

- Key:**
- Newbuild Infrastructure Boundary
 - Indicative alignment of the Ince AGI to Stanlow AGI Pipeline
 - Indicative alignment of the Stanlow AGI to Flint AGI Pipeline
 - StanlowAGI (Indicative Location)
- Flood Extent**
- Flood Extent - 1 in 200 yr (2065 CC) tidal event

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HyNet North West

PROJECT TITLE
Hynet Carbon Dioxide Pipeline DCO

DRAWING TITLE
 Figure 18.4.11 - Mersey Tidal Model 200YR (2065) - Stanlow AGI

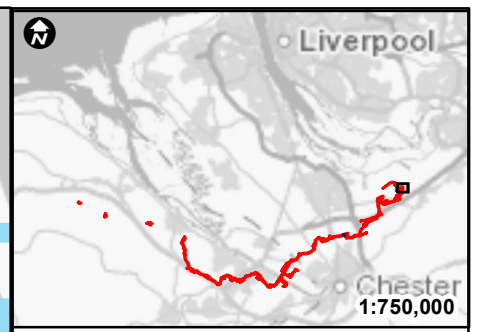
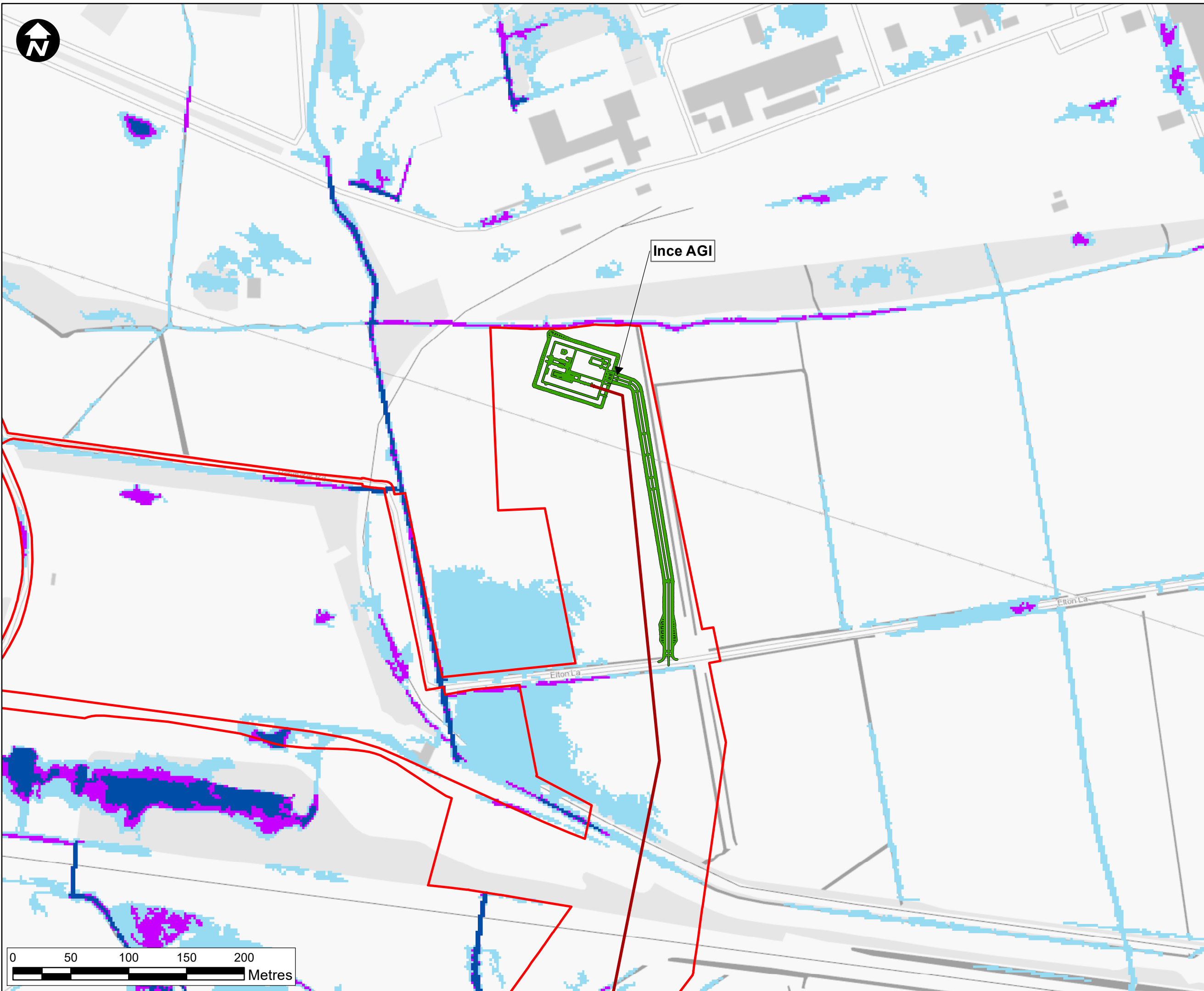
DRAWING STATUS
 Final for DCO Examination - submitted at Deadline 7

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SCALE @ A3 SIZE 1:10,000	DATE 21/08/2023	REVISION C
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DRAWING NUMBER
 EN070007-APP-ES-18.4.11

Annex G



- Key:**
- Newbuild Infrastructure Boundary
 - Indicative alignment of the Ince AGI to Stanlow AGI Pipeline
 - InceAGI (Indicative Location)

- Flood Risk from Surface Water and small watercourses**
- Low Risk (Chance of flooding of between 0.1% and 1%)
 - Medium Risk (Chance of flooding of between 1% and 3.3%)
 - High Risk (Chance of flooding of greater than 3.3%)

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HyNet North West

PROJECT TITLE
Hynet Carbon Dioxide Pipeline DCO

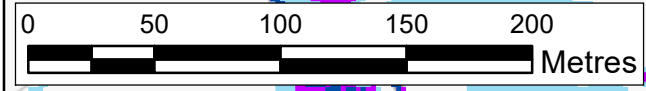
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Figure 18.4.12: Surface Water Flood Map Ince AGI

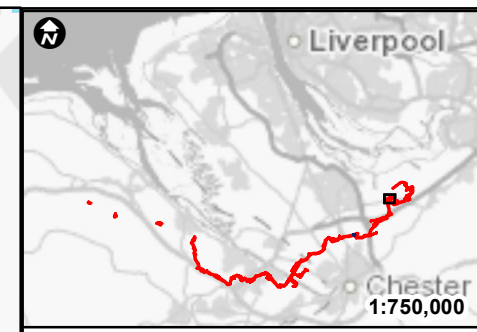
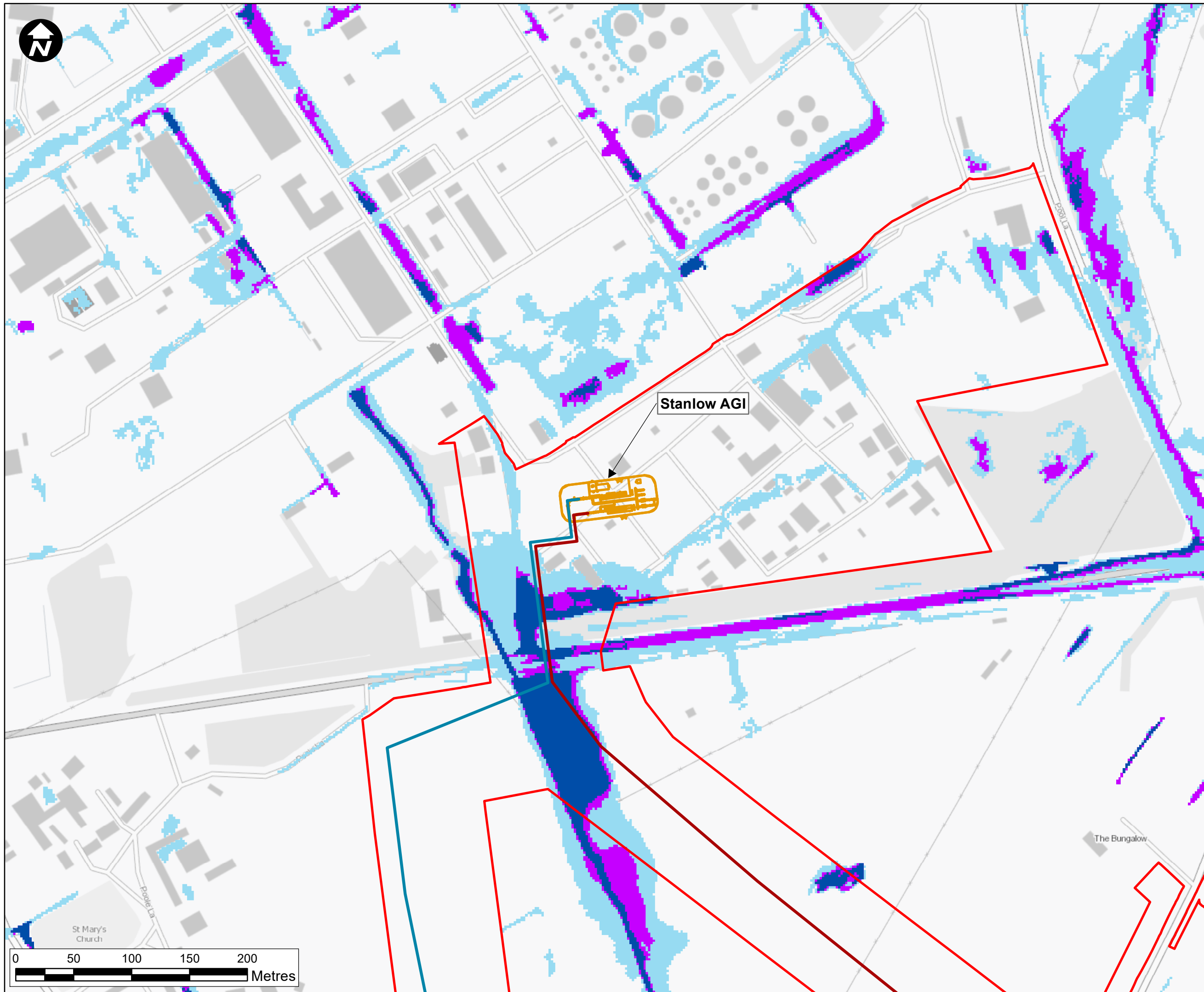
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Final for DCO Examination - submitted at Deadline 7

