

BVS and AGI Landscape Layout Plans

HyNet Carbon Dioxide Pipeline DCO

Planning Act 2008

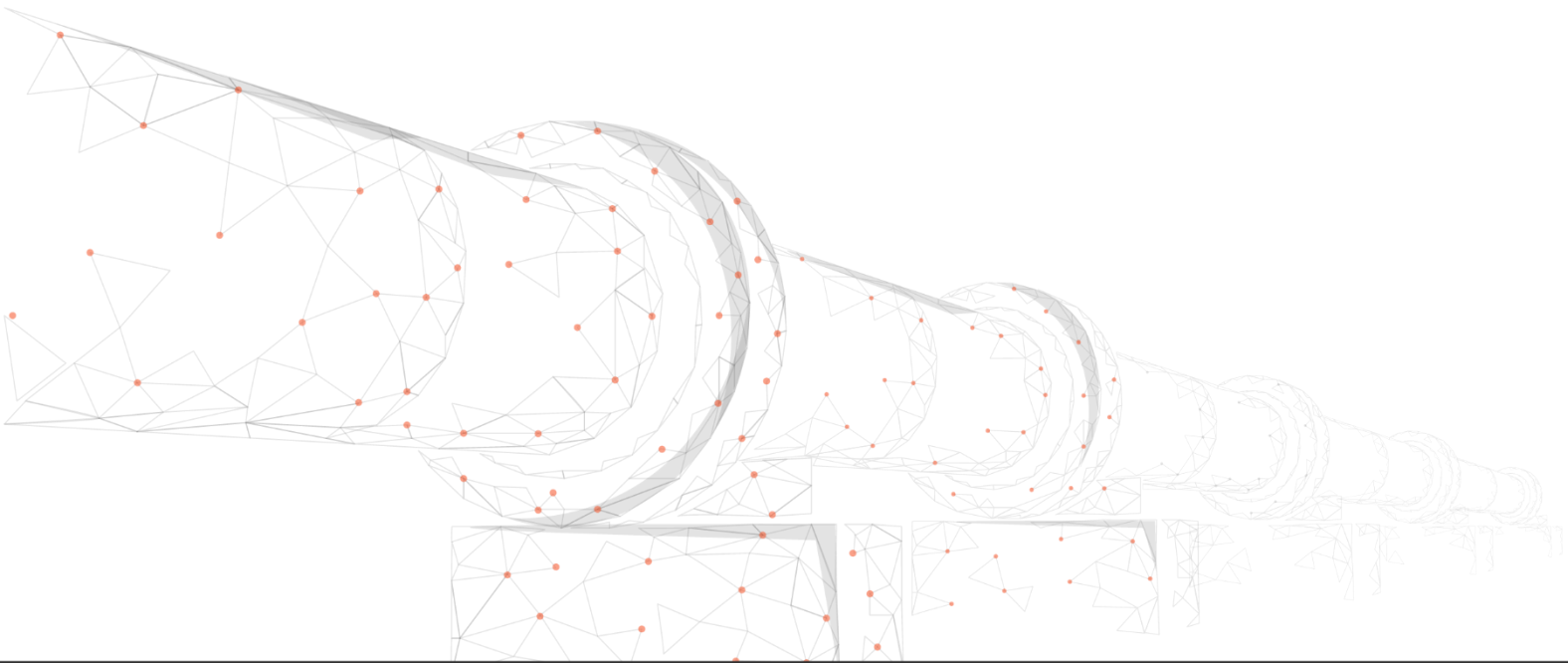
The Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009 –
Regulations 5(2)(o)

