: N/A	Security Reference: Public
Site Name: Abingdon	
Project Name: J696 South East Strategic Reservoir Option (SESRO)	
Drawing Title: ZONE 5 - INTERIM LANDSCAPE AND ENVIRONMENTAL MASTER PLAN WITH BELOW GROUND EMERGENCY DISCHARGE TUNNEL	
Scale: 1:15,000	Sheet Size: A3 / Status: A1
Drawing Number: J696-AJ-A02X-ZZZZ-DR-EN-100029	Revision: C01


References
This drawing should be read in conjunction with drawing J696-AJ-A02X-ZZZZ-DR-EN-100020 Interim Landscape and Environmental Master Plan with Below Ground Emergency Discharge Tunnel and drawings for:
Zone 1 - J696-AJ-A02X-ZZZZ-DR-EN-100023
Zone 2 - J696-AJ-A02X-ZZZZ-DR-EN-100024
Zone 3 - J696-AJ-A02X-ZZZZ-DR-EN-100026
Zone 4 - J696-AJ-A02X-ZZZZ-DR-EN-100028
Zone 5 - J696-AJ-A02X-ZZZZ-DR-EN-100029
Zone 7 - J696-AJ-A02X-ZZZZ-DR-EN-100032
No drawings have been prepared for Zones P which are potential areas for Master Plan amendment, following consultation and ongoing design work on options for associated infrastructure.
Notes
1. Key infrastructure features and recreational facilities are labelled in capitals.
Childrey Brook
Open channel around the outer toe of the reservoir embankment (toe drain), with aquatic and marginal plants, to receive water discharging from the internal drainage system of the embankment and to prevent unauthorised vehicular access onto the embankment.
ALTERNATIVE VISITOR AND EDUCATION CENTRE LOCATION
CAFE NEXT TO RESERVOIR
Floating islands planted with native aquatic species for biodiversity and visual amenity enhancement and to provide habitat for nesting birds.
Wetland lagoons with marginal habitat and wet woodland for biodiversity and visual amenity enhancement.
SIPHON PIPES BURIED UNDER SURFACE OF DAM
A34
RESERVOIR TOWERS WITH CONNECTING PIPE LAID ON RESERVOIR FLOOR
Reservoir embankment crest track for walkers/wheelers and cyclists to enjoy views across the reservoir.
East Hanney
POTENTIAL EXTENSION OF ACCESS ROAD TO ALTERNATIVE WATER SPORTS CENTRE
ALTERNATIVE OPERATIONAL ACCESS ROAD combined with public right of way or other permissive path around base of reservoir embankment (No public vehicular access).
ALTERNATIVE WATER SPORTS CENTRE LOCATIONS. Limited associated secured and monitored car parking accessed via controlled barrier.
Hanney Road
Great Western Main Line Railway
Hedgerows, small woodlands and woodland copses proposed on reservoir embankments for habitat connectivity and to help to integrate the embankments into the surrounding landscape.