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SCALE @ A3 SIZE 1:3,000	DATE 21/08/2023	REVISION C
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DRAWING NUMBER
EN070007-APP-ES-18.4.12





Key:

- Newbuild Infrastructure Boundary
- Indicative alignment of the Ince AGI to Stanlow AGI Pipeline
- Indicative alignment of the Stanlow AGI to Flint AGI Pipeline
- Stanlow AGI (Indicative location)

Flood Risk from Surface Water and small watercourses

- Low Risk (Chance of flooding of between 0.1% and 1%)
- Medium Risk (Chance of flooding of between 1% and 3.3%)
- High Risk (Chance of flooding of greater than 3.3%)

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HyNet North West

PROJECT TITLE
Hynet Carbon Dioxide Pipeline DCO

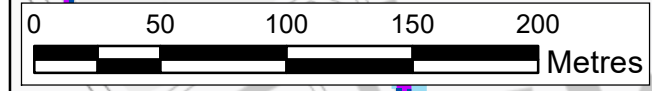
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Figure 18.4.13: Surface Water Flood Map Stanlow AGI

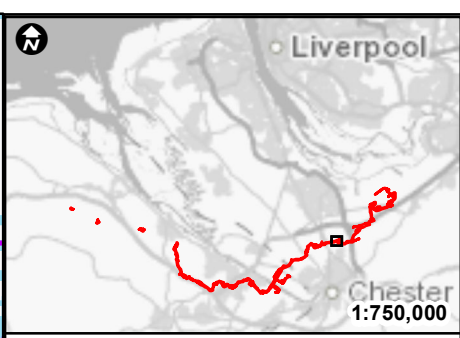
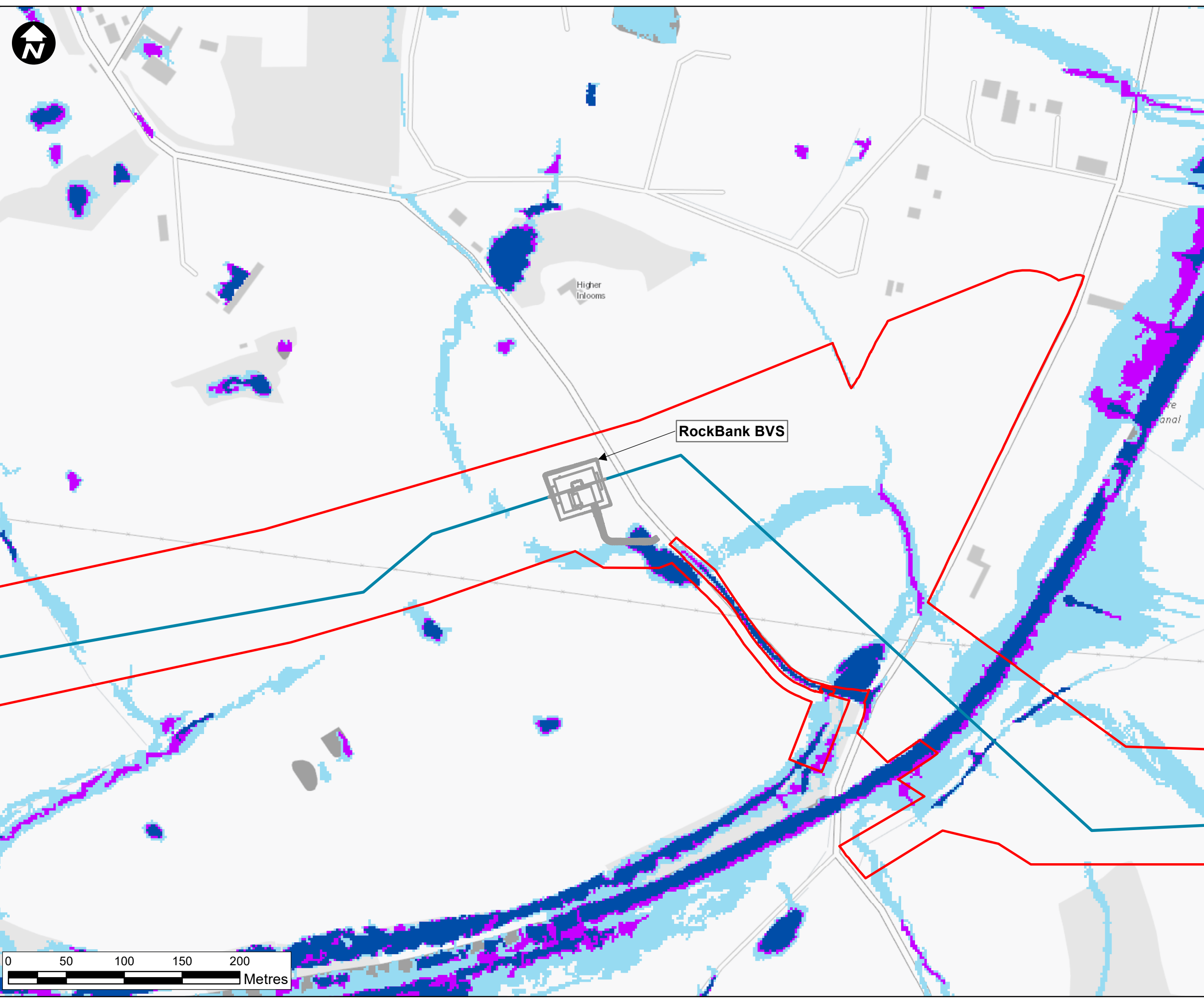
DRAWING STATUS
Final for DCO Examination - submitted at Deadline 7

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SCALE @ A3 SIZE 1:3,000	DATE 21/08/2023	REVISION C
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DRAWING NUMBER
EN070007-APP-ES-18.4.13





- Key:**
- Newbuild Infrastructure Boundary
 - Indicative alignment of the Stanlow AGI to Flint AGI Pipeline
 - Rock Bank BVS (Indicative Location)

Flood Risk from Surface Water and small watercourses

- Low Risk (Chance of flooding of between 0.1% and 1%)
- Medium Risk (Chance of flooding of between 1% and 3.3%)
- High Risk (Chance of flooding of greater than 3.3%)

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HyNet North West

PROJECT TITLE
Hynet Carbon Dioxide Pipeline DCO

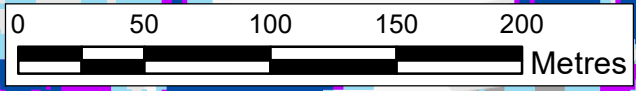
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Figure 18.4.14: Surface Water Flood Map Rock Bank BVS