Document Reference Number D.2.14

Applicant: Liverpool Bay CCS Limited

PINS Reference: EN070007

English Version



REVISION: B

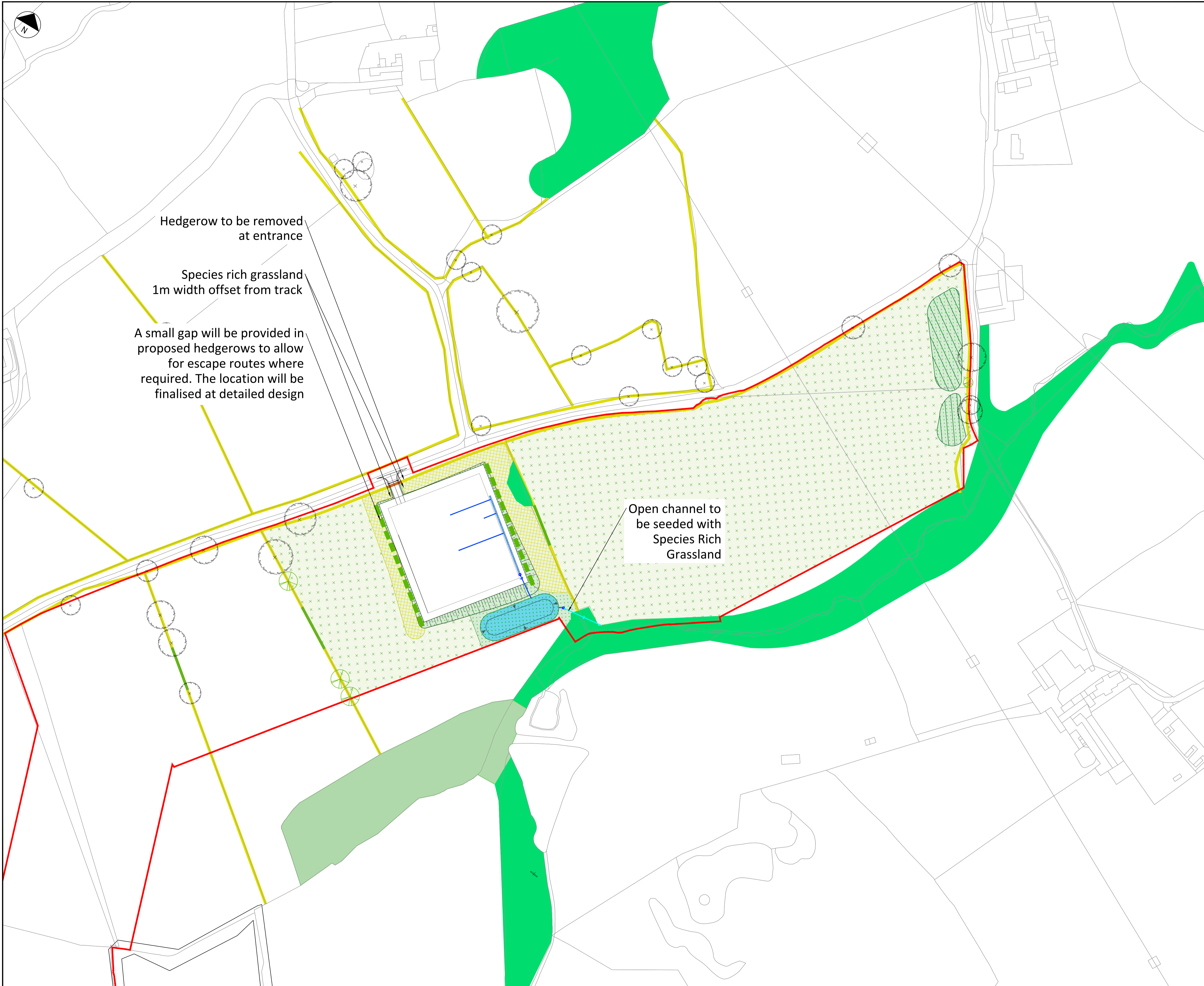
DATE: March 2023

DOCUMENT OWNER: WSP UK Limited

PUBLIC

QUALITY CONTROL

Document Reference		D.2.14		
Document Owner		WSP		
Revision	Date	Comments	Author	Approver
A	September 2022	Submitted with DCO application	DR	SL
B	March 2023	Update for ES Addendum Design Change Request 1	DS	DS



Hedgerow to be removed at entrance

Species rich grassland 1m width offset from track

A small gap will be provided in proposed hedgerows to allow for escape routes where required. The location will be finalised at detailed design

Open channel to be seeded with Species Rich Grassland

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

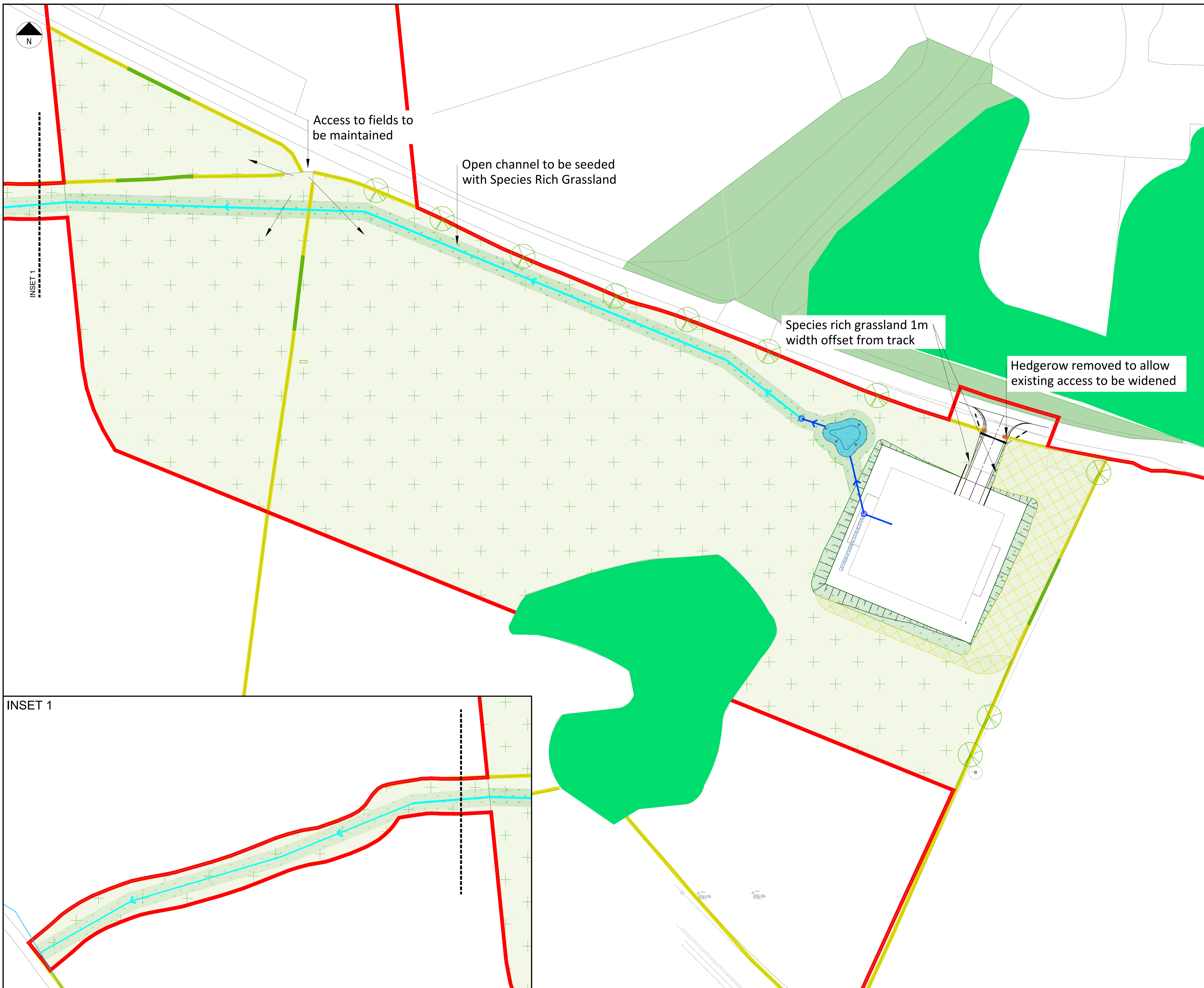
PROJECT TITLE
HyNet Carbon Dioxide Pipeline DCO

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

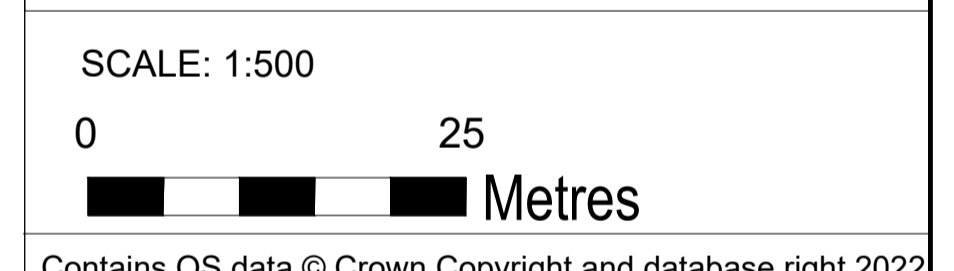
- Native Double Staggered Hedgerow - for replacement of existing
- Native Shrub Planting
- Hedgerow Trees
- Species Rich Grassland
- Made Good/ Return to prior use

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.



