

# H2Teesside Project

Planning Inspectorate Reference: EN070009

Land within the boroughs of Redcar and Cleveland and Stockton-on-Tees, Teesside and within the borough of Hartlepool, County Durham

The H2 Teesside Order

Document Reference: 8.25.1 Response to ExQ2.1 General and Cross Topic

Planning Act 2008



**Applicant: H2 Teesside Ltd**

Date: December 2024

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## DOCUMENT HISTORY

<b>DOCUMENT REF</b>	<b>8.25.1</b>		
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<b>SIGNED</b>	MS	<b>DATE</b>	18.12.24
<b>DOCUMENT OWNER</b>	DWD		

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## **1.0 INTRODUCTION**

### **1.1 Overview**

1.1.1 This document has been prepared on behalf of H2 Teesside Limited (the 'Applicant'). It relates to an application (the 'Application') for a Development Consent Order (a 'DCO'), that was submitted to the Secretary of State for Energy Security and Net Zero ('DESNZ') on 25 March 2024, under Section 37 of 'The Planning Act 2008' (the 'PA 2008') in respect of the H2Teesside Project (the 'Proposed Development').

1.1.2 The Application has been accepted for examination. The Examination commenced on 29 August 2024.

### **1.2 The Purpose and Structure of this document**

1.2.1 The purpose of this document is to set out the Applicant's responses to the Examining Authority's ExQ2.1 on General and Cross Topic, which were issued on 28 November 2024 [PD-015]. This document contains a table which includes the reference number for each relevant question, the ExA's comments and questions and the Applicant's responses to each of those questions.



**Table 1-1: Applicant's Responses to ExQ2.1 General and Cross Topic**

EXQ2	QUESTION TO:	QUESTION:	RESPONSE
Q2.1.1	Applicant	Despite the Planning Inspectorate's Case Team previously raising concerns regarding searchable/accessible PDF Documents, the Examining Authority (ExA) notes the Applicant continues to submit documents which do not meet this criteria. The Applicant is therefore instructed to review all the most up to date revisions of all of its documents submitted to date, ensuring they are both searchable/ accessible PDF documents. When such documents are identified, the Applicant is required to provide a list of to the ExA of those documents, which includes the document title and the Planning Inspectorate Examination Library reference numbers. The Applicant is also required to submit replacements for those identified documents ensuring that they, and all future PDF Documents submitted into the Examination, are both searchable/ accessible.	<p>The Applicant has reviewed the most recent versions of all of its documents and identified that the following documents were not in a searchable pdf format.</p> <ul style="list-style-type: none"> <li>• Document Ref. 5.1 Consultation Report (May 2024) [AS-015]</li> <li>• Document Ref. 8.11.6 Response to ExQ1 Compulsory Acquisition [REP2-024] Document Ref. 8.11.15 Response to ExQ1 Surface Water Flood Risk and Water Resources[REP2-033]</li> <li>• Document Ref. 8.17 Applicant's Response to Deadline 2 Submissions [REP3-006]</li> <li>• Document Ref. 8.20 Applicant's Response to Deadline 3 Submission [REP4-013]</li> </ul> <p>These have been provided to PINS under separate cover.</p> <p>Further checks are being put in place to ensure the documents for future submissions are searchable/accessible.</p>
Q2.1.2	Applicant	The Applicant's documents variously refer to the HyGreen Project, a planning application submitted to Redcar & Cleveland Borough Council (RCBC) on 22 April 2024, reference R/2024/0271/ESM. Please can the Applicant confirm the current status of the HyGreen project and if there are any proposed changes to that planning application which may be important and relevant to the application for the Proposed Development.	<p>It is the Applicant's understanding that this planning application was validated on 22<sup>nd</sup> April 2024 and a decision is due in December 2024.</p> <p>The Applicant has not discussed any changes with representatives of the HyGreen Teesside project and no changes have been submitted to the RCBC planning portal in respect of the project. .</p>
Q2.1.3	RCBC	The HyGreen Project, referred to above, was submitted to RCBC as a formal planning application on 22 April 2024, under RCBC reference R/2024/0271/ESM. Please confirm the current status of this Application, including the stage in the planning process it has reached (ie validation, consultation, consideration, report writing (delegated or relevant Council committee), resolution, determination, Etc.). In the event the HyGreen application has been determined, please enter a copy of the decision into the Examination, together with any publicly available reports, including any minutes if reported to committee. Also please advise of any legal or other agreements being sought or entered into with the Applicant in regard to this Planning Application and enter a copy of such documents into the Examination if they have been completed.	N/A
Q2.1.4	Applicant and RCBC	Please submit to the Examination details of the Order limits for the HyGreen planning application referred to in the above questions. Please also submit any plans which show the proposed boundary of the main site for the HyGreen project if contained within the planning application.	The Applicant has produced the requested plan, appended to this document as <b>Appendix 1</b> .

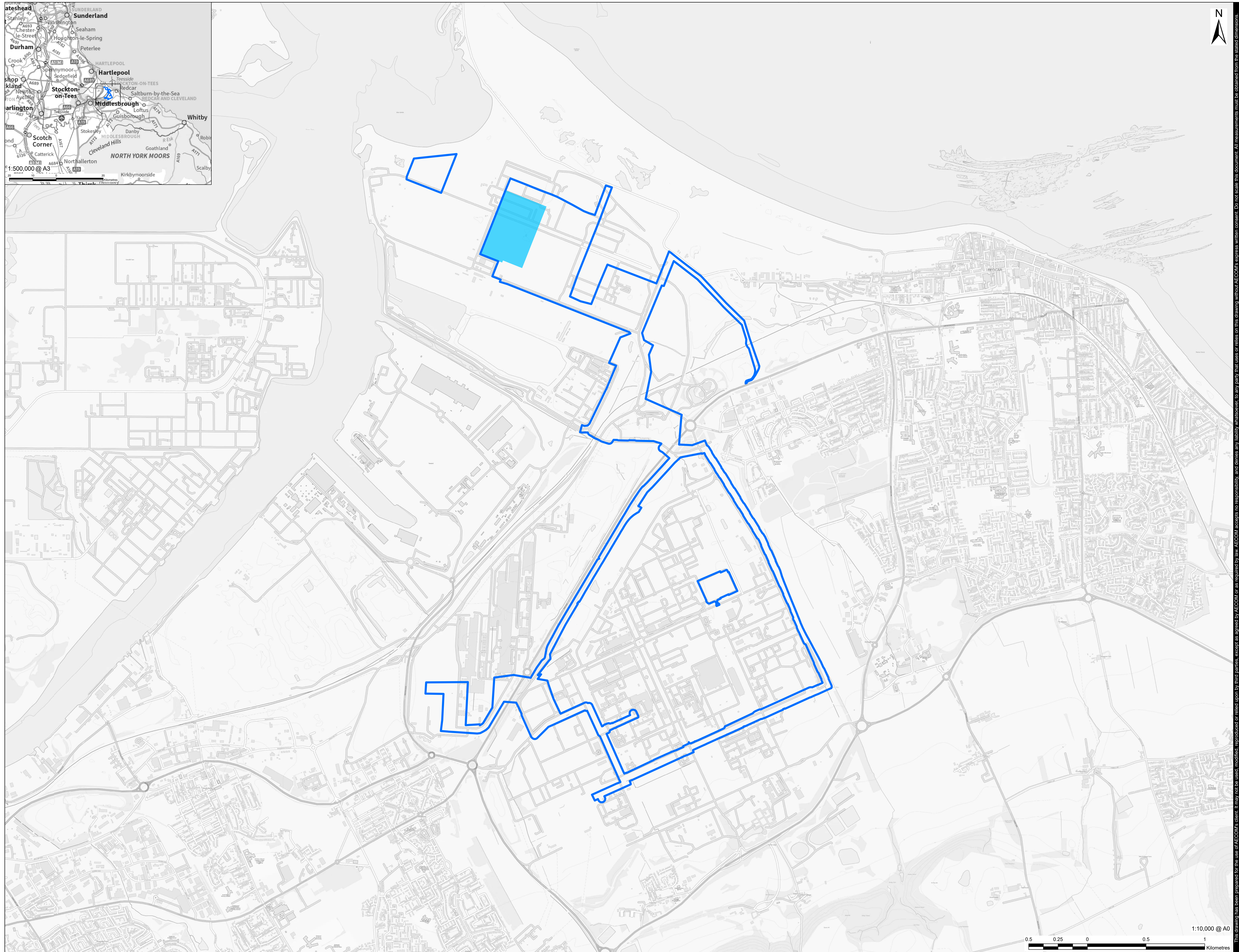
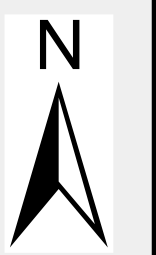
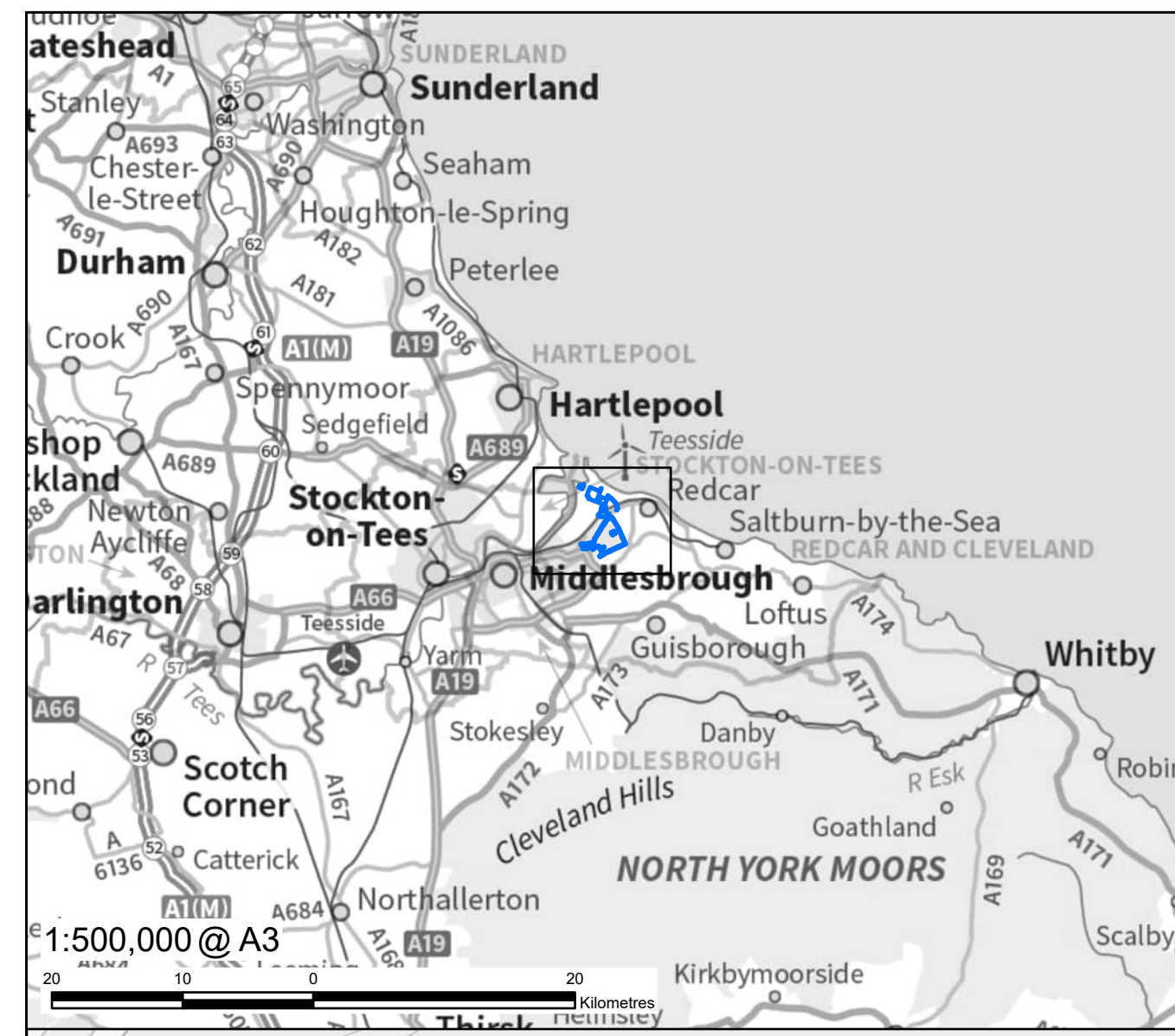
EXQ2	QUESTION TO:	QUESTION:	RESPONSE
Q2.1.5	Applicant	<p>In terms of the interrelationship between the Proposed Development and the HyGreen project, please provide:</p> <ul style="list-style-type: none"> <li>i) a plan at 1:2500 scale (ie the same scale as per the Works Plans) of the main site for H2Teesside with the main site for HyGreen shown in the same level of detail as contained within the planning application for HyGreen, this plan should include indicative boundaries for both projects.</li> <li>ii) a version of the Indicative Hydrogen Production Facility and Above Ground Installation (AGI) Plans, which includes the HyGreen main site, which should include the boundaries referred to in part i) of this question.</li> </ul>	<p>The Applicant has produced the requested plans, appended to this document as <b>Appendix 2A</b> and <b>Appendix 2B</b> in response to part i and ii of this question respectively.</p>
Q2.1.6	Applicant	<p>Please provide a copy of the following plans excluding the main site area (up to the indicative boundaries) of the HyGreen project, if it were to be consented as presented to RCBC:</p> <ul style="list-style-type: none"> <li>i) Integrated Works Plan, sheet 8 of 11, and</li> <li>ii) the Indicative Hydrogen Production Facility and AGI Plans, drawing 2 of 5.</li> </ul>	<p>The requested amendments to the Integrated Work Plans and the Indicative Hydrogen Production Facility and AGI Plans have been made by the Applicant, appended to this document as <b>Appendix 3A</b> and <b>Appendix 3B</b> in response to part i and ii of this question respectively.</p>
Q2.1.7	Applicant	<p>Paragraph 3.3.3 of the Interrelation Report [REP2-038] states that the exact location of Work No. 1A.2 (Phase 2) is subject to “...favourable ground investigation results; satisfactory completion of demolition and remediation works; and compliance with applicable legislation, regulations, national and international design standards with regards to separation distances...” and that this work will not be completed prior to the end of the Examination.</p> <ul style="list-style-type: none"> <li>i. Has there been ground investigation reports to confirm favourable conditions for Phase 1 to allow the location of this to be finalised.</li> <li>ii. At Accompanied Site Inspection 1, the ExA evidenced the demolition and remediation work at the Foundry site. Please explain what differentiates ground conditions between the location of Phase 1 and the potential locations for Phase 2 and why it is possible to conclude the location of Phase 1 but not Phase 2, which is not anticipated to commence until 2028.</li> <li>iii. Please explain what could constitute a failure of ‘satisfactory completion of demolition and remedial works’ being delivered through an approved planning application and associated conditions.</li> <li>iv. Please explain if the ‘legislation, regulations, national and international design standards with regards to separation distances’ are published and known, and if so why they cannot be used to assess where Phase 2 can be accommodated. Please further explain how it can be certain that Phase 2 can be accommodated within the Order limits, with or without the construction of the HyGreen project if there is uncertainty about design standards.</li> </ul>	<ul style="list-style-type: none"> <li>i. Ground investigation to confirm favourable ground conditions has been completed on the Phase 1 area to allow the location of this to be finalised.</li> <li>ii. As can be seen on the historical basemap to the works plans (AS-005) the majority of the Phase 1 area (and the potential Phase 2 area immediately to the West) was historically used for laydown of materials for steel manufacture, including ore and coal, and has limited structures and foundations. The area on the northern edge of the Phase 1 area includes the location of the former power station, however, this is only part of the total area.  Again, as can be seen on the historical basemap of the works plans (AS-005), the ground further to the north and east was the location of the Redcar blast furnace, coke ovens, sizeable slag pits and other significant facilities for the manufacture of steel. These are associated with significant foundations and below ground features, and additionally potential ground contamination. Further ground investigation once demolition of existing facilities is completed will confirm the ground conditions and inform the level of groundworks required across this northern area.</li> <li>iii. Across the northern part of the potential Phase 2 area there are significant relic structures present including for example, the base of the Redcar blast furnace. These need to be removed to enable demolition of structures at and below ground level, and remediation. Satisfactory completion means successful removal of these features and consequential remediation to facilitate development Phase 2 of the Proposed Development.</li> </ul>

EXQ2	QUESTION TO:	QUESTION:	RESPONSE
			<p>iv. The standards and legislation are known, however the design of Phase 1 is not finalised and so the exact location of Phase 2 can not be finalised to account for a safe distance between them. This also applies to the NZT development to the east. Furthermore, safe separation distances will need to account for whether Hygreen is brought forward or not.</p> <p>It is known that Phase 2 can be accommodated within the Order limits if the HyGreen Teesside project goes ahead as there is sufficient room for the required separation distances.</p>
Q2.1.8	South Tees Group (STG)	<p>Please provide details of:</p> <ul style="list-style-type: none"> <li>i) the planned completion date for the remediation of The Foundry site;</li> <li>ii) how the remediation contract is required to, or will, meet the requirements of the Proposed Development;</li> <li>iii) if and how the requirements of the remediation on the main site of the Proposed Development differs to the requirements for the Net Zero Teesside (NZT) main site, which is close to completion;</li> <li>iv) the proposed completion date for the removal of the foundry core, which was viewed by the ExA at the Accompanied Site Inspection 1; and</li> <li>v) any differences in specification for the remediation works across the Foundry site, specifically the areas identified for NZT, Phase 1 and 2 of the Proposed Development and the main site for the HyGreen Project.</li> </ul>	N/A
Q2.1.9	Applicant	If the proposed HyGreen project were to be consented as per the planning application made to RCBC, as detailed above, please confirm that the Proposed Development could be constructed within the Order limits.	If the proposed HyGreen Teesside project were to be consented as per the planning application made to RCBC, the Proposed Development could still be constructed within the Order Limits. This would mean that the Phase 2 of the Main Site could be located either to the north or northwest of the Phase 1 land in the rest of the area shown as Work 1.A.2.
Q2.1.10	Applicant	Please provide a version of the Integrated Works plans which also shows the indicative locations of all works, e.g. pipelines, cable routes, AIGs etc	The requested amendments to the Integrated Work Plans have been made by the Applicant, appended to this document as <b>Appendix 4</b> .
Q2.1.11	Applicant	Please provide a version of the Integrated Works plans which also shows the indicative locations of all works e.g. the main production facilities, pipelines, cable routes, AIGs etc of the Proposed Development, NZT and HyGreen proposal.	The requested amendments to the Integrated Work Plans have been made by the Applicant, appended to this document as <b>Appendix 5</b> .
Q2.1.12	Applicant	The Indicative Hydrogen Distribution Network Plan, drawing 3 of 16, shows the southernmost part of the Billingham Industrial Park pipeline connecting to New Road without AGI shown. Please explain what will happen to the pipeline which is shown to truncate on the pipe bridge over New Road.	The Hydrogen Distribution Network is proposed to be built to the fenceline of the former Mitsubishi plant to provide decarbonisation opportunities for any future development at this location.

