












Project Summary Report

Supporting Figures – Infrastructure Sites and Flow Control Valve
Proposed Landscape Plans – Figures 76-85

January 2025

LEGEND:

-  Ecological Planting Mix - WN2
-  Wildflower Mix
-  Proposed Grasscrete
-  Hedgerow Type 2
-  Mosaic Planting Mix
-  Amenity grassland
-  Proposed paladin security fence
-  Proposed post and wire fence
-  Planning application boundary
-  20m corridor (Wayleaves)
-  Lands within pipeline corridor

NOTES:

The function of the proposed mitigation planting is primarily for screening, but it will also enhance the ecological corridors that are already present within the hedgerows.

Mitigation screen planting shall consist of a mixture of native species that are prevalent in the immediate area. Planting to consist of feathered whips (of various sizes) and advanced nursery stock (standard trees).

Proposed woodland planting to consist of feathered whips (of various sizes) and advanced nursery stock 1.5m centres (0.66 plants/sqm).

The location and density of tree planting to be determined by the landscape architect prior to the ordering of advanced nursery stock.

All whips within the low canopy and understory and fringe to be a minimum height of 90-120cm and the other shrub species within the understory and edge to be a minimum height of 40-60cm.

Riparian planting to occur along the banks of the Parteen reservoir and to consist of a mixture of whips and advanced nursery stock (standard trees). Riparian planting to consist of native Willow varieties.

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Proposed hedgerow planting to be maintained at a height of approximately 4m unless otherwise specified.

Species mix to be finalised in conjunction with the project ecologist.

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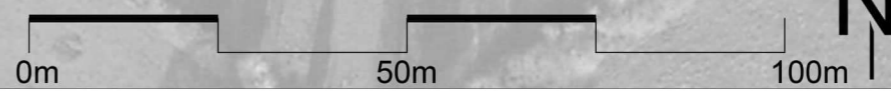
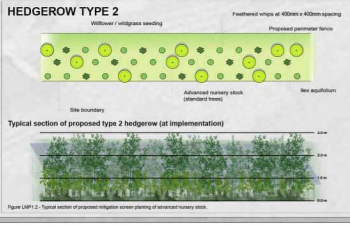
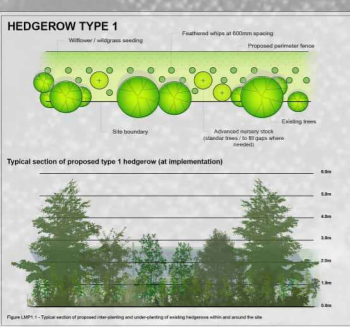
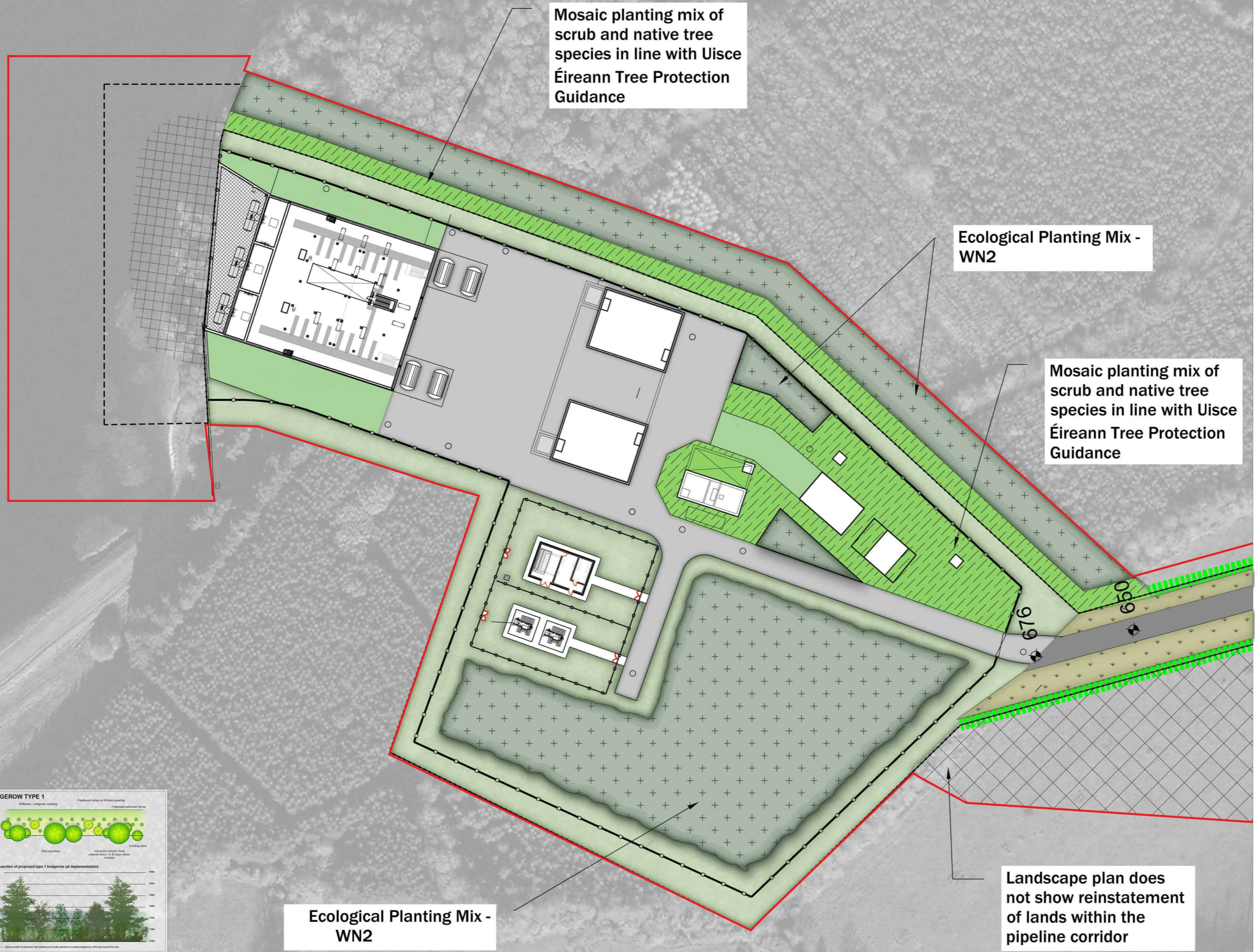