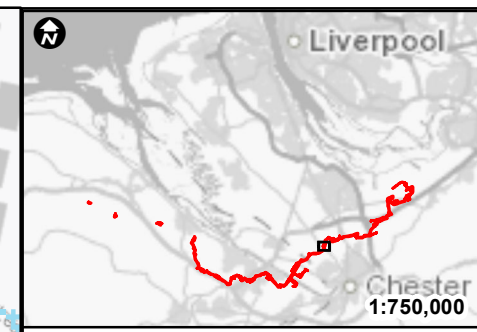
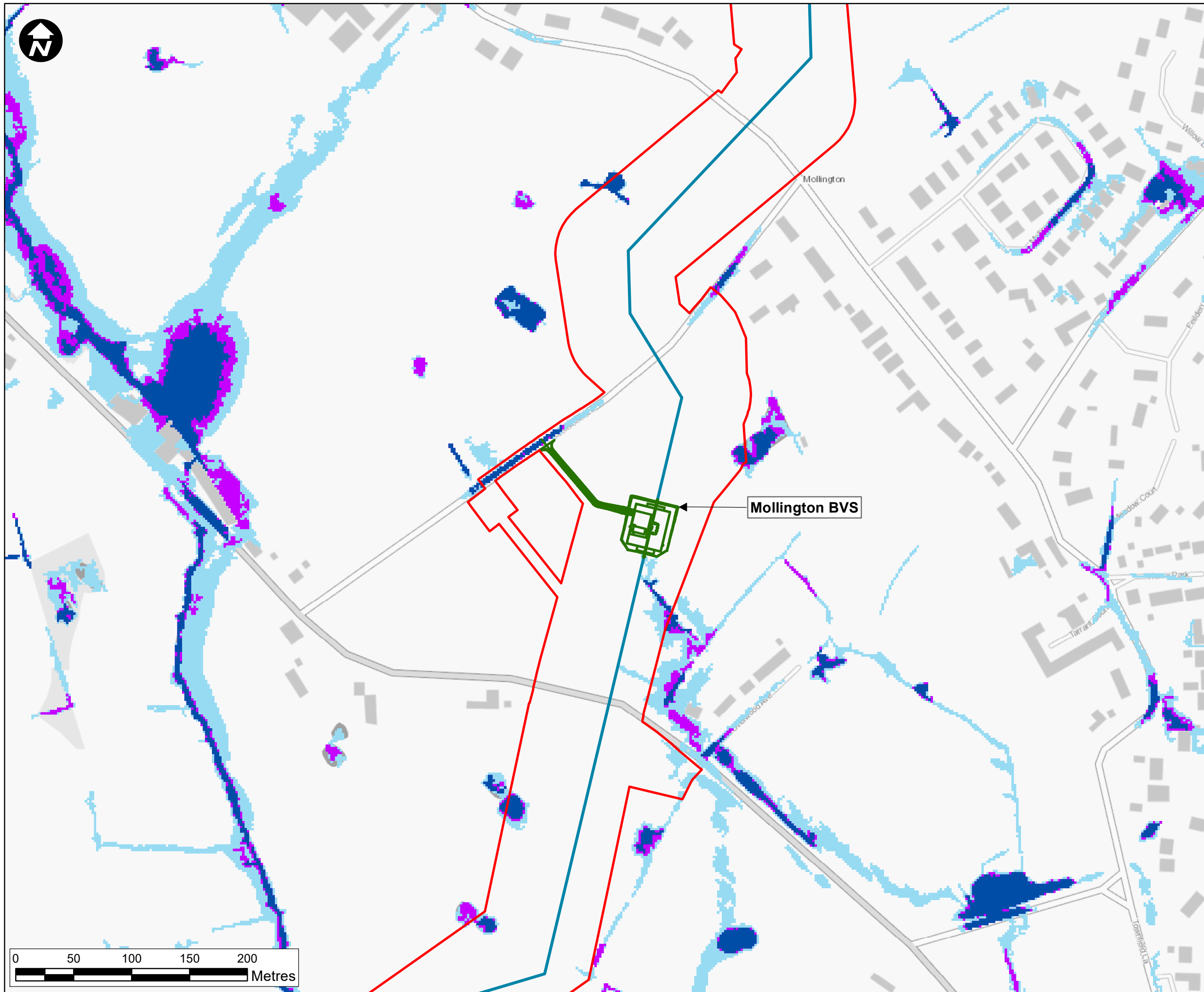
DRAWING STATUS
Final for DCO Examination - submitted at Deadline 7

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SCALE @ A3 SIZE 1:3,000	DATE 01/09/2023	REVISION C
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DRAWING NUMBER
EN070007-APP-ES-18.4.14





Key:

- Newbuild Infrastructure Boundary
- Indicative alignment of the Stanlow AGI to Flint AGI Pipeline
- Mollington BVS (Indicative Location)

Flood Risk from Surface Water and small watercourses

- Low Risk (Chance of flooding of between 0.1% and 1%)
- Medium Risk (Chance of flooding of between 1% and 3.3%)
- High Risk (Chance of flooding of greater than 3.3%)

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HyNet North West

PROJECT TITLE
Hynet Carbon Dioxide Pipeline DCO

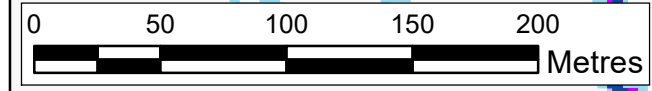
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Figure 18.4.15: Surface Water Flood Map Mollington BVS

DRAWING STATUS
Final for DCO Examination - submitted at Deadline 7

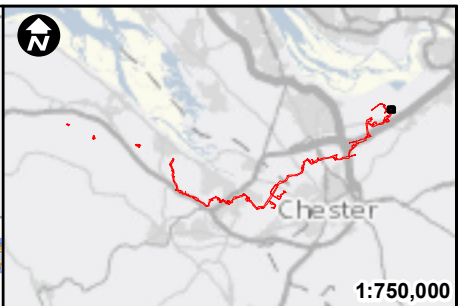
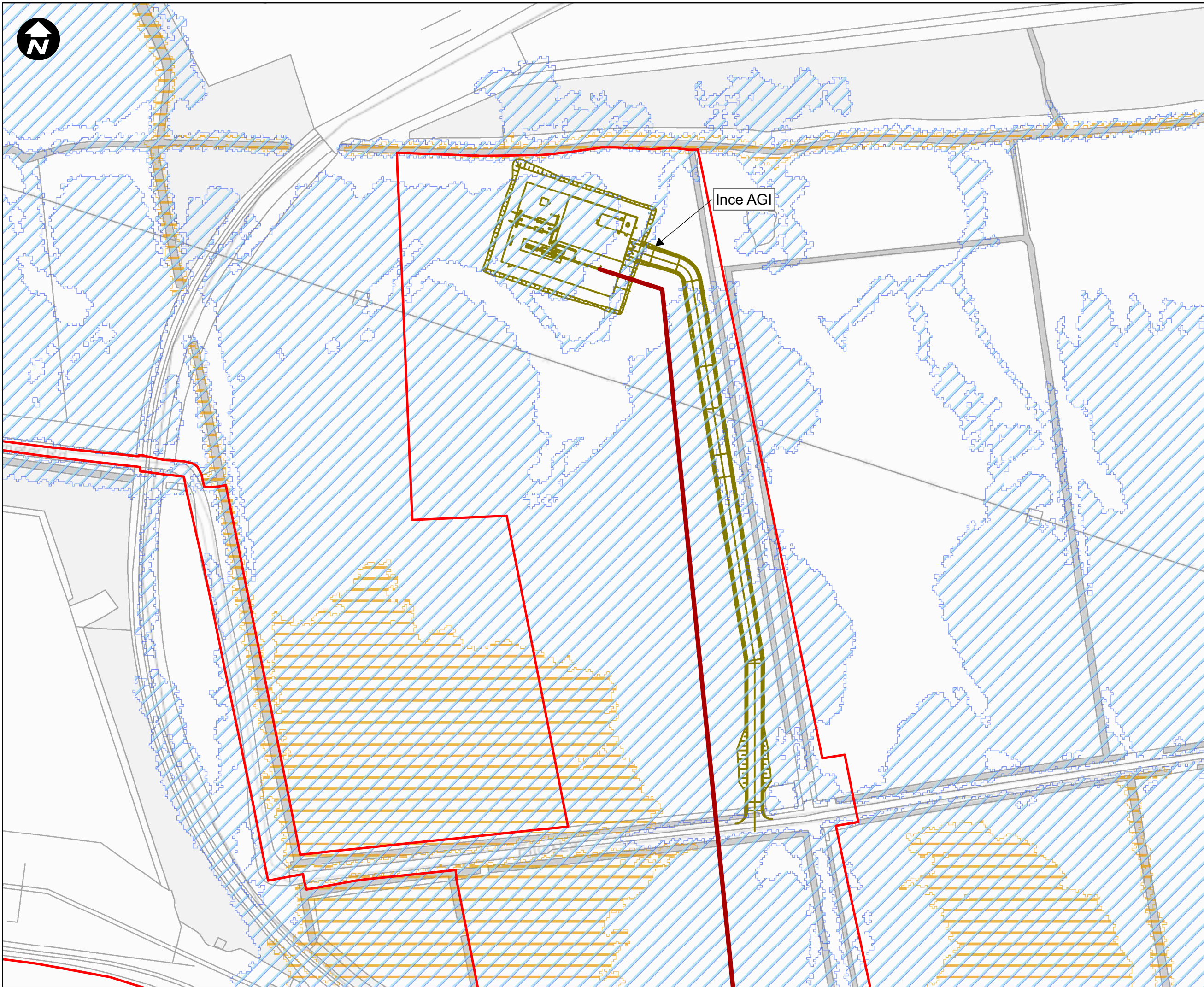
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SCALE @ A3 SIZE 1:3,000	DATE 21/08/2023	REVISION C
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DRAWING NUMBER
EN070007-APP-ES-18.4.15



Annex H



- Key:**
- Newbuild Infrastructure Boundary
 - Indicative alignment of the Ince AGI to Stanlow AGI Pipeline
 - Reservoir Flood Extents Wet Day
 - Reservoir Flood Extents Dry Day
 - Ince AGI (Indicative Location)

