

ENVIRONMENTAL STATEMENT (VOLUME III)

Landscape Layouts at BVS and AGIs

HyNet Carbon Dioxide Pipeline DCO

Planning Act 2008

The Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009 – Regulations 5(2)(o)

Document Reference Number D.2.14

Applicant: Liverpool Bay CCS Limited

Inspectorate Reference: EN070007

English Version

REVISION: A

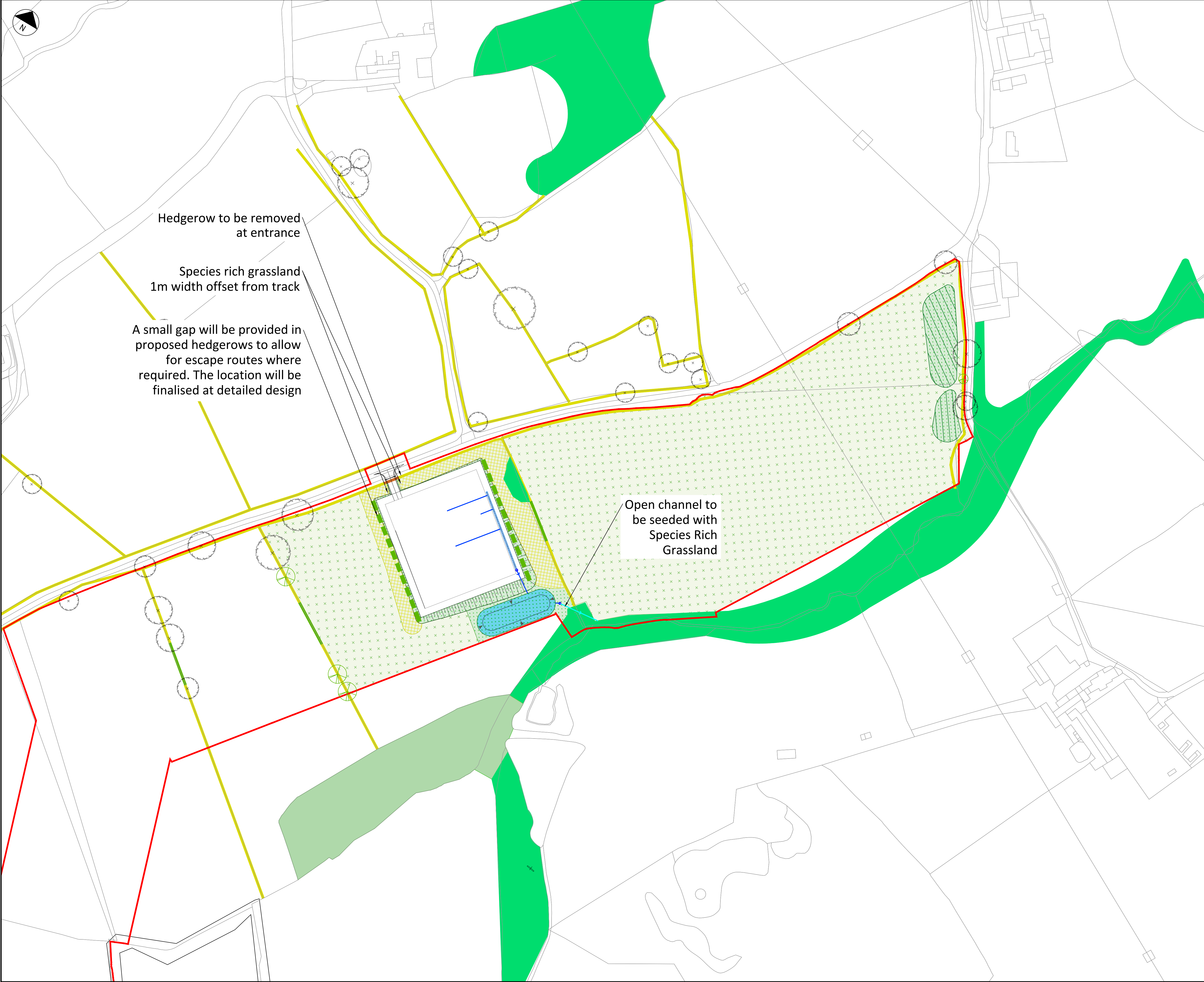
DATE: September 2022

DOCUMENT OWNER: WSP UK Limited

PUBLIC

QUALITY CONTROL

Issue/Revision	First Issue	Revision 1	Revision 2	Revision 3
Document Reference	D.2.14			
Revision	A			
Author Name and Sign	DR			
Approver Name and Sign	JP			
Document Owner	WSP			



KEY

Newbuild Infrastructure Boundary

Topo survey (existing vegetation/ fence lines)

Existing To Be Permanently Removed

Hedgerow to be removed

Existing To Be Retained

Ancient Woodland

Existing Woodland

Existing Hedgerow

Existing Tree

Proposed Vegetation

Native Double Staggered Hedgerow - for replacement of existing

Native Triple Staggered Hedgerow

Tree Screen Planting

Native Shrub Planting

Hedgerow Trees

Species Rich Grassland

Made Good / Return to prior use

Indicative Surface Water Drainage Design (Refer to EN70007-D.6.5.13.1-LAY-Sheet 7 for details)

Indicative ephemeral detention pond

Indicative open channel (above ground)

Indicative surface water pipe (underground)

Indicative gravel covered filter drain

NOTE:

- E&I Kiosk, lighting columns and fences to be painted green to RAL 6011

- Refer to EN70007-D.2.14-LAY-Sheet 10 for indicative species

- The designs are subject to a 5m limit of deviation.