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
Project Title
 Water Supply Project - Eastern and Midlands Region

Drawing Title
 Raw Water Intake and Pumping Station Proposed Landscape Plan - Figure 76

Drawing Status For Consultation
 Jacobs Tobin No. 32105801 Client No. 9318
 Drawing No. 32105801/700/21100



LEGEND:

-  Woodland Planting
-  Wildflower Mix
-  Hedgerow Type 1 - Existing Hedgerow Bolstered
-  Hedgerow Type 2 - New Sections of hedgerow
-  Mosaic Planting Mix
-  Native Tree Planting
-  Amenity grassland
-  Proposed paladin security fence
-  Proposed post and wire fence
-  Proposed Project Boundary
-  Lands within pipeline corridor

NOTES:

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Proposed hedgerow planting to be maintained at a height of approximately 4m unless otherwise specified.

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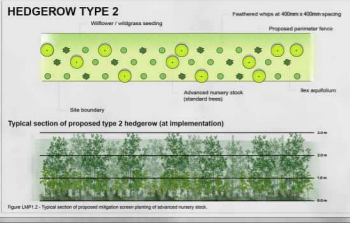
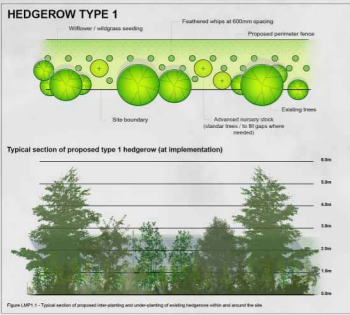
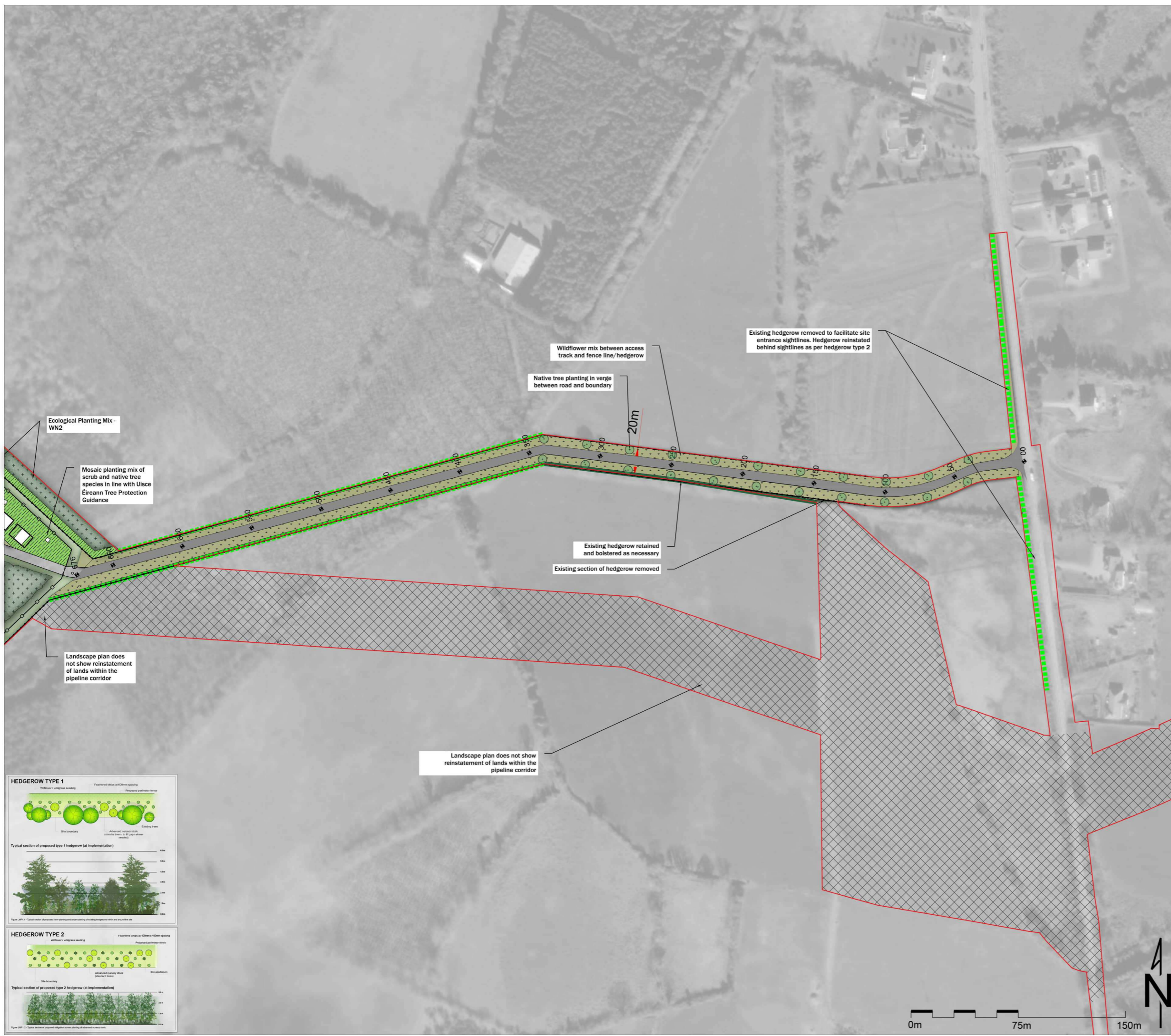


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Project Title
 Water Supply Project - Eastern and Midlands Region