Location Plan Scale 1:100,000
Do not scale - if in doubt ask
Legend
Existing:
Public rights of way
Woodland in the wider landscape
Woodland to be retained as far as practicable
Scrub to be retained as far as practicable
Hedgerow to be retained as far as practicable
Hedgerow with trees to be retained as far as practicable
Tree belt to be retained as far as practicable
Watercourse to be retained
Water body to be retained
Proposed:
Reservoir water extent
Indicative replacement floodplain storage
Inner toe of reservoir embankment and borrow pit contours
Indicative embankment and bund contours
Corridor for potential future canal diversion
Indicative vantage point with seating area for views towards North Wessex Downs National Landscape and/or limestone ridge
Public rights of way or permissive paths
Car park with hardstanding
Car park with reinforced grass
Visitor centre
Cafe
Education centre
Water sports centre
Recreational facility
Operational facility
Watercourse diversion
Watercourse realignment
Wetland ditch
Embankment toe-drain/perimeter ditch
Wetland habitat mosaic with reeds, species rich wet grassland and floodplain marsh
Floating island
Wildlife ponds, scrapes and pools
Great crested newt habitat pond
Recreational lakes
Marginal habitat
Species-rich native hedgerow
Species-rich native hedgerow with trees
Existing hedgerow to be retained as far as practicable and enhanced
Existing hedgerow with trees to be retained as far as practicable and enhanced
Existing tree belt to be retained as far as practicable and enhanced
Pasture for sheep grazing
Species-rich neutral grassland
Scrub
Intermittent trees and shrubs
Woodland and copse
Wet woodland
Land to be reinstated and returned to agriculture
Land to be reinstated to existing use
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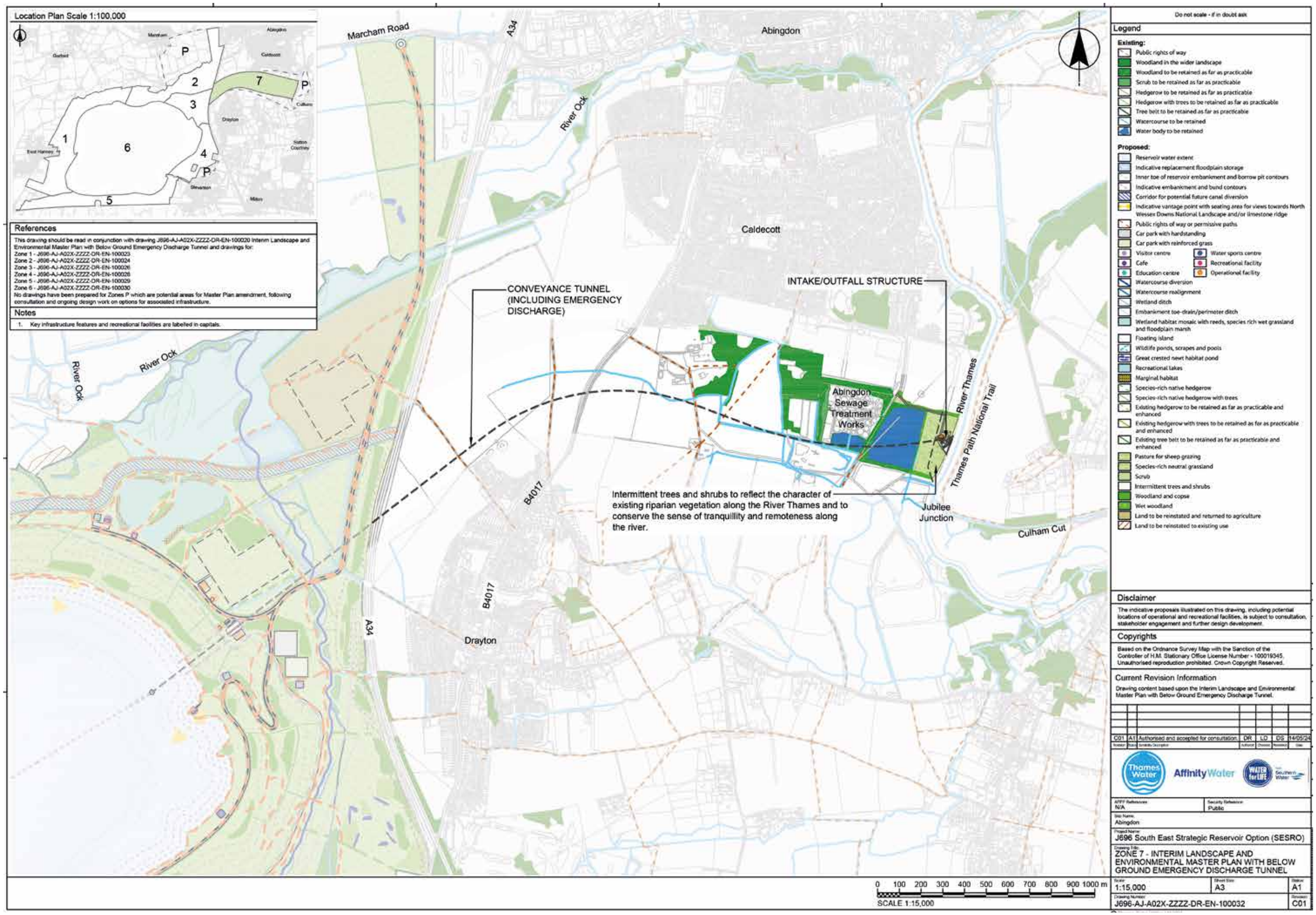
Current Revision Information
Drawing content based upon the Interim Landscape and Environmental Master Plan with Below Ground Emergency Discharge Tunnel.
C01 A1 Authorised and accepted for consultation DR LD GS 13/05/24
Thames Water
Affinity Water
Abingdon
J696 South East Strategic Reservoir Option (SESRO)
ZONE 6 - INTERIM LANDSCAPE AND ENVIRONMENTAL MASTER PLAN WITH BELOW GROUND EMERGENCY DISCHARGE TUNNEL
1:15,000
A3
A1
J696-AJ-A02X-ZZZZ-DR-EN-100030
C01
0 100 200 300 400 500 600 700 800 900 1000 m
SCALE 1:15,000