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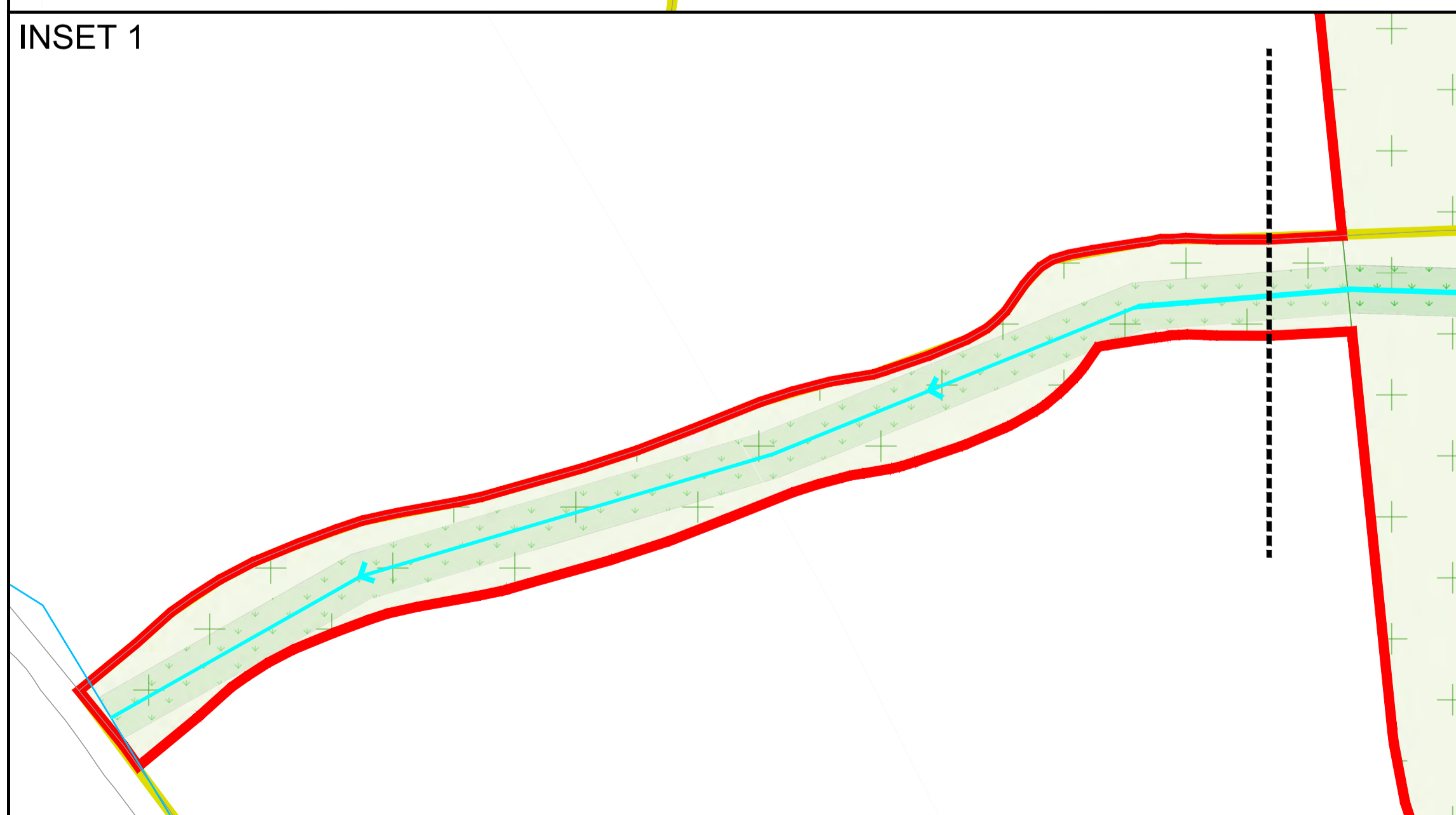
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HyNet Carbon Dioxide Pipeline DCO

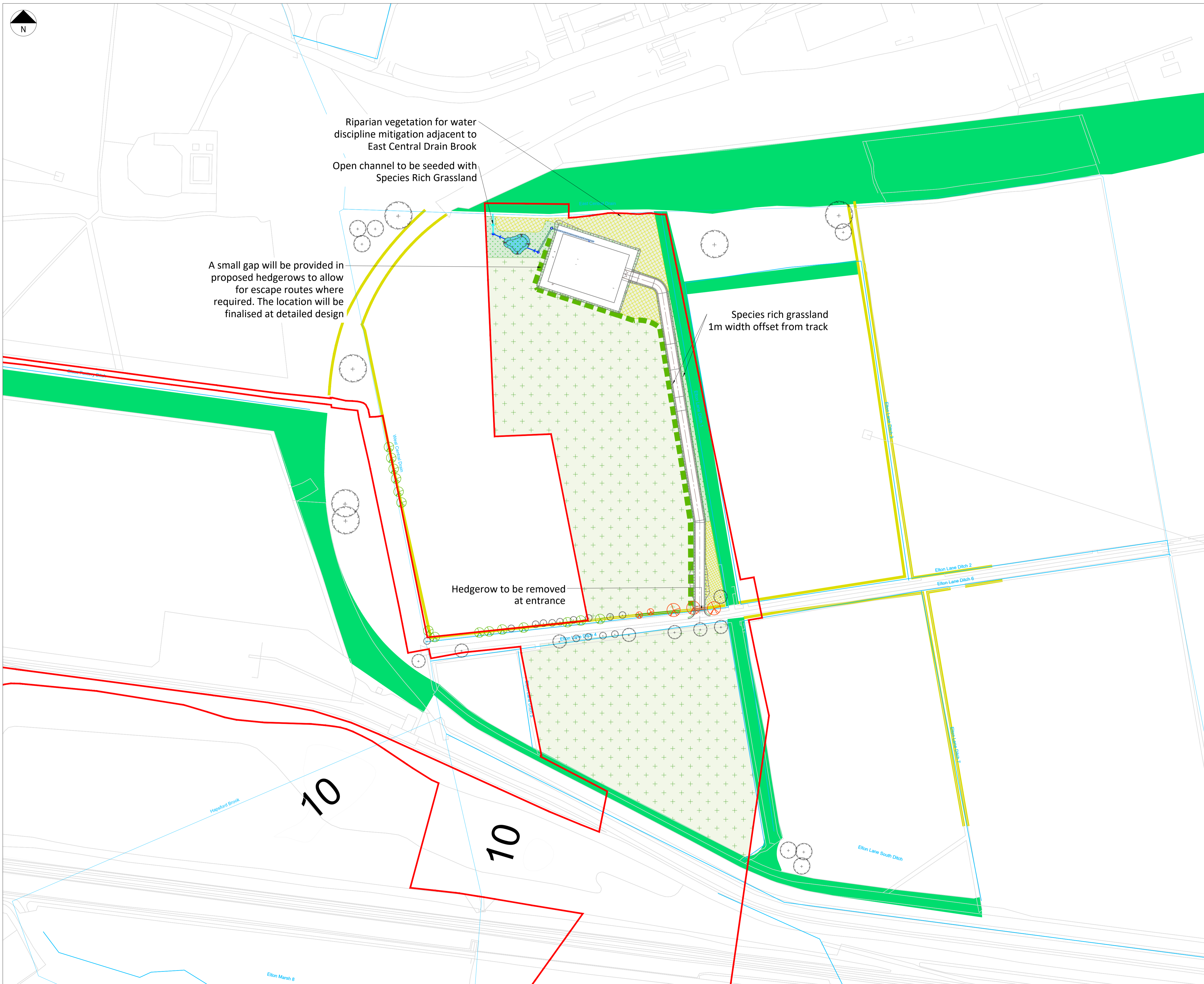
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Northop Hall AGI Landscape Layout
Sheet 2 of 11