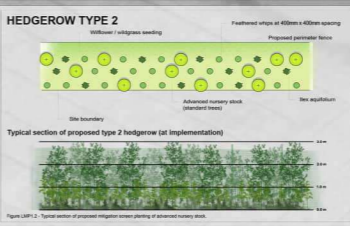
Drawing Title
 Raw Water Intake and Pumping Station
 Access Proposed Landscape Plan -
 Figure 77

Drawing Status For Consultation
 Jacobs Tobin No. 32105801 Client No. 9318
 Drawing No.
 32105801/700/21101



SCREEN PLANTING MIX SPECIES:

Botanical name	Common name	Size	%
<i>High Canopy (Dominants):</i>			
Quercus Robur	Pendunculate Oak	Standard Tree, 250-300cm, bare root	<20%
Pinus sylvestris	Scots Pine	Feathered Trees, 250-300cm, root ball	
<i>Low Canopy (Sub-dominants):</i>			
Alnus glutinosa	Alder	Feathered Trees, 250-300cm, bare root	20-25%
Betula pubescens	Downy Birch	Feathered Trees, 250-300cm, bare root	
Prunus avium	Wild Cherry	1+1tr, 90-120cm, bare root	
<i>Understorey and fringe (higher shrubs):</i>			
Prunus Padus	Crab Apple	1+1tr 90-120cm	20-40%
Corylus avellana	Hazel	1+1tr 90-120cm	
Ilex aquifolium	Holly	1+1tr 90-120cm	
Crataegus monogyna	Hawthorn	1+1tr 90-120cm	
<i>Understorey and edge (lower shrubs):</i>			
Prunus spinosa	Blackthorn	1+1tr 40-60cm	15-25%
Rosa-canina	Dog-rose	1+1tr 40-60cm	
Euonymus europaeus	Spindle	1+1tr 40-60cm	



LEGEND:

- Screen Planting Mix
- Woodland Planting
- Hedgerow Type 2 - Proposed hedgerow
- Wildflower Mix
- Amenity grassland
- Reinstated G4 Wet Grassland
- Proposed Clear Stem Native Trees
- Mosaic Planting
- Area of Solar Panels
- Proposed paladin security fence
- Proposed post and wire fence
- Proposed Project Boundary
- Lands within pipeline corridor
- Green roof (Wildflower)
- Proposed Paving

NOTES:

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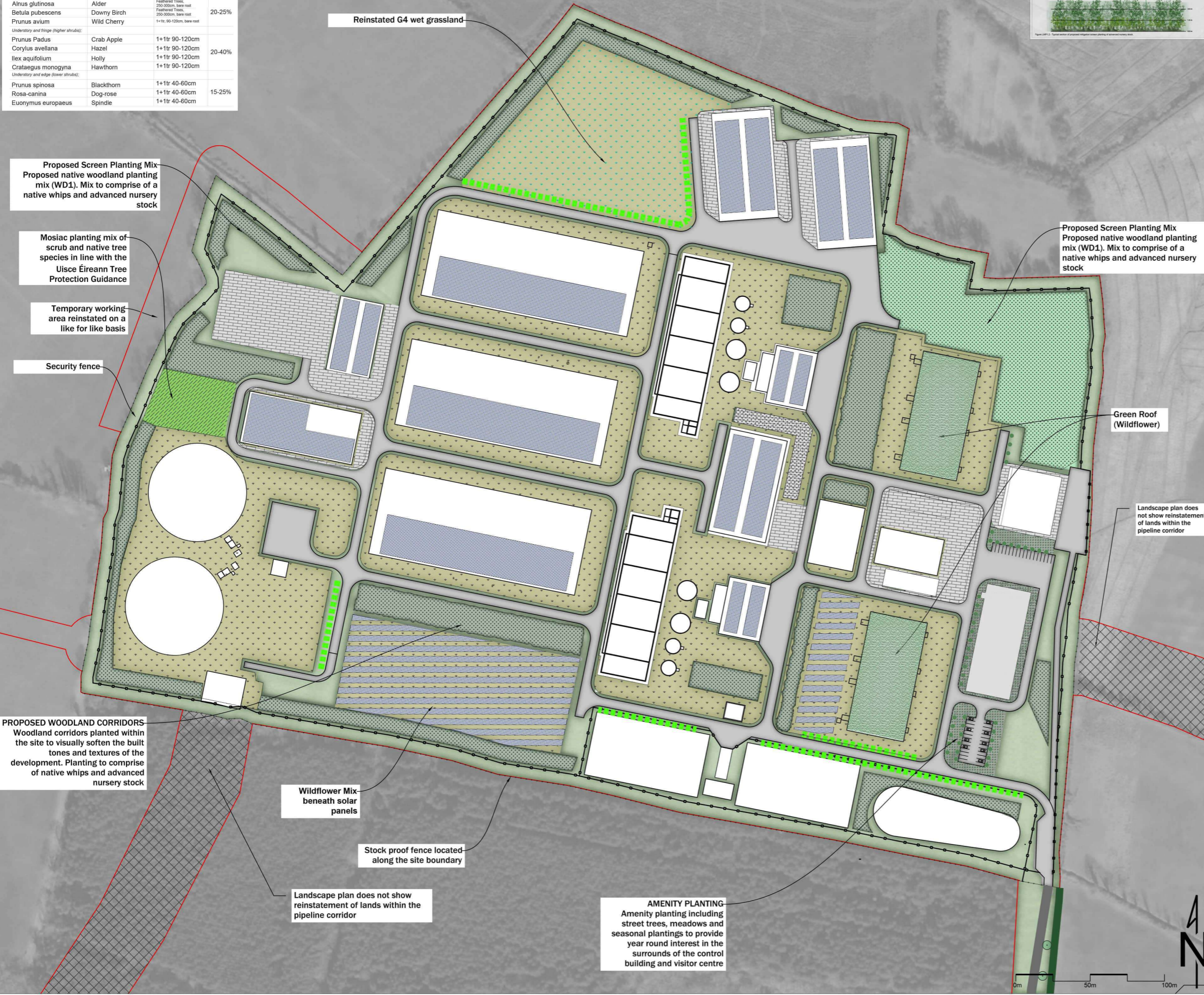
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Proposed hedgerow planting to be maintained at a height of approximately 4m unless otherwise specified.