SCALE: 1:2500

0

60

Metres

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HyNet North West

PROJECT TITLE

HyNet Carbon Dioxide Pipeline DCO

DRAWING TITLE

Application Document Reference D.2.14
Flint AGI Landscape Layout
Sheet 1 of 11

DRAWING STATUS

FOR DCO SUBMISSION

DRAWN

LA

CHECKED

DR

APPROVED

DR

AUTHORISED

JP

SCALE @ A1 SIZE

1:1250

DATE

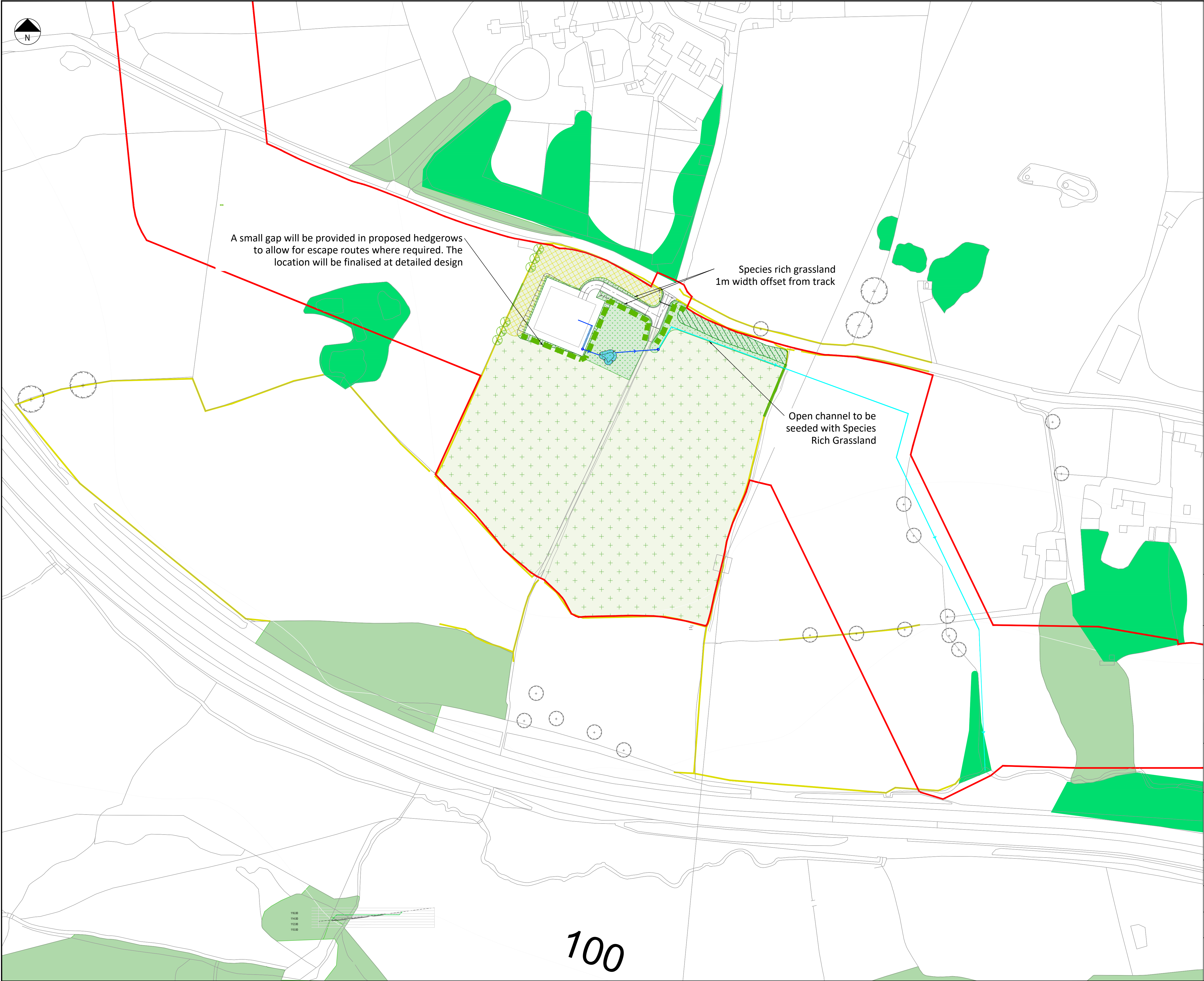
26/09/2022

REVISION

A

DRAWING NUMBER

EN070007-D.2.14-LAY-Sheet 0



KEY

Newbuild Infrastructure Boundary

Topo survey (existing vegetation/ fence lines)

Existing To Be Retained

Ancient Woodland

Existing Woodland

Existing Hedgerow

Existing Tree

Proposed Vegetation

Native Double Staggered Hedgerow
- for replacement of existing

Native Triple Staggered Hedgerow

Native Tree Screen Planting

Native Shrub Planting

Hedgerow Trees

Species Rich Grassland

Made Good/ Return to prior use

Indicative Surface Water Drainage Design
(Refer to EN70007-D.6.5.13.1-LAY-Sheet 6 for details)

Indicative ephemeral detention pond

Indicative open channel
(above ground)

Indicative surface water pipe
(underground)

Indicative gravel covered filter drain

NOTE:

- E&I Kiosk, lighting columns and fences to be painted green to RAL 6011.

- Refer to EN70007_D.2.14-LAY_Sheet 10 for indicative species

- The designs are subject to a 5M limit of deviation.

SCALE: 1:1250

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60

Metres

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HyNet North West

PROJECT TITLE

HyNet Carbon Dioxide Pipeline DCO

DRAWING TITLE

Application Document Reference D.2.14 Northop Hall AGI Landscape Layout Sheet 2 of 11