Location Plan Scale 1:100,000
Marcham
Abingdon
Garford
Caldecott
Culham
Drayton
East Hanney
Sutton Courtney
Sinodun
Milton
P
1
2
3
4
5
6
7
References
This drawing should be read in conjunction with drawing J696-AJ-A02X-ZZZZ-DR-EN-100020 Interim Landscape and Environmental Master Plan with Below Ground Emergency Discharge Tunnel and drawings for:
Zone 1 - J696-AJ-A02X-ZZZZ-DR-EN-100023
Zone 2 - J696-AJ-A02X-ZZZZ-DR-EN-100024
Zone 3 - J696-AJ-A02X-ZZZZ-DR-EN-100025
Zone 4 - J696-AJ-A02X-ZZZZ-DR-EN-100026
Zone 5 - J696-AJ-A02X-ZZZZ-DR-EN-100029
Zone 6 - J696-AJ-A02X-ZZZZ-DR-EN-100030
No drawings have been prepared for Zones P which are potential areas for Master Plan amendment, following consultation and ongoing design work on options for associated infrastructure.
Notes
1. Key infrastructure features and recreational facilities are labelled in capitals.
Marcham Road
A34
River Ock
Abingdon
Caldecott
CONVEYANCE TUNNEL (INCLUDING EMERGENCY DISCHARGE)
INTAKE/OUTFALL STRUCTURE
Abingdon Sewage Treatment Works
River Thames
Thames Path National Trail
Intermittent trees and shrubs to reflect the character of existing riparian vegetation along the River Thames and to conserve the sense of tranquillity and remoteness along the river.
Jubilee Junction
Culham Cut
B4017
Drayton
0 100 200 300 400 500 600 700 800 900 1000 m
SCALE 1:15,000
Do not scale - if in doubt ask
Legend
Existing:
Public rights of way
Woodland in the wider landscape
Woodland to be retained as far as practicable
Scrub to be retained as far as practicable
Hedgerow to be retained as far as practicable
Hedgerow with trees to be retained as far as practicable
Tree belt to be retained as far as practicable
Watercourse to be retained
Water body to be retained
Proposed:
Reservoir water extent
Indicative replacement floodplain storage
Inner toe of reservoir embankment and borrow pit contours
Indicative embankment and bund contours