Species mix to be finalised in conjunction with the project ecologist.



PROPOSED WOODLAND CORRIDORS
Woodland corridors planted within the site to visually soften the built tones and textures of the development. Planting to comprise of native whips and advanced nursery stock

Landscape plan does not show reinstatement of lands within the pipeline corridor

AMENITY PLANTING
Amenity planting including street trees, meadows and seasonal plantings to provide year round interest in the surrounds of the control building and visitor centre

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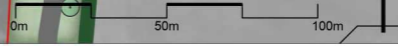
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Revision A03

Project Title
Water Supply Project - Eastern and Midlands Region

Drawing Title
Water Treatment Plant
Proposed Landscape Plan - Figure 78

Drawing Status For Consultation
 Jacobs Tobin No. 32105801 Client No. 9318
 Drawing No. 32105801/700/21102



LEGEND:

-  Hedgerow Type 1 - Existing hedgerow retained and bolstered
-  Hedgerow Type 2 - Proposed hedgerow
-  Amenity grassland
-  Proposed Project Boundary
-  Lands within pipeline corridor
-  Screen Planting Mix
-  Wildflower Mix
-  Native trees

NOTES:

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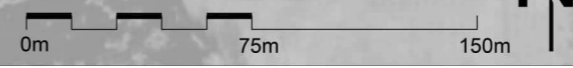
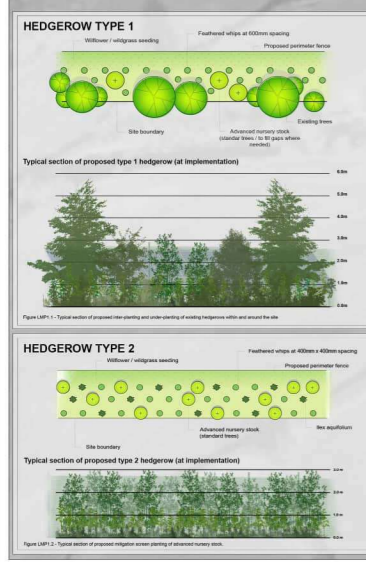
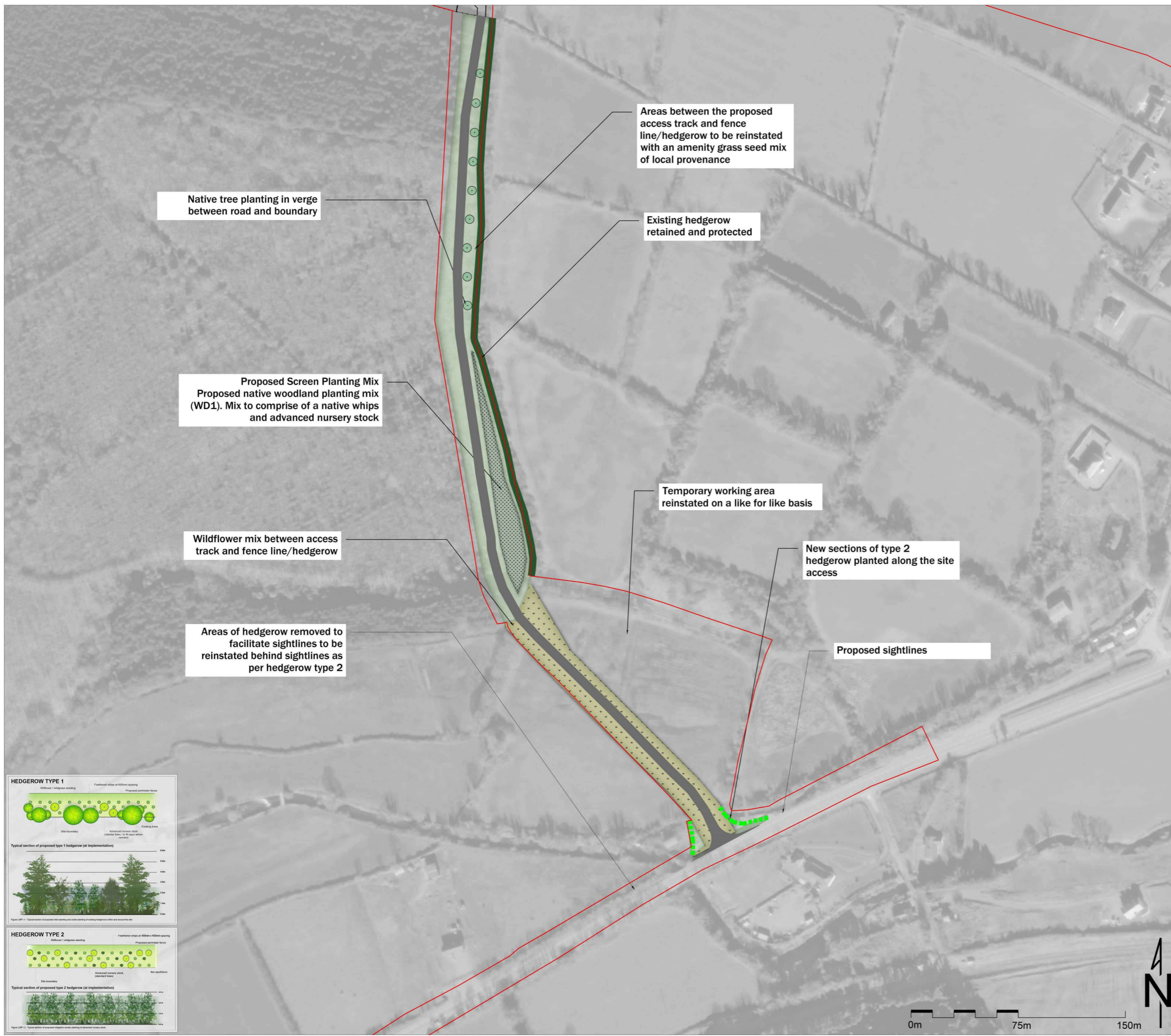
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Project Title
Water Supply Project - Eastern and Midlands Region