DRAWING STATUS

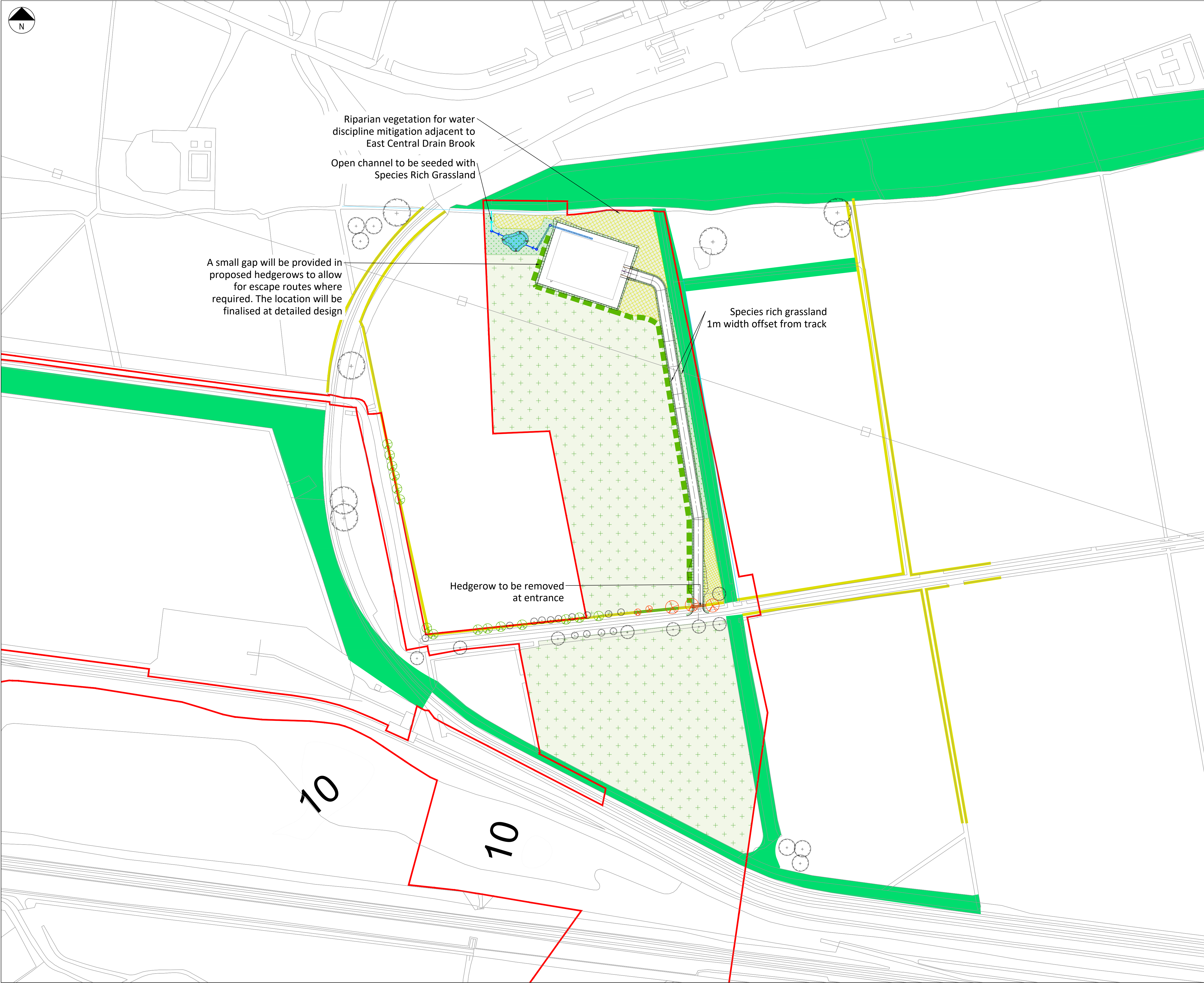
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LA	DR	DR	JP

SCALE @ A1 SIZE	DATE	REVISION
1:1250	26/09/2022	A

DRAWING NUMBER

70070865-T.2.14-LAY-Sheet 1



KEY

Newbuild Infrastructure Boundary

Topo survey (existing vegetation/ fence lines)

Existing To Be Permanently Removed

Tree to be removed

Hedgerow to be removed

Existing To Be Retained

Existing Woodland

Existing Hedgerow

Existing Tree

Proposed

Native Double Staggered Hedgerow - for replacement of existing

Native Triple Staggered Hedgerow

Native Shrub Planting

Hedgerow Trees

Species Rich Grassland

Made Good / Return to prior use

Indicative Surface Water Drainage Design
(Refer to EN70007-D.6.5.13.1-LAY-Sheet 1 for details)

Indicative ephemeral detention pond

Indicative open channel (above ground)

Indicative surface water pipe (underground)

Indicative gravel covered filter drain

NOTE:

- E&I Kiosk, lighting columns and fences to be painted green to RAL 6011
- Refer to EN70007_D.2.14-LAY_Sheet 10 for indicative species
- The designs are subject to a 5m limit of deviation.

SCALE: 1:1250

0 60 Metres

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HyNet North West

PROJECT TITLE

HyNet Carbon Dioxide Pipeline DCO

DRAWING TITLE

Application Document Reference D.2.14
Ince AGI Landscape Layout
Sheet 3 of 11

DRAWING STATUS

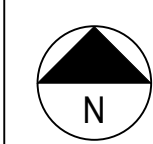
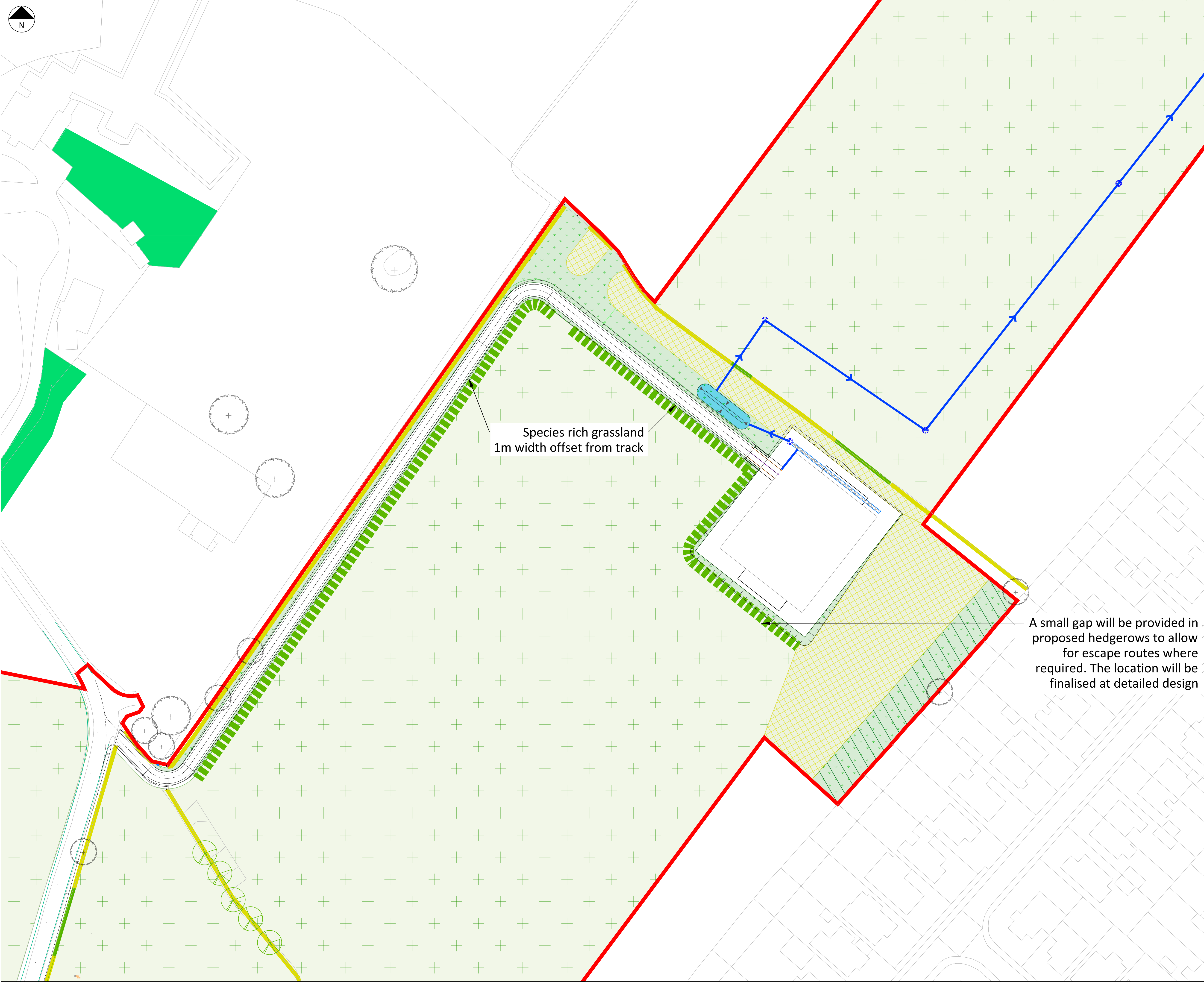
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EN070007-D.2.14-LAY-Sheet 2