SCALE: 1:1,500
 0 12.5 25 50 Metres

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HyNet North West

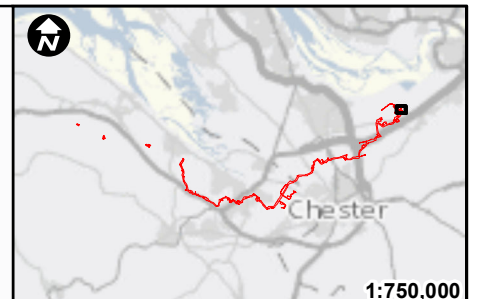
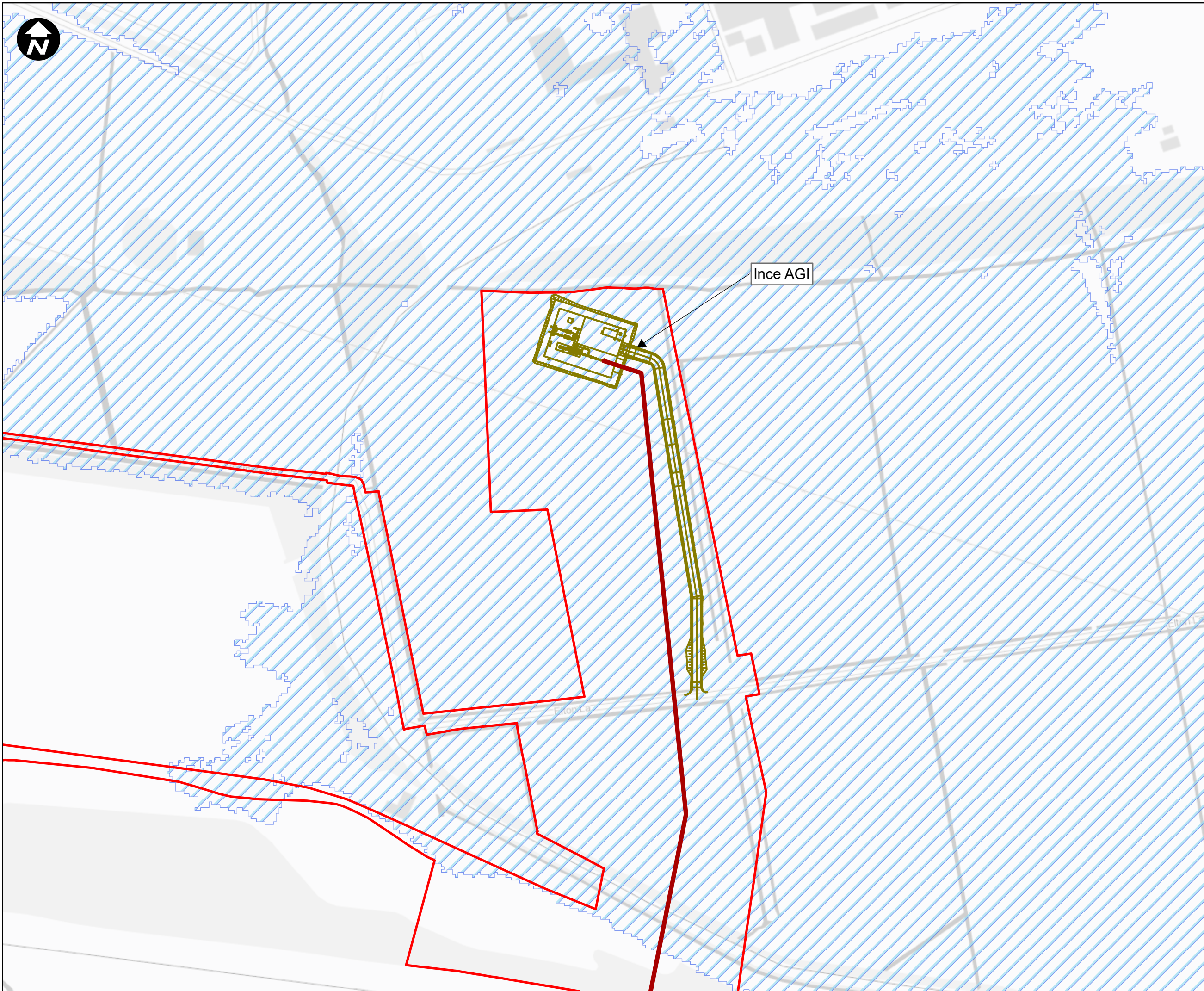
PROJECT TITLE
HyNet Carbon Dioxide Pipeline DCO

DRAWING TITLE
 Figure 18.4.16
 Ince Reservoir Flood Map -
 Manley Mere Wet/Dry
 Sheet 1

DRAWING STATUS
 Final for DCO Examination - submitted at Deadline 7

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SCALE @ A3 SIZE 1:1,500	DATE 21/08/2023	REVISION C	

DRAWING NUMBER
 EN070007-APP-ES-18.4.16 Sheet 1



- Key:**
- Newbuild Infrastructure Boundary
 - Indicative alignment of the Ince AGI to Stanlow AGI Pipeline
 - Reservoir Flood Extents Wet Day
 - Ince AGI (Indicative Location)



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HyNet North West

PROJECT TITLE
HyNet Carbon Dioxide Pipeline DCO

DRAWING TITLE
Figure 18.4.16
Ince Reservoir Flood Map - Bosley Wet/Dry Sheet 2

DRAWING STATUS
Final for DCO Examination - submitted at Deadline 7







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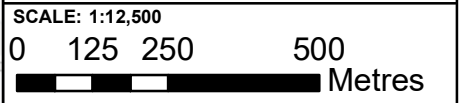
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1:2,500	21/08/2023	C

DRAWING NUMBER
EN070007-APP-ES-18.4.29 Sheet 2



Key:

-  Newbuild Infrastructure Boundary
-  Indicative alignment of the Ince AGI to Stanlow AGI Pipeline
-  Indicative alignment of the Stanlow AGI To Flint AGI Pipeline
-  Reservoir Flood Extents Wet Day
-  Reservoir Flood Extents Dry Day
-  Stanlow AGI (Indicative Location)



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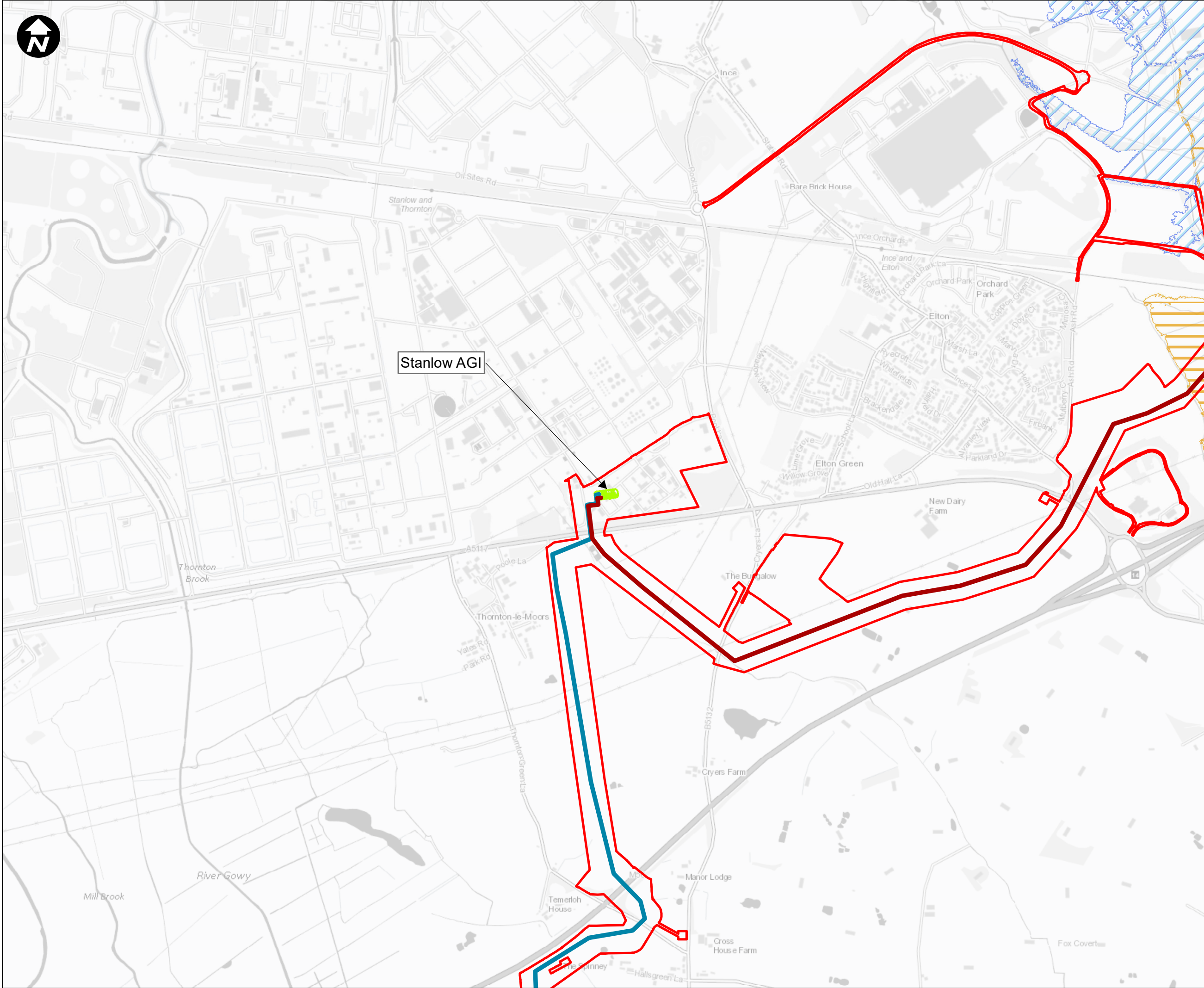
PROJECT TITLE
HyNet Carbon Dioxide Pipeline DCO