Drawing Title
Water Treatment Plant Access
Proposed Landscape Plan -
Figure 79

Drawing Status For Consultation
Jacobs Tobin No. 32105801 Client No. 9318
Drawing No. 32105801/700/21103



LEGEND:

	Woodland Planting		Area of Solar Panels
	Hedgerow Type 1 - Existing		Proposed paladin security fence
	Hedgerow Bolstered		Proposed post and wire fence
	Wildflower Mix		Proposed Project Boundary
	Amenity grassland		Lands within pipeline corridor
	Green roof (wildflower)		
	Mosaic Planting Mix		
	Proposed Pond		

NOTES:

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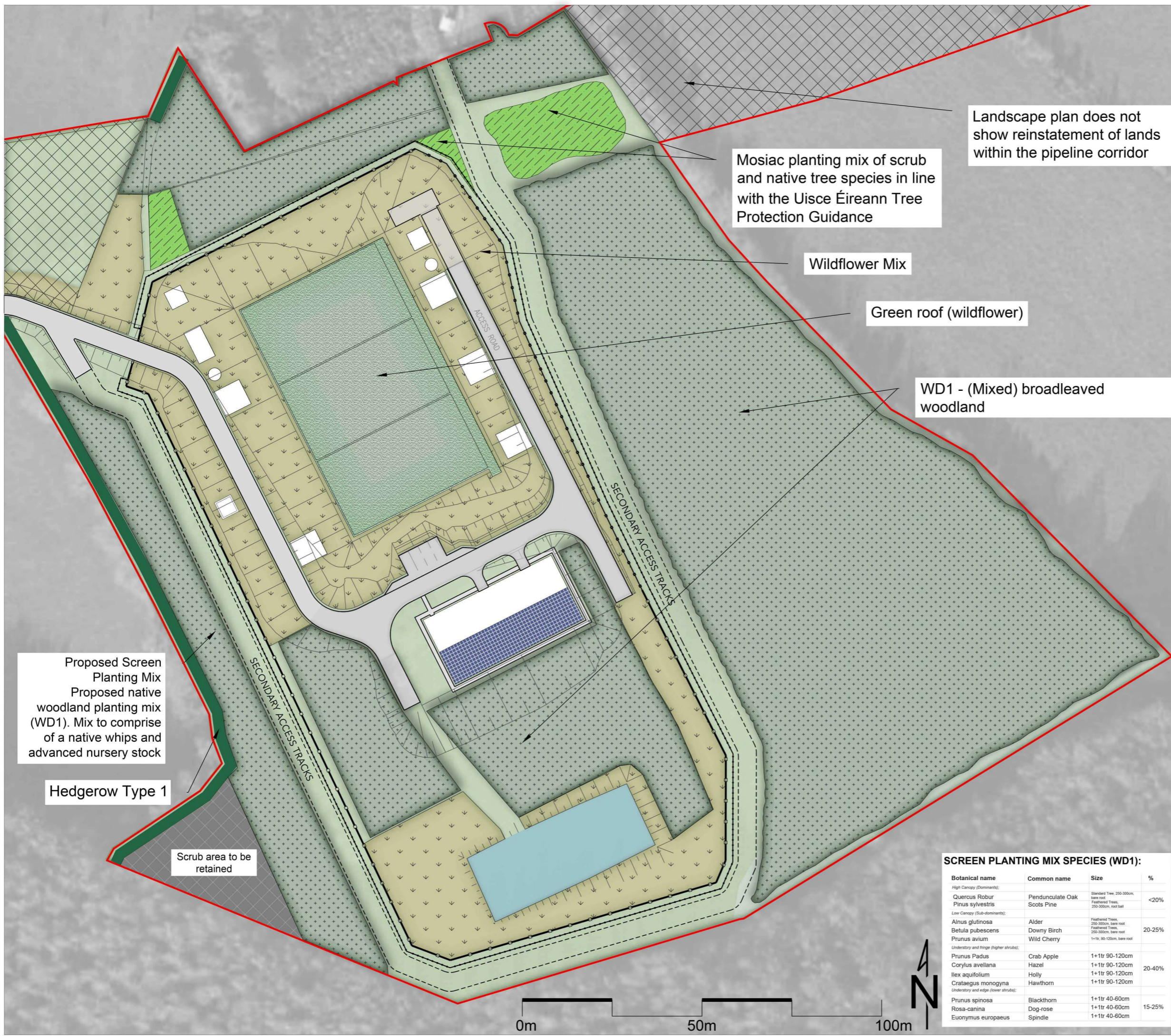
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Project Title
Water Supply Project - Eastern and Midlands Region

Drawing Title
Break Pressure Tank
Proposed Landscape Plan -
Figure 80

Drawing Status For Consultation
Jacobs Tobin No. 32105801 Client No. 9318

Drawing No.
32105801/700/21104



Landscape plan does not show reinstatement of lands within the pipeline corridor

Mosaic planting mix of scrub and native tree species in line with the Uisce Éireann Tree Protection Guidance

Wildflower Mix

Green roof (wildflower)

WD1 - (Mixed) broadleaved woodland

Proposed Screen Planting Mix
Proposed native woodland planting mix (WD1). Mix to comprise of a native whips and advanced nursery stock

Hedgerow Type 1

Scrub area to be retained

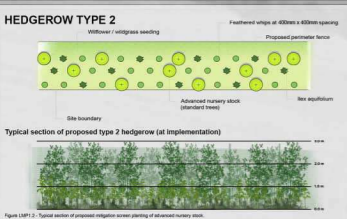
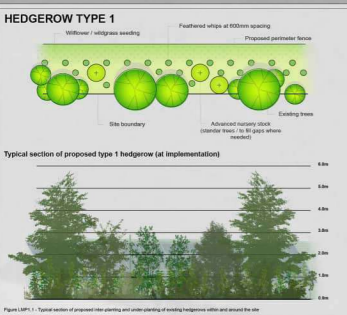
SCREEN PLANTING MIX SPECIES (WD1):