KEY

Newbuild Infrastructure Boundary

Topo survey (existing vegetation/ fence lines)

Existing To Be Retained

Existing woodland

Existing Hedgerow

Existing Tree

Proposed Vegetation

Native Double Staggered Hedgerow
- for replacement of existing

Native Triple Staggered Hedgerow

Native Tree Screen Planting

Native Shrub Planting

Hedgerow Tree

Species Rich Grassland

Made Good / Return to prior use

Indicative Surface Water Drainage Design
(Refer to EN70007-D.6.5.13.1-LAY-Sheet 5 for details)

Indicative ephemeral detention pond

Indicative surface water pipe (underground)

Indicative gravel covered filter drain

NOTE:

- E&I Kiosk, lighting columns and fences to be painted green to RAL 6011
- Refer to EN70007_D.2.14-LAY_Sheet 10 for indicative species
- The designs are subject to 5m limit of deviation

SCALE: 1:500

0 25 Metres

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HyNet North West

PROJECT TITLE

HyNet Carbon Dioxide Pipeline DCO

DRAWING TITLE

Application Document Reference D.2.14
Aston Hill BVS Landscape Layout
Sheet 4 of 11

DRAWING STATUS

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DRAWING NUMBER

EN070007-D.2.14-LAY-Sheet 3



KEY

Newbuild Infrastructure Boundary

Topo survey (existing vegetation/ fence lines)

Existing To Be Permanently Removed

Tree to be removed

Hedgerow to be removed

Existing To Be Retained

Existing woodland

Existing Hedgerow

Existing Tree

Proposed Vegetation

Native Double Staggered Hedgerow
- for replacement of existing

Native Triple Staggered Hedgerow

Native Shrub Planting

Hedgerow Tree

Species Rich Grassland

Made Good / Return to prior use

Indicative Surface Water Drainage Design
(Refer to EN70007-D.6.5.13.1-LAY-Sheet 4 for details)

Indicative ephemeral detention pond

Indicative open channel
(above ground)

Indicative surface water pipe
(underground)

Indicative gravel covered filter drain

NOTE:

- E&I Kiosk, lighting columns and fences to be painted green to RAL 6011
- Refer to EN70007-D.2.14-LAY-Sheet 10 for indicative species
- The designs are subject to 5m limit of deviation

SCALE: 1:500

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25

Metres

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HyNet North West

PROJECT TITLE

HyNet Carbon Dioxide Pipeline DCO

DRAWING TITLE

Application Document Reference D.2.14
Mollington BVS Landscape Layout
Sheet 5 of 11

DRAWING STATUS

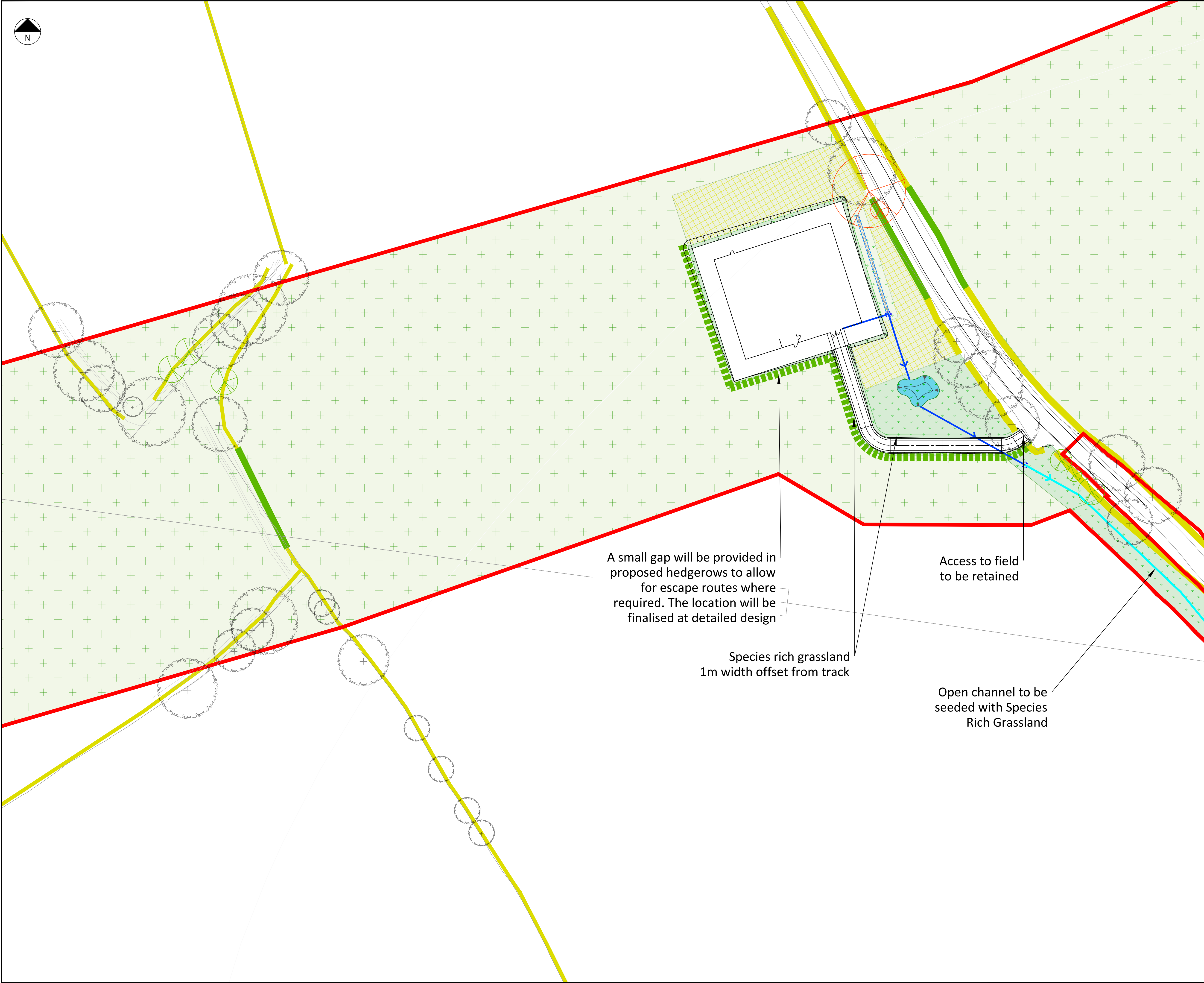
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EN070007-D.2.14-LAY-Sheet 4