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CHANGE REQUEST

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SCALE @ A1 SIZE 1:500		DATE 22/03/2023	REVISION B

DRAWING NUMBER
70070865-T.2.14-LAY-Sheet 1






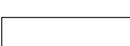




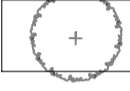





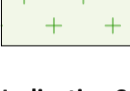




A small gap will be provided in proposed hedgerows to allow for escape routes where required. The location will be finalised at detailed design

Riparian vegetation for water discipline mitigation adjacent to East Central Drain Brook
Open channel to be seeded with Species Rich Grassland

Species rich grassland 1m width offset from track

Hedgerow to be removed at entrance

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

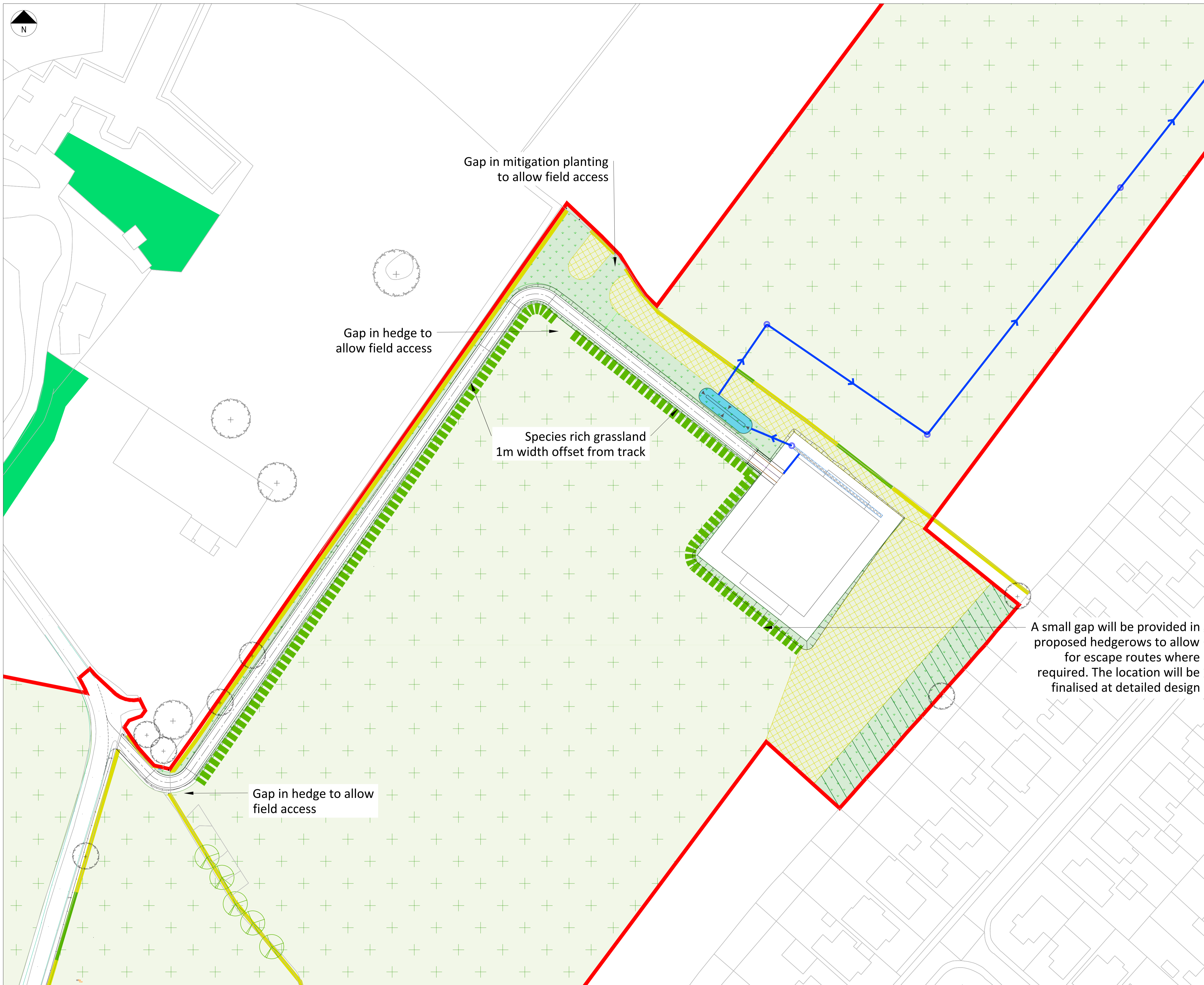
PROJECT TITLE
HyNet Carbon Dioxide Pipeline DCO

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
















DRAWING STATUS
CHANGE REQUEST

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SCALE @ A1 SIZE 1:1250	DATE 22/03/2023	REVISION B	