Botanical name	Common name	Size	%
<i>High Canopy (Dominants):</i>			
Quercus Robur	Pendunculate Oak	Standard Tree: 250-300cm, bare root	<20%
Pinus sylvestris	Scots Pine	Feathered Trees, 250-300cm, root ball	
<i>Low Canopy (Sub-dominants):</i>			
Ainus glutinosa	Alder	Feathered Trees, 250-300cm, bare root	20-25%
Betula pubescens	Downy Birch	Feathered Trees, 250-300cm, bare root	
Prunus avium	Wild Cherry	1+1tr, 90-120cm, bare root	
<i>Understory and fringe (higher shrubs):</i>			
Prunus Padus	Crab Apple	1+1tr 90-120cm	20-40%
Corylus avellana	Hazel	1+1tr 90-120cm	
Ilex aquifolium	Holly	1+1tr 90-120cm	
Crataegus monogyna	Hawthorn	1+1tr 90-120cm	
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Prunus spinosa	Blackthorn	1+1tr 40-60cm	15-25%
Rosa-canina	Dog-rose	1+1tr 40-60cm	
Euonymus europaeus	Spindle	1+1tr 40-60cm	



NATIVE HEDGEROW SPECIES:

Botanical name	Common name	Size	%
<i>Primary structure:</i>			
<i>Alnus glutinosa</i>	Alder	1+2tr 80-100cm / 10-12cm girth 3m br standard trees	60%
<i>Secondary structure:</i>			
<i>Prunus spinosa</i>	Blackthorn	1+2tr 80-100cm	15%
<i>Ilex aquifolium</i>	Holly	1+2tr 80-100cm	15%
<i>Shrub species structure:</i>			
<i>Rubus fruticosus</i>	Bramble	1+1tr 40-60cm	2.5%
<i>Corylus avellana</i>	Hazel	1+1tr 40-60cm	2.5%
<i>Rosa canina</i>	Dog-rose	1+1tr 40-60cm	2.5%
<i>Euonymus europaeus</i>	Spindle	1+1tr 40-60cm	2.5%



Areas between the proposed access track and fence-line/hedgerow to be reinstated with a wildflower grass seed mix of local provenance

Existing hedgerow retained and bolstered as necessary

Landscape plan does not show reinstatement of lands within the pipeline corridor

LEGEND:

- Hedgerow Type 1 - Existing hedgerow retained and bolstered
- Hedgerow Type 2 - Proposed hedgerow
- Amenity grassland
- Proposed Project Boundary
- Lands within pipeline corridor
- Wildflower Mix

NOTES:

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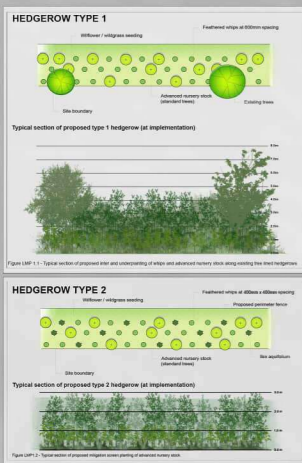
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Project Title			
Water Supply Project - Eastern and Midlands Region			
Drawing Title			
Break Pressure Tank Access Proposed Landscape Plan - Figure 81			
Drawing Status			
For Consultation			
Jacobs Tobin No. 32105801		Client No. 9318	
Drawing No.			
32105801/700/21105			



SCREEN PLANTING MIX:

Botanical name	Common name	Size	%
High Canopy (Dominants):			
Quercus Robur	Pedunculate Oak	Standard Trees, 250-300cm, bare root	20%
Pinus sylvestris	Scots Pine	Feathered Trees, 250-300cm, root ball	
Low Canopy (Sub-dominants):			
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Euonymus europaeus	Spindle	1+1tr 40-60cm	

Wildflower seeding to occupy residual space within the site

Proposed Screen Planting Mix Proposed native woodland planting mix (WD1). Mix to comprise of a native whips and advanced nursery stock

Landscape plan does not show reinstatement of lands within the pipeline corridor

Landscape plan does not show reinstatement of lands within the pipeline corridor

Screen Planting Mix

Wildflower Mix beneath solar panels

Existing hedgerow removed - hedgerows to be reinstated as per hedgerow type 2

LEGEND:

- Screen Planting Mix
- Wildflower Mix
- Hedgerow Type 2 - Proposed hedgerow
- Amenity grassland
- Proposed paladin security fence
- Proposed post and wire fence
- Proposed Project Boundary
- Lands within pipeline corridor
- Area of Solar Panels
- Proposed Pond

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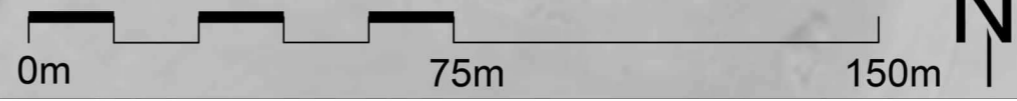
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Date	Date	Date	Date
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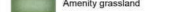




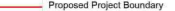
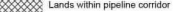
Project Title
Water Supply Project - Eastern and Midlands Region

Drawing Title
Booster Pumping Station
Proposed Landscape Plan -
Figure 82

Drawing Status For Consultation
Jacobs Tobin No. 32105801 Client No. 9318
Drawing No. 32105801-850-009



LEGEND:

-  Hedgerow Type 2 - New Hedgerow
-  Wildflower Mix
-  Mosaic Planting Mix
-  Amenity grassland
-  Proposed Pond
-  Area of Solar Panels
-  Proposed paladin security fence
-  Proposed post and wire fence
-  Proposed Project Boundary
-  Lands within pipeline corridor

NOTES:

The function of the proposed mitigation planting is primarily for screening, but it will also enhance the ecological corridors that are already present within the hedgerows.