KEY

Newbuild Infrastructure Boundary

Topo survey (existing vegetation/ fence lines)

Existing To Be Permanently Removed

Tree to be removed

Existing To Be Retained

Existing Hedgerow

Existing Tree

Proposed Vegetation

Native Double Staggered Hedgerow - for replacement of existing

Native Triple Staggered Hedgerow

Native Shrub Planting

Hedgerow Trees

Species Rich Grassland

Made Good / Return to prior use

Indicative Surface Water Drainage Design
(Refer to EN70007-D.6.5.13.1-LAY-Sheet 3 for details)

Indicative ephemeral detention pond

Indicative open channel (above ground)

Indicative surface water pipe (underground)

Indicative gravel covered filter drain

NOTE:

- E&I Kiosk, lighting columns and fences to be painted green to RAL 6011
- Refer to EN70007-D.2.14-LAY-Sheet 10 for indicative species
- The designs are subject to 5m limit of deviation

SCALE: 1:500

0 25 Metres

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HyNet North West

PROJECT TITLE

HyNet Carbon Dioxide Pipeline DCO

DRAWING TITLE

Application Document Reference D.2.14
Rock Bank BVS Landscape Layout
Sheet 6 of 11

DRAWING STATUS

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DRAWING NUMBER

70070865-T.2.7-LAY-Sheet 5



KEY

Newbuild Infrastructure Boundary

Topo survey (existing vegetation/ fence lines)

Existing To Be Permanently Removed

Tree to be removed

Hedgerow to be removed

Existing To Be Retained

Existing Hedgerow

Existing Tree

Proposed Vegetation

Native Triple Staggered Hedgerow

Native Tree Screen Planting

Native Shrub Planting

Individual Trees

Species Rich Grassland

Made Good / Return to prior use

Indicative Surface Water Drainage Design
(Refer to EN70007-D.6.5.13.1-LAY-Sheet 10 for details)

Indicative ephemeral detention pond

Indicative surface water pipe (underground)

Indicative land drain (underground)

Indicative gravel covered filter drain

NOTE:

- E&I Kiosk, lighting columns and fences to be painted green to RAL 6011
- Refer to EN70007_D.2.14-LAY_Sheet 10 for indicative species
- The designs are subject to 5m limit of deviation