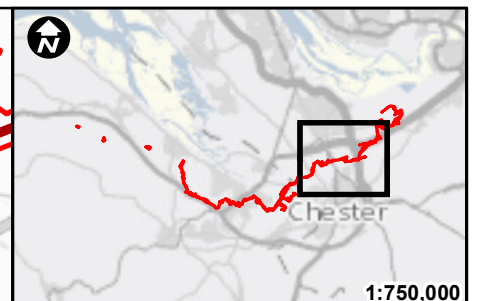
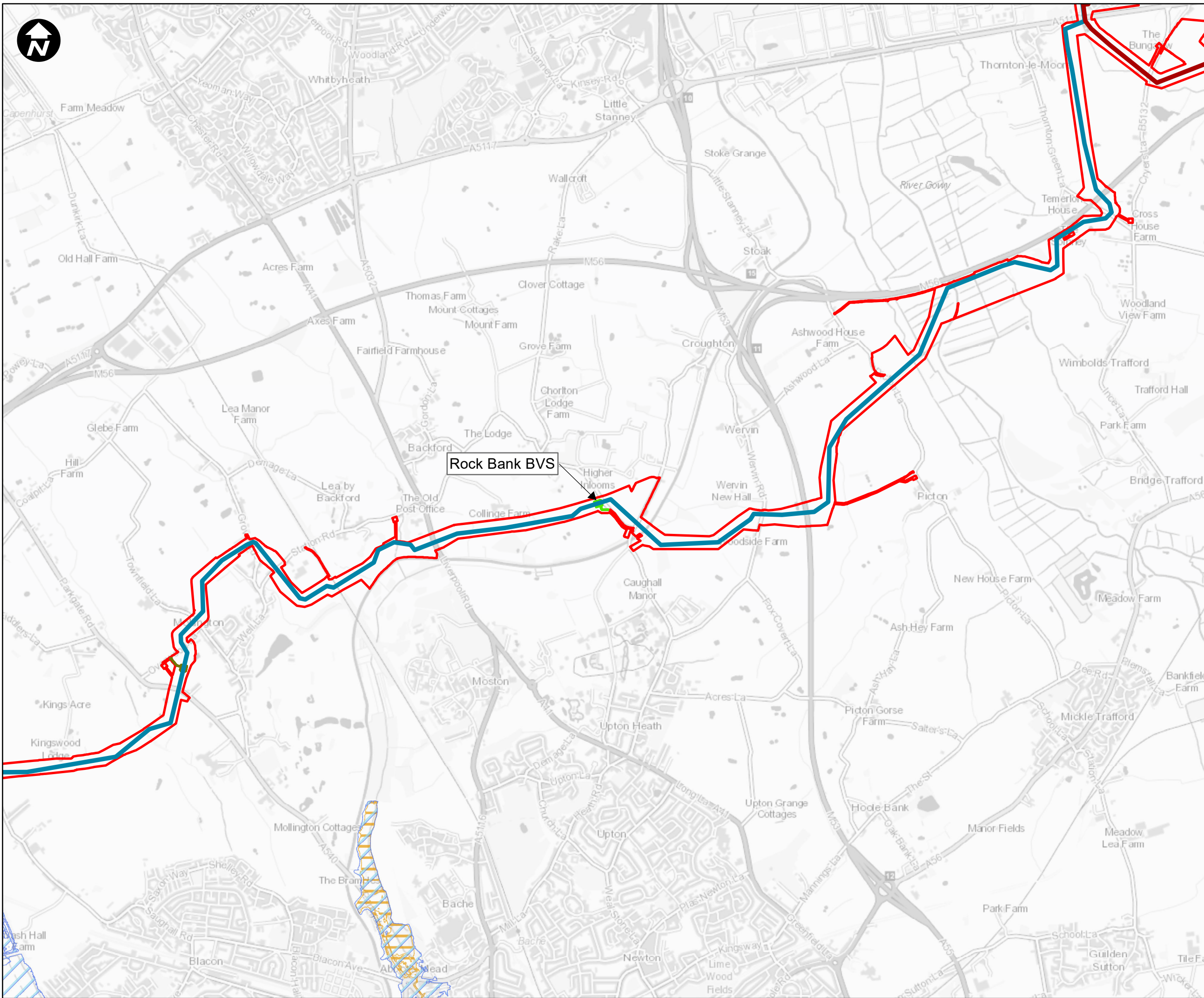
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Figure 18.4.17
Stanlow Reservoir Flood Map Wet/Dry

DRAWING STATUS
Final for DCO Examination - submitted at Deadline 7

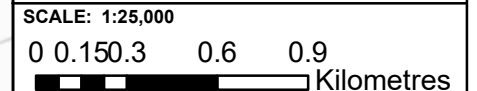
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DRAWING NUMBER
EN070007-APP-ES-18.4.17





- Key:**
- Newbuild Infrastructure Boundary
 - Indicative alignment of the Ince AGI to Stanlow AGI Pipeline
 - Indicative alignment of the Stanlow AGI To Flint AGI Pipeline
 - Mollington BVS (Indicative Location)
 - Rock Bank BVS (Indicative Location)
 - Reservoir Flood Extents Wet Day
 - Reservoir Flood Extents Dry Day



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PROJECT TITLE
HyNet Carbon Dioxide Pipeline DCO

DRAWING TITLE
Figure 18.4.18
Rock Bank Reservoir Flood Map -
Knolls Bridge Wet/Dry

DRAWING STATUS
Final for DCO Examination - submitted at Deadline 7

DRAWN VA	CHECKED JH	APPROVED EI	AUTHORISED MT
SCALE @ A3 SIZE 1:25,000		DATE 21/08/2023	REVISION C

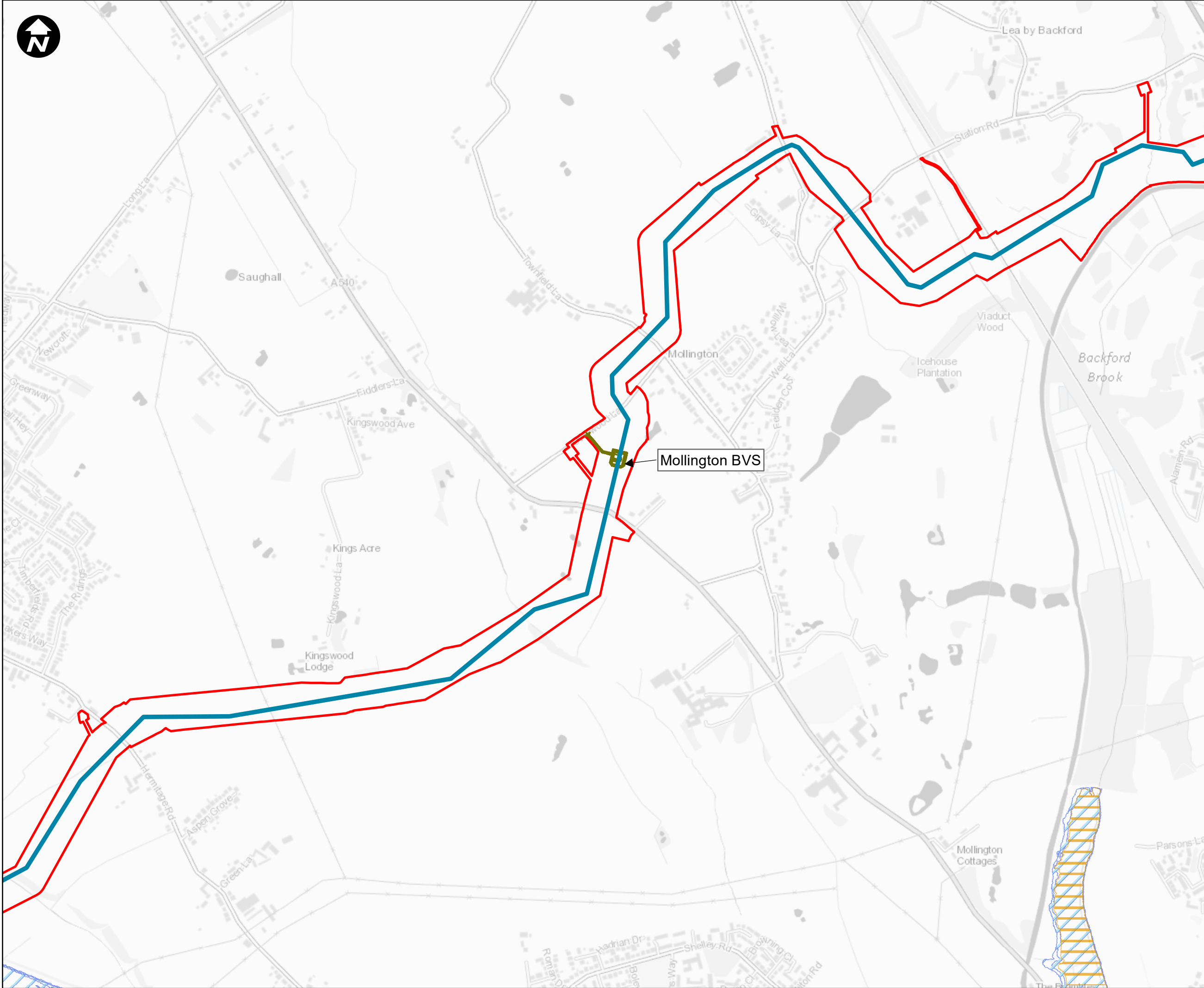
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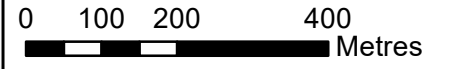
Key:

- Newbuild Infrastructure Boundary
- Indicative alignment of the Stanlow AGI To Flint AGI Pipeline
- Mollington BVS (Indicative Location)
- Reservoir Flood Extents Dry Day
- Reservoir Flood Extents Wet Day



Mollington BVS

SCALE: 1:10,000



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HyNet North West

PROJECT TITLE
HyNet Carbon Dioxide Pipeline DCO

DRAWING TITLE
 Figure 18.4.19
 Mollington Reservoir Flood Map - Knolls Bridge Wet/Dry

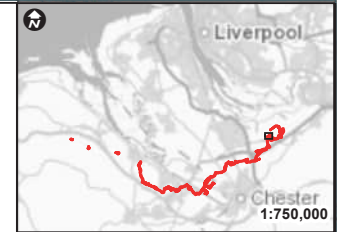
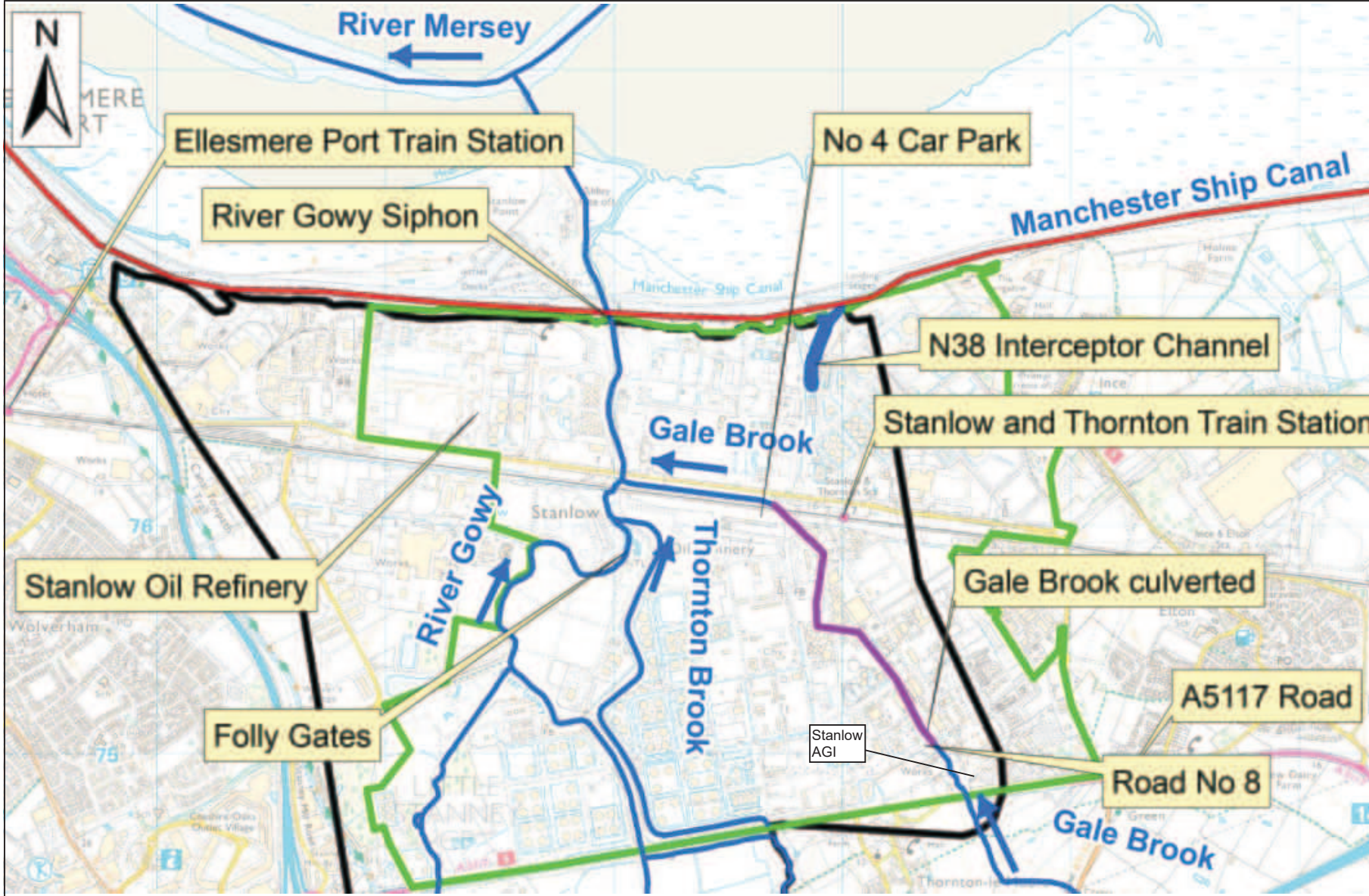
DRAWING STATUS
 Final for DCO Examination - submitted at Deadline 7

DRAWN VA	CHECKED JH	APPROVED EI	AUTHORISED MT
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SCALE @ A3 SIZE 1:10,000	DATE 21/08/2023	REVISION C
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DRAWING NUMBER
 EN070007-APP-ES-18.4.19

Annex I



- Legend**
- Culvert
 - Main River
 - Manchester Ship Canal (MSC)
 - Stanlow Oil Refinery - Site Boundary
 - Stanlow Model Boundary

Note: This drawing is from the study "Stanlow and Tranmere Hydraulic Modelling Report" Figure 1-3: Stanlow Study Area. The study was undertaken by Jacobs on behalf of the Environment Agency in 2019.

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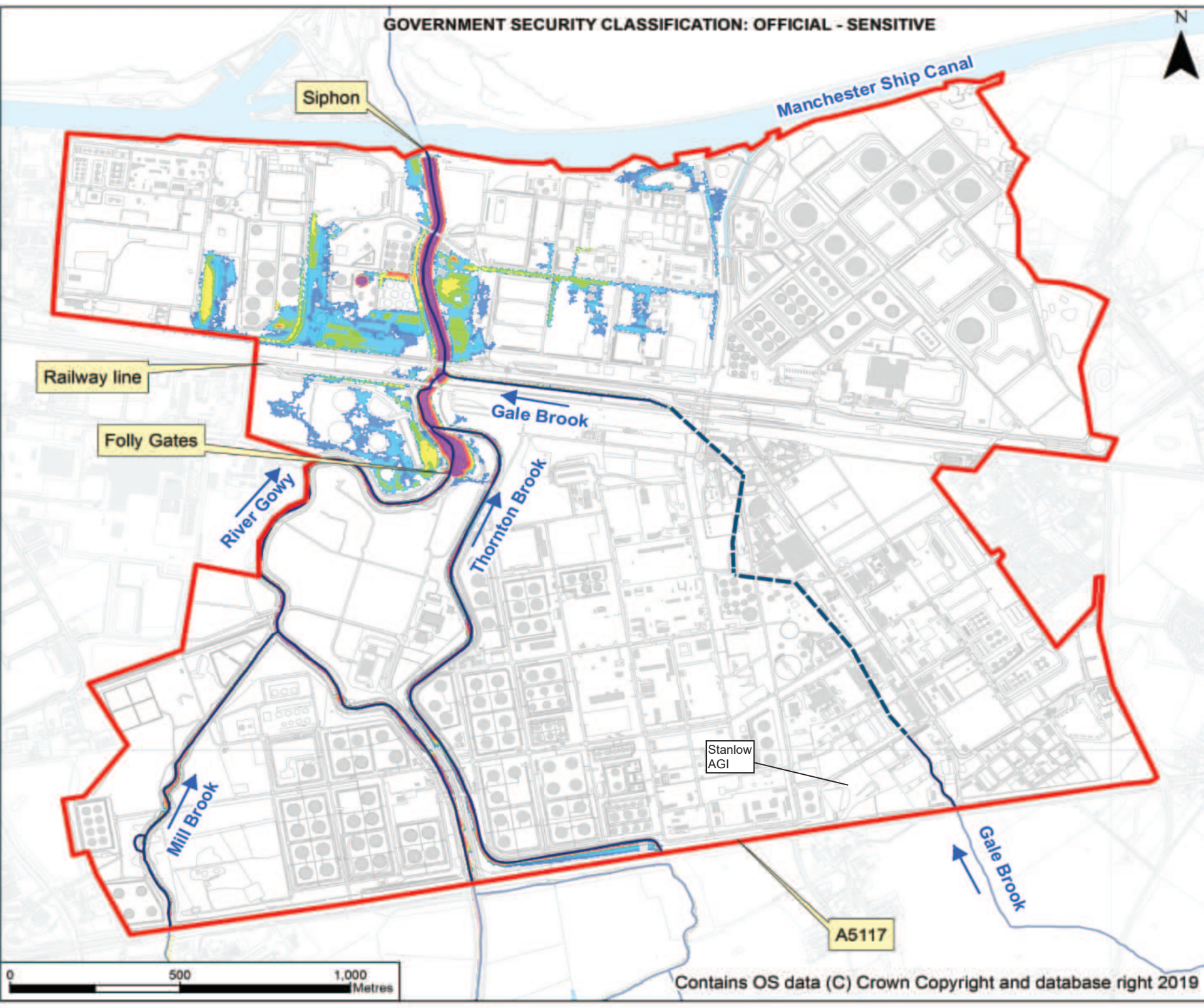
HyNet North West