DRAWING NUMBER
 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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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
CHANGE REQUEST

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SCALE @ A1 SIZE 1:500	DATE 22/03/2023	REVISION B	
DRAWING NUMBER EN070007-D.2.14-LAY-Sheet 3			



Hedgerow to be removed

Species rich grassland
1m width offset from track

A small gap will be provided in proposed hedgerows to allow for escape routes where required. The location will be finalised at detailed design

Open channel to be seeded with Species Rich Grassland

KEY

- Newbuild Infrastructure Boundary
- Topo survey (existing vegetation / fence lines)
- Existing To Be Permanently Removed**
- X 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
- X 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

0 25 Metres

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HyNet North West

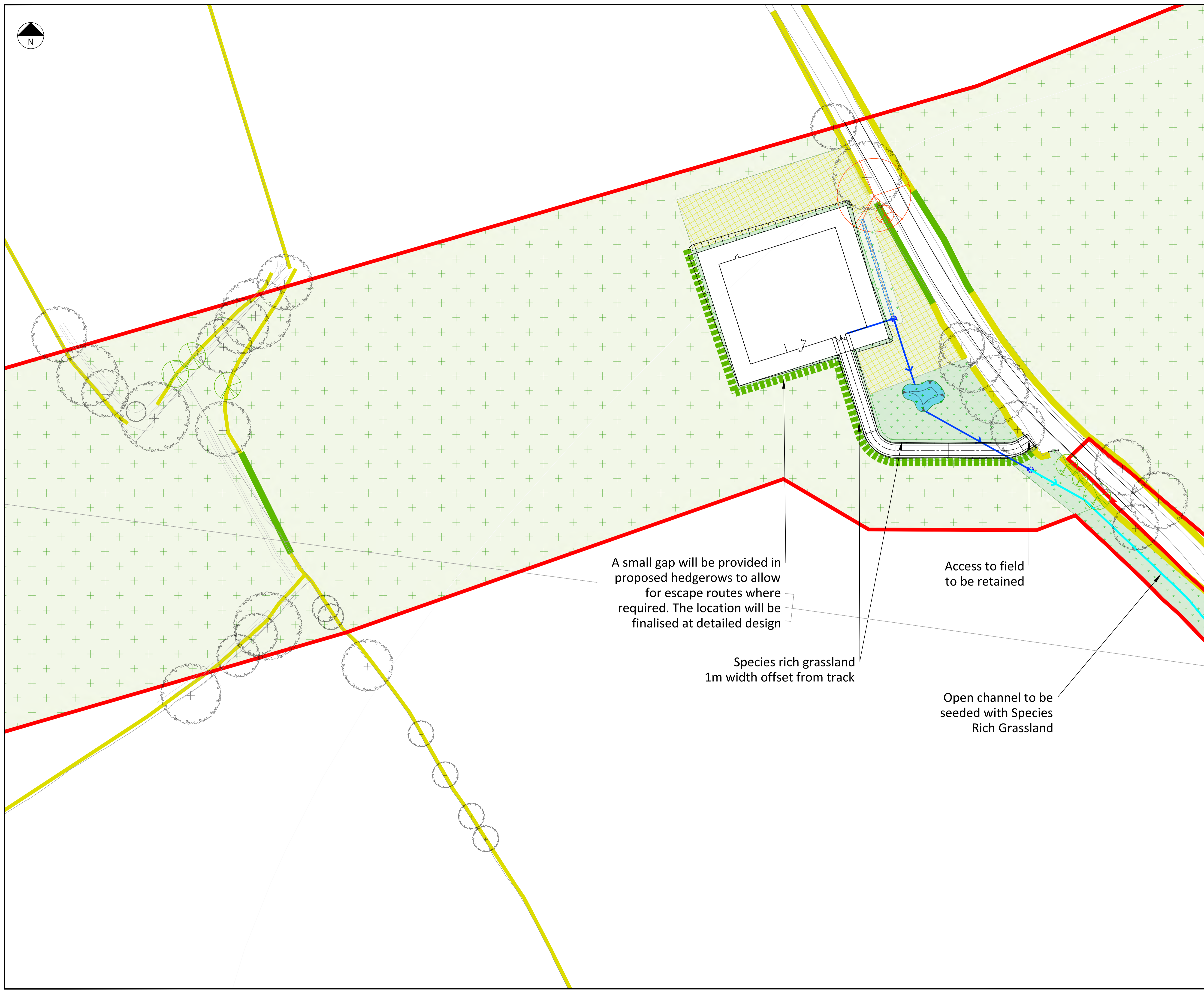
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HyNet Carbon Dioxide Pipeline DCO

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



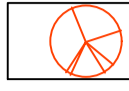

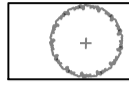




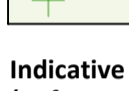
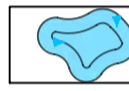

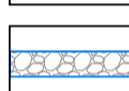
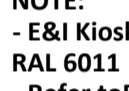

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FOR DCO SUBMISSION

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SCALE @ A1 SIZE 1:500	DATE 26/09/2022	REVISION A	

DRAWING NUMBER
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

A small gap will be provided in proposed hedgerows to allow for escape routes where required. The location will be finalised at detailed design