Corridor for potential future canal diversion
Indicative vantage point with seating area for views towards North Wessex Downs National Landscape and/or limestone ridge
Public rights of way or permissive paths
Car park with hardstanding
Car park with reinforced grass
Visitor centre
Cafe
Education centre
Water sports centre
Recreational facility
Operational facility
Watercourse diversion
Watercourse realignment
Wetland ditch
Embankment toe-drain/perimeter ditch
Wetland habitat mosaic with reeds, species rich wet grassland and floodplain marsh
Floating island
Wildlife ponds, scrapes and pools
Great crested newt habitat pond
Recreational lakes
Marginal habitat
Species-rich native hedgerow
Species-rich native hedgerow with trees
Existing hedgerow to be retained as far as practicable and enhanced
Existing hedgerow with trees to be retained as far as practicable and enhanced
Existing tree belt to be retained as far as practicable and enhanced
Pasture for sheep grazing
Species-rich neutral grassland
Scrub
Intermittent trees and shrubs
Woodland and copse
Wet woodland
Land to be reinstated and returned to agriculture
Land to be reinstated to existing use
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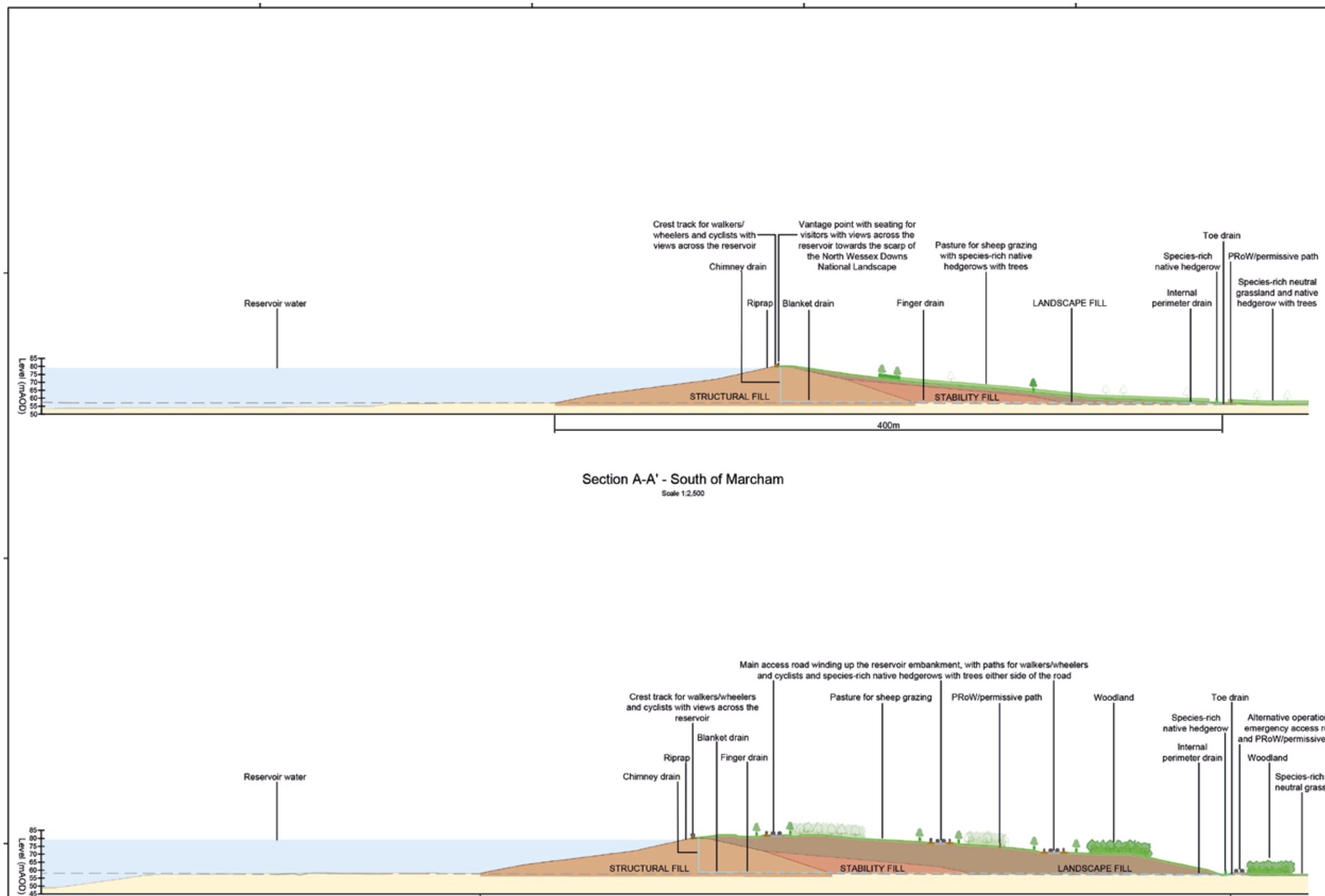
Current Revision Information
Drawing content based upon the Interim Landscape and Environmental Master Plan with Below Ground Emergency Discharge Tunnel.
C01 A1 Authorised and accepted for consultation DR LO DS 14/05/24
Thames Water
Affinity Water
WATER for LIFE
Southern Water
AFFP References N/A
Security Reference Public
Site Name Abingdon
Project Name J696 South East Strategic Reservoir Option (SESRO)
Drawing Title ZONE 7 - INTERIM LANDSCAPE AND ENVIRONMENTAL MASTER PLAN WITH BELOW GROUND EMERGENCY DISCHARGE TUNNEL
Scale 1:15,000
Sheet Size A3
Status A1
Drawing Number J696-AJ-A02X-ZZZZ-DR-EN-100032
Revision C01