PROJECT TITLE
HyNet Carbon Dioxide Pipeline

DRAWING TITLE
Figure 18.4.20 - Stanlow Study Area - Stanlow AGI Sheet 1

DRAWING STATUS
FOR DESIGN CHANGE REQUEST 1

DESIGN	CHECKED	APPROVED	AUTHORISED
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SCALE @ A1 SIZE	DATE	REVISION	
1:25,000	22/03/2023	B	



Legend

Maximum Flood Depth (m)

- <0.1
- 0.1-0.3
- 0.3-0.5
- 0.5-0.8
- 0.8-1.0
- 1.0-2.0
- >2.0

Key Features

- Stanlow Oil Refinery - Site Boundary
- Culverted Watercourse
- Open Watercourse

Note: This drawing is from the study "Stanlow and Tranmere Hydraulic Modelling Report" Drawing number ENVIMNW000998-JAC-0-00-MP-HY-0059. The study was undertaken by Jacobs on behalf of the Environment Agency in 2019.

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HyNet North West

PROJECT TITLE
HyNet Carbon Dioxide Pipeline

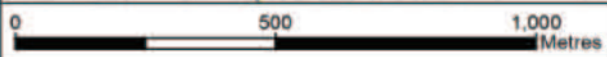
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Figure 18.4.20 - Stanlow Tidal Flooding MSC Breach Scenario 1 in 200 yr Stanlow AGI - Sheet 2

DRAWING STATUS
FOR DESIGN CHANGE REQUEST 1

TEAM	CHECKED	APPROVED	AUTHORIZED
GS	EI	EI	MT

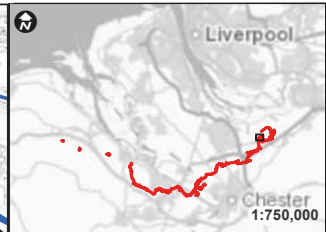
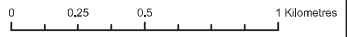
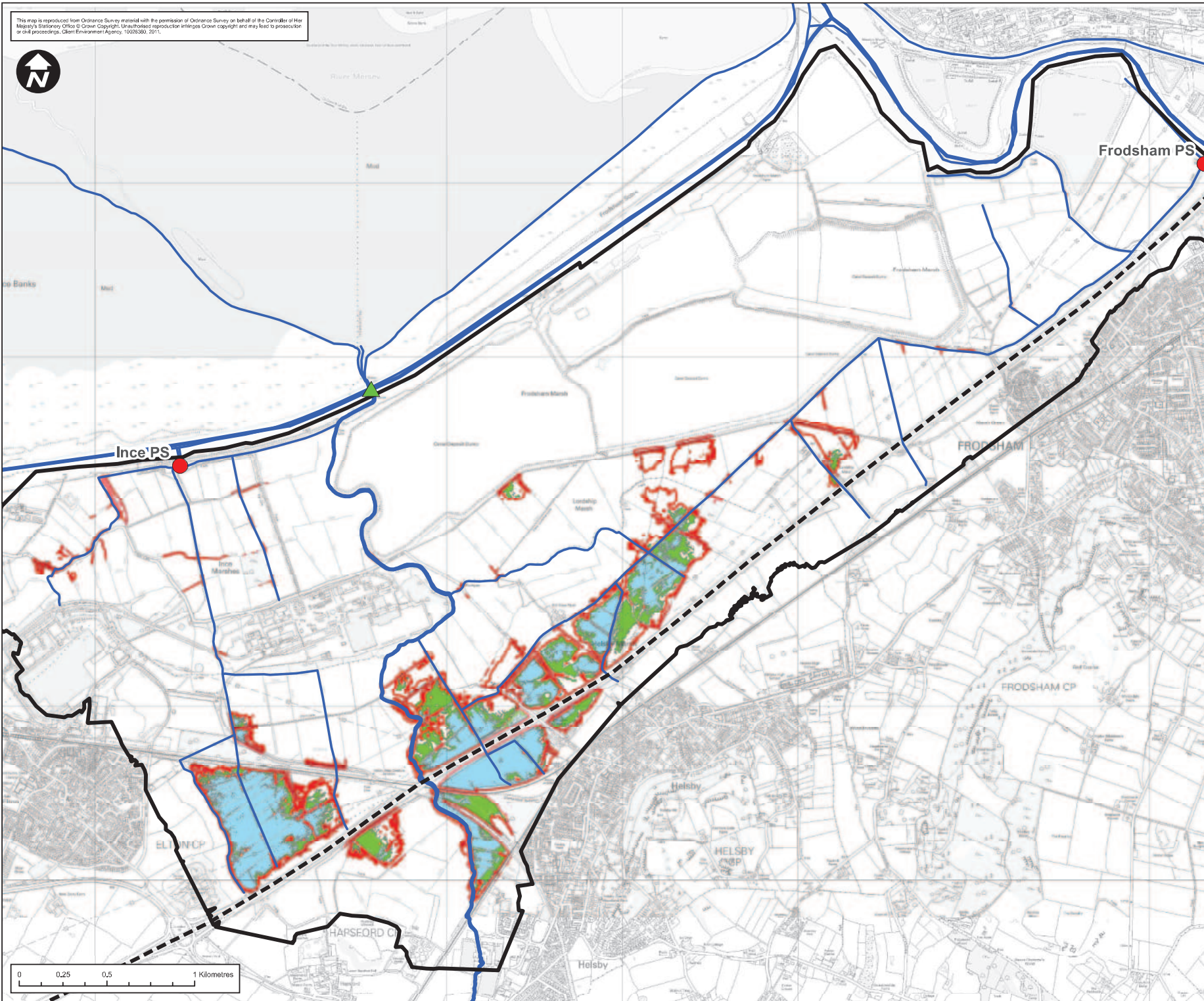
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DRAWING NUMBER
EN070007-APP-ES-18.4.20 - Sheet 2



Annex J

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- Legend**
- Study area
 - River centreline
 - M56 motorway
 - Pumping Stations**
 - ON
 - OFF
 - Hoolpool Gutter siphon
 - Do Minimum - 1 in 2yr
 - Do Minimum - 1 in 10yr
 - Do Minimum - 1 in 100yr

Note: This drawing is taken by the study "Ince and Frodsham Marshes Maintenance Strategic Study" Figure A.6.2 rev 2. The study was undertaken by Halcrow on behalf of the Environment Agency in 2011.