Access to field to be retained

Species rich grassland 1m width offset from track

Open channel to be seeded with Species Rich Grassland

SCALE: 1:500



0 25 Metres

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HyNet North West

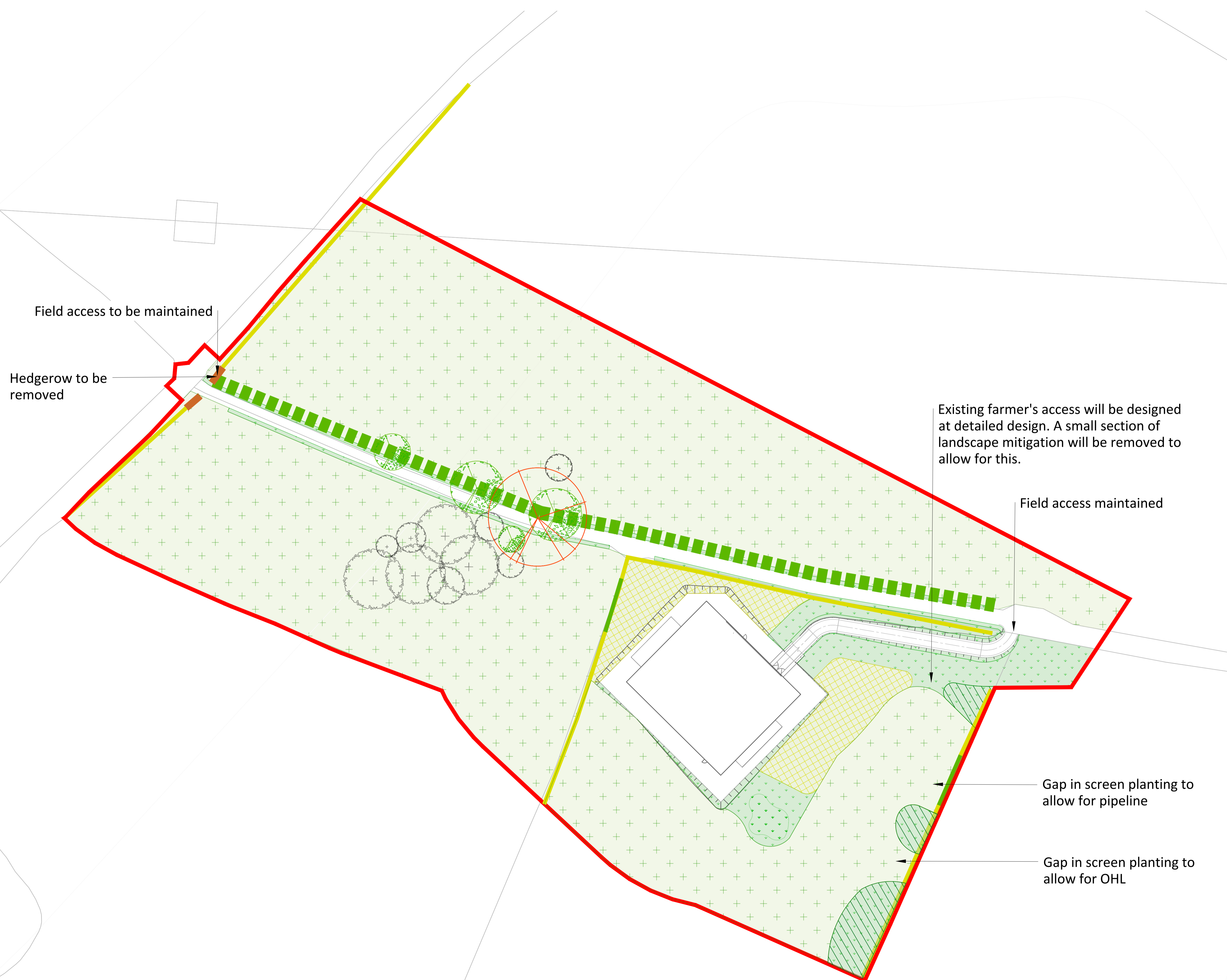
PROJECT TITLE
HyNet Carbon Dioxide Pipeline DCO