EXQ2	QUESTION TO:	QUESTION:	RESPONSE
Q2.1.13	Kellas Midstream Ltd (Kellas)/ CATS North Sea Ltd (CNSL)	Kellas and CNSL Deadline (DL) 4 submission [REP4-033] is noted. However the ExA would seek clarification in regard to paragraph 2.14 where it states "...Kellas and H2NE are maintaining their objection to the DCO" (Development Consent Order) and would ask whether this should read "Kellas and CNSL"?	N/A

## **APPENDIX 1: PLAN FOR Q2.1.4**

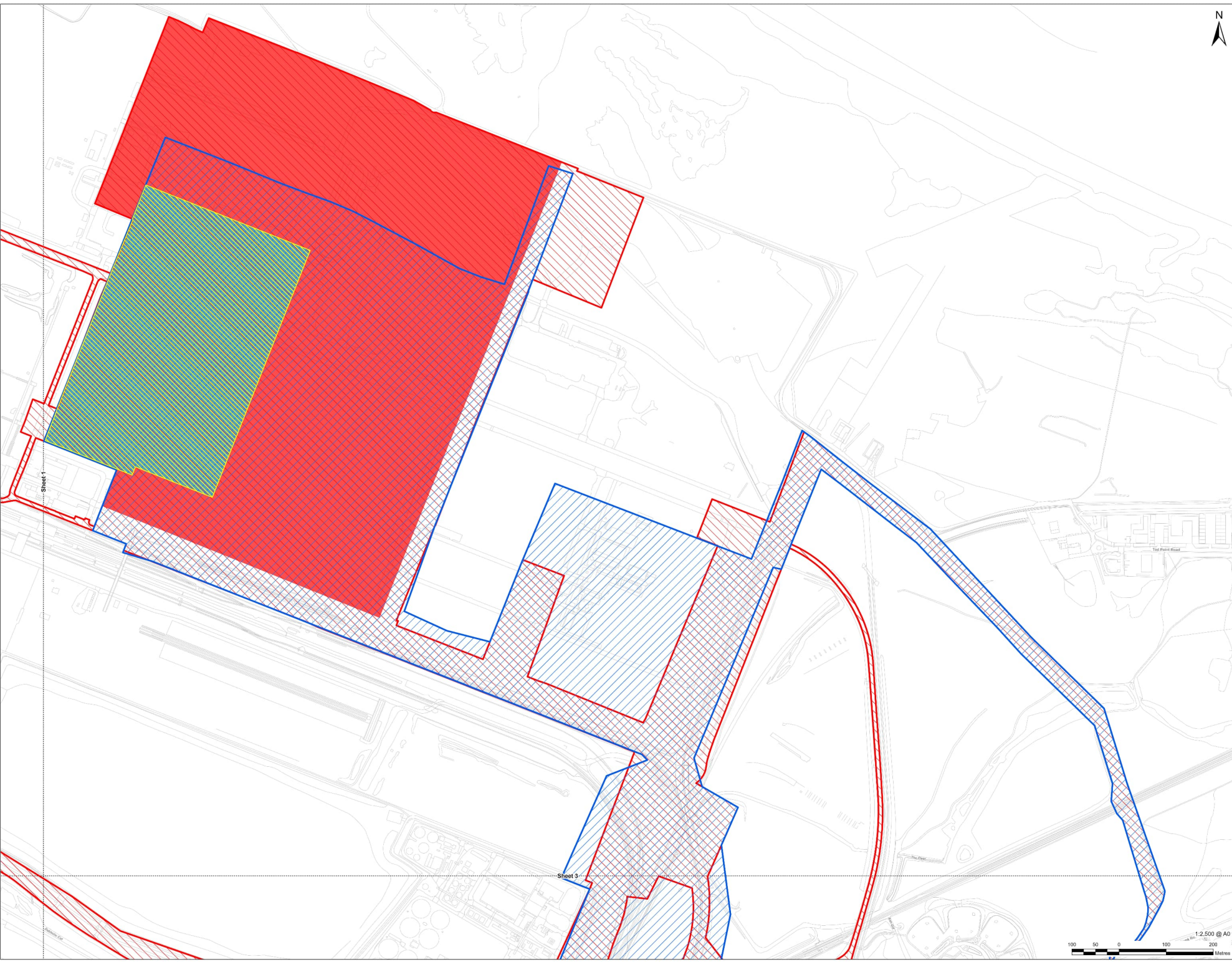




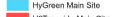



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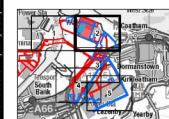
## **APPENDIX 2A: PLAN FOR Q2.1.5 PART i**



LEGEND

	HyGreen Main Site
	H2Teesside Main Site
	HyGreen Proposed Development Site
	H2Teesside Order Limits
	HyGreen Main Site and H2Teesside Main Site - Overlap

Infrastructure Planning  
 (Applications: Prescribed Forms  
 and Procedure) Regulations 2009  
 Regulation 5(2)(o).



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APPLICATION REFERENCE

ISSUE PURPOSE  
 FOR EXAMINATION  
 PROJECT NUMBER  
 60689030  
 DRAWING TITLE  
 Site Location Plan



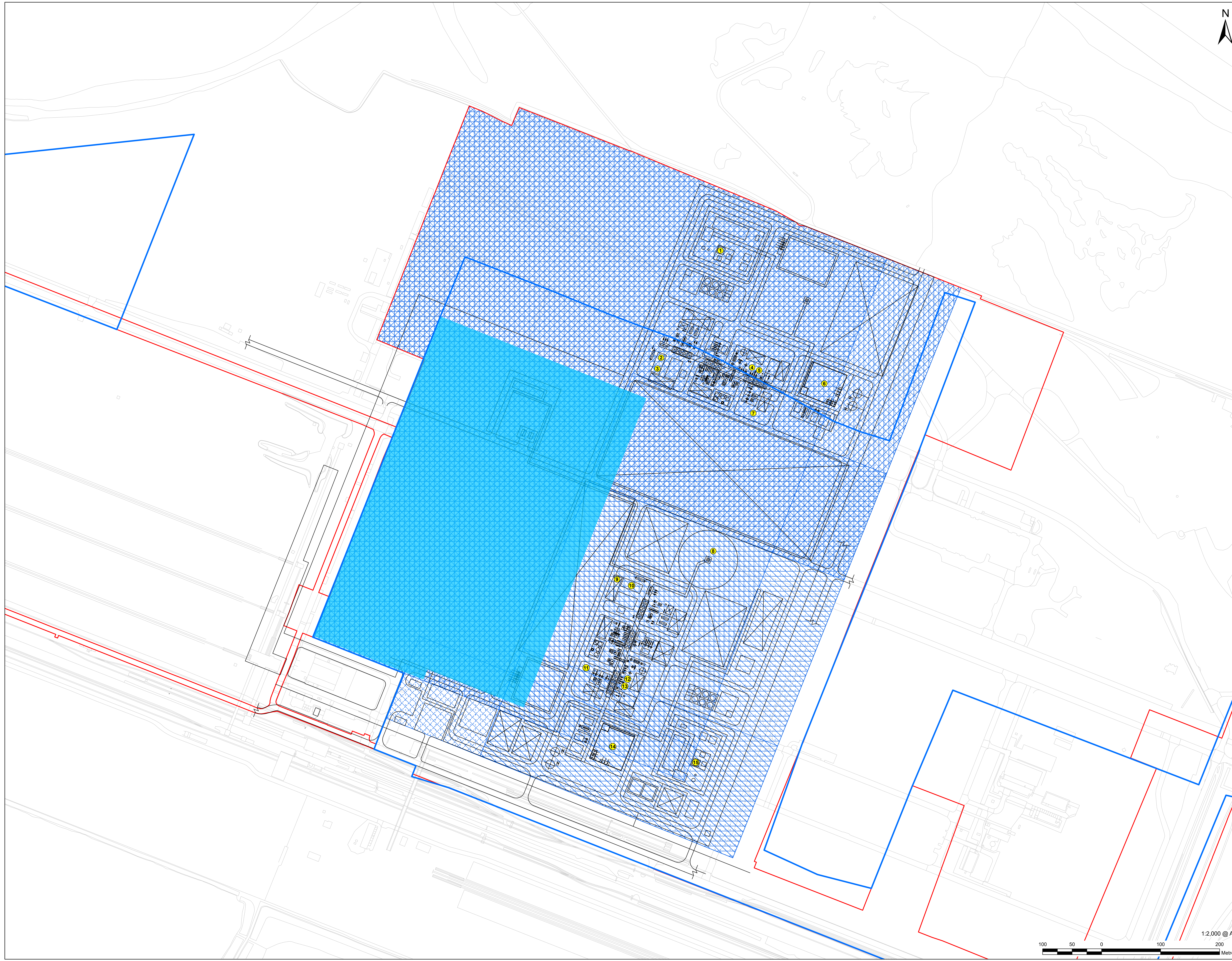
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## **APPENDIX 2B: PLAN FOR Q2.1.5 PART ii**



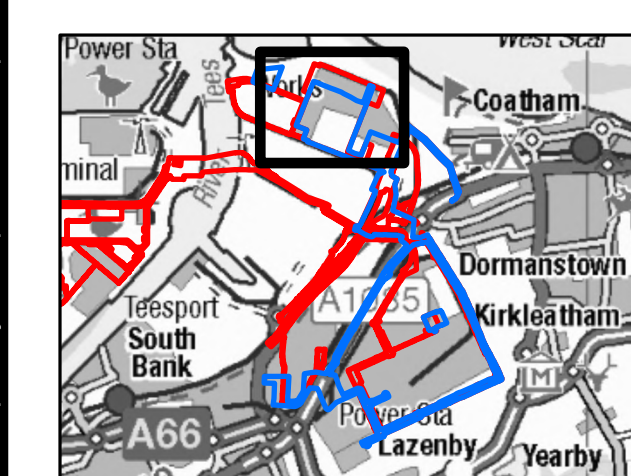


**LEGEND**

-  HyGreen Proposed Development Site
-  HyGreen Main Site
-  H2Teesside Order Limits
-  Work No. 1 - Carbon Capture Enabled Hydrogen Production Facility
-  Work No. 1A.1 - Phase 1 Hydrogen Unit
-  Work No. 1A.2 - Phase 2 Hydrogen Unit
-  Work No. 1B.1 - Water Connections and Effluent Treatment Plant for Work Nos. 1A.1 and 1A.2
-  Work No. 1B.2 - Water Connections and Effluent Treatment Plant for Work No. 1A.2
-  Work No. 1C - Above Ground Pressurised Hydrogen Storage
-  Work No. 1D - Administration, Control Room and Stores
-  Work No. 1E.1 - Connections and Ancillary Works in Connection with Work Nos. 1A.1, 1A.2, 1C and 1D
-  Work No. 1E.2 - Connections and Ancillary Works in Connection with Work No. 1A.2

- 1 Air Separation Unit Cold Box
- 2 Auxiliary Boiler
- 3 Auxiliary Boiler Stack
- 4 High Pressure and Low Pressure Flash Vessels
- 5 CO<sub>2</sub> Absorber Column
- 6 Surface Water Drainage Pond
- 7 Start-up Fired Heater Stack
- 8 Flare Stack
- 9 Auxiliary Boiler Stack
- 10 Auxiliary Boiler
- 11 Start-up Fired Heater Stack
- 12 High Pressure and Low Pressure Flash Vessels
- 13 CO<sub>2</sub> Absorber Column
- 14 Surface Water Drainage Pond
- 15 Air Separation Unit Cold Box

**Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009 Regulation 5(2)(j).**



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**APPLICATION REFERENCE**

**ISSUE PURPOSE**

FOR EXAMINATION

**PROJECT NUMBER**

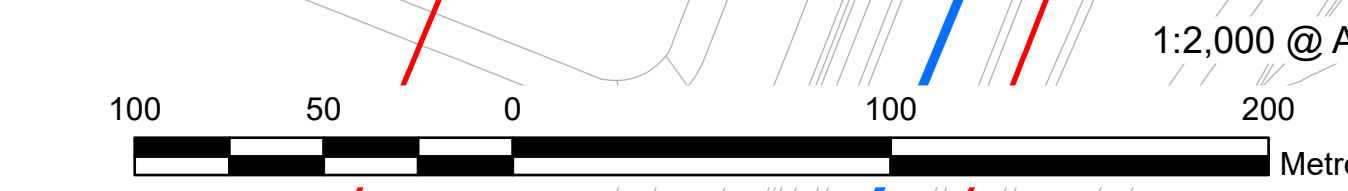
60689030

**DRAWING TITLE**

HyGreen Work Plans Summary

**SHEET NUMBER**

1



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## **APPENDIX 3A: PLAN FOR Q2.1.6 PART i**





APPLICANT

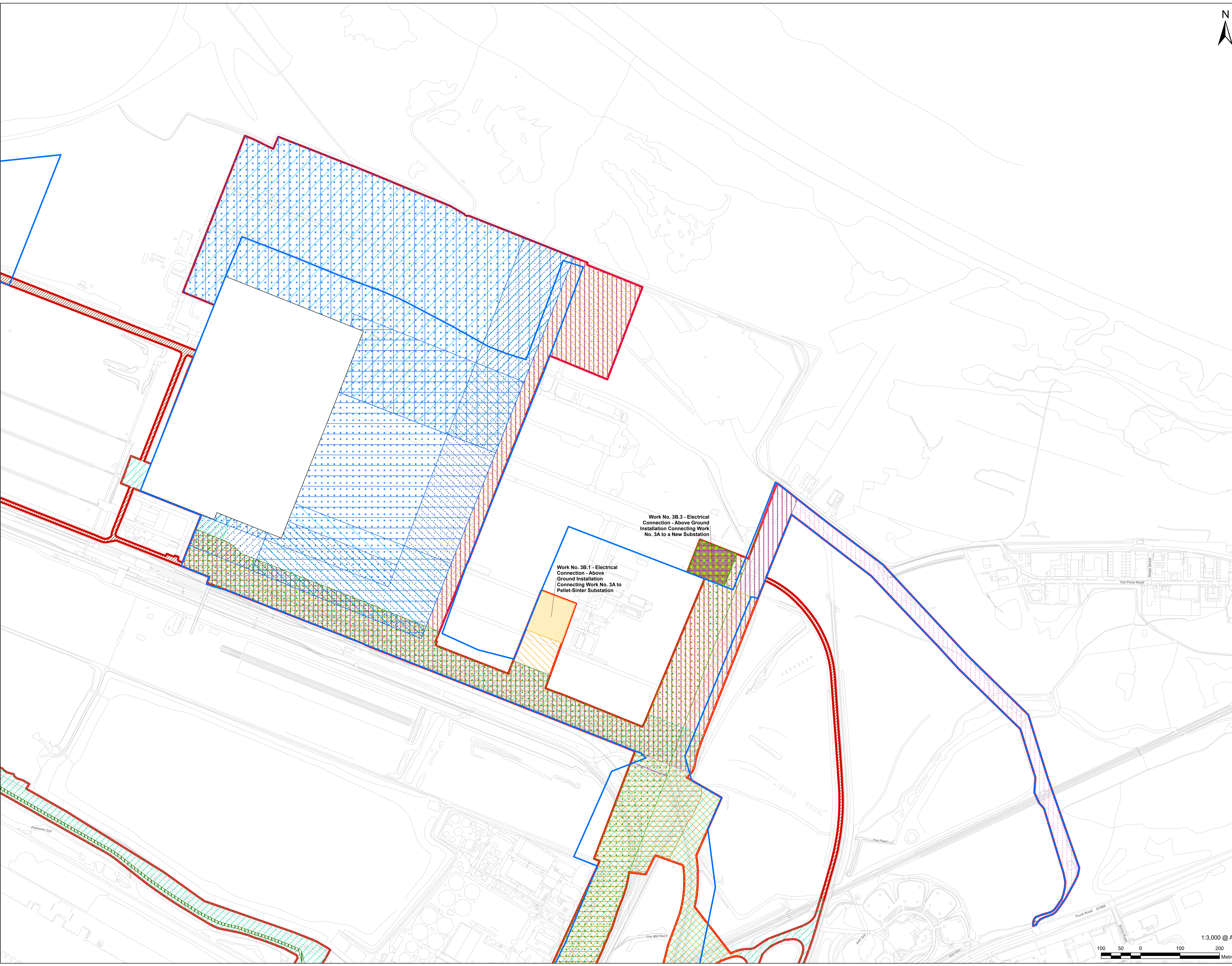


CONSULTANT

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LEGEND

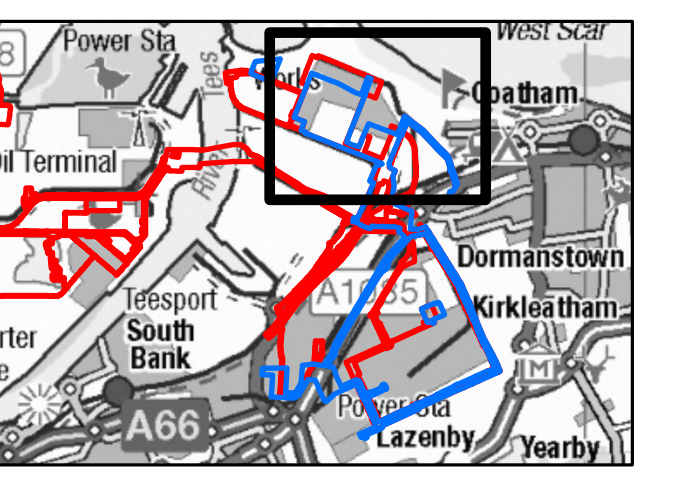
- HyGreen Proposed Development Site
- HyGreen Main Site
- H2Teesside Order Limits
- Extent of Work No. 1
- Work No. 1A.1 - Phase 1 Hydrogen Unit
- Work No. 1A.2 - Phase 2 Hydrogen Unit
- Work No. 1B.1 - Water Connections and Water and Effluent Treatment Plant for Work Nos. 1A.1 and 1A.2
- Work No. 1B.2 - Water Connections and Water and Effluent Treatment Plant for Work No. 1A.2
- Work No. 1C - Above Ground Pressurised Hydrogen Storage
- Work No. 1D - Administration, Control Room and Stores
- Work No. 1E.1 - Connections and Ancillary Works in Connection with Work Nos. 1A.1, 1A.2, 1C and 1D
- Work No. 1E.2 - Connections and Ancillary Works in Connection with Work No. 1A.2
- Work No. 2A - Natural Gas Connection - High Pressure Gas Pipeline
- Work No. 2B - Natural Gas Connection - Above Ground Installation
- Work No. 7A - Carbon Dioxide - Export Pipeline
- Work No. 10A.1 - Access Highway Improvements and Use
- Work No. 3A - Electrical Connection Works
- Work No. 4 - Water Supply Connection Works
- Work No. 5 - Wastewater Disposal Works
- Work No. 6A.1 - Hydrogen Distribution Network - Overground and Underground Pipelines
- Work No. 7B - Carbon Dioxide - Above Ground Installation
- Work No. 8 - Oxygen and Nitrogen Gas Connections
- Work No. 2C - Natural Gas Connection - Re-connected High Pressure Gas Pipeline
- Work No. 3B.1 - Electrical Connection - Above Ground Installation Connecting Work No. 3A to Pellet-Sinter Substation
- Work No. 3B.3 - Electrical Connection - Above Ground Installation Connecting Work No. 3A to a New Substation



Work No. 3B.1 - Electrical Connection - Above Ground Installation Connecting Work No. 3A to Pellet-Sinter Substation

Work No. 3B.3 - Electrical Connection - Above Ground Installation Connecting Work No. 3A to a New Substation

Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009 Regulation 5(2)(j).



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APPLICATION REFERENCE

ISSUE PURPOSE

FOR EXAMINATION

PROJECT NUMBER

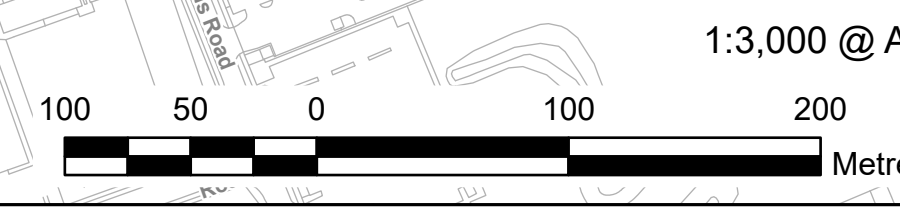
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DRAWING TITLE

HyGreen Work Plans Summary

SHEET NUMBER

1



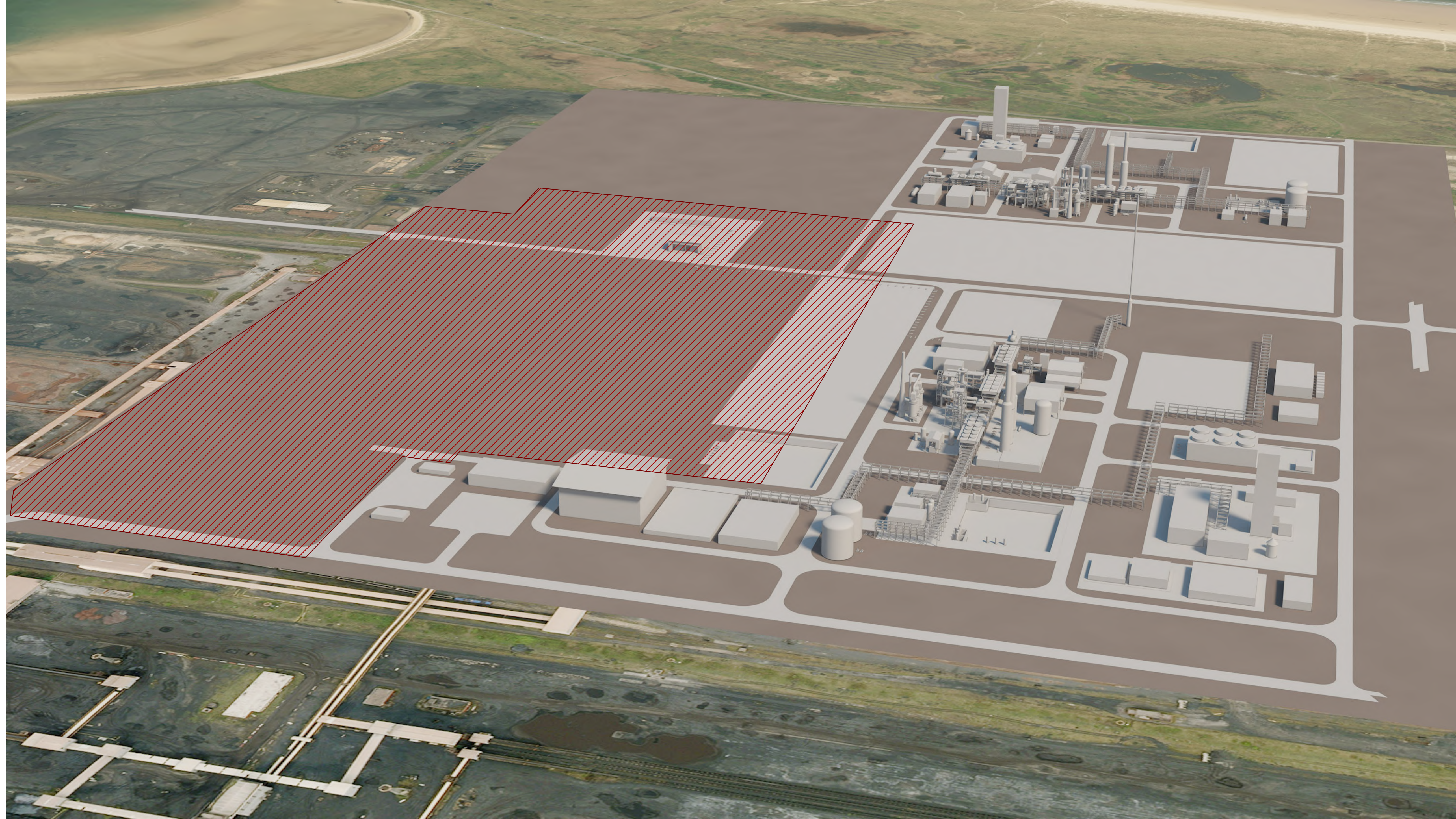
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## **APPENDIX 3B: PLAN FOR Q2.1.6 PART ii**





PROJECT

H2Teesside DCO


APPLICANT



CONSULTANT

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LEGEND

 Excluded Area

**Infrastructure Planning  
 (Applications: Prescribed Forms  
 and Procedure) Regulations 2009  
 Regulation 5(2)(o).**

NOTES

The excluded area represented on this plan is purely indicative.  
 For the original visualisation, please refer to 2.6 Indicative Hydrogen Production Facility and Above Ground Installations Plans [APP-012].  
 This plan has been produced in response to Q2.1.6ii of the ExA's Second Round of Written Questions and presents the requested amendment to drawing 2 of 4 of the Indicative Hydrogen Production Facility and AGI Plans.