Mitigation screen planting shall consist of a mixture of native species that are prevalent in the immediate area. Planting to consist of feathered whips (of various sizes) and advanced nursery stock (standard trees).

Proposed woodland planting to consist of feathered whips (of various sizes) and advanced nursery stock 1.5m centres (0.66 plants/sqm).

The location and density of tree planting to be determined by the landscape architect prior to the ordering of advanced nursery stock.

All whips within the low canopy and understory and fringe to be a minimum height of 90-120cm and the other shrub species within the understory and edge to be a minimum height of 40-60cm.

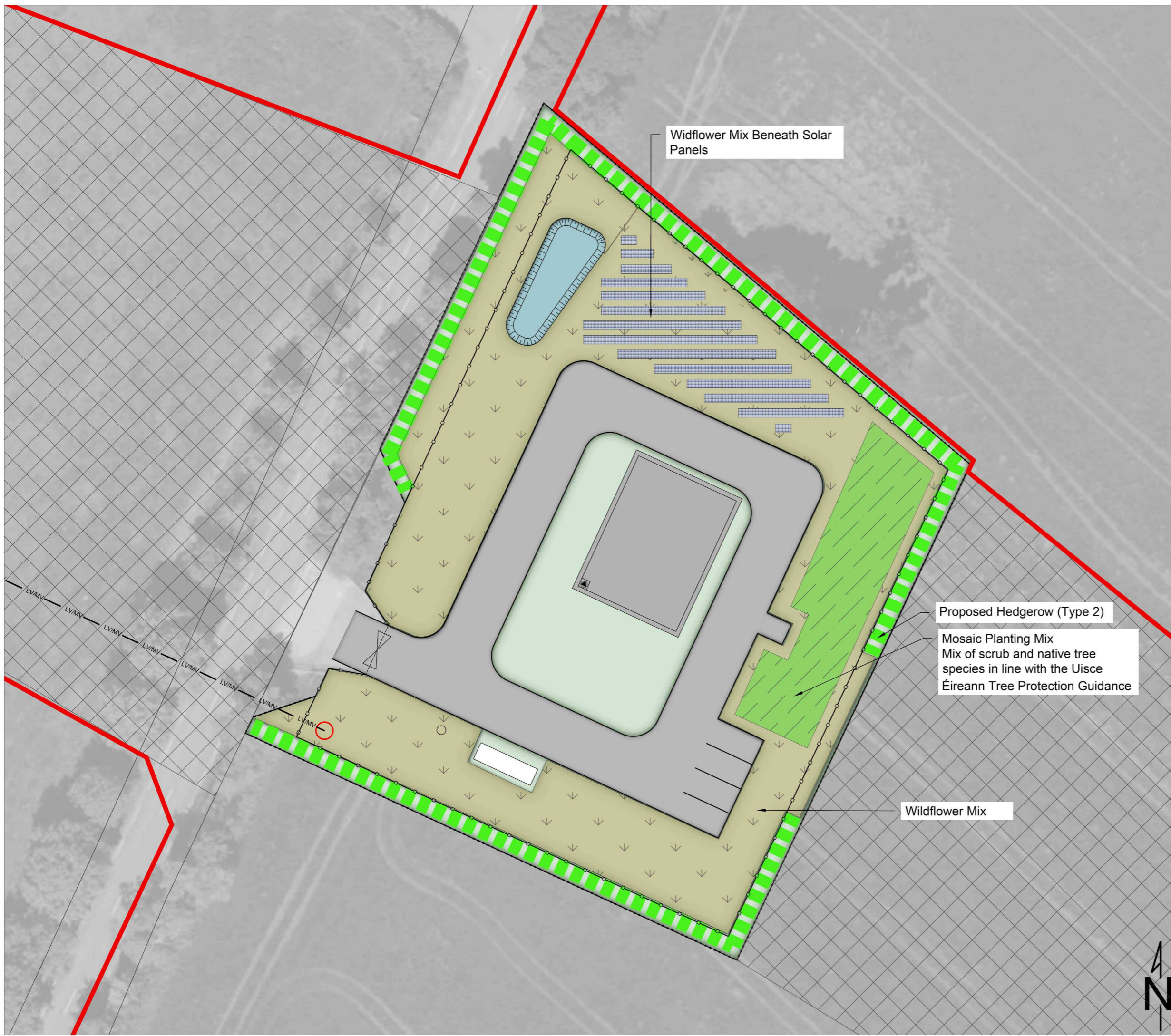
Riparian planting to occur along the banks of the Parteen reservoir and to consist of a mixture of whips and advanced nursery stock (standard trees). Riparian planting to consist of native Willow varieties.

New sections of hedgerow to consist of a triple staggered row of whips and advanced nursery stock at 600mm spacing.

All native hedgerow species will be planted as whips, with the primary and secondary structure species to be of a minimum height of 80-100cm and the other shrubs species to be of a minimum height of 40-60cm.

Proposed hedgerow planting to be maintained at a height of approximately 4m unless otherwise specified.

Species mix to be finalised in conjunction with the project ecologist.



Widflower Mix Beneath Solar Panels

Proposed Hedgerow (Type 2)

Mosaic Planting Mix
 Mix of scrub and native tree species in line with the Uisce Éireann Tree Protection Guidance

Wildflower Mix

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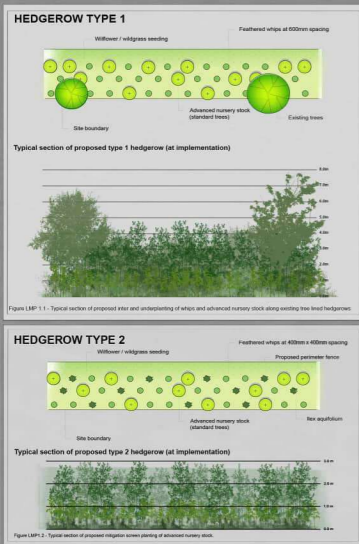
Scale: 1:200
 Revision A01