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

DRAWING STATUS
FOR DCO SUBMISSION

DRAWN	CHECKED	APPROVED	AUTHORISED
LA	DR	DR	JP
SCALE @ A1 SIZE	DATE	REVISION	
1:500	26/09/2022	A	

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

0 25 Metres

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HyNet North West

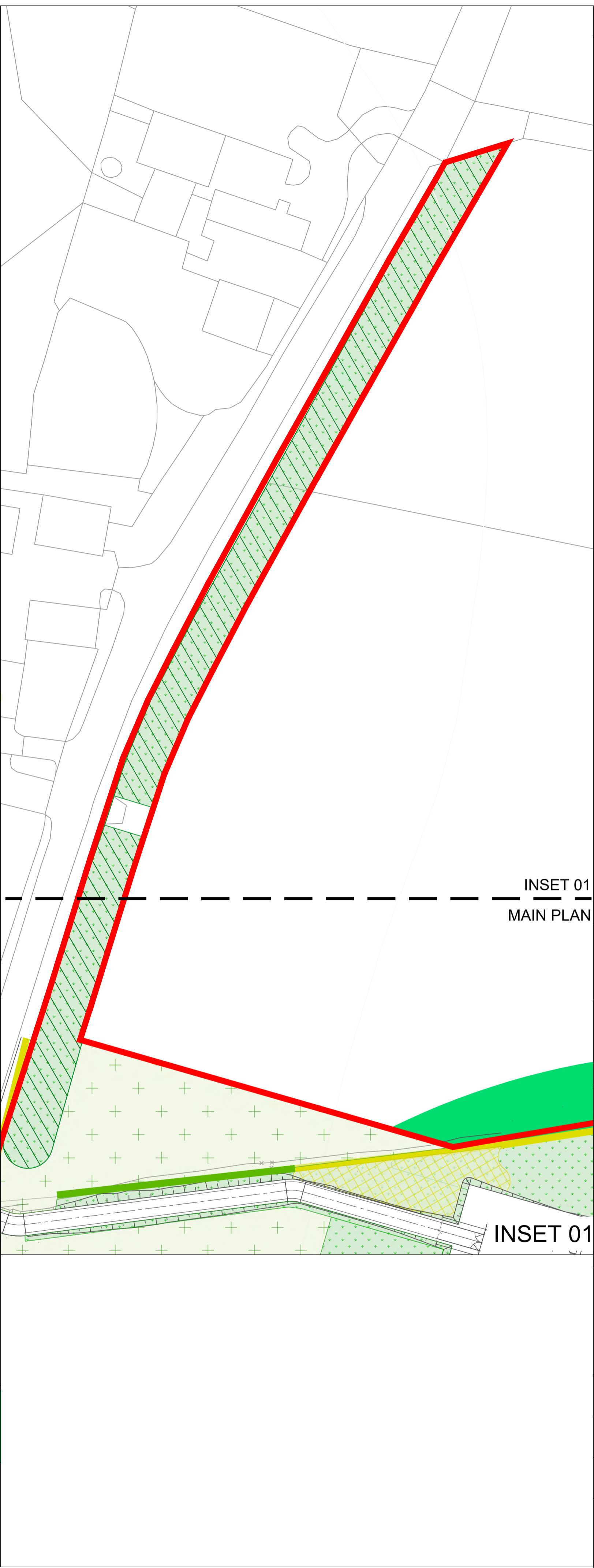
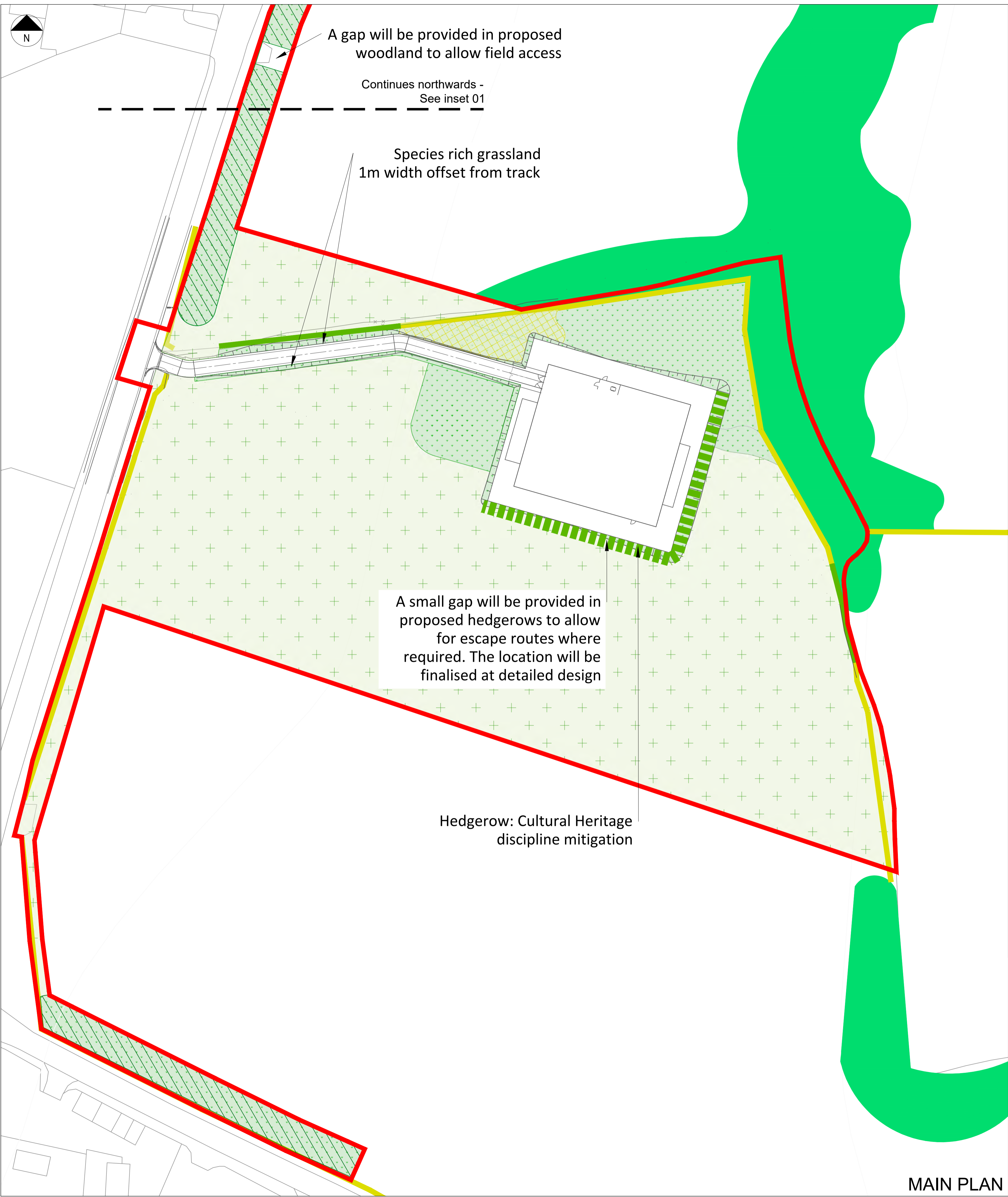
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HyNet Carbon Dioxide Pipeline DCO

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Babell BVS Landscape Layout
Sheet 7 of 11

DRAWING STATUS
CHANGE REQUEST

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SCALE @ A1 SIZE 1:500		DATE 22/03/2023	REVISION B

DRAWING NUMBER
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:

- ES1 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: 1:2500

Metres

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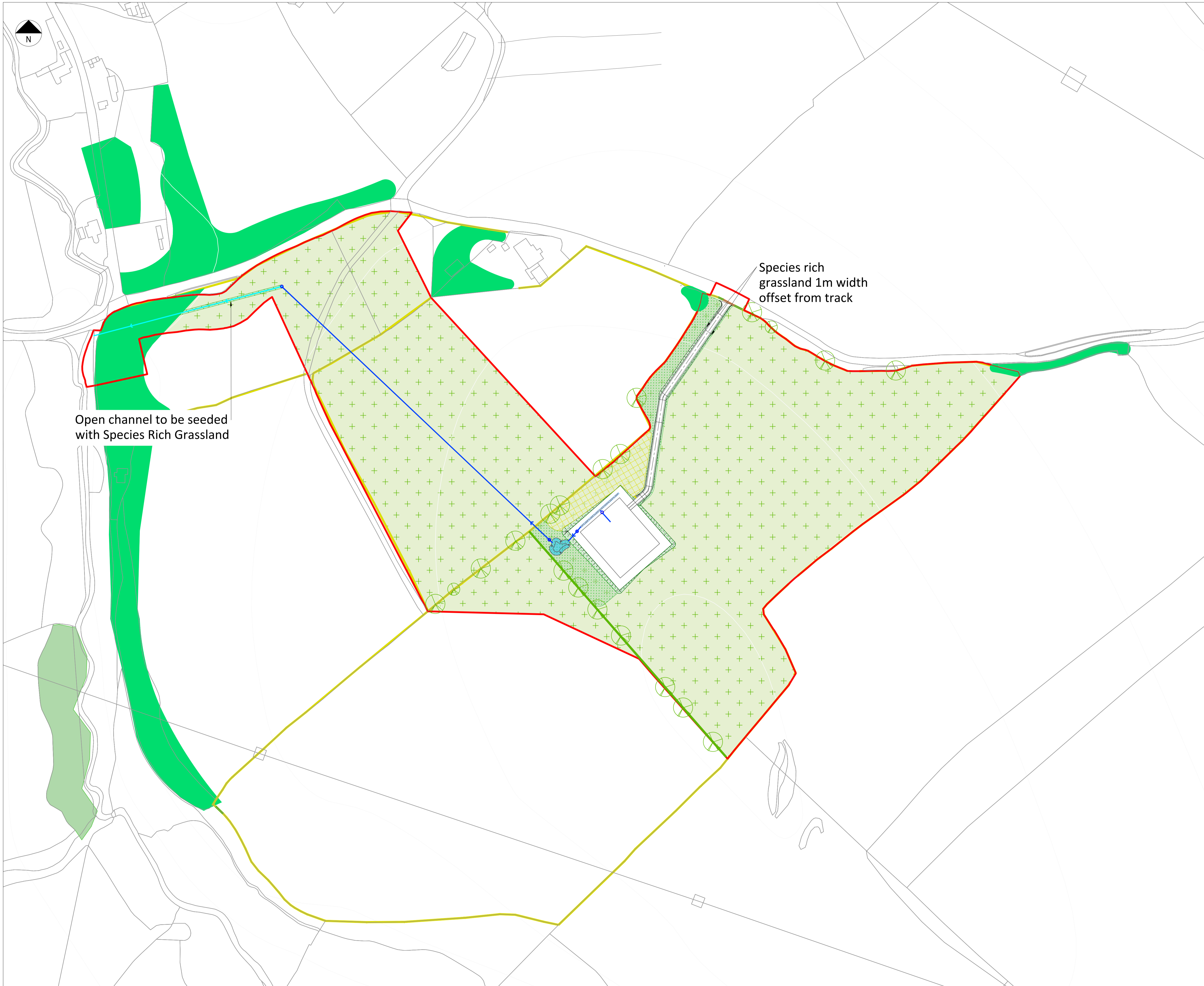
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HyNet Carbon Dioxide Pipeline DCO