Section A-A' - South of Marcham

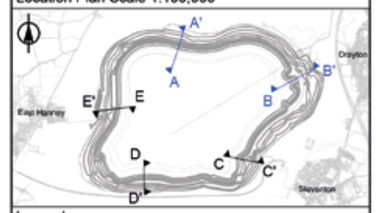
Scale 1:2,500

Section B-B' - West of Drayton

Scale 1:2,500

Do not scale - if in doubt ask

Location Plan Scale 1:100,000



Legend

- Existing ground level
- Existing ground
- Proposed ground level
- Proposed reservoir embankment structural fill
- Proposed reservoir embankment stability fill
- Proposed reservoir embankment landscape fill
- Proposed reservoir embankment drainage
- Proposed reservoir water at full capacity
- Proposed access road
- Proposed public rights of way (PRoW)/permissive path
- Proposed grassland
- Proposed species-rich native hedgerow
- Proposed species-rich native hedgerow with trees
- Proposed intermittent trees and shrubs
- Proposed woodland and copse
- Proposed floating island

Glossary

AOD - Above Ordnance Datum (i.e., sea level).
Structural fill - Embankment fill to ensure structural integrity and watertightness of reservoir embankment. Would comprise compacted, site-won clay.
Stability fill - Embankment fill placed where a stabilising weight is needed. Would comprise site-won subsoils which are unsuitable for structural fill.
Landscape fill - Embankment fill to enable planting and to vary the embankment height and profile, to help with landscape integration. Would comprise site topsoil and subsoil which are unsuitable for structural fill.
Riprap - Interlocking blocks of natural stone in varying sizes to protect inner face of reservoir embankment against erosion.
Embankment drainage: Internal embankment drains would comprise chimney, blanket and finger drains formed of imported sands and gravels. These would safely intercept and convey any embankment seepage to the outer embankment toe, prevent the migration of clay particles, drain the outer embankment shoulder (enhancing stability) and enable monitoring of seepage.
Chimney drain - Continuous vertical drain behind the embankment crest.
Blanket drain - Continuous horizontal drain at the base of the chimney drain.
Finger drain - Horizontal drains of gravel, at regular intervals below the outer embankment shoulder, conveying any seepage water to the internal perimeter drain.
Internal perimeter drain - Horizontal drain just inside the embankment toe, which would collect water from the finger drains and discharge this to the toe drain via pipes and chambers where the flow could be measured.
Toe drain - Open channel around outer embankment toe to receive water discharged from the internal drainage system. Would also receive runoff from the embankment shoulder in the event of very heavy rainfall.
Groundwater drain - Deep trench filled with gravel which would intercept groundwater flows that would be blocked by the reservoir embankment and convey these around either side of the embankment without causing the local water table to rise.

References

J696-AJ-A02X-ZZZZ-DR-EN-100020 Interim Landscape and Environmental Master Plan with Below Ground Emergency Discharge Tunnel.

Disclaimer

The proposals illustrated on the cross sections on this drawing are indicative, for illustrative purposes only and subject to consultation, stakeholder engagement and further design development.

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Current Revision Information

Interim cross section content based upon the Interim Landscape and Environmental Master Plan with Below Ground Emergency Discharge Tunnel.

Revision	Status	Suitability Description	Authored	Checked	Reviewed	Date
C01	A1	Authorised and accepted for consultation.	DR	LD	DS	14/05/24

Notes

1. Embankment stability analysis in progress and adjustments to slopes and fill will be made as required as the design progresses.
2. All dimensions on the drawing are indicative.