Project Title
 Water Supply Project - Eastern and Midlands Region

Drawing Title
 Flow Control Valve
 Proposed Landscape Plan -
 Figure 83

Drawing Status For Consultation
 Jacobs Tobin No. 32105801 Client No. 9318

Drawing No.
 32105801/700/21111



SCREEN PLANTING MIX SPECIES:

Botanical name	Common name	Size	%
<i>Quercus Robur</i>	Peduncululate Oak	Standard Tree, 250-300cm, bare root	~20%
<i>Pinus sylvestris</i>	Scots Pine	Standard Tree, 250-300cm, bare root	
Low Canopy (Sub-dominant):			
<i>Alnus glutinosa</i>	Alder	Feathered Whip, 250-300cm, bare root	20-25%
<i>Betula pubescens</i>	Downy Birch	Feathered Whip, 250-300cm, bare root	
<i>Prunus avium</i>	Wild Cherry	1+1tr, 90-120cm, bare root	
Understory and fringe (higher shrubs):			
<i>Prunus Padus</i>	Crab Apple	1+1tr 90-120cm	20-40%
<i>Corylus avellana</i>	Hazel	1+1tr 90-120cm	
<i>Ilex aquifolium</i>	Holly	1+1tr 90-120cm	
<i>Crataegus monogyna</i>	Hawthorn	1+1tr 90-120cm	
Understory and edge (lower shrubs):			
<i>Prunus spinosa</i>	Blackthorn	1+1tr 40-60cm	15-25%
<i>Rosa-canina</i>	Dog-rose	1+1tr 40-60cm	
<i>Euonymus europaeus</i>	Spindle	1+1tr 40-60cm	

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Original Size **A1**

LEGEND:

- Woodland Planting
- Hedgerow Type 1 - Existing
- Hedgerow Bolstered
- Hedgerow Type 2 - New Hedgerow
- Mosaic Planting Mix
- Wildflower Mix
- Amenity grassland
- Green roof (wildflower)
- Proposed Pond
- Existing trees retained
- Proposed palisade security fence
- Proposed Project Boundary
- Lands within pipeline corridor
- Area of Solar Panels

NOTES:

The function of the proposed mitigation planting is primarily for screening, but it will also enhance the ecological corridors that are already present within the hedgerows.

Mitigation screen planting shall consist of a mixture of native species that are prevalent in the immediate area. Planting to consist of feathered whips (of various sizes) and advanced nursery stock (standard trees).

Proposed woodland planting to consist of feathered whips (of various sizes) and advanced nursery stock 1.5m centres (0.66 plants/sqm).

The location and density of tree planting to be determined by the landscape architect prior to the ordering of advanced nursery stock.

All whips within the low canopy and understory and fringe to be a minimum height of 90-120cm and the other shrub species within the understory and edge to be a minimum height of 40-60cm.

Riparian planting to occur along the banks of the Parteen reservoir and to consist of a mixture of whips and advanced nursery stock (standard trees). Riparian planting to consist of native Willow varieties.

New sections of hedgerow to consist of a triple staggered row of whips and advanced nursery stock at 600mm spacing.

All native hedgerow species will be planted as whips, with the primary and secondary structure species to be of a minimum height of 80-100cm and the other shrubs species to be of a minimum height of 40-60cm.

Proposed hedgerow planting to be maintained at a height of approximately 4m unless otherwise specified.

Species mix to be finalised in conjunction with the project ecologist.



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Project Title
Water Supply Project - Eastern and Midlands Region

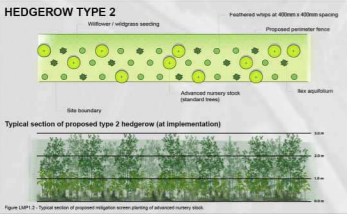
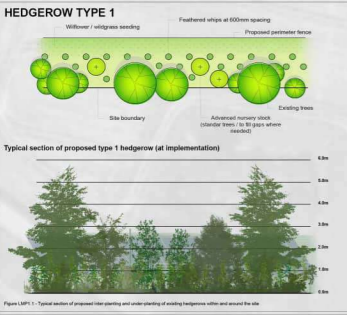
Drawing Title
Termination Point Reservoir
Proposed Landscape Plan - Figure 84

Drawing Status: For Consultation
Drawing No. 32105801
Client No. 9318

32105801/700/21106

NATIVE HEDGEROW SPECIES:

Botanical name	Common name	Size	%
<i>Primary structure:</i>			
<i>Alnus glutinosa</i>	Alder	1+2tr 80-100cm / 10-12cm girth 3m br standard trees	60%
<i>Secondary structure:</i>			
<i>Prunus spinosa</i>	Blackthorn	1+2tr 80-100cm	15%
<i>Ilex aquifolium</i>	Holly	1+2tr 80-100cm	15%
<i>Shrub species structure:</i>			
<i>Rubus fruticosus</i>	Bramble	1+1tr 40-60cm	2.5%
<i>Corylus avellana</i>	Hazel	1+1tr 40-60cm	2.5%
<i>Rosa canina</i>	Dog-rose	1+1tr 40-60cm	2.5%
<i>Euonymus europaeus</i>	Spindle	1+1tr 40-60cm	2.5%



LEGEND:

- Hedgerow Type 1 - Existing hedgerow retained and bolstered
- Hedgerow Type 2 - Proposed hedgerow
- Amenity grassland
- Proposed Project Boundary
- Lands within pipeline corridor
- Wildflower Mix

NOTES:

The function of the proposed mitigation planting is primarily for screening, but it will also enhance the ecological corridors that are already present within the hedgerows.

Mitigation screen planting shall consist of a mixture of native species that are prevalent in the immediate area. Planting to consist of feathered whips (of various sizes) and advanced nursery stock (standard trees).

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Scale: 1:1250
Revision A03

Project Title
Water Supply Project - Eastern and Midlands Region

Drawing Title
Termination Point Reservoir
Access Proposed Landscape Plan - Figure 85

Drawing Status	For Consultation
Jacobs Tobin No. 32105801	Client No. 9318
Drawing No.	32105801/700/21107