SCALE: 1:500

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25

Metres

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HyNet North West

PROJECT TITLE

HyNet Carbon Dioxide Pipeline DCO

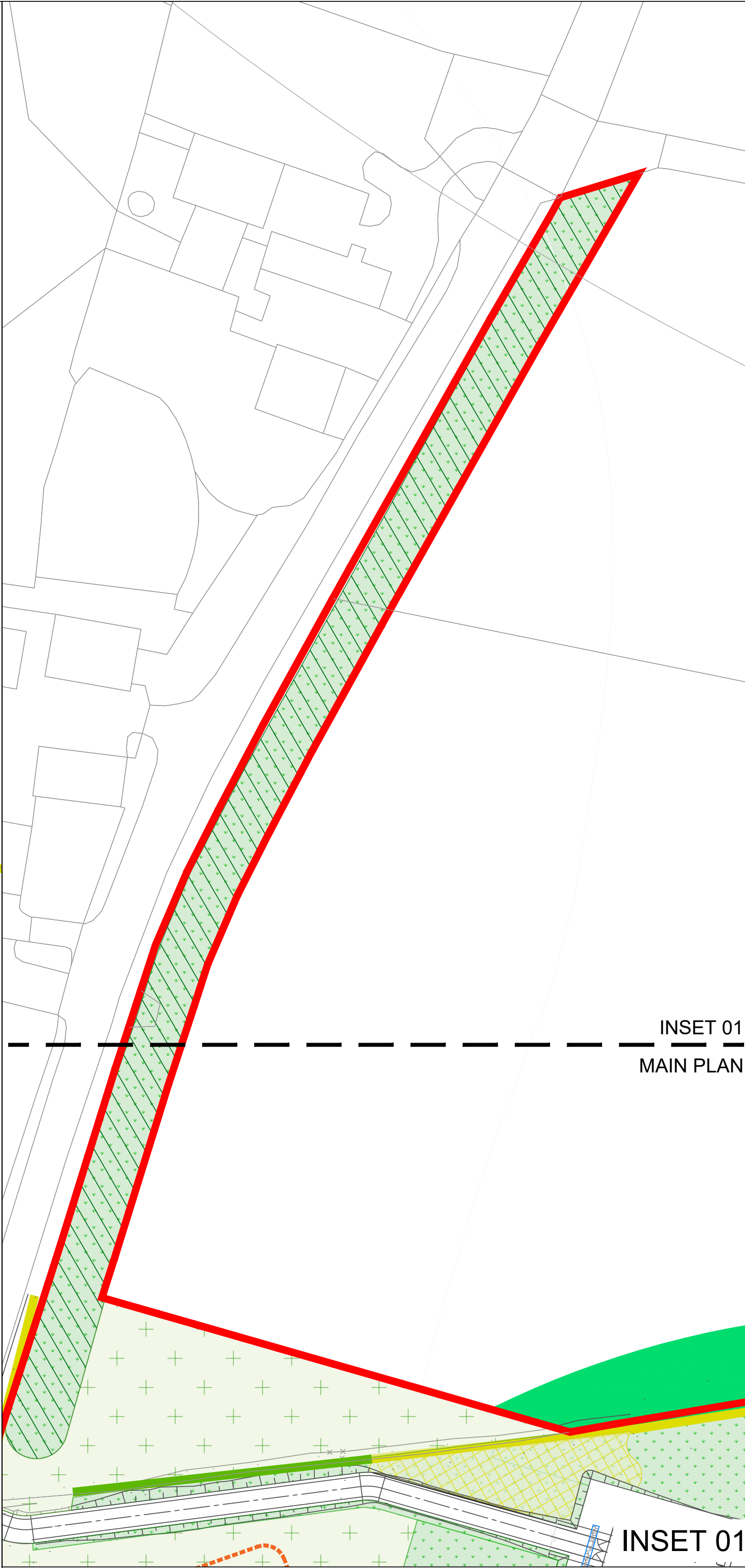
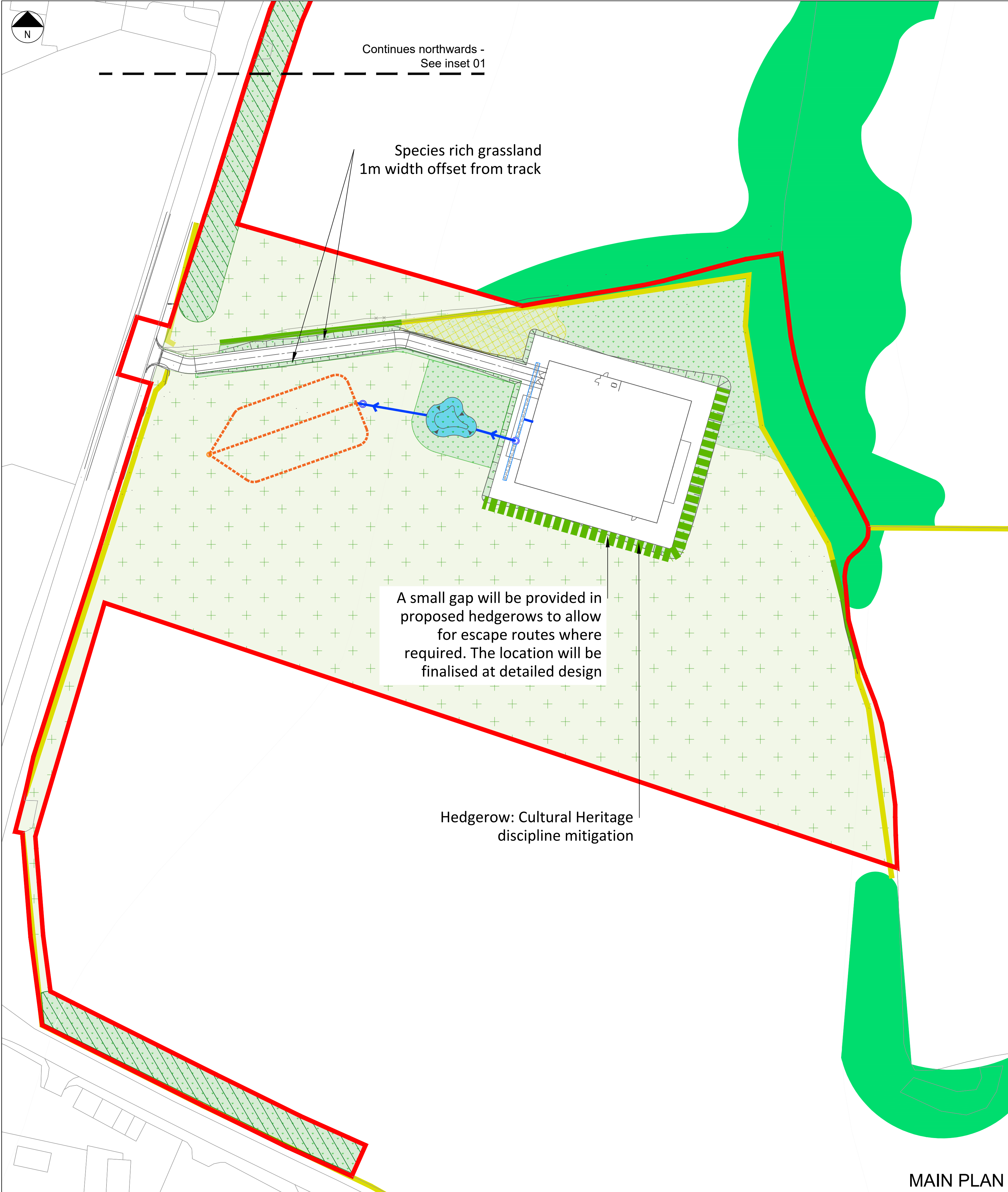
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Application Document Reference D.2.14
Barbell BVS Landscape Layout
Sheet 7 of 11

DRAWING STATUS

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EN070007-D.2.14-LAY-Sheet 6			



KEY

Newbuild Infrastructure boundary

Topo survey (existing vegetation/ fence lines)

Existing To Be Retained

Existing Woodland

Existing Hedgerow

Proposed Vegetation

Native Double Staggered Hedgerow - for replacement of existing

Native Triple Staggered Hedgerow

Native Tree Screen Planting

Native Shrub Planting

Species Rich Grassland

Made Good / Return to prior use

Indicative Surface Water Drainage Design
(Refer to EN70007-D.6.5.13.1-LAY-Sheet 9 for details)

Indicative ephemeral detention pond

Indicative surface water pipe (underground)

Indicative land pipe (underground)

Indicative gravel covered filter drain

NOTE:

- E&I Kiosk, lighting columns and fences to be painted green to RAL 6011
- Refer to EN70007-D.2.14-LAY-Sheet 10 for indicative species
- The designs are subject to 5m limit of deviation

SCALE: 1:500

Metres

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HyNet North West

PROJECT TITLE

HyNet Carbon Dioxide Pipeline DCO

DRAWING TITLE

Application Document Reference D.2.14
Pentre Halkyn BVS Landscape Layout
Sheet 8 of 11