1:2500 @A3 — 0, 50m, 125m

Thames Water · Affinity Water · Water for Life – Southern Water

APEP References: N/A	Security Reference: Public

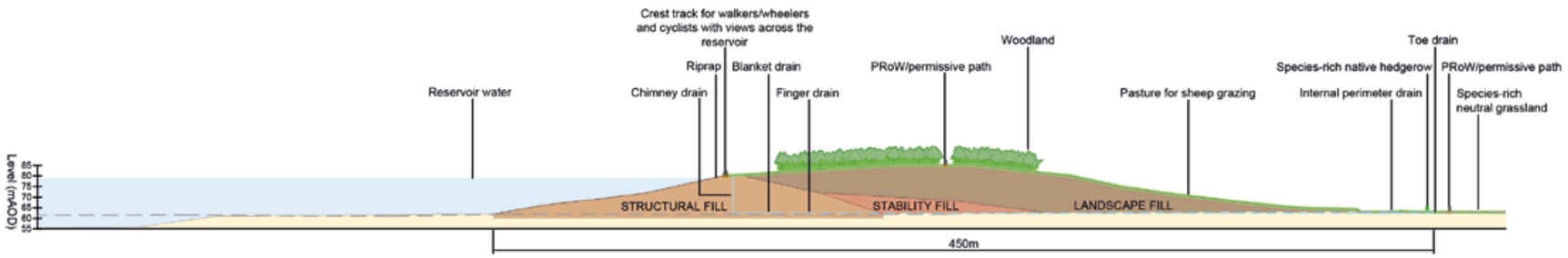
Site Name: Abingdon

Project Name: J696 South East Strategic Reservoir Option (SESRO)