APPLICATION REFERENCE

ISSUE PURPOSE

FOR EXAMINATION

PROJECT NUMBER

60689030

DRAWING TITLE

HyGreen Indicative Hydrogen  
 Production Facility and Above Ground  
 Installations Plan

SHEET NUMBER

Sheet 1

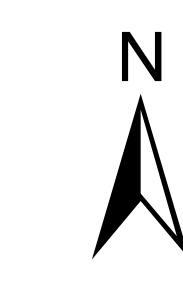
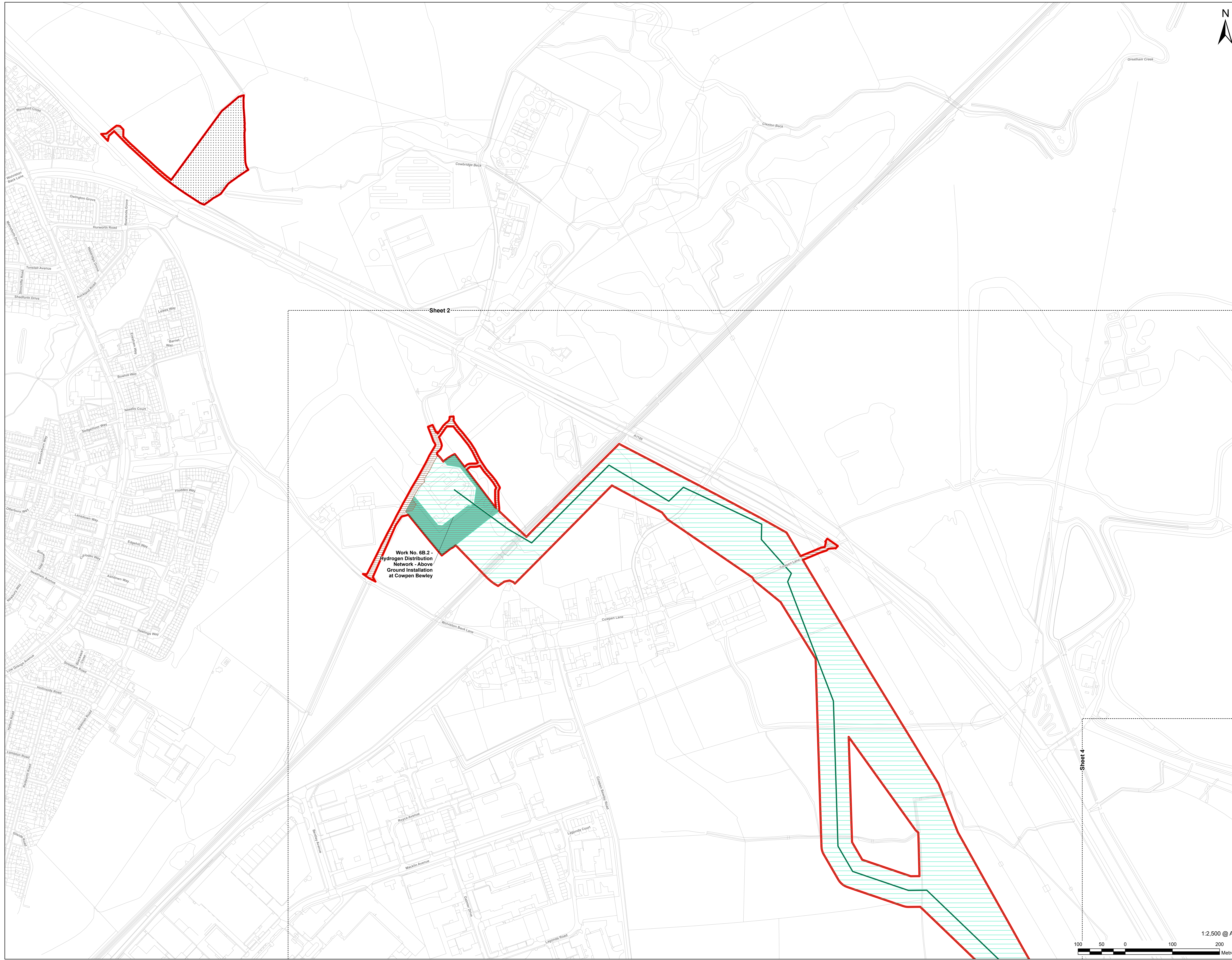
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## **APPENDIX 4: PLAN FOR Q2.1.10**



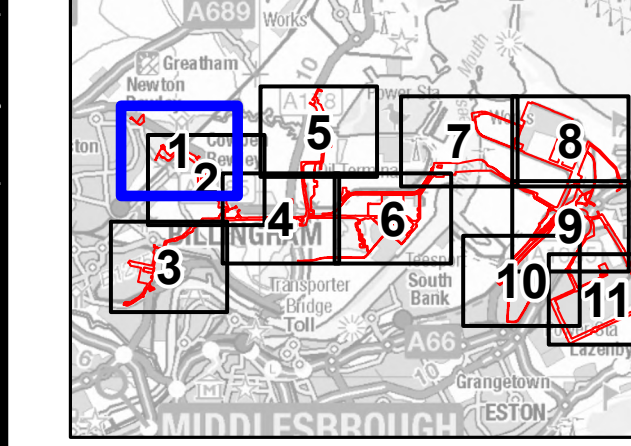


**LEGEND**

- H2Teesside Order Limits
- Detailed Sheet Number
- Indicative Hydrogen Route
- Work No. 6A.2 - Hydrogen Distribution Network - Overground and Underground Pipelines to connect to Work No. 6B.2
- Work No. 6B.2 - Hydrogen Distribution Network - Above Ground Installation at Cowpen Bewley
- Work No. 10A.2 - Access Highway Improvements and Use - Relating to Work Nos. 6A.2 and 6B.2
- Work No. 11 - Replacement Land Relating to Work No. 6A.2 & 6B.2

Work No. 6B.2 - Hydrogen Distribution Network - Above Ground Installation at Cowpen Bewley

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**APPLICATION REFERENCE**

**ISSUE PURPOSE**

FOR EXAMINATION

**PROJECT NUMBER**

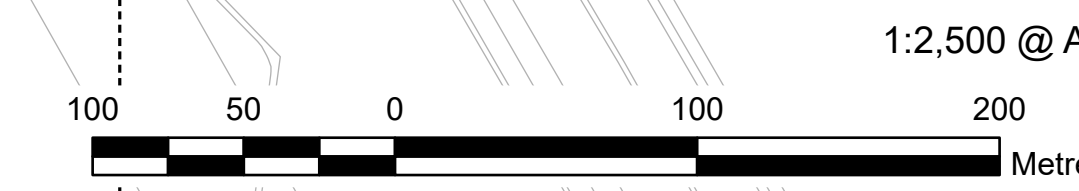
60689030

**DRAWING TITLE**

Work Plans Summary  
Answer to H2Teesside Second  
Written Questions

**SHEET NUMBER**

Sheet 1 of 11



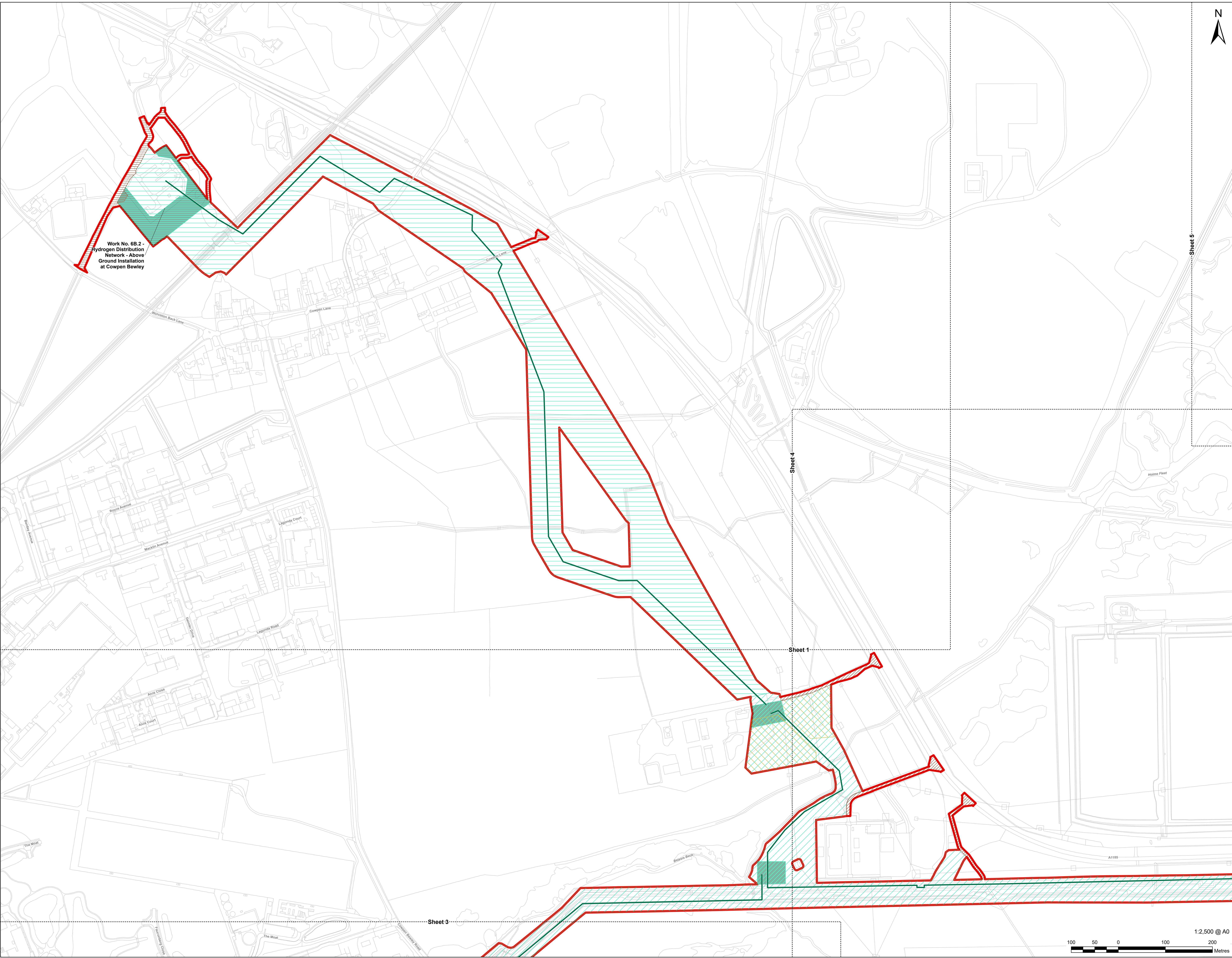
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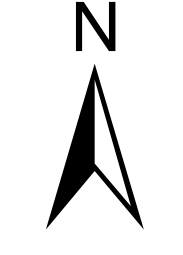


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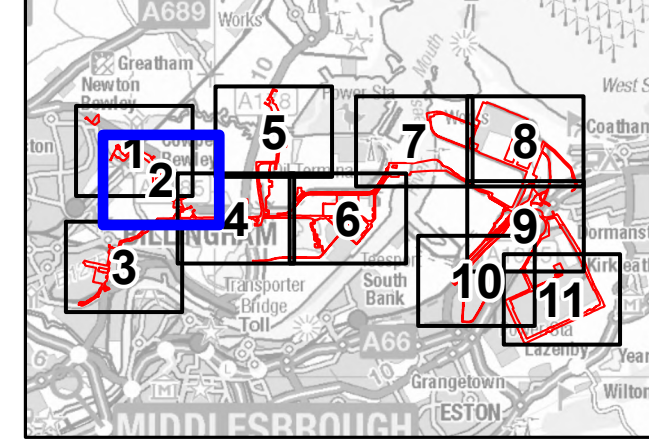
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- Detailed Sheet Number
- Indicative Hydrogen Route
- Work No. 6A.1 - Hydrogen Distribution Network - Overground and Underground Pipelines
- Work No. 6A.2 - Hydrogen Distribution Network - Overground and Underground Pipelines to connect to Work No. 6B.2
- Work No. 6B.1 - Hydrogen Distribution Network - Above Ground Installations
- Work No. 6B.2 - Hydrogen Distribution Network - Above Ground Installation at Cowpen Bewley
- Work No. 9 - Temporary Construction Compounds
- Work No. 10A.1 - Access Highway Improvements and Use
- Work No. 10A.2 - Access Highway Improvements and Use - Relating to Work Nos. 6A.2 and 6B.2



Work No. 6B.2 - Hydrogen Distribution Network - Above Ground Installation at Cowpen Bewley



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APPLICATION REFERENCE

ISSUE PURPOSE

FOR EXAMINATION

PROJECT NUMBER

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DRAWING TITLE

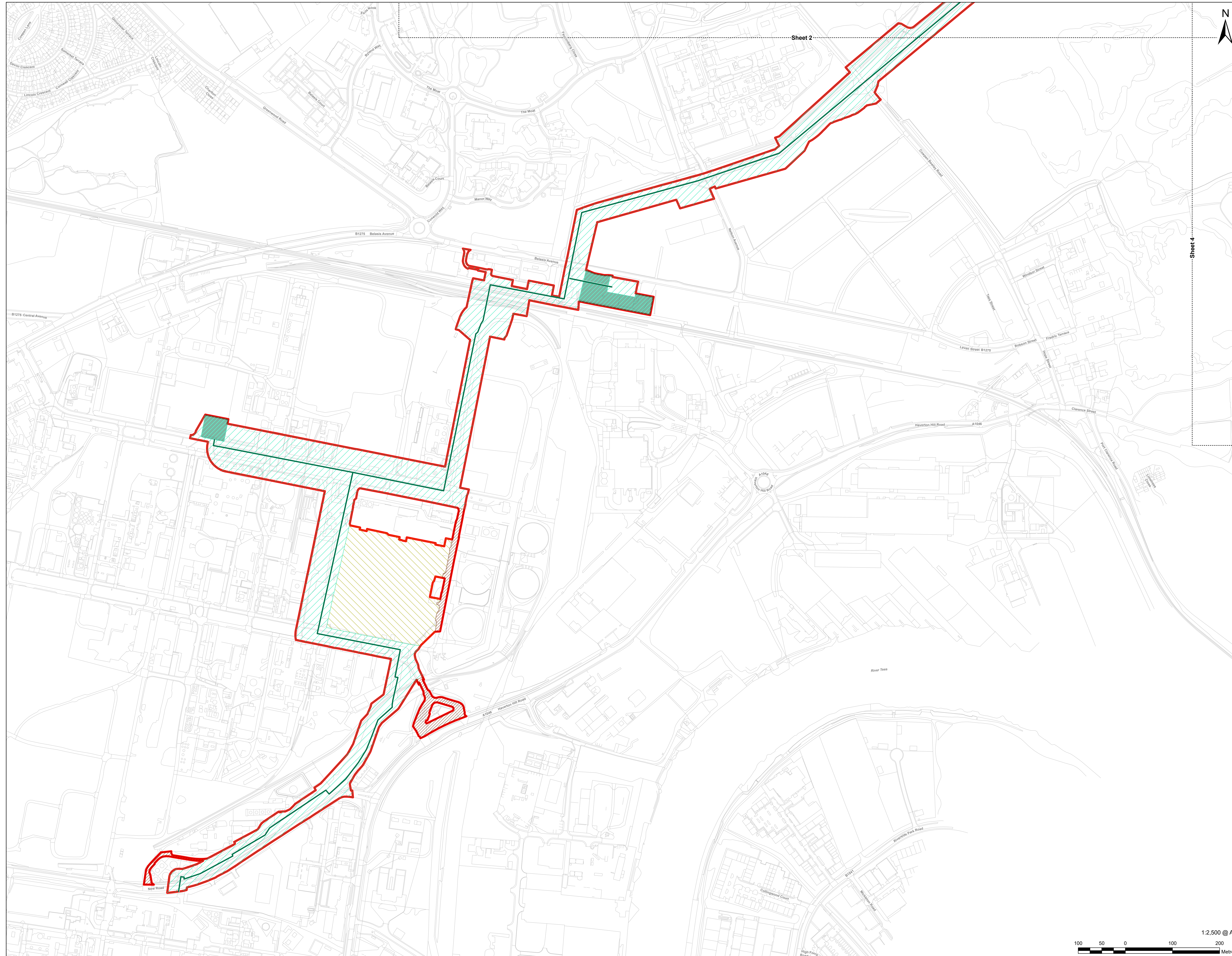
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Answer to H2Teesside Second  
Written Questions

SHEET NUMBER

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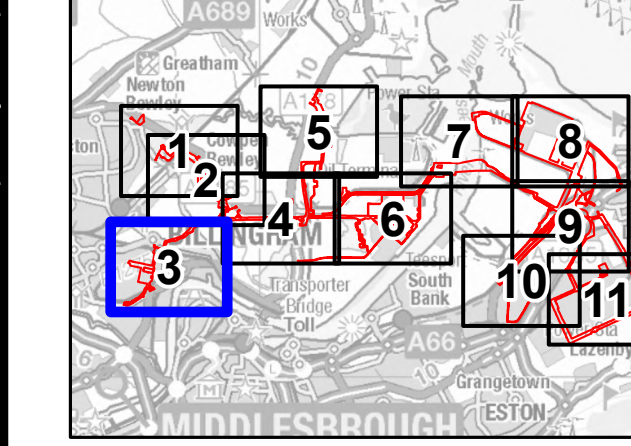
Sheet 2

Sheet 4

**LEGEND**

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- Detailed Sheet Number
- Indicative Hydrogen Route
- Work No. 6A.1 - Hydrogen Distribution Network - Overground and Underground Pipelines
- Work No. 6B.1 - Hydrogen Distribution Network - Above Ground Installations
- Work No. 9 - Temporary Construction Compounds
- Work No. 10A.1 - Access Highway Improvements and Use