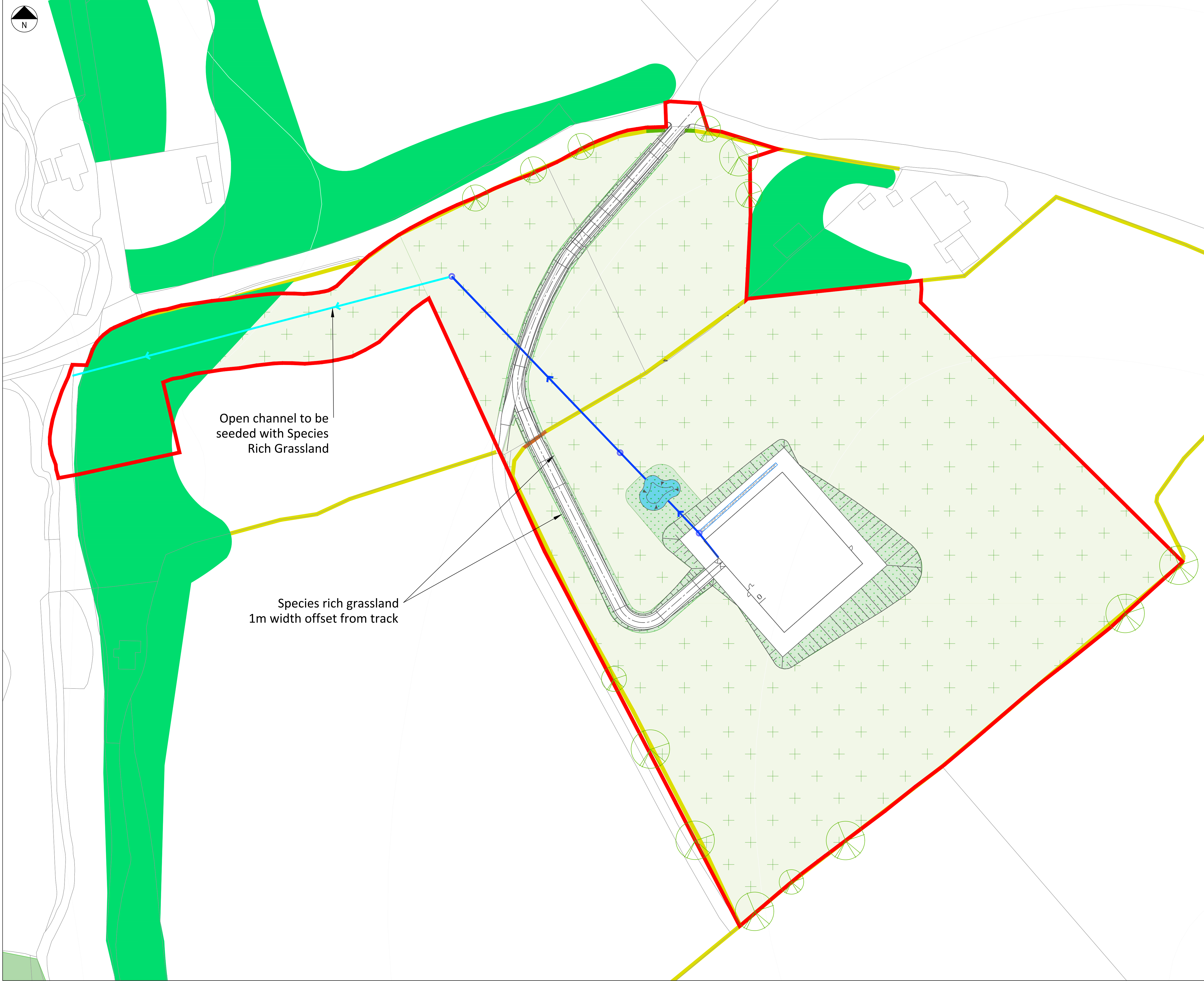
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DRAWING NUMBER

EN070007-D.2.14-LAY-Sheet 7



KEY

Newbuild Infrastructure boundary

Topo survey (existing vegetation/ fence lines)

Existing To Be Permanently Removed

Hedgerow to be removed

Existing To Be Retained

Existing Woodland

Existing Hedgerow

Proposed Vegetation

Native Double Staggered Hedgerow
- for replacement of existing

Hedgerow Trees

Species Rich Grassland

Made Good / return to prior use

Indicative Surface Water Drainage Design
(Refer to EN70007-D.6.5.13.1-LAY-Sheet 8 for details)

Indicative ephemeral detention pond

Indicative open channel
(above ground)

Indicative surface water pipe
(underground)

Indicative gravel covered filter drain

NOTE:

- E&I Kiosk, lighting columns and fences to be painted green to RAL 6011
- Refer to EN70007_D.2.14-LAY_Sheet 10 for indicative species
- The designs are subject to 5m limit of deviation

SCALE: 1:500

025

Metres

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HyNet North West

PROJECT TITLE

HyNet Carbon Dioxide Pipeline DCO

DRAWING TITLE

Application Document Reference D.2.14
Cornist Lane BVS Landscape Layout
Sheet 9 of 11