Drawing Title: INTERIM LANDSCAPE AND ENVIRONMENTAL MASTER PLAN INDICATIVE EMBANKMENT CROSS SECTIONS - SHEET 1 OF 3

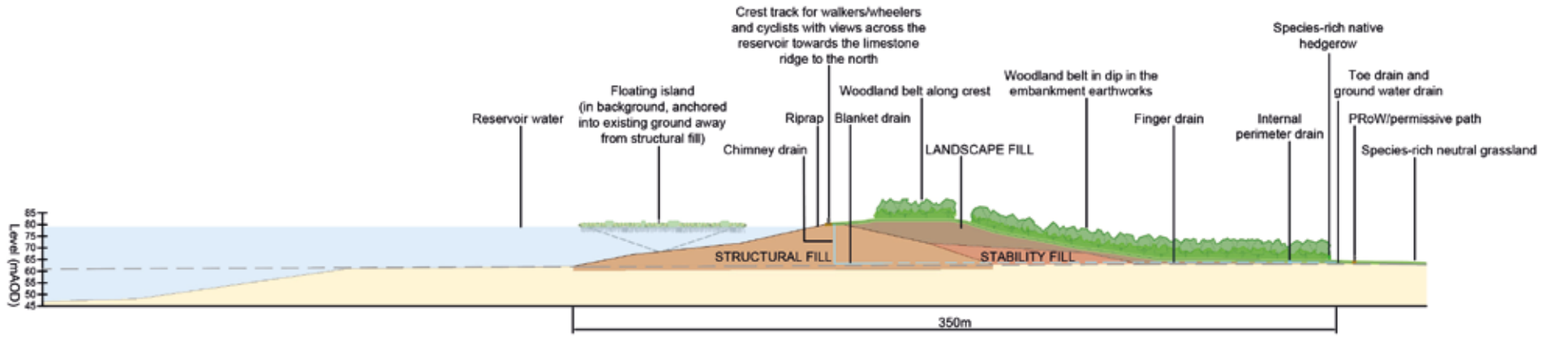
Scale	Sheet Size	Status
1:2,500	A3	A1

Drawing Number: J696-AJ-A02X-ZZZZ-DR-EN-100034 — Revision: C01



Section C-C' - West of Steventon

Scale 1:2,500

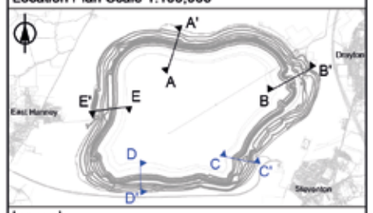


Section D-D' - North of Great Western Main Line Railway

Scale 1:2,500

Do not scale - if in doubt ask

Location Plan Scale 1:100,000



Legend

- Existing ground level
- Existing ground
- Proposed ground level
- Proposed reservoir embankment structural fill
- Proposed reservoir embankment stability fill
- Proposed reservoir embankment landscape fill
- Proposed reservoir embankment drainage
- Proposed reservoir water at full capacity
- Proposed access road
- Proposed public rights of way (PRoW)/permissive path
- Proposed grassland
- Proposed species-rich native hedgerow
- Proposed species-rich native hedgerow with trees
- Proposed intermittent trees and shrubs
- Proposed woodland and copse
- Proposed floating island

Glossary

AOD - Above Ordnance Datum (i.e., sea level).
Structural fill - Embankment fill to ensure structural integrity and watertightness of reservoir embankment. Would comprise compacted, site-won clay.
Stability fill - Embankment fill placed where a stabilising weight is needed. Would comprise site-won subsoils which are unsuitable for structural fill.
Landscape fill - Embankment fill to enable planting and to vary the embankment height and profile, to help with landscape integration. Would comprise site topsoil and subsoil which are unsuitable for structural fill.
Riprap - Interlocking blocks of natural stone in varying sizes to protect inner face of reservoir embankment against erosion.
Embankment drainage: Internal embankment drains would comprise chimney, blanket and finger drains formed of imported sands and gravels. These would safely intercept and convey any embankment seepage to the outer embankment toe, prevent the migration of clay particles, drain the outer embankment shoulder (enhancing stability) and enable monitoring of seepage.
Chimney drain - Continuous vertical drain behind the embankment crest.
Blanket drain - Continuous horizontal drain at the base of the chimney drain.
Finger drain - Horizontal drains of gravel, at regular intervals below the outer embankment shoulder, conveying any seepage water to the internal perimeter drain.
Internal perimeter drain - Horizontal drain just inside the embankment toe, which would collect water from the finger drains and discharge this to the toe drain via pipes and chambers where the flow could be measured.
Toe drain - Open channel around outer embankment toe to receive water discharged from the internal drainage system. Would also receive runoff from the embankment shoulder in the event of very heavy rainfall.
Groundwater drain - Deep trench filled with gravel which would intercept groundwater flows that would be blocked by the reservoir embankment and convey these around either side of the embankment without causing the local water table to rise.

References

J696-AJ-A02X-ZZZZ-DR-EN-100020 Interim Landscape and Environmental Master Plan with Below Ground Emergency Discharge Tunnel.

Disclaimer

The proposals illustrated on the cross sections on this drawing are indicative, for illustrative purposes only and subject to consultation, stakeholder engagement and further design development.

Copyrights

Current Revision Information

Interim cross section content based upon the Interim Landscape and Environmental Master Plan with Below Ground Emergency Discharge Tunnel.

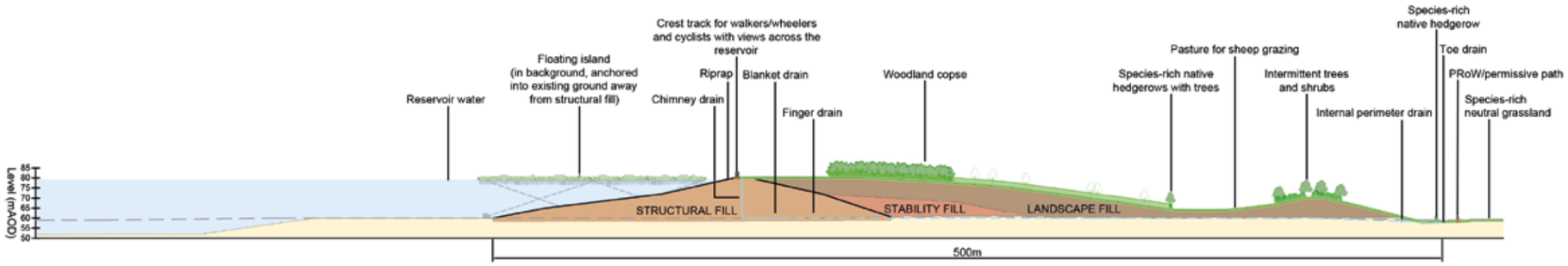
Revision	Status	Suitability Description	Authored	Checked	Reviewed	Date
C01	A1	Authorised and accepted for consultation.	DR	LD	DS	14/05/24