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**APPLICATION REFERENCE**

**ISSUE PURPOSE**

FOR EXAMINATION

**PROJECT NUMBER**

60689030

**DRAWING TITLE**

Work Plans Summary  
Answer to H2Teesside Second  
Written Questions

**SHEET NUMBER**

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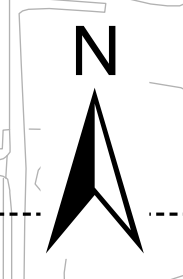
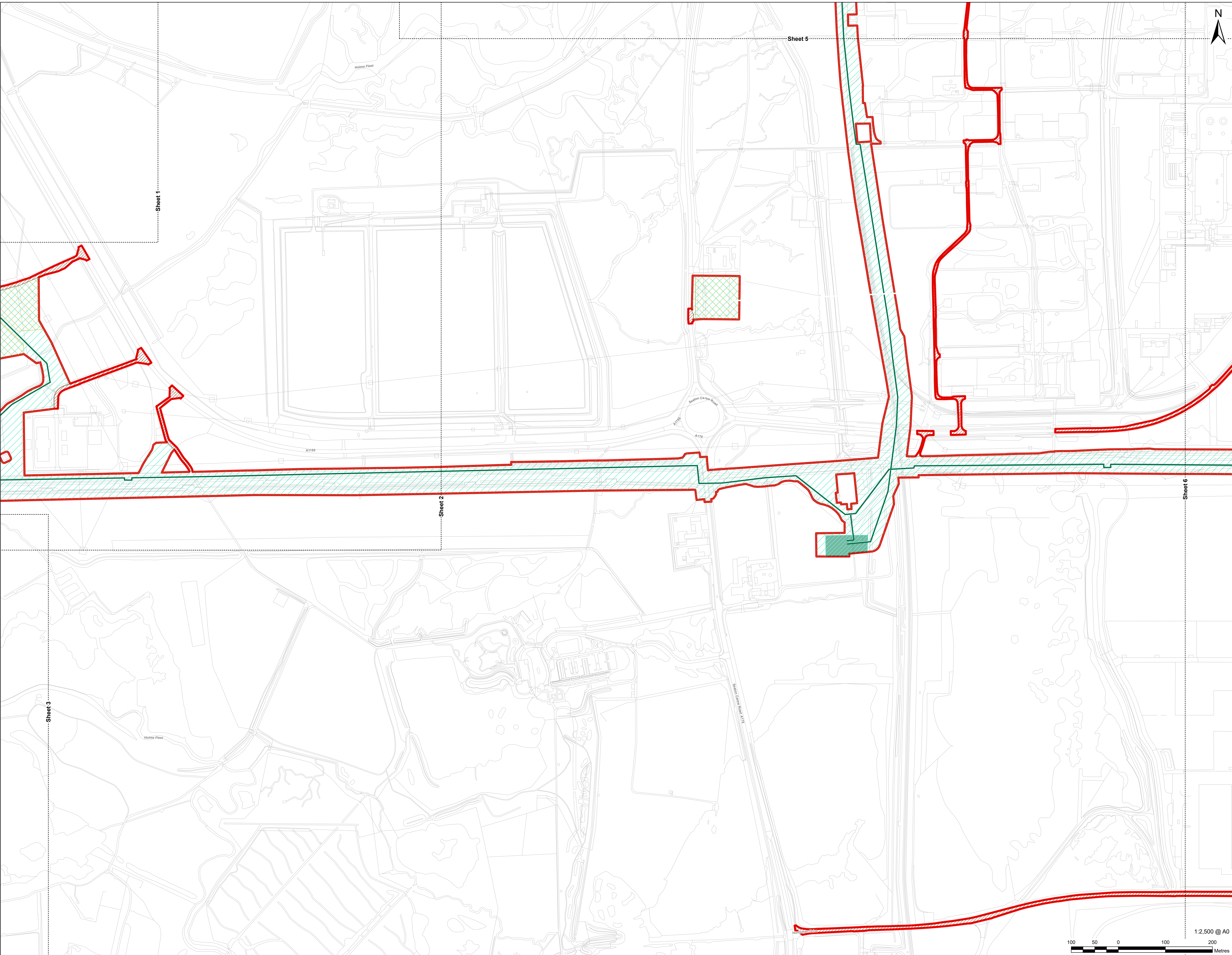




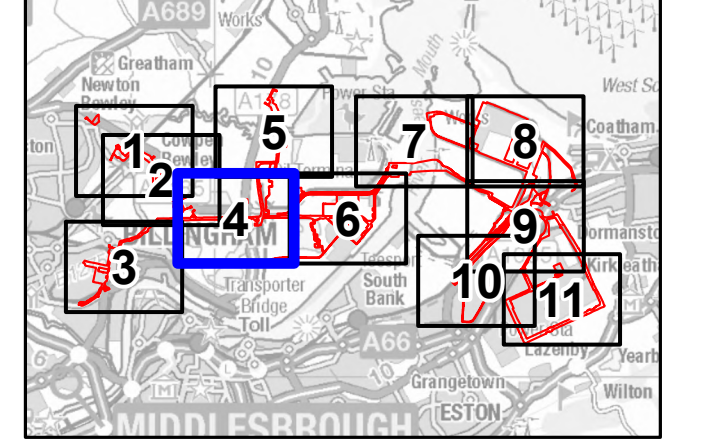


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-  H2Teesside Order Limits
-  Detailed Sheet Number
-  Indicative Hydrogen Route
-  Work No. 6A.1 - Hydrogen Distribution Network - Overground and Underground Pipelines
-  Work No. 6B.11 - Hydrogen Distribution Network - Above Ground Installations
-  Work No. 9 - Temporary Construction Compounds
-  Work No. 10A.1 - Access Highway Improvements and Use



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APPLICATION REFERENCE

ISSUE PURPOSE

FOR EXAMINATION

PROJECT NUMBER

60689030

DRAWING TITLE

Work Plans Summary  
Answer to H2Teesside Second  
Written Questions

SHEET NUMBER

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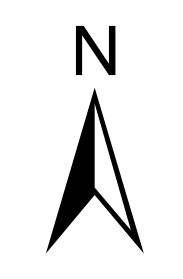
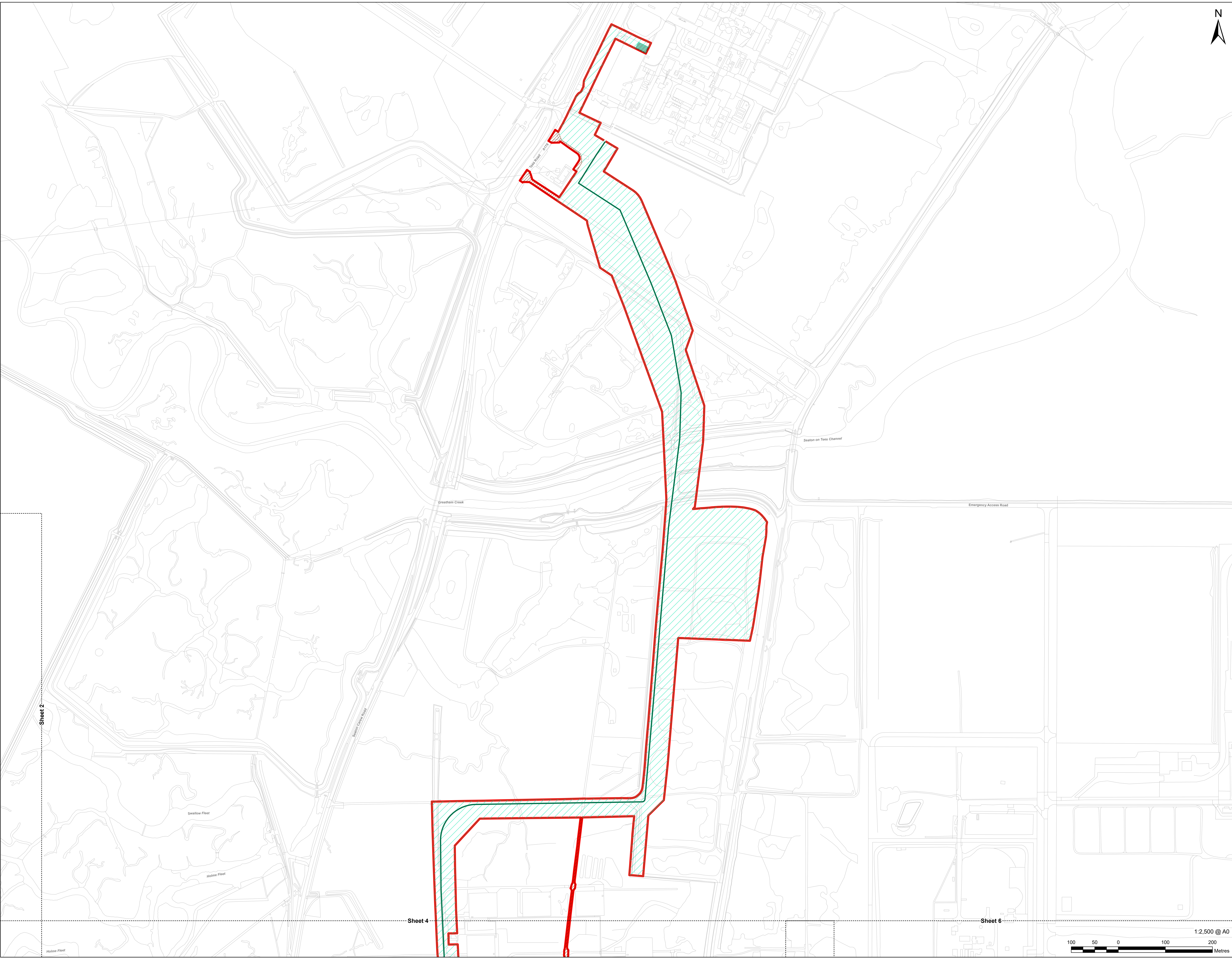
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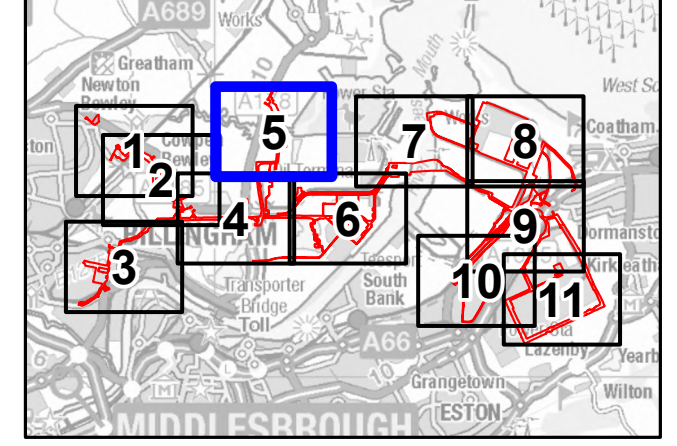
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-  H2Teesside Order Limits
-  Detailed Sheet Number
-  Indicative Hydrogen Route
-  Work No. 6A.1 - Hydrogen Distribution Network - Overground and Underground Pipelines
-  Work No. 6B.1 - Hydrogen Distribution Network - Above Ground Installations
-  Work No. 10A.1 - Access Highway Improvements and Use



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**APPLICATION REFERENCE**

**ISSUE PURPOSE**

FOR EXAMINATION

**PROJECT NUMBER**

60689030

**DRAWING TITLE**

Work Plans Summary  
Answer to H2Teesside Second  
Written Questions

**SHEET NUMBER**

Sheet 5 of 11

Sheet 2

Sheet 4

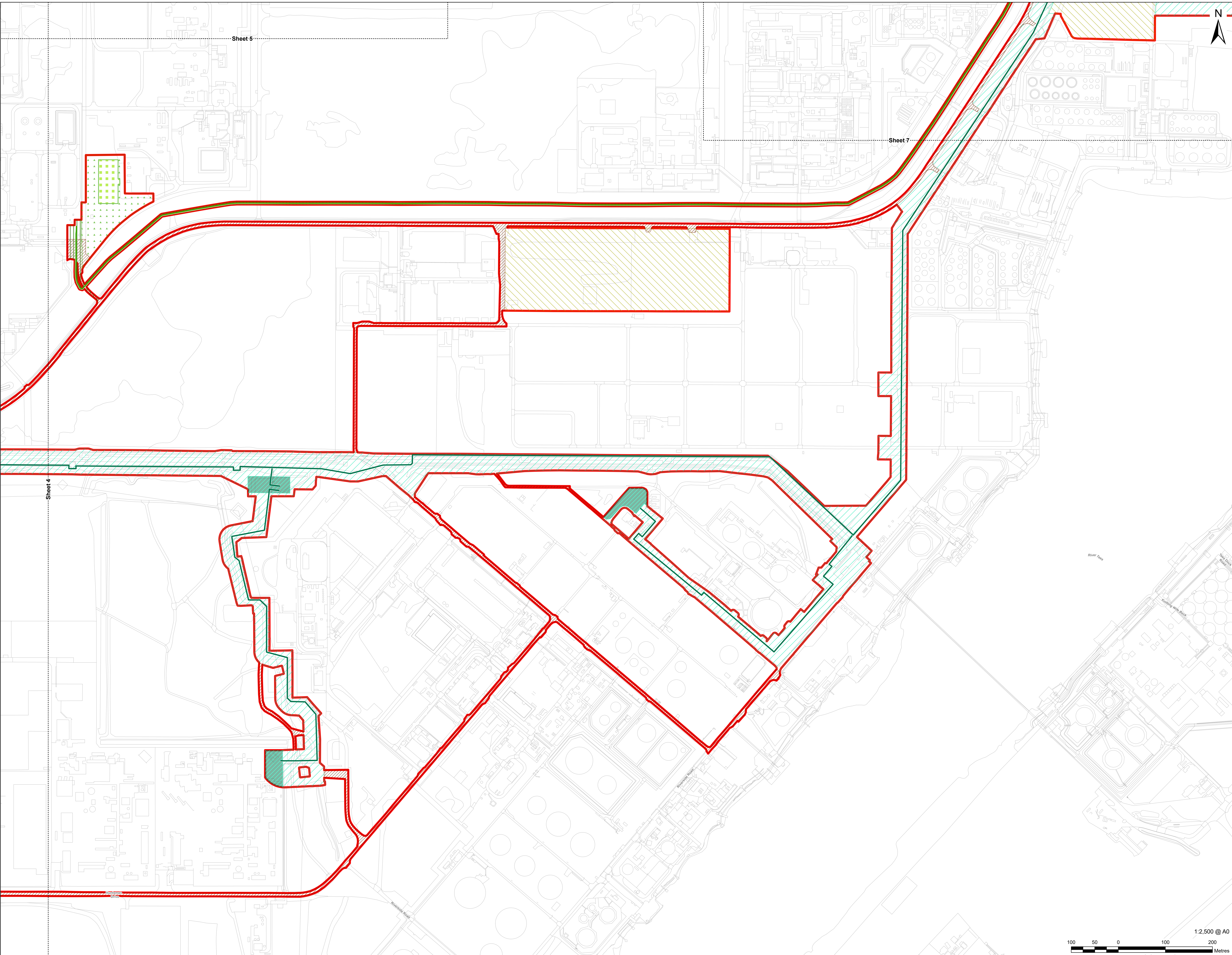
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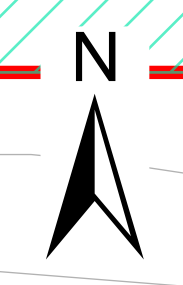
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- Detailed Sheet Number
- Indicative Hydrogen Route
- Indicative Natural Gas Pipeline Route
- Work No. 2A - Natural Gas Connection - Underground High Pressure Gas Pipeline
- Work No. 2B - Natural Gas Connection - Above Ground Installation
- Work No. 2C - Natural Gas Connection - Reconnected High Pressure Gas Pipeline
- Work No. 6A.1 - Hydrogen Distribution Network - Overground and Underground Pipelines
- Work No. 6B.1 - Hydrogen Distribution Network - Above Ground Installations
- Work No. 9 - Temporary Construction Compounds
- Work No. 10A.1 - Access Highway Improvements and Use



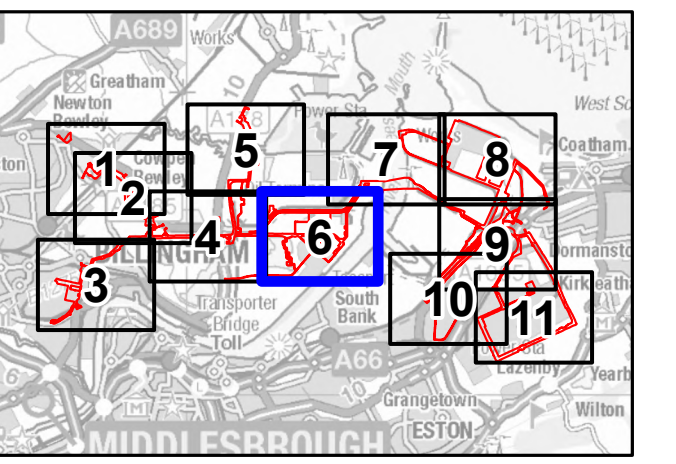
Sheet 5

Sheet 7

Sheet 4



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APPLICATION REFERENCE

ISSUE PURPOSE

FOR EXAMINATION

PROJECT NUMBER

60689030

DRAWING TITLE

Work Plans Summary  
Answer to H2Teesside Second  
Written Questions

SHEET NUMBER

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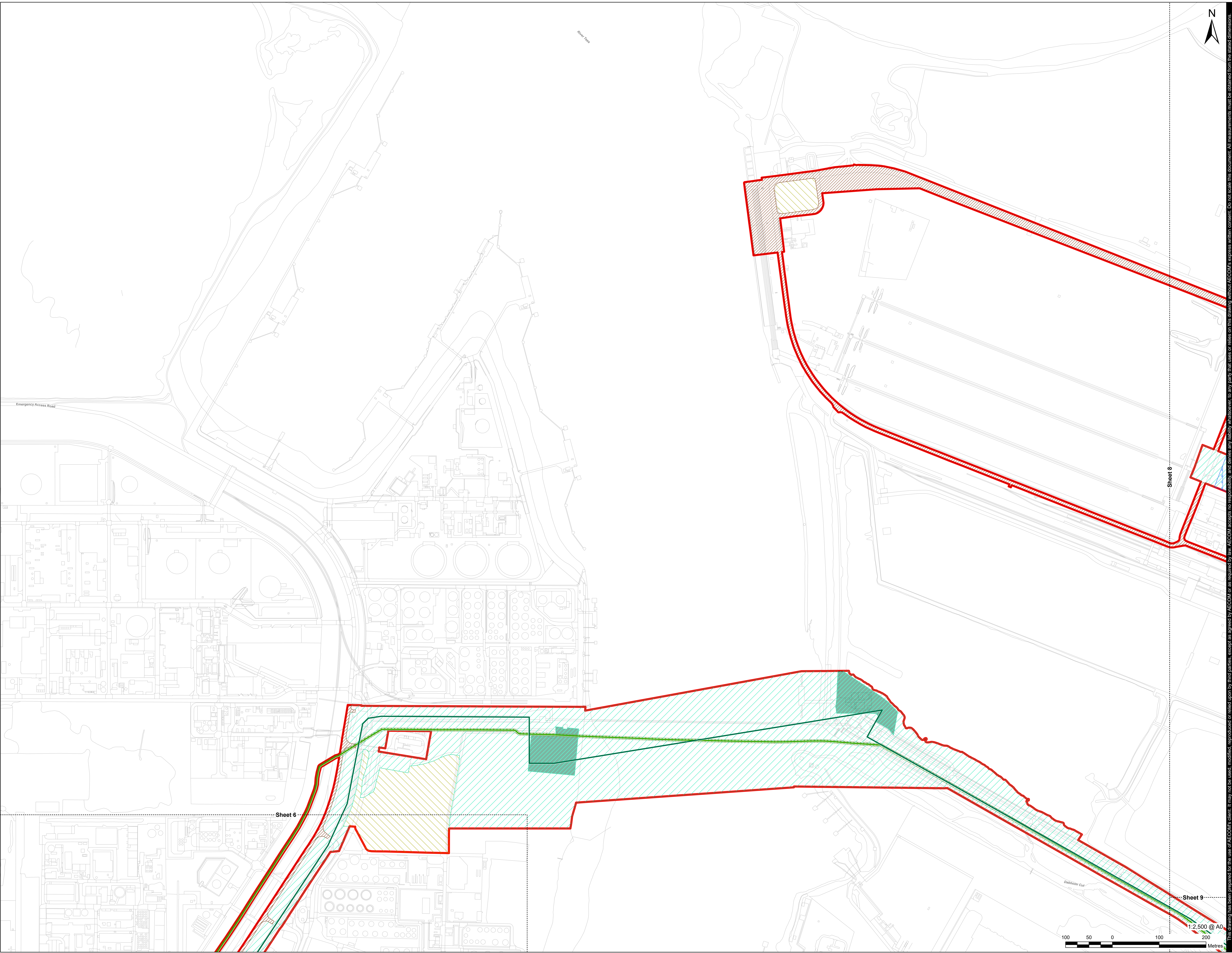
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- H2Teesside Order Limits
- Detailed Sheet Number
- Indicative Hydrogen Route
- Indicative Natural Gas Pipeline Route
- Work No. 1A.2 - Phase 2 Hydrogen Unit
- Work No. 1B.2 - Water Connections and Water and Effluent Treatment Plant for Work No. 1A.2
- Work No. 1C - Above Ground Pressurised Hydrogen Storage
- Work No. 1D - Administration, Control Room and Stores
- Work No. 2C - Natural Gas Connection - Reconnected High Pressure Gas Pipeline
- Work No. 6A.1 - Hydrogen Distribution Network - Overground and Underground Pipelines
- Work No. 6B.1 - Hydrogen Distribution Network - Above Ground Installations
- Work No. 9 - Temporary Construction Compounds
- Work No. 10A.1 - Access Highway Improvements and Use