DRAWING STATUS

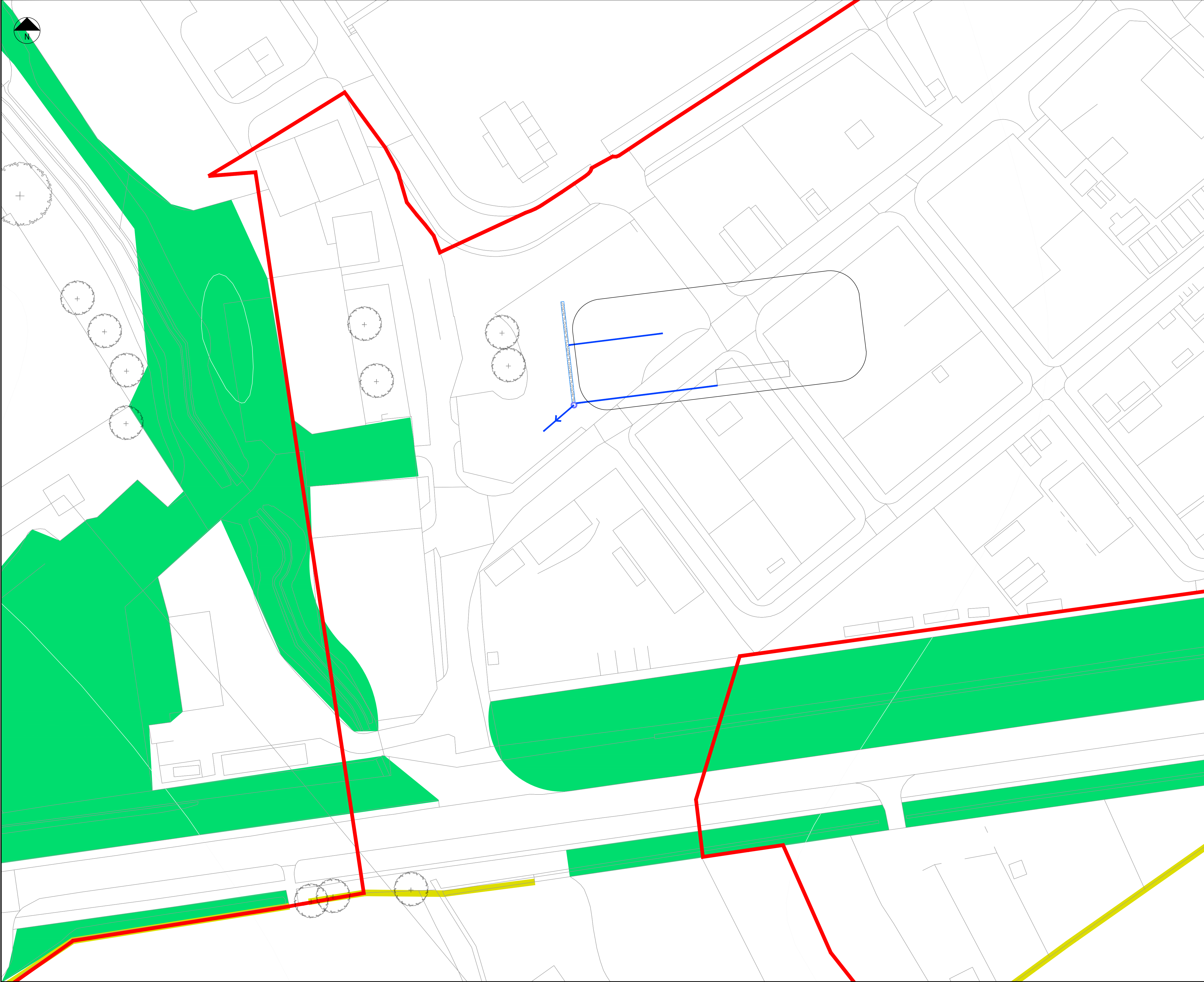
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SCALE @ A1 SIZE	DATE	REVISION
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DRAWING NUMBER

EN070007-D.2.14-LAY-Sheet 8



KEY

Newbuild Infrastructure Boundary

Topo survey (existing vegetation/ fence lines)

Existing To Be Retained

Existing Woodland

Existing Hedgerow

Existing Tree

Indicative Surface Water Drainage Design
(Refer to EN70007-D.6.5.13.1-LAY-Sheet 2 for details)

Indicative surface water pipe (underground)

Indicative gravel covered filter drain

NOTE:

- E&I Kiosk, lighting columns and fences to be painted green to RAL 6011

- Refer to EN70007_D.2.14-LAY_Sheet 10 for indicative species

- The designs are subject to 5m limit of deviation

SCALE: 1:500

0

25

Metres

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HyNet North West

PROJECT TITLE
HyNet Carbon Dioxide Pipeline DCO

DRAWING TITLE
Application Document Reference D.2.14
Stanlow AGI Landscape Layout
Sheet 10 of 11

DRAWING STATUS
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70070865-T.2.14-LAY-Sheet 9

HyNet Indicative Species Mixes - Landscape Layouts

Native Tree Screen Planting (Woodland belt character)

Bare root whips approx. 125-150cm tall

- Acer campestre (Field maple)
- Acer pseudoplatanus (Sycamore)
- Tilia Cordata (Lime)
- Sorbus aucuparia (Rowan)
- Sorbus aria (Whitebeam)
- Quercus robur (Common Oak)
- Betula pendula (Common Silver Birch)
- Corylus avellana (Common Hazel)
- Ilex aquifolium (Common Holly)

Native Shrub Planting (low level planting)

Container grown approx. 10-15l at approx. 40-80cm height depending on individual species

- Cornus sanguinea (Common Dogwood) 15%
- Crataegus monogyna (Common Hawthorn) 15%
- Ilex aquifolium (Common Holly) 10%
- Prunus spinosa (Blackthorn) 20%
- Rosa canina (Dog Rose) 15%
- Salix cinerea (grey willow) 10%
- Viburnum opulus (Guelder Rose) 15%

Hedgerow Trees (individual trees)

Selected Standards Bare root 8-10cm girth approx. 250-300cm height

- Acer campestre (Field maple)
- Acer pseudoplatanus (Sycamore)
- Tilia Cordata (Lime)
- Fagus sylvatica (Common Beech)
- Malus sylvestris (Common Crab Apple)
- Betula pendula (Common Silver Birch)

Individual Trees (individual trees to replace those lost)

Selected Standards Root Balled 10-12cm girth approx. 300-350cm height

- Acer campestre (Field maple)
- Acer pseudoplatanus (Sycamore)
- Tilia Cordata (Lime)

Native Tripe Staggered Hedgerow (proposed hedgerow where not replacing existing like for like)

Bareroot Transplants 2 year, 40-60cm height

- Corylus avellanan (Common Hazel)
- Crataegus monogyna (Common Hawthorn)
- Viburnum opulus (Guelder Rose)
- Ilex aquifolium (Common Holly)

Native Double Staggered Hedgerow (where replacing existing like for like)

Bareroot Transplants 2 year, 40-60cm height

- Species determined via hedgerow surveys or as above where appropriate/provides BNG benefit.

Species Rich Grassland

- Appropriate native mix

Made Good / return to prior use

- As appropriate, to be determined at detailed design

HyNet North West

PROJECT TITLE
HyNet Carbon Dioxide Pipeline DCO

DRAWING TITLE
Application Document Reference D.2.14
Indicative Species List
Sheet 11 of 11

DRAWING STATUS
FOR DCO SUBMISSION

DRAWN LA	CHECKED DR	APPROVED DR	AUTHORISED JP
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SCALE @ A1 SIZE -	DATE 26/09/2022	REVISION A
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DRAWING NUMBER
EN070007-D.2.14-LAY-Sheet 10