Notes

1. Embankment stability analysis in progress and adjustments to slopes and fill will be made as required as the design progresses.
2. All dimensions on the drawing are indicative.

1:2500 @A3 — 0 — 50m — 125m

AFFP References: N/A
Security Reference: Public
Site Name: Abingdon
Project Name: J696 South East Strategic Reservoir Option (SESRO)
Drawing Title: INTERIM LANDSCAPE AND ENVIRONMENTAL MASTER PLAN INDICATIVE EMBANKMENT CROSS SECTIONS - SHEET 2 OF 3
Scale: 1:2,500
Sheet Size: A3
Status: A1
Drawing Number: J696-AJ-A02X-ZZZZ-DR-EN-100035
Revision: C01

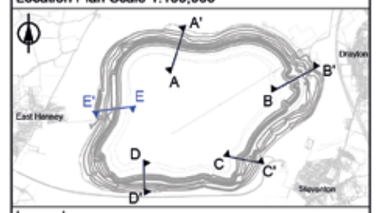


Section E-E' - East of East Hanney

Scale 1:2,500

Do not scale - if in doubt ask

Location Plan Scale 1:100,000



Legend

- Existing ground level
- Existing ground
- Proposed ground level
- Proposed reservoir embankment structural fill
- Proposed reservoir embankment stability fill
- Proposed reservoir embankment landscape fill
- Proposed reservoir embankment drainage
- Proposed reservoir water at full capacity
- Proposed access road
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Groundwater drain - Deep trench filled with gravel which would intercept groundwater flows that would be blocked by the reservoir embankment and convey these around either side of the embankment without causing the local water table to rise.

References

J696-AJ-A02X-ZZZZ-DR-EN-100020 Interim Landscape and Environmental Master Plan with Below Ground Emergency Discharge Tunnel.

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Interim cross section content based upon the Interim Landscape and Environmental Master Plan with Below Ground Emergency Discharge Tunnel.

Revision	Status	Suitability Description	Authored	Checked	Reviewed	Date
C01	A1	Authorised and accepted for consultation.	DR	LD	DS	14/05/24

Notes

1. Embankment stability analysis in progress and adjustments to slopes and fill will be made as required as the design progresses.
2. All dimensions on the drawing are indicative.

1:2500 @A3 — 0 — 50m — 125m

AFFP References: N/A
Security Reference: Public
Site Name: Abingdon
Project Name: J696 South East Strategic Reservoir Option (SESRO)
Drawing Title: INTERIM LANDSCAPE AND ENVIRONMENTAL MASTER PLAN INDICATIVE EMBANKMENT CROSS SECTIONS - SHEET 3 OF 3
Scale: 1:2,500
Sheet Size: A3
Status: A1
Drawing Number: J696-AJ-A02X-ZZZZ-DR-EN-100036
Revision: C01

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The base mapping shown on the Maps for Part A is reflective of September 2023 using the OpenStreetMap Basemap. This vector tile layer provides a detailed basemap for the world symbolised with a classic Esri map style. The copyright statement for these can be found in the lower left hand corner of each map.

The base mapping for Part B drawings are from the Ordnance Survey Map with the sanction of the Controller of H.M. Stationary Office License Number – 100019345.

Notice

This document has been produced to support the public consultation on key infrastructure options, draft Design Principles and an Interim Master Plan for the South East Strategic Reservoir Option and to inform scoping of the environmental impact assessment. The information presented represents the current stage of the project design. It comprises material or data which is still in the course of completion, pending consultation, engagement and further design and technical development.

Working with

Affinity Water

from Southern Water

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