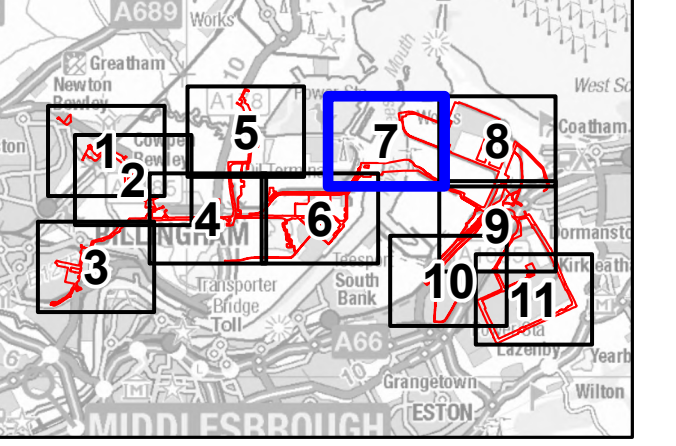


Sheet 8

Sheet 6

Sheet 9

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APPLICATION REFERENCE

ISSUE PURPOSE

FOR EXAMINATION

PROJECT NUMBER

60689030

DRAWING TITLE

Work Plans Summary  
Answer to H2Teesside Second  
Written Questions

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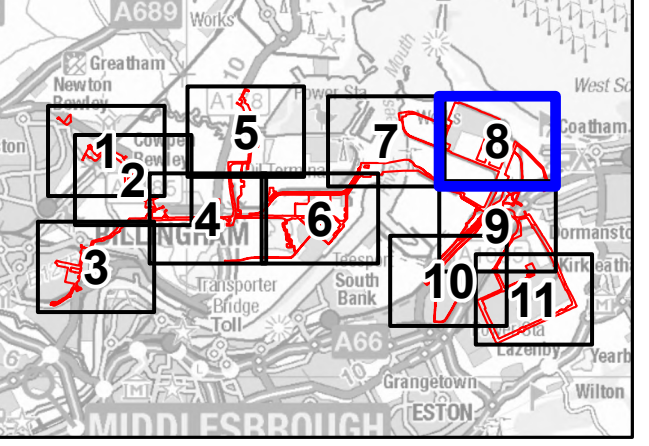
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LEGEND

- H2Teesside Order Limits
- Detailed Sheet Number
- Drainage Option Route
- Indicative Carbon Dioxide Route
- Indicative Electrical Route
- Indicative Hydrogen Route
- Indicative Natural Gas Pipeline Route
- Indicative Other Gases Route
- Indicative Wastewater Disposal and Drainage Option Route
- Indicative Water Supply Route
- Work No. 1A.1 - Phase 1 Hydrogen Unit
- Work No. 1A.2 - Phase 2 Hydrogen Unit
- Work No. 1B.1 - Water Connections and Water and Effluent Treatment Plant for Work Nos. 1A.1 and 1A.2
- Work No. 1B.2 - Water Connections and Water and Effluent Treatment Plant for Work No. 1A.2
- Work No. 1C - Above Ground Pressurised Hydrogen Storage
- Work No. 1D - Administration, Control Room and Stores
- Work No. 1E.1 - Connections and Ancillary Works in Connection with Work Nos. 1A.1, 1A.2, 1C and 1D
- Work No. 1E.2 - Connections and Ancillary Works in Connection with Work No. 1A.2
- Work No. 2A - Natural Gas Connection - Underground High Pressure Gas Pipeline
- Work No. 2B - Natural Gas Connection - Above Ground Installation
- Work No. 2C - Natural Gas Connection - Reconnected High Pressure Gas Pipeline
- Work No. 3A - Electrical Connection Works
- Work No. 3B.1 - Electrical Connection - Above Ground Installation Connecting Work No. 3A to Pellet-Sinter Substation
- Work No. 3B.3 - Electrical Connection - Above Ground Installation Connecting Work No. 3A to a New Substation
- Work No. 4 - Water Supply Connection Works
- Work No. 5 - Wastewater Disposal Works
- Work No. 6A.1 - Hydrogen Distribution Network - Overground and Underground Pipelines
- Work No. 7A - Carbon Dioxide - Export Pipeline
- Work No. 7B - Carbon Dioxide - Above Ground Installation
- Work No. 8 - Oxygen and Nitrogen Gas Connections
- Work No. 10A.1 - Access Highway Improvements and Use

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APPLICATION REFERENCE

ISSUE PURPOSE

FOR EXAMINATION

PROJECT NUMBER

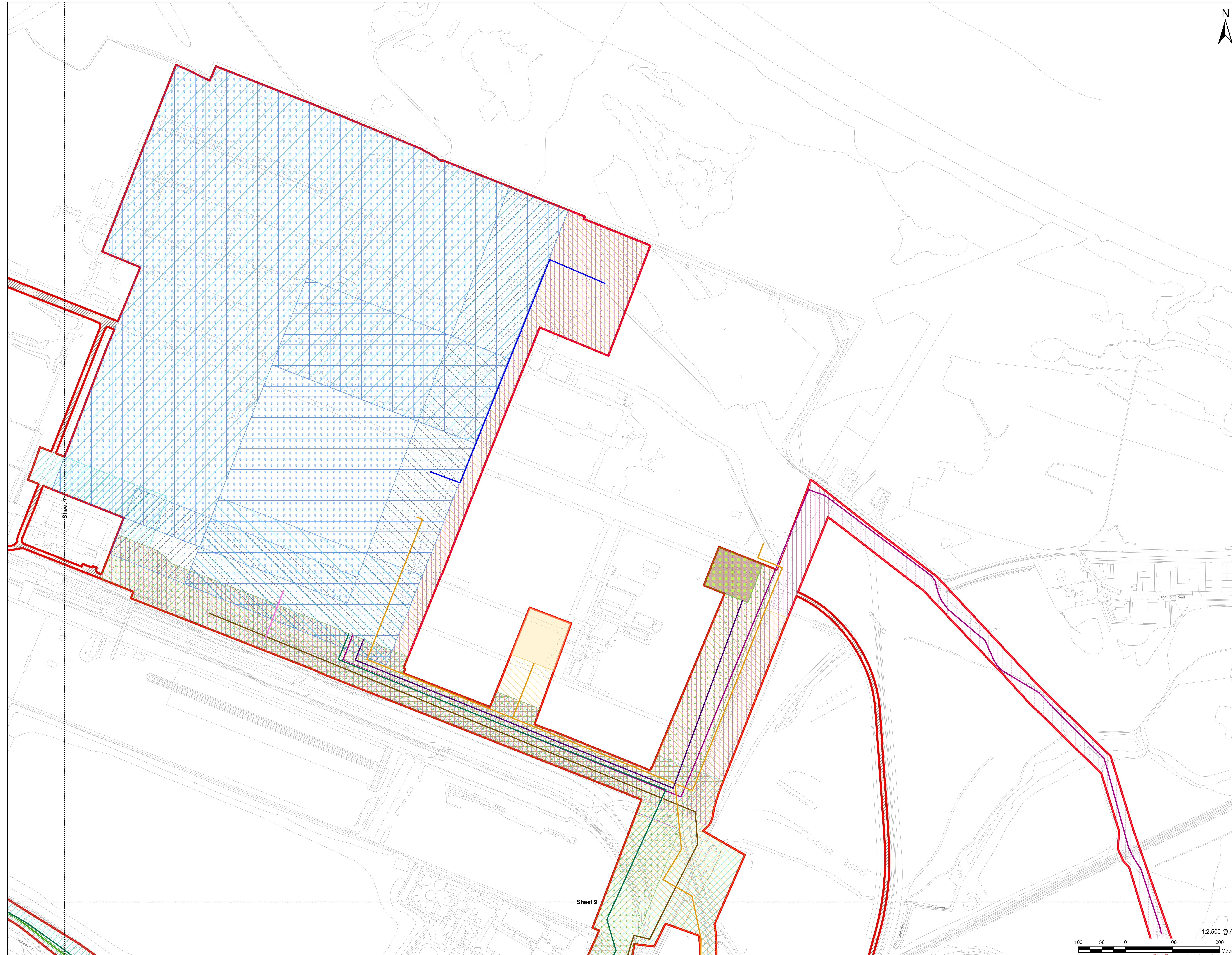
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Work Plans Summary  
Answer to H2Teesside Second  
Written Questions

SHEET NUMBER

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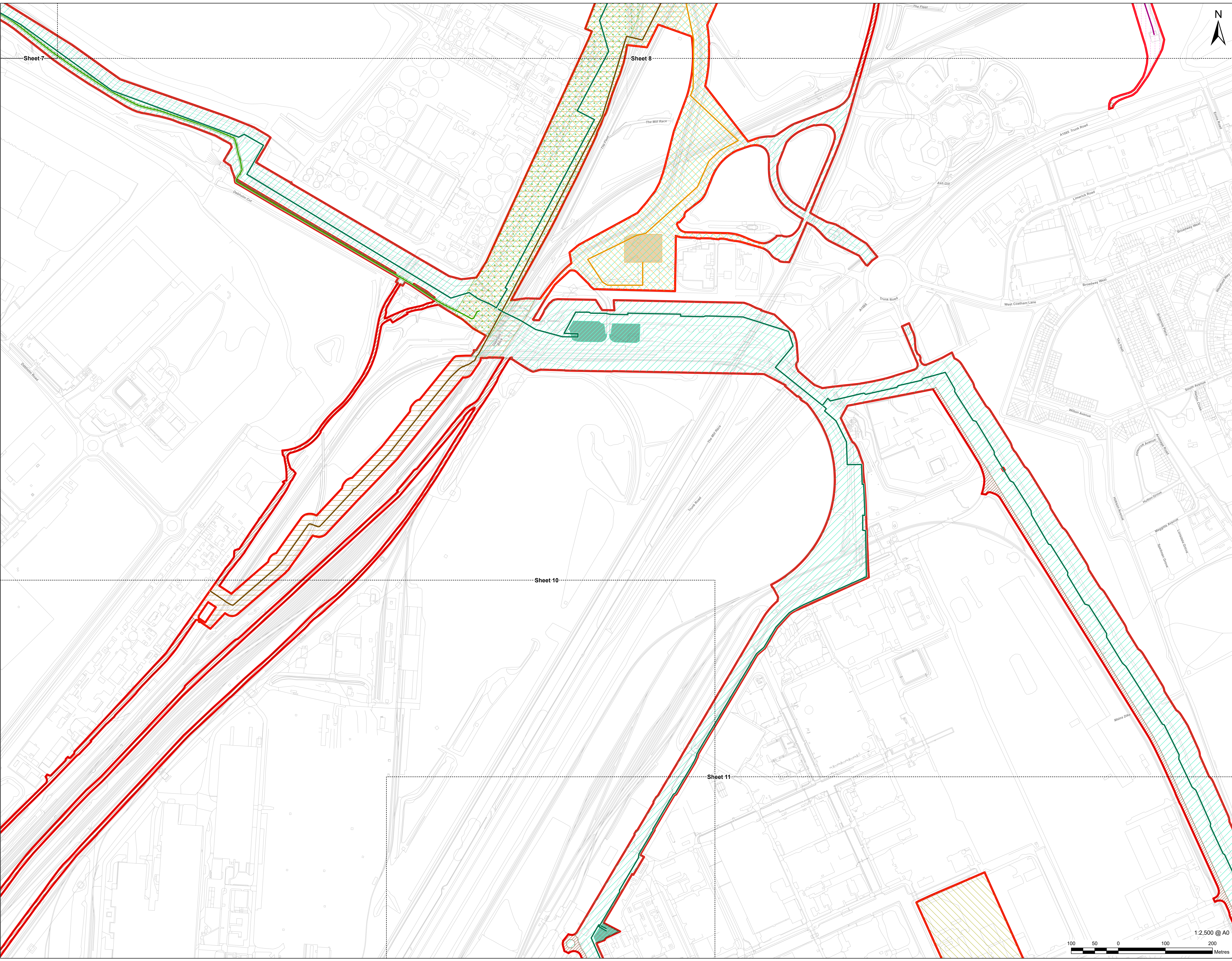
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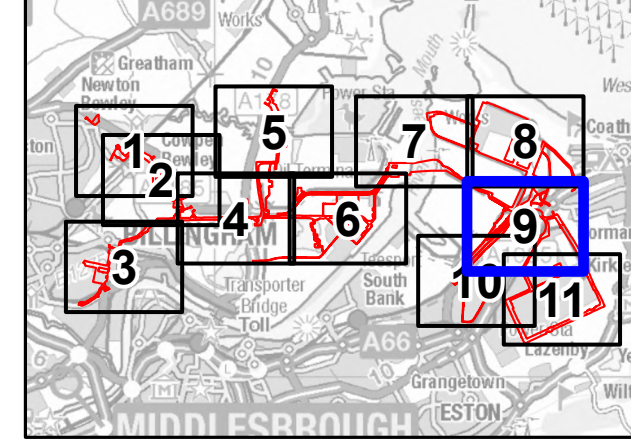
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- LEGEND**
- H2Teesside Order Limits
  - Detailed Sheet Number
  - Indicative Electrical Route
  - Indicative Hydrogen Route
  - Indicative Natural Gas Pipeline Route
  - Indicative Other Gases Route
  - Indicative Water Supply Route
  - Work No. 2A - Natural Gas Connection - Underground High Pressure Gas Pipeline
  - Work No. 2C - Natural Gas Connection - Reconnected High Pressure Gas Pipeline
  - Work No. 3A - Electrical Connection Works
  - Work No. 3B.2 - Electrical Connection - Above Ground Installation Connecting Work No. 3A to Tod Point Substation
  - Work No. 4 - Water Supply Connection Works
  - Work No. 6A.1 - Hydrogen Distribution Network - Overground and Underground Pipelines
  - Work No. 6B.1 - Hydrogen Distribution Network - Above Ground Installations
  - Work No. 8 - Oxygen and Nitrogen Gas Connections
  - Work No. 9 - Temporary Construction Compounds
  - Work No. 10A.1 - Access Highway Improvements and Use

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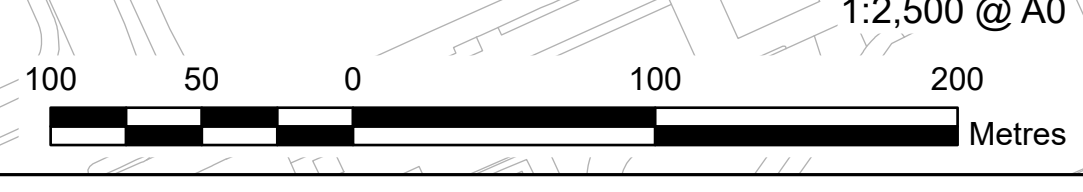
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**ISSUE PURPOSE**  
FOR EXAMINATION

**PROJECT NUMBER**  
60689030

**DRAWING TITLE**  
Work Plans Summary  
Answer to H2Teesside Second  
Written Questions

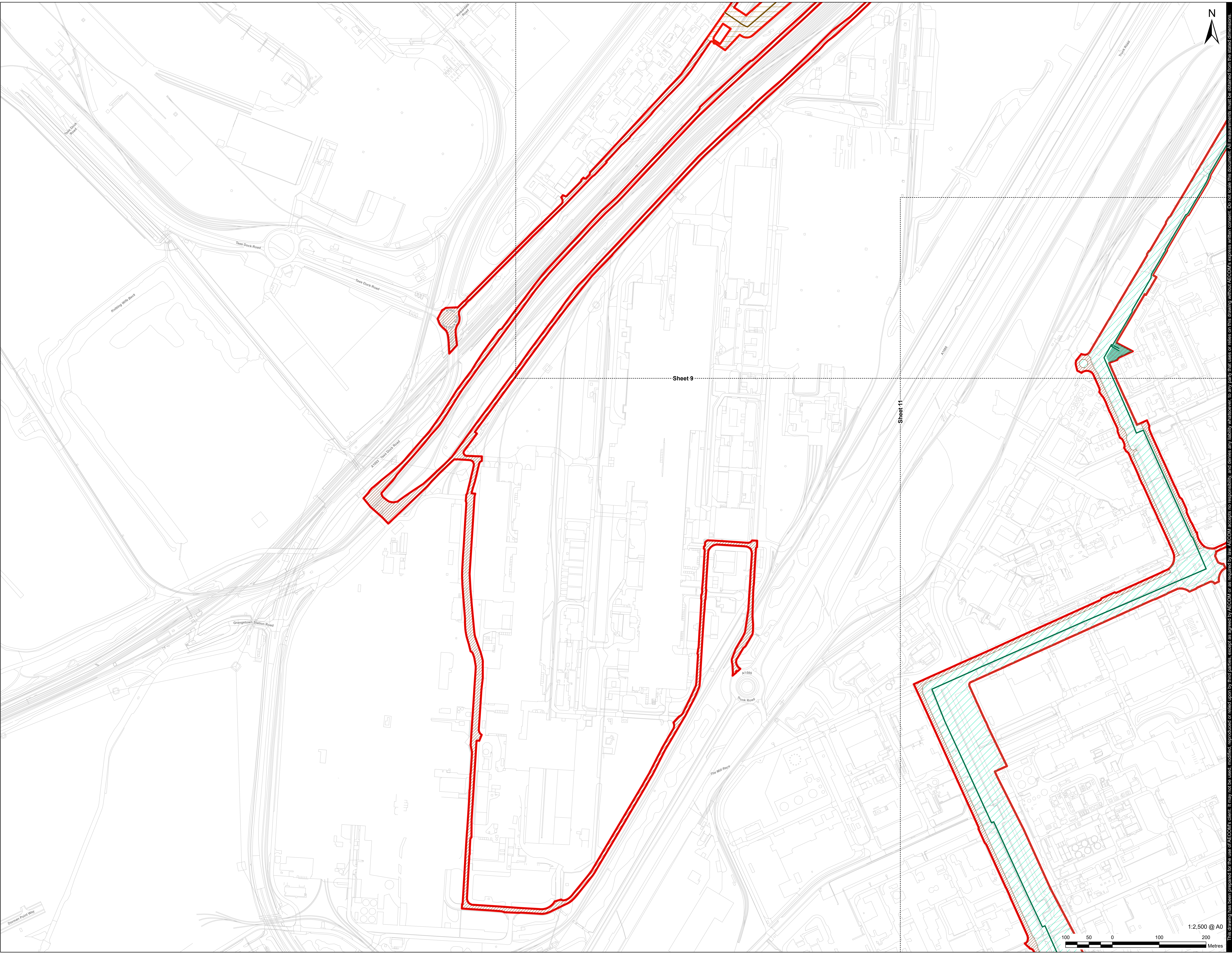
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Sheet 9 of 11



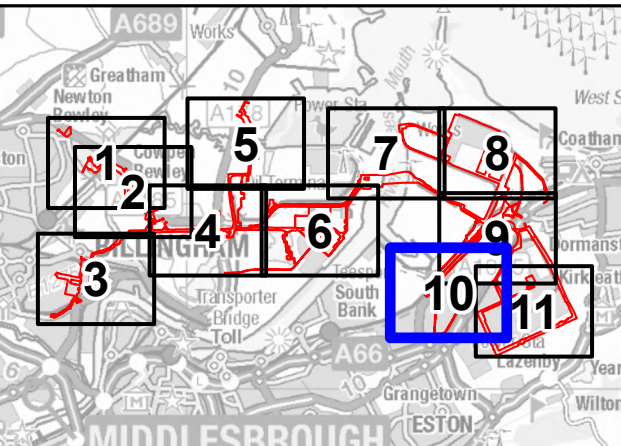
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- H2Teesside Order Limits
- Detailed Sheet Number
- Indicative Hydrogen Route
- Indicative Other Gases Route
- Work No. 6A.1 - Hydrogen Distribution Network - Overground and Underground Pipelines
- Work No. 6B.1 - Hydrogen Distribution Network - Above Ground Installations
- Work No. 8 - Oxygen and Nitrogen Gas Connections
- Work No. 10A.1 - Access Highway Improvements and Use