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HyNet North West

PROJECT TITLE
HyNet Carbon Dioxide Pipeline

DRAWING TITLE
Figure 18.4.21 - Flood Extent Do Minimum Scenario - Sheet 1

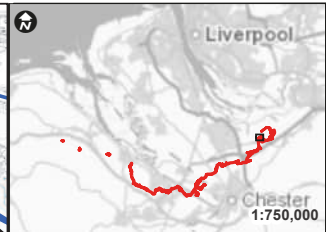
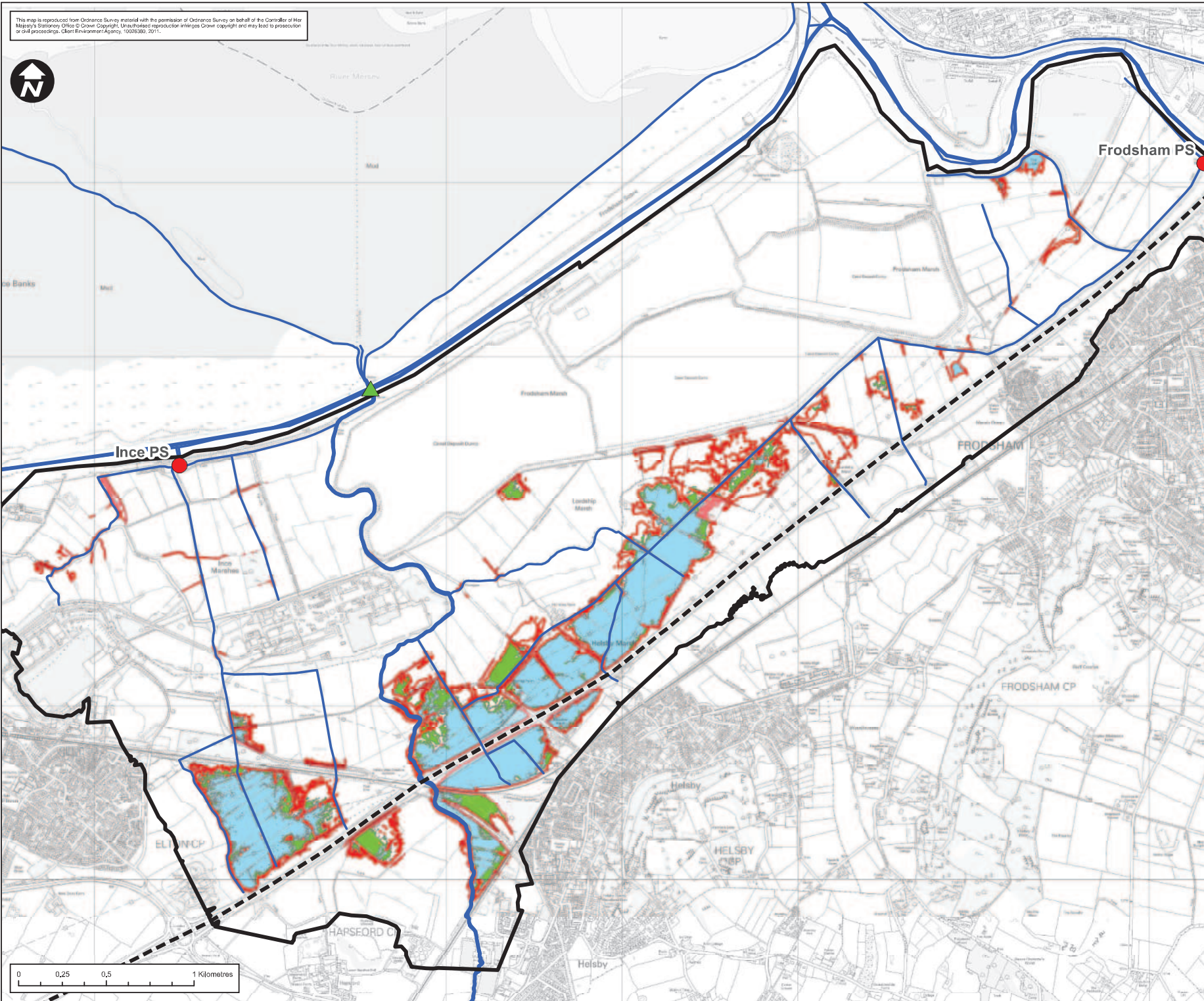
DRAWING STATUS
FOR DESIGN CHANGE REQUEST 1

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SCALE @ A3 SIZE 1:20,000	DATE 21/03/2023	B
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DRAWING NUMBER
EN070007-APP-ES-18.4.21-Sheet 1

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Legend

- Study area
- River centreline
- M56 motorway

Pumping Stations

- ON
- OFF
- Hoolpool Gutter siphon
- Pump at Ince Only - 1 in 2yr
- Pump at Ince Only - 1 in 10yr
- Pump at Ince Only - 1 in 100yr

Note: This drawing is taken by the study "Ince and Frodsham Marshes Maintenance Strategic Study" Figure A.6.2 rev 2. The study was undertaken by Halcrow on behalf of the Environment Agency in 2011.

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HyNet North West

PROJECT TITLE
HyNet Carbon Dioxide Pipeline

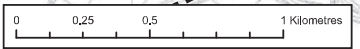
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Figure 18.4.21 - Flood Extent
Pump At Ince Only - Sheet 2

DRAWING STATUS
FOR DESIGN CHANGE REQUEST 1

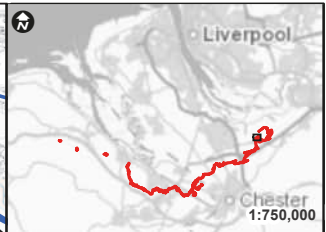
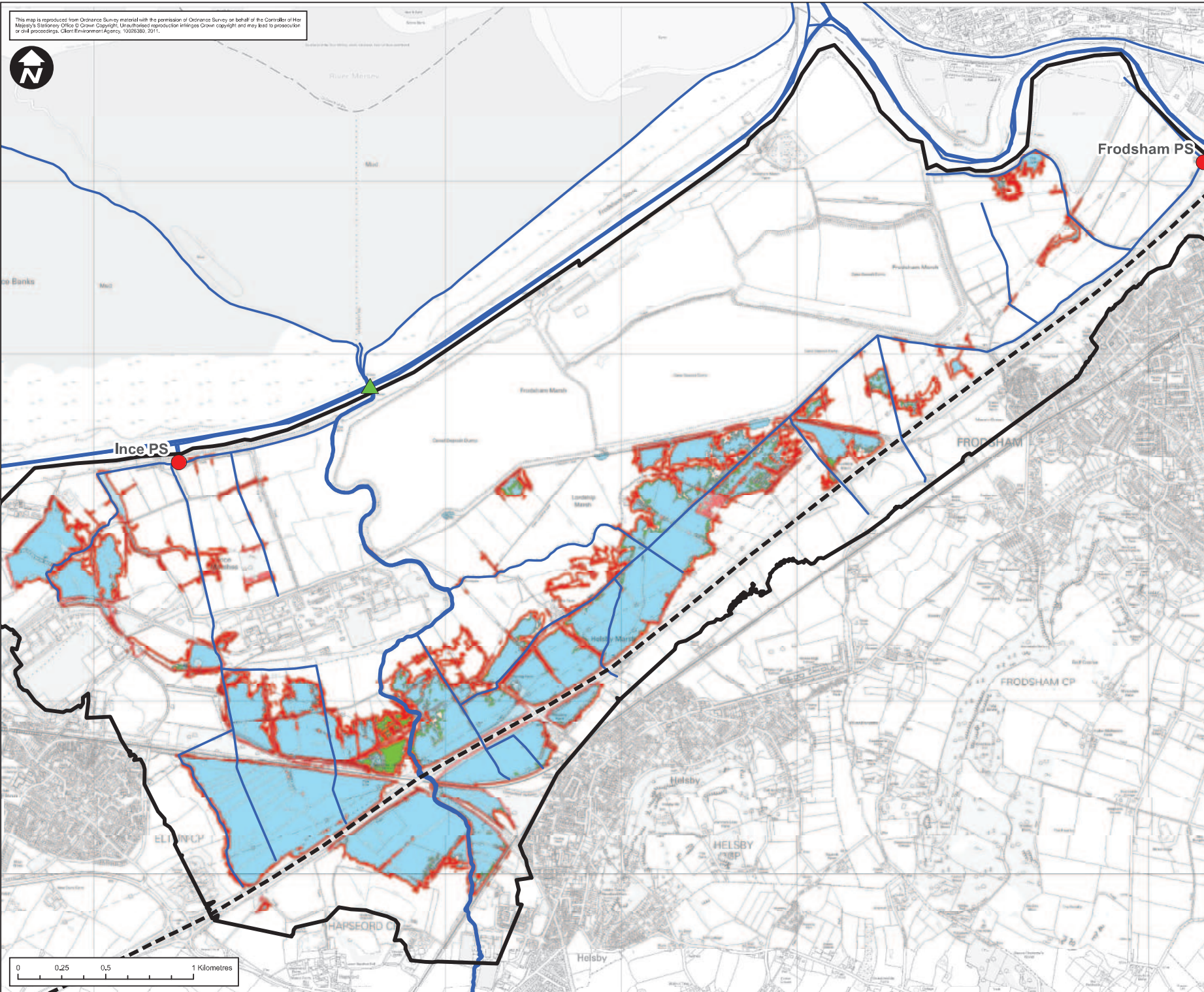
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DRAWING NUMBER
EN070007-APP-ES-18.4.21-Sheet 2



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- Legend**
- Study area
 - River centreline
 - M56 motorway
 - Pumping Stations**
 - ON
 - OFF
 - Hootpool Gutter siphon
 - Do Nothing - 1 in 2yr
 - Do Nothing - 1 in 10yr
 - Do Nothing - 1 in 100yr

Note: This drawing is taken by the study "Ince and Frodsham Marshes Maintenance Strategic Study" Figure A.6.2 rev 2. The study was undertaken by Halcrow on behalf of the Environment Agency in 2011.

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HyNet North West

PROJECT TITLE
HyNet Carbon Dioxide Pipeline

DRAWING TITLE
Figure 18.4.21 - Flood Extent Do Nothing Scenario - Sheet 3

DRAWING STATUS
FOR DESIGN CHANGE REQUEST 1

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GS	EI	EI	MT
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1:20,000		21/03/2023	B

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EN070007-APP-ES-18.4.21-Sheet 3