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















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SCALE @ A1 SIZE 1:1250	DATE 22/03/2023	REVISION B	

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
-  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 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: 1:1000

0 50 Metres

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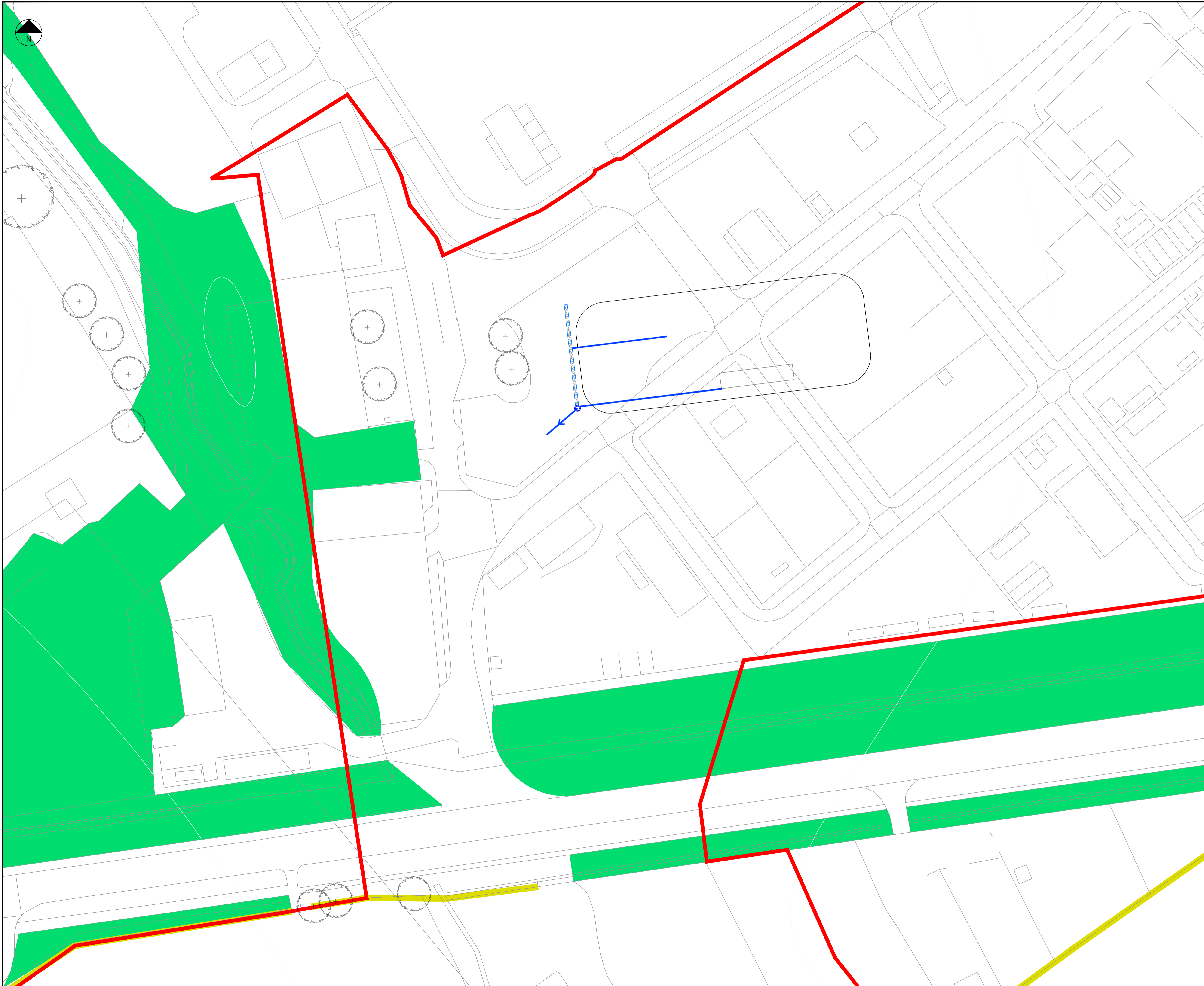
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HyNet Carbon Dioxide Pipeline DCO

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








DRAWING STATUS
CHANGE REQUEST

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SCALE @ A1 SIZE 1:1000	DATE 09/03/2023	REVISION B	

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
FOR DCO SUBMISSION

DRAWN LA	CHECKED DR	APPROVED DR	AUTHORISED JP
SCALE @ A1 SIZE 1:500		DATE 26/09/2022	REVISION A

DRAWING NUMBER
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)
- Salix caprea (Goat Willow)
- Alnus glutinosa (Common Alder)

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)
- Populus nigra (Black Poplar)

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
CHANGE REQUEST

DRAWN	CHECKED	APPROVED	AUTHORISED
SL	DS	DS	AW
SCALE @ A1 SIZE	DATE	REVISION	
-	09/03/2023	B	

DRAWING NUMBER
EN070007-D.2.14-LAY-Sheet 10