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FOR EXAMINATION

**PROJECT NUMBER**

60689030

**DRAWING TITLE**

Work Plans Summary  
Answer to H2Teesside Second  
Written Questions

**SHEET NUMBER**

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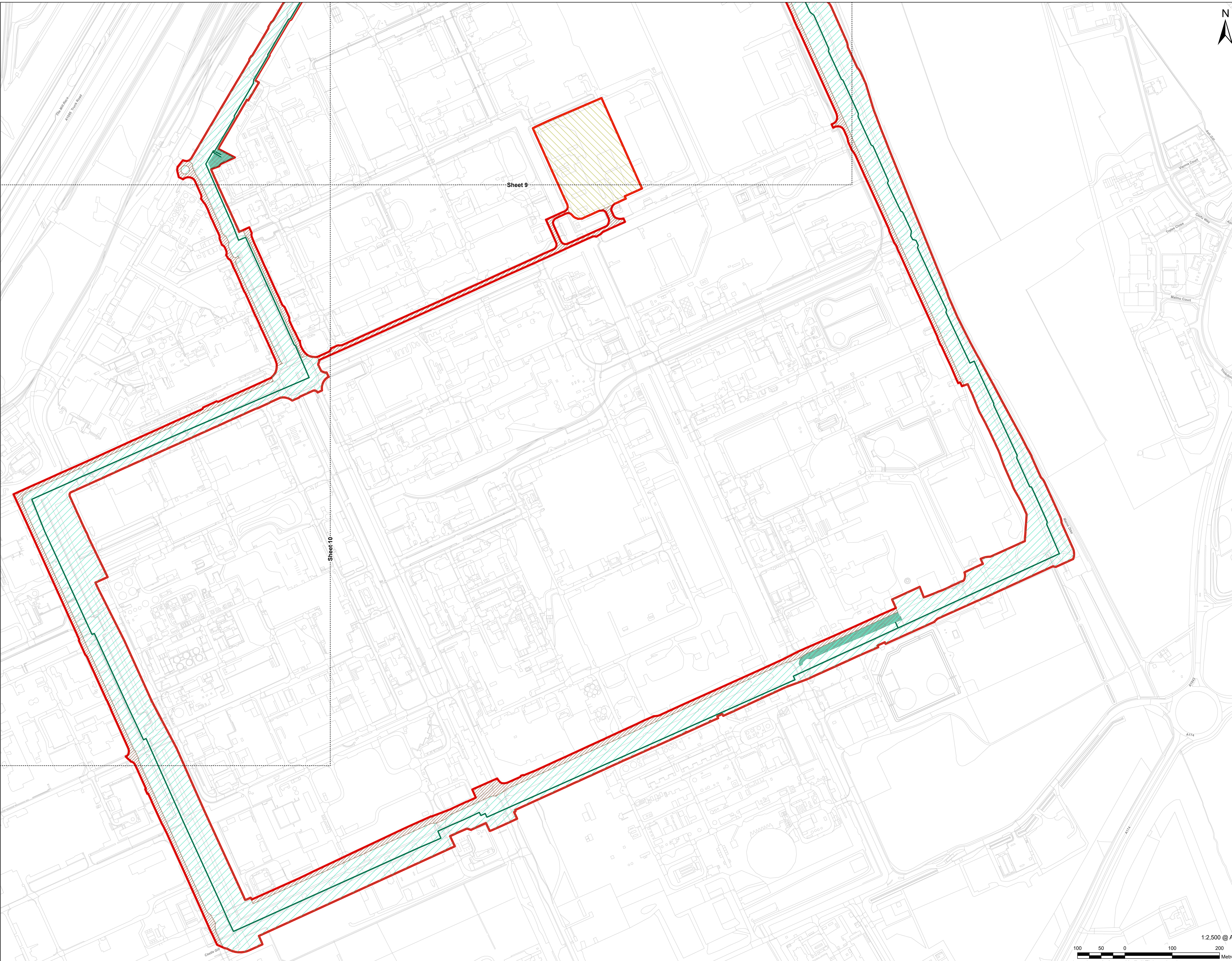
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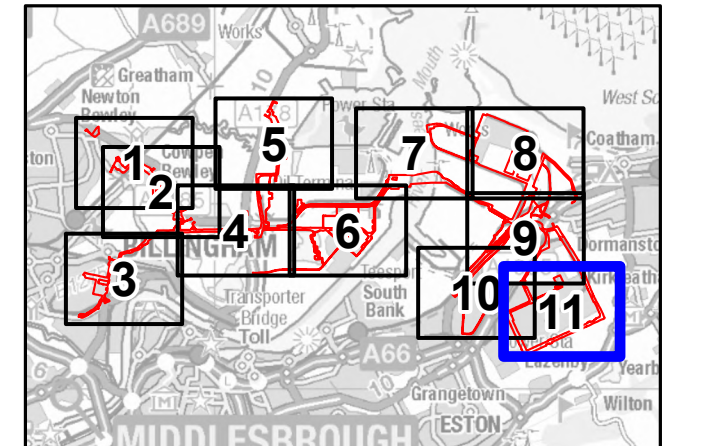


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- H2Teesside Order Limits
- Detailed Sheet Number
- Indicative Hydrogen Route
- Work No. 6A.1 - Hydrogen Distribution Network - Overground and Underground Pipelines
- Work No. 6B.1 - Hydrogen Distribution Network - Above Ground Installations
- Work No. 9 - Temporary Construction Compounds
- Work No. 10A.1 - Access Highway Improvements and Use



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APPLICATION REFERENCE

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FOR EXAMINATION

PROJECT NUMBER

60689030

DRAWING TITLE

Work Plans Summary  
Answer to H2Teesside Second  
Written Questions

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Sheet 11 of 11

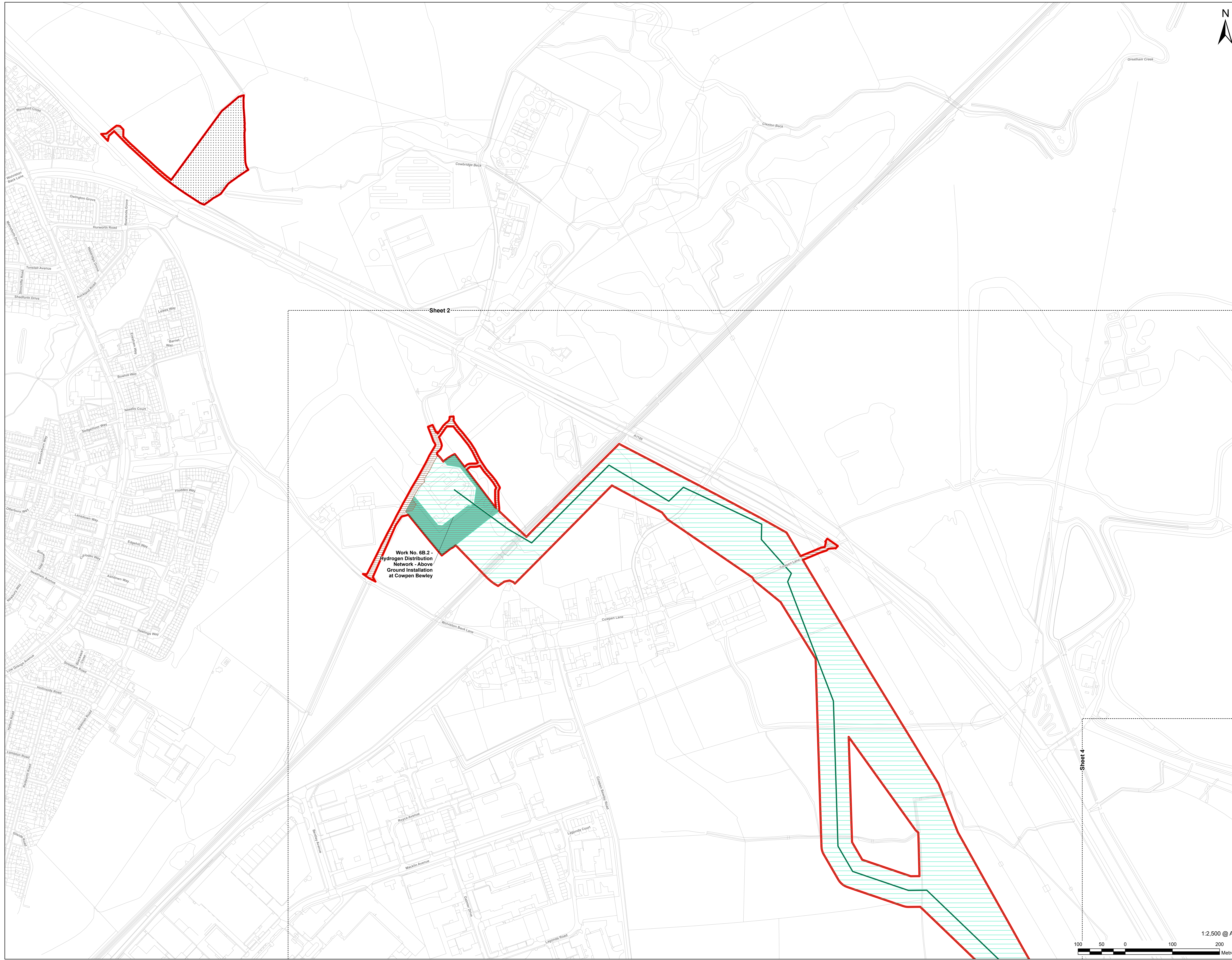
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## **APPENDIX 5: PLAN FOR Q2.1.11**



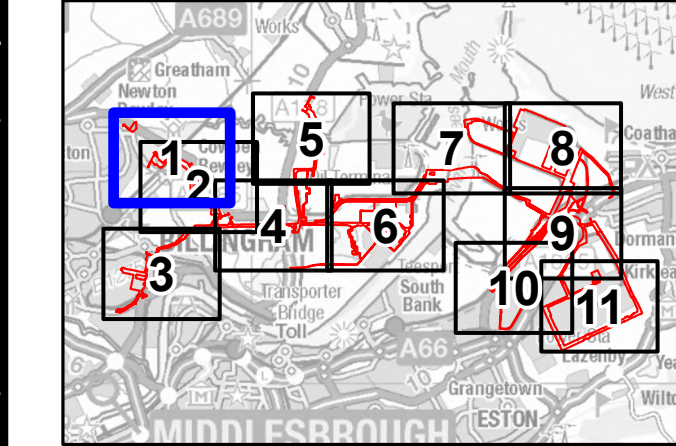


**Work No. 6B.2 - Hydrogen Distribution Network - Above Ground Installation at Cowpen Bewley**

**LEGEND**

- H2Teesside Order Limits
- Detailed Sheet Number
- H2Teesside**
- Indicative Hydrogen Routes
- Network - Overground and Underground Pipelines to connect to Work No. 6B.2
- Work No. 6B.2 - Hydrogen Distribution Network - Above Ground Installation at Cowpen Bewley
- Work No. 10A.2 - Access Highway Improvements and Use - Relating to Work Nos. 6A.2 and 6B.2
- Work No. 11 - Replacement Land Relating to Work No. 6A.2 & 6B.2

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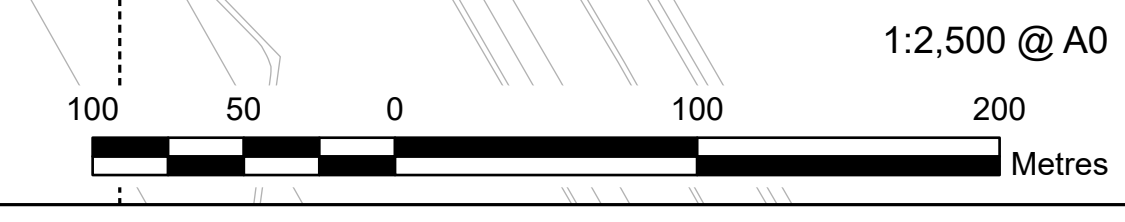
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**ISSUE PURPOSE**  
FOR EXAMINATION

**PROJECT NUMBER**  
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**DRAWING TITLE**  
Work Plans Summary  
Answer to H2Teesside Second  
Written Questions

**SHEET NUMBER**  
Sheet 1 of 11



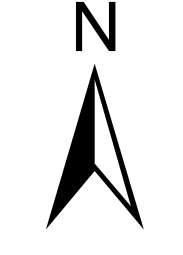
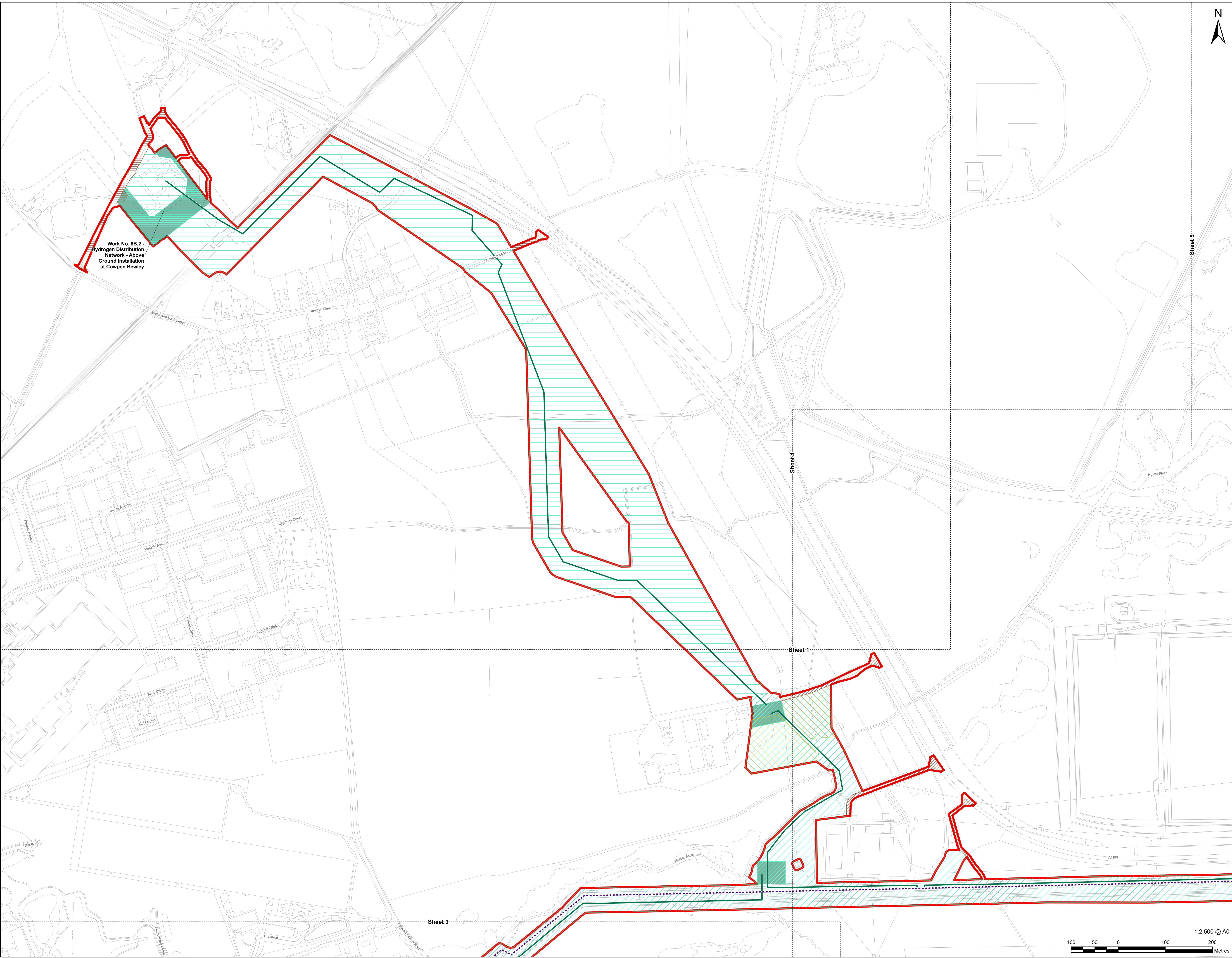
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- H2Teesside Order Limits
- - - - Detailed Street Number
- - - - Net Zero Teesside
- - - - Indicative Carbon Dioxide Pipeline
- H2Teesside**
- Indicative Hydrogen Routes
- - - - Work No. 6A.1 - Hydrogen Distribution Network - Overground and Underground Pipelines
- - - - Work No. 6A.2 - Hydrogen Distribution Network - Overground and Underground Pipelines to connect to Work No. 6B.2
- - - - Work No. 6B.1 - Hydrogen Distribution Network - Above Ground Installations
- - - - Work No. 6B.2 - Hydrogen Distribution Network - Above Ground Installation at Cowpen Bewley
- - - - Work No. 9 - Temporary Construction Compounds
- - - - Work No. 10A.1 - Access Highway Improvements and Use
- - - - Work No. 10A.2 - Access Highway Improvements and Use - Relating to Work Nos. 6A.2 and 6B.2



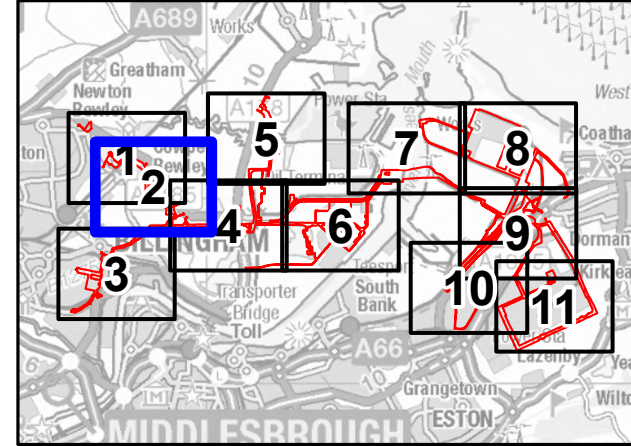
Sheet 5

Sheet 4

Sheet 1

Sheet 3

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Regulation 5(2)(j).



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APPLICATION REFERENCE

ISSUE PURPOSE

FOR EXAMINATION

PROJECT NUMBER

60689030

DRAWING TITLE

Work Plans Summary

Answer to H2Teesside Second

Written Questions

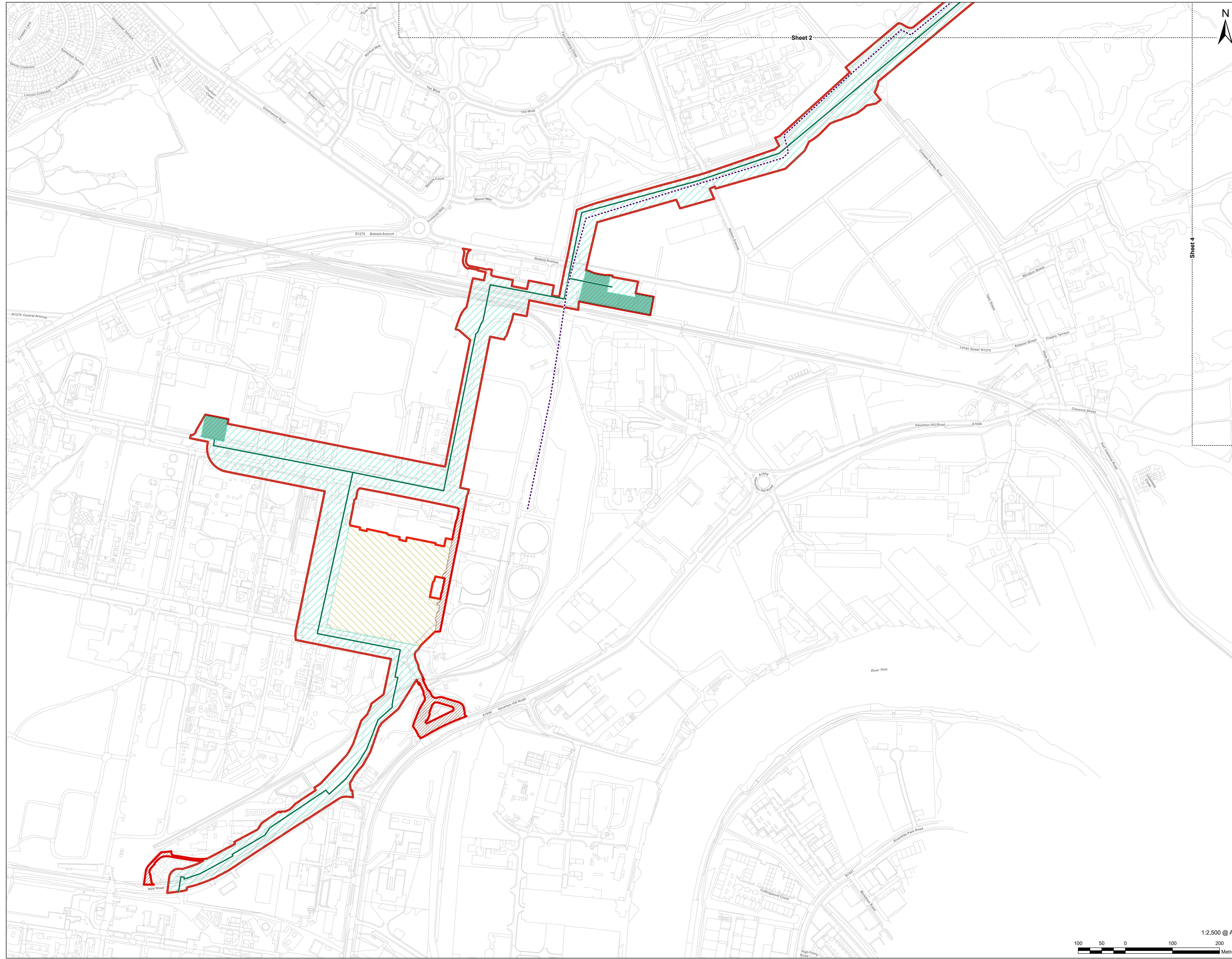
SHEET NUMBER

Sheet 2 of 11



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Sheet 2

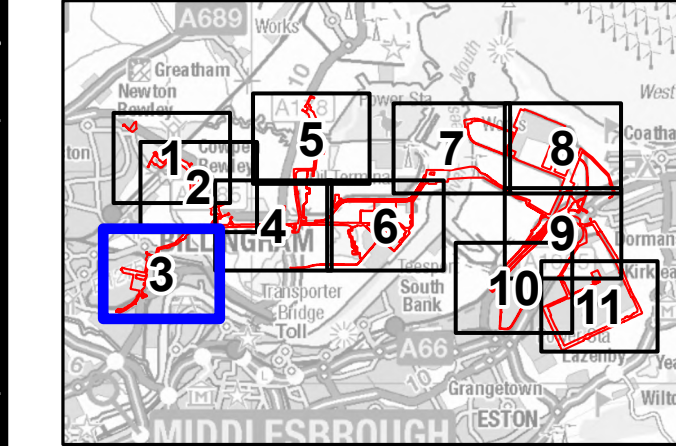
Sheet 4



**LEGEND**

- H2Teesside Order Limits
- - - Detailed Sheet Number
- - - Net Zero Teesside
- - - Indicative Carbon Dioxide Pipeline
- H2Teesside**
- Indicative Hydrogen Routes
- Work No. 6A.1 - Hydrogen Distribution Network - Overground and Underground Pipelines
- Work No. 6B.1 - Hydrogen Distribution Network - Above Ground Installations
- Work No. 9 - Temporary Construction Campounds
- Work No. 10A.1 - Access Highway Improvements and Use

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**APPLICATION REFERENCE**

**ISSUE PURPOSE**

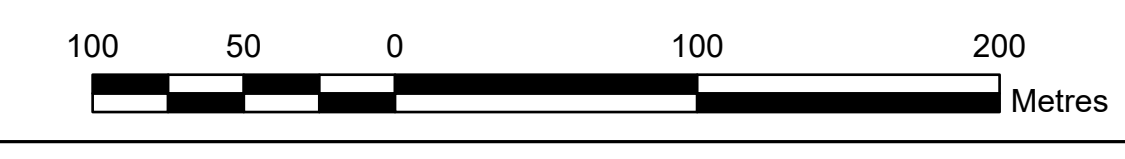
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**PROJECT NUMBER**  
60689030

**DRAWING TITLE**  
Work Plans Summary  
Answer to H2Teesside Second  
Written Questions

**SHEET NUMBER**

Sheet 3 of 11



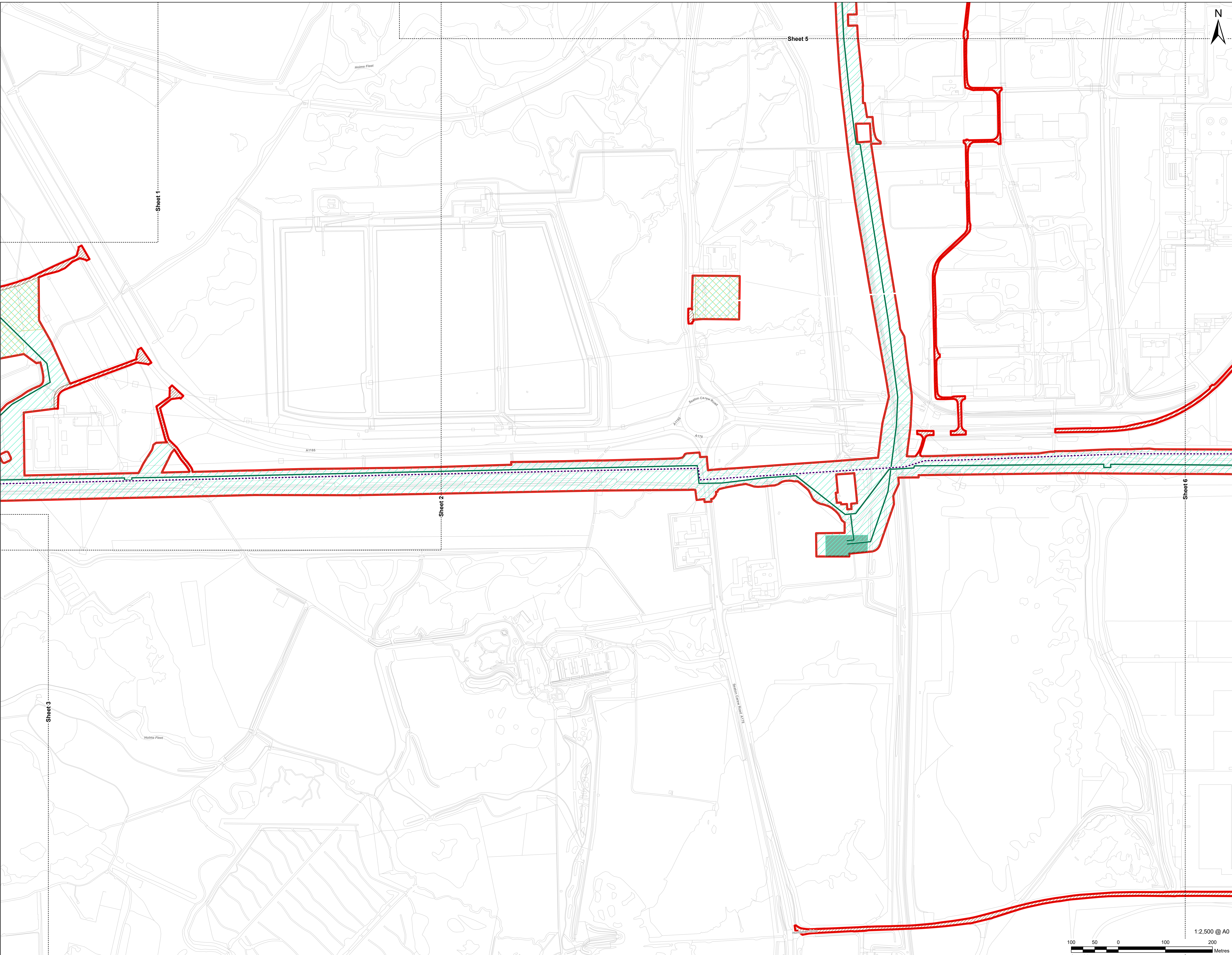
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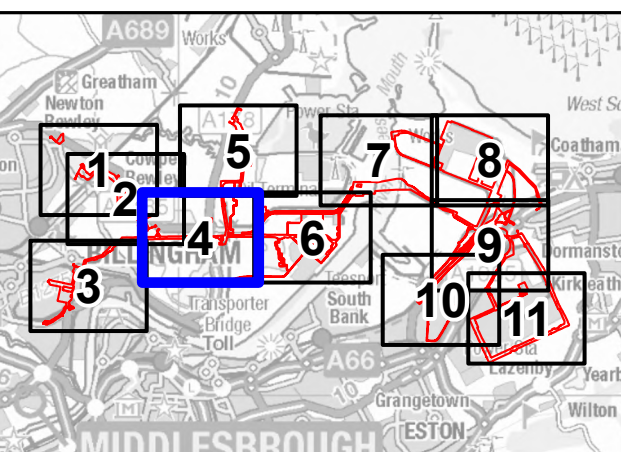


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- H2Teesside Order Limits
- Detailed Sheet Number
- Not Zero Teesside
- Indicative Carbon Dioxide Pipeline
- H2Teesside**
- Indicative Hydrogen Routes
- Work No. 6A.1 - Hydrogen Distribution Network - Overground and Underground Pipelines
- Work No. 6B.1 - Hydrogen Distribution Network - Above Ground Installations
- Work No. 9 - Temporary Construction Campounds
- Work No. 10A.1 - Access Highway Improvements and Use



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APPLICATION REFERENCE

ISSUE PURPOSE

FOR EXAMINATION

PROJECT NUMBER

60689030

DRAWING TITLE

Work Plans Summary  
Answer to H2Teesside Second  
Written Questions

SHEET NUMBER

Sheet 4 of 11














APPLICANT

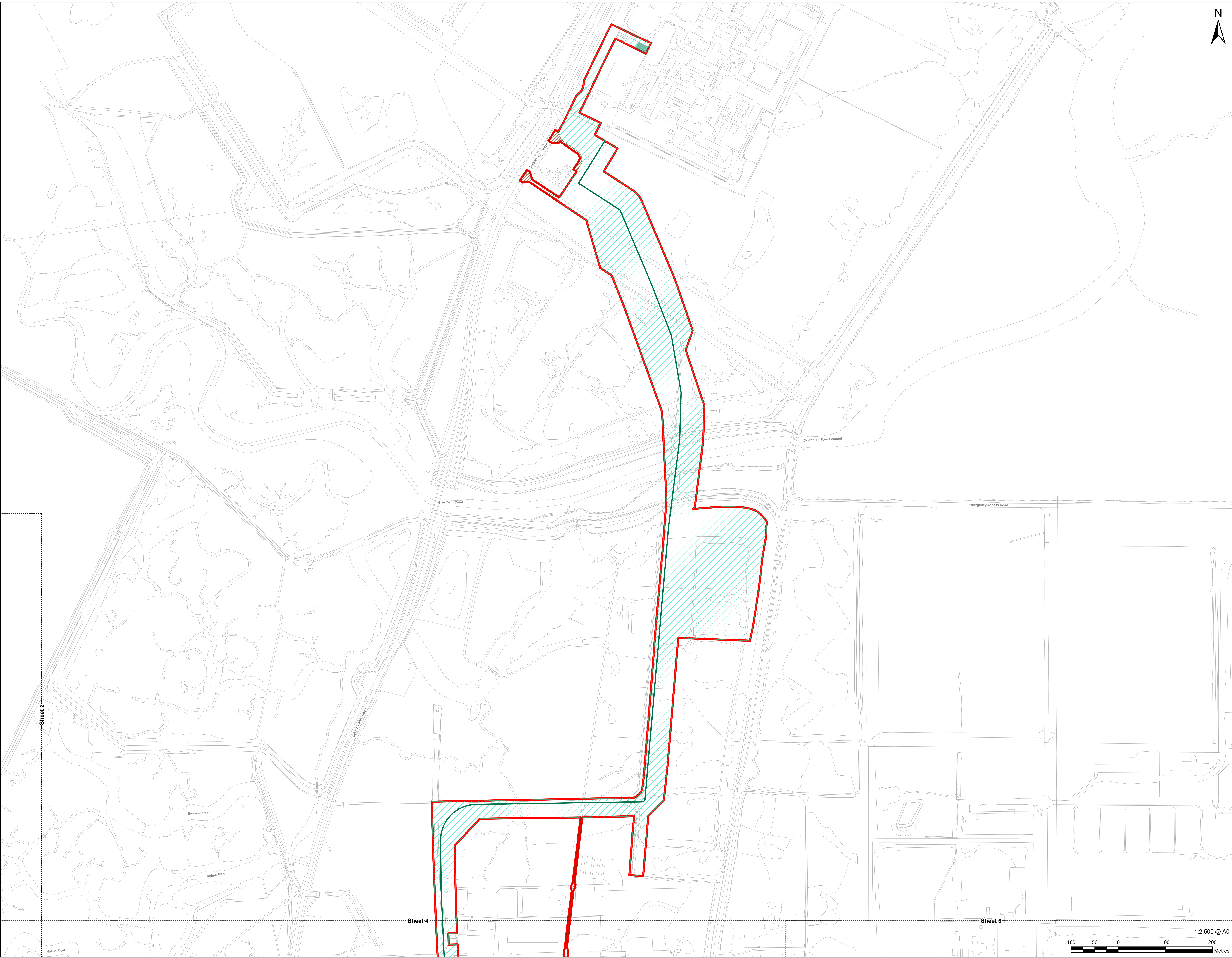


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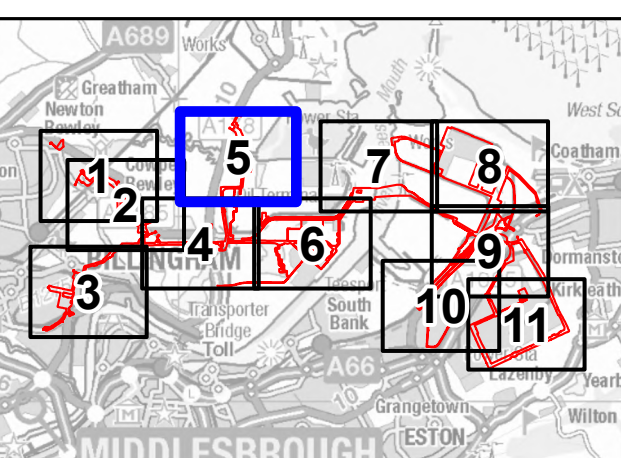
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LEGEND

-  H2Teesside Order Limits
-  Detailed Sheet Number
-  H2Teesside
-  Indicative Hydrogen Routes
-  Work No. 6A.1 - Hydrogen Distribution Network - Overground and Underground Pipelines
-  Work No. 6B.1 - Hydrogen Distribution Network - Above Ground Installations
-  Work No. 10A.1 - Access Highway Improvements and Use



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APPLICATION REFERENCE

ISSUE PURPOSE

FOR EXAMINATION

PROJECT NUMBER

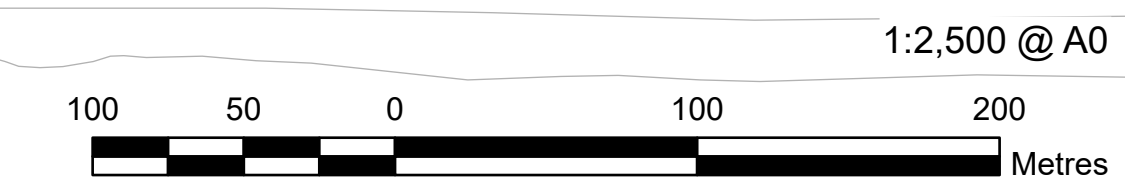
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DRAWING TITLE

Work Plans Summary  
Answer to H2Teesside Second  
Written Questions

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Sheet 5 of 11



Sheet 2

Sheet 4

Sheet 6

















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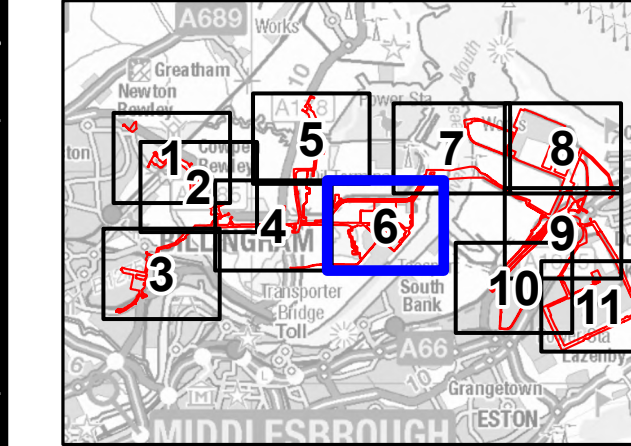
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Sheet 4

**LEGEND**

-  H2Teesside Order Limits
-  Detailed Sheet Number
-  Net Zero Teesside
-  Indicative Carbon Dioxide Pipeline
-  Above Ground Installations
- H2Teesside**
-  Indicative Hydrogen Routes
-  Indicative Natural Gas Pipeline
-  Work No. 2A - Natural Gas Connection - Underground High Pressure Gas Pipeline
-  Work No. 2B - Natural Gas Connection - Above Ground Installation
-  Work No. 2C - Natural Gas Connection - Reconnected High Pressure Gas Pipeline
-  Work No. 6A.1 - Hydrogen Distribution Network - Overground and Underground Pipelines
-  Work No. 6B.1 - Hydrogen Distribution Network - Above Ground Installations
-  Work No. 9 - Temporary Construction Compounds
-  Work No. 10A.1 - Access Highway Improvements and Use

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**APPLICATION REFERENCE**

**ISSUE PURPOSE**

**FOR EXAMINATION**

**PROJECT NUMBER**

60689030

**DRAWING TITLE**

Work Plans Summary  
Answer to H2Teesside Second  
Written Questions

**SHEET NUMBER**

Sheet 6 of 11



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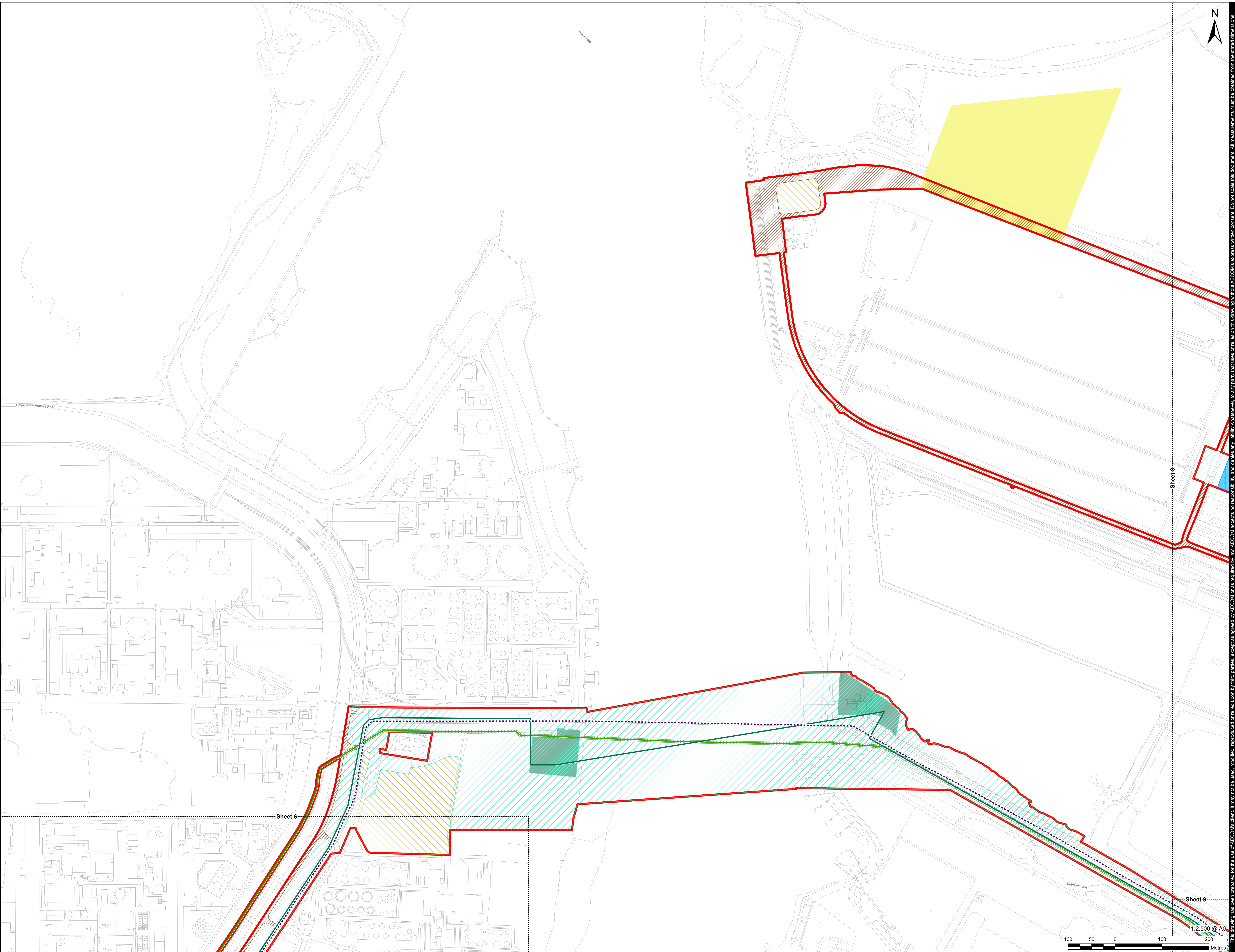
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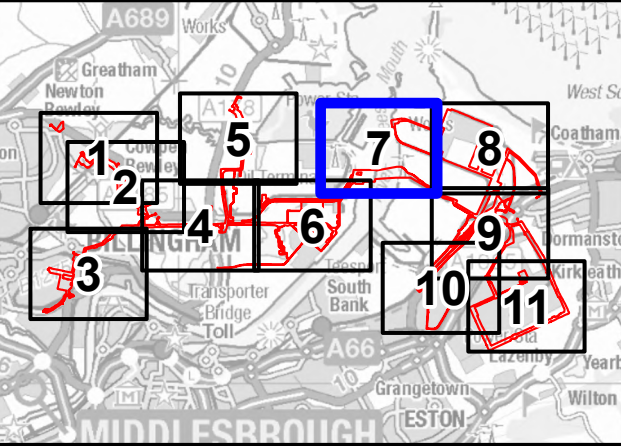


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- H2Teesside Order Limits
- - - - Detailed Sheet Number
- HyGreen
- Main Site
- Temporary Construction Compounds and Laydown Areas
- - - - Net Zero Teesside
- - - - Indicative Carbon Dioxide Pipeline
- H2Teesside**
- Indicative Hydrogen Routes
- Indicative Natural Gas Pipeline
- Work No. 1A.2 - Phase 2 Hydrogen Unit
- Work No. 1B.2 - Water Connections and Water and Effluent Treatment Plant for Work No. 1A.2
- Work No. 1C - Above Ground Pressurised Hydrogen Storage
- Work No. 1D - Administration, Control Room and Stores
- Work No. 2C - Natural Gas Connection - Reconnected High Pressure Gas Pipeline
- Work No. 6A.1 - Hydrogen Distribution Network - Overground and Underground Pipelines
- Work No. 6B.1 - Hydrogen Distribution Network - Above Ground Installations
- Work No. 9 - Temporary Construction Compounds
- Work No. 10A.1 - Access Highway Improvements and Use



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APPLICATION REFERENCE

ISSUE PURPOSE

FOR EXAMINATION

PROJECT NUMBER

60689030

DRAWING TITLE

Work Plans Summary  
Answer to H2Teesside Second  
Written Questions

SHEET NUMBER

Sheet 7 of 11

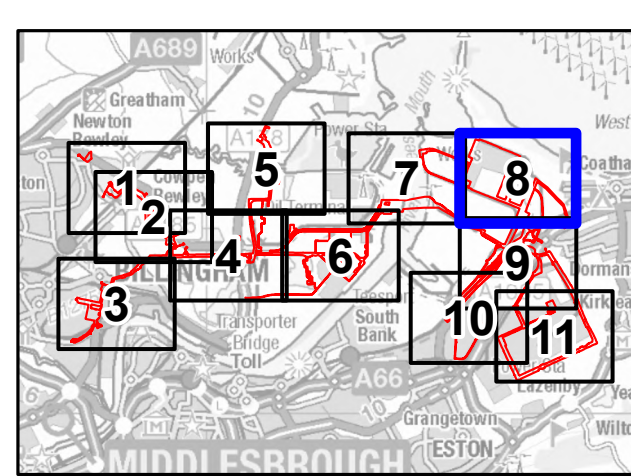




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- H2Teesside Order Limits
- Detailed Sheet Number
- HyGreen
- Indicative Hydrogen Routes
- Indicative Water Connection (Water Supply Line)
- Indicative Water Connection (Process Effluent Discharge)
- Indicative Electrical Connection
- Main Site
- Above Ground Installations
- Net Zero Teesside
- Indicative Gas Pipeline
- Indicative Electrical Connection
- Indicative Carbon Dioxide Pipeline
- Indicative Carbon Dioxide Export Pipeline
- Indicative Wastewater Disposal
- Indicative Water Supply
- Main Site
- H2Teesside
- Drainage Option
- Indicative Carbon Dioxide Pipeline
- Indicative Electrical Connection
- Indicative Hydrogen Routes
- Indicative Natural Gas Pipeline
- Indicative Other Gases Connection
- Indicative Wastewater Disposal and Drainage Option
- Indicative Water Supply
- Work No. 1A.1 - Phase 1 Hydrogen Unit
- Work No. 1A.2 - Phase 2 Hydrogen Unit
- Work No. 1B.1 - Water Connections and Water and Effluent Treatment Plant for Work Nos. 1A.1 and 1A.2
- Work No. 1B.2 - Water Connections and Water and Effluent Treatment Plant for Work No. 1A.2
- Work No. 1C - Above Ground Pressurised Hydrogen Storage
- Work No. 1D - Administration, Control Room and Stores
- Work No. 1E.1 - Connections and Ancillary Works in Connection with Work Nos. 1A.1, 1A.2, 1C and 1D
- Work No. 1E.2 - Connections and Ancillary Works in Connection with Work No. 1A.2
- Work No. 2A - Natural Gas Connection - Underground High Pressure Gas Pipeline
- Work No. 2B - Natural Gas Connection - Above Ground Installation
- Work No. 2C - Natural Gas Connection - Reconnected High Pressure Gas Pipeline
- Work No. 3A - Electrical Connection Works
- Work No. 3B.1 - Electrical Connection - Above Ground Installation Connecting Work No. 3A to Pellet-Sinter Substation
- Work No. 3B.3 - Electrical Connection - Above Ground Installation Connecting Work No. 3A to a New Substation
- Work No. 4 - Water Supply Connection Works
- Work No. 5 - Wastewater Disposal Works
- Work No. 6A.1 - Hydrogen Distribution Network - Overground and Underground Pipelines
- Work No. 7A - Carbon Dioxide - Export Pipeline
- Work No. 7B - Carbon Dioxide - Above Ground Installation
- Work No. 8 - Oxygen and Nitrogen Gas Connections
- Work No. 10A.1 - Access Highway Improvements and Use

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APPLICATION REFERENCE

ISSUE PURPOSE

FOR EXAMINATION

PROJECT NUMBER

60689030

DRAWING TITLE

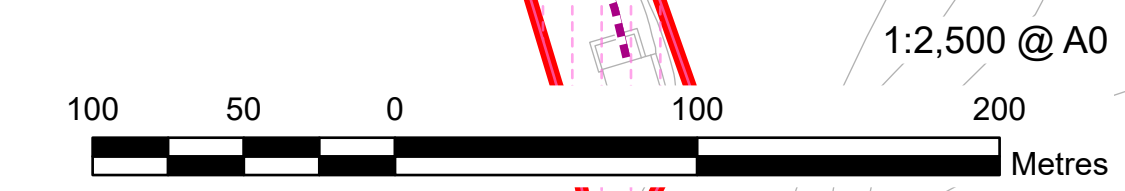
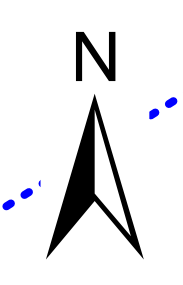
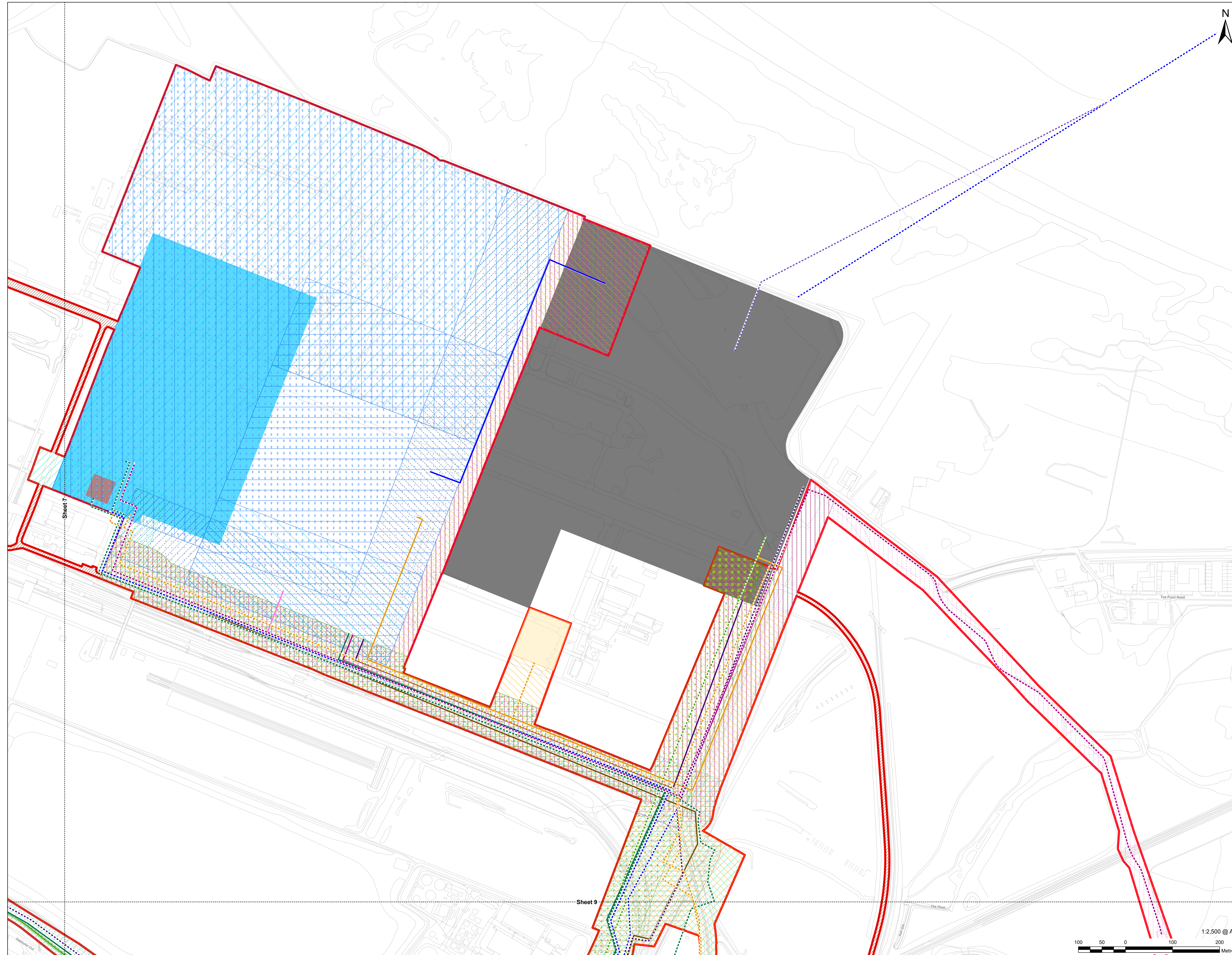
Work Plans Summary

Answer to H2Teesside Second

Written Questions

SHEET NUMBER

Sheet 8 of 11

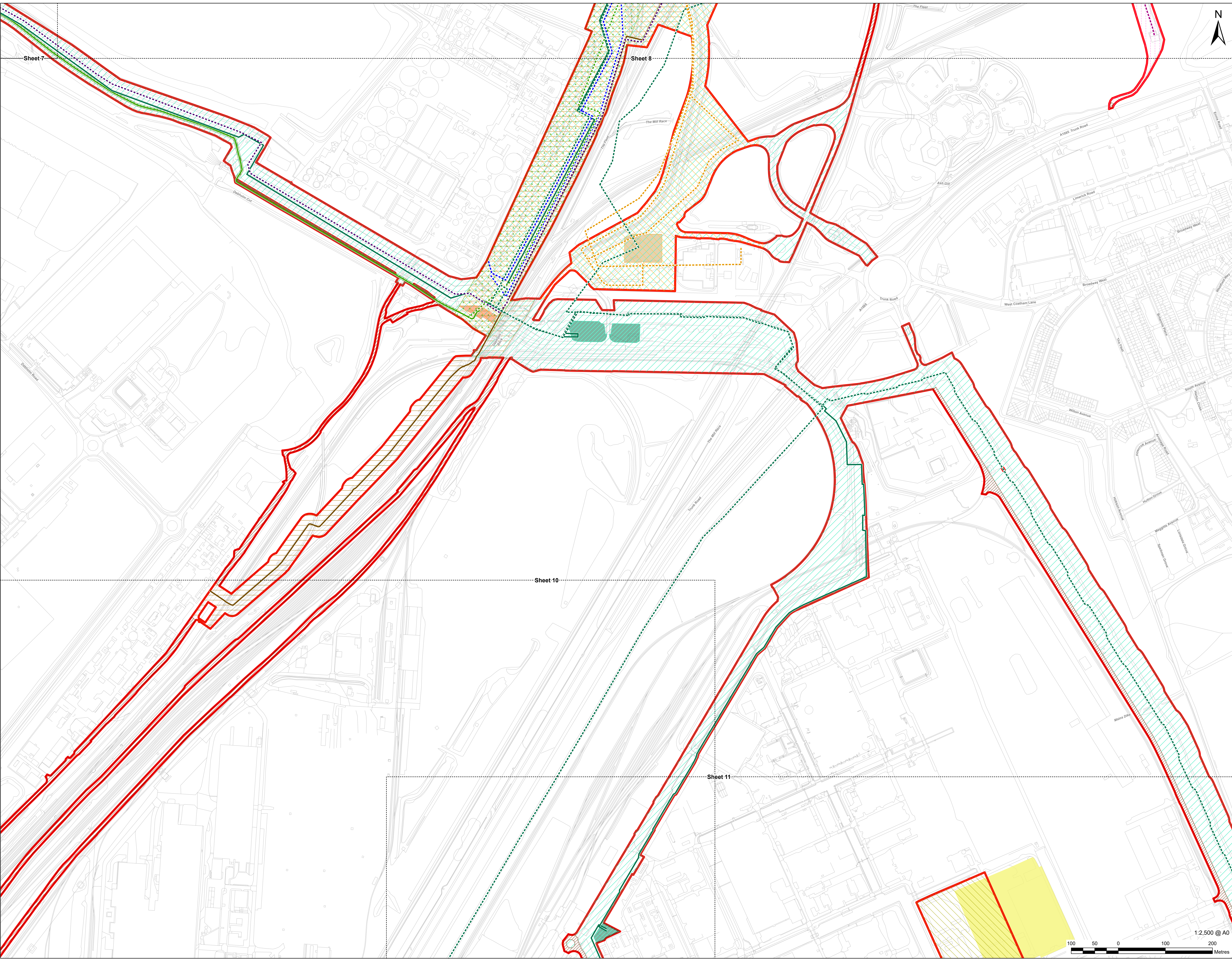


Sheet 9

Sheet 7

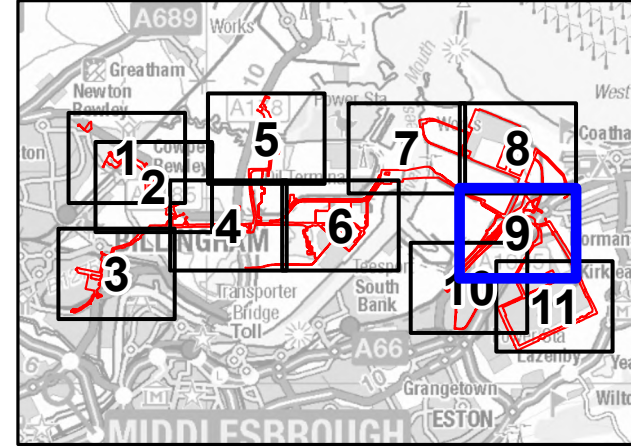
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- LEGEND**
- H2Teesside Order Limits
  - Detailed Sheet Number
  - HyGreen**
  - Indicative Hydrogen Routes
  - Indicative Water Connection (Water Supply Line)
  - Indicative Water Connection (Process Effluent Discharge)
  - Indicative Electrical Connection
  - Temporary Construction Compounds and Laydown Areas
  - Net Zero Teesside**
  - Indicative Gas Pipeline
  - Indicative Electrical Connection
  - Indicative Carbon Dioxide Pipeline
  - Indicative Wastewater Disposal
  - Indicative Water Supply
  - Above Ground Installations
  - H2Teesside**
  - Indicative Electrical Connection
  - Indicative Hydrogen Routes
  - Indicative Natural Gas Pipeline
  - Indicative Other Gases Connection
  - Indicative Water Supply
  - Work No. 2A - Natural Gas Connection - Underground High Pressure Gas Pipeline
  - Work No. 2C - Natural Gas Connection - Reconnected High Pressure Gas Pipeline
  - Work No. 3A - Electrical Connection Works
  - Work No. 3B.2 - Electrical Connection - Above Ground Installation Connecting Work No. 3A to Tod Point Substation
  - Work No. 4 - Water Supply Connection Works
  - Work No. 6A.1 - Hydrogen Distribution Network - Overground and Underground Pipelines
  - Work No. 6B.1 - Hydrogen Distribution Network - Above Ground Installations
  - Work No. 8 - Oxygen and Nitrogen Gas Connections
  - Work No. 9 - Temporary Construction Compounds
  - Work No. 10A.1 - Access Highway Improvements and Use

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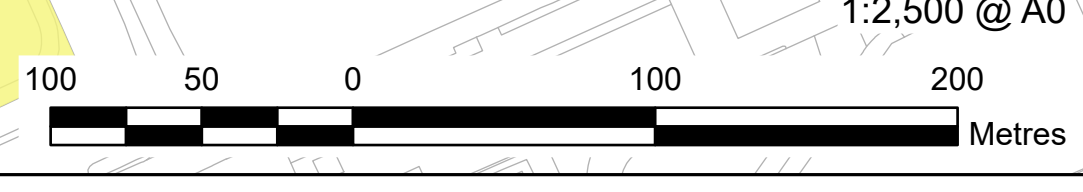
**APPLICATION REFERENCE**

**ISSUE PURPOSE**  
FOR EXAMINATION

**PROJECT NUMBER**  
60689030

**DRAWING TITLE**  
Work Plans Summary  
Answer to h2Teesside Second  
Written Questions

**SHEET NUMBER**  
Sheet 9 of 11



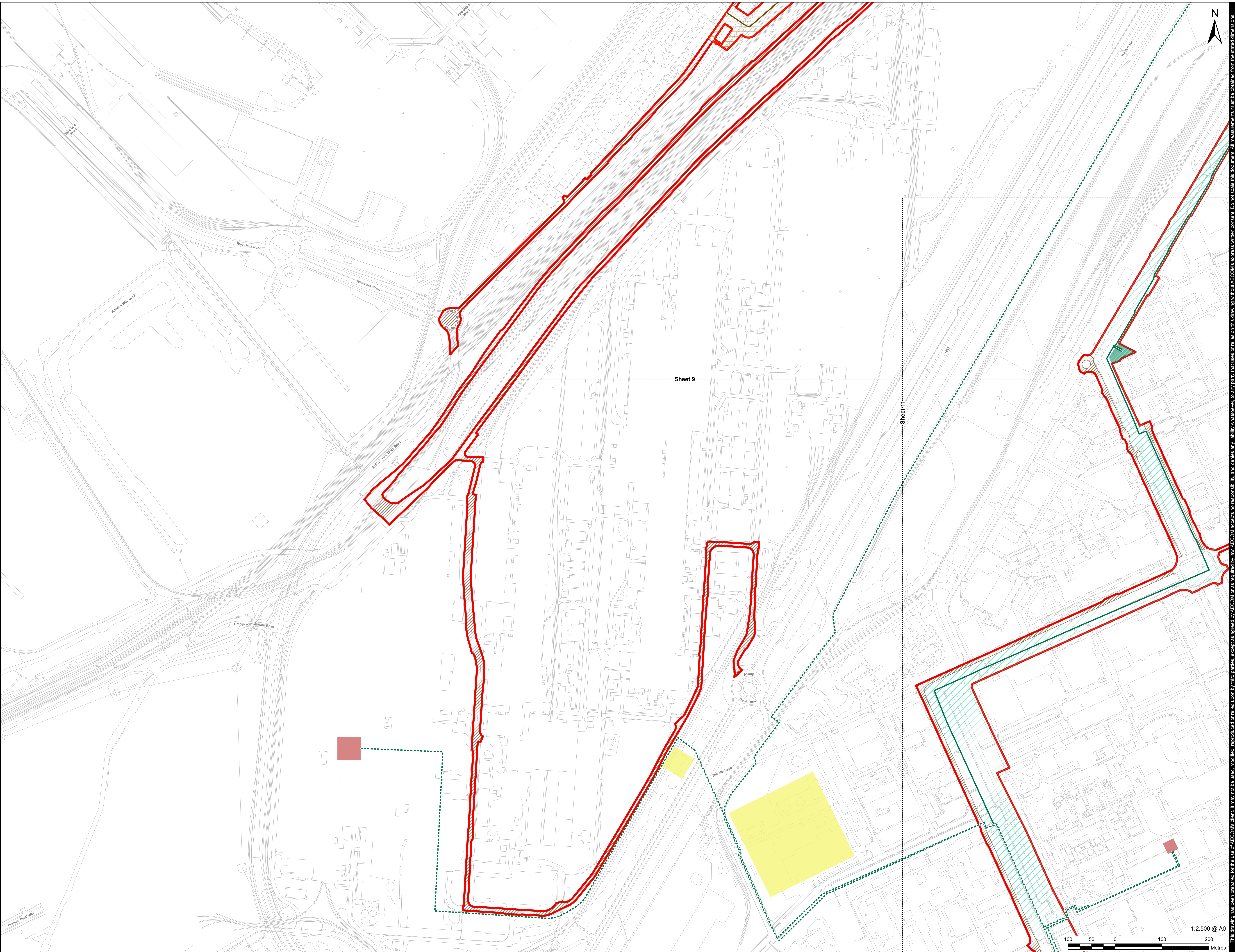
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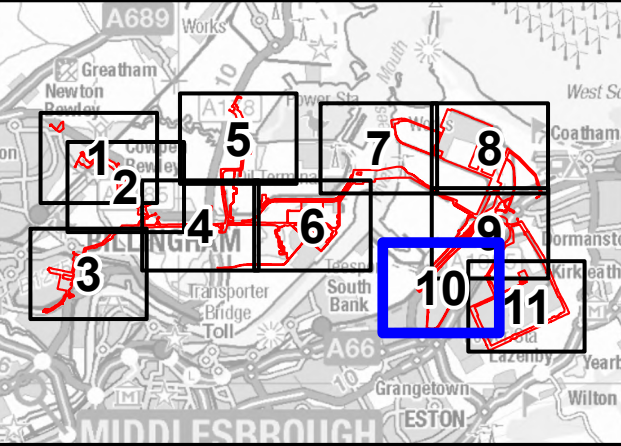


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- H2Teesside Order Limits
- - - - Detailed Sheet Number
- - - - HyGreen
- - - - Indicative Hydrogen Routes
- Above Ground Installations
- Temporary Construction Compounds and Laydown Areas
- Net Zero Teesside**
- H2Teesside**
- Indicative Hydrogen Routes
- Indicative Other Gases Connection
- - - - Work No. 6A.1 - Hydrogen Distribution Network - Overground and Underground Pipelines
- - - - Work No. 6B.1 - Hydrogen Distribution Network - Above Ground Installations
- - - - Work No. 8 - Oxygen and Nitrogen Gas Connections
- - - - Work No. 10A.1 - Access Highway Improvements and Use



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APPLICATION REFERENCE

ISSUE PURPOSE

FOR EXAMINATION

PROJECT NUMBER

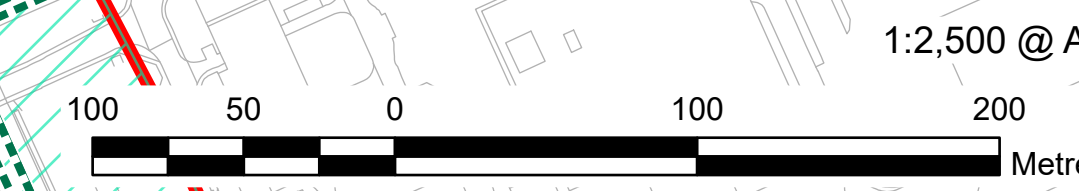
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DRAWING TITLE

Work Plans Summary  
Answer to H2Teesside Second  
Written Questions

SHEET NUMBER

Sheet 10 of 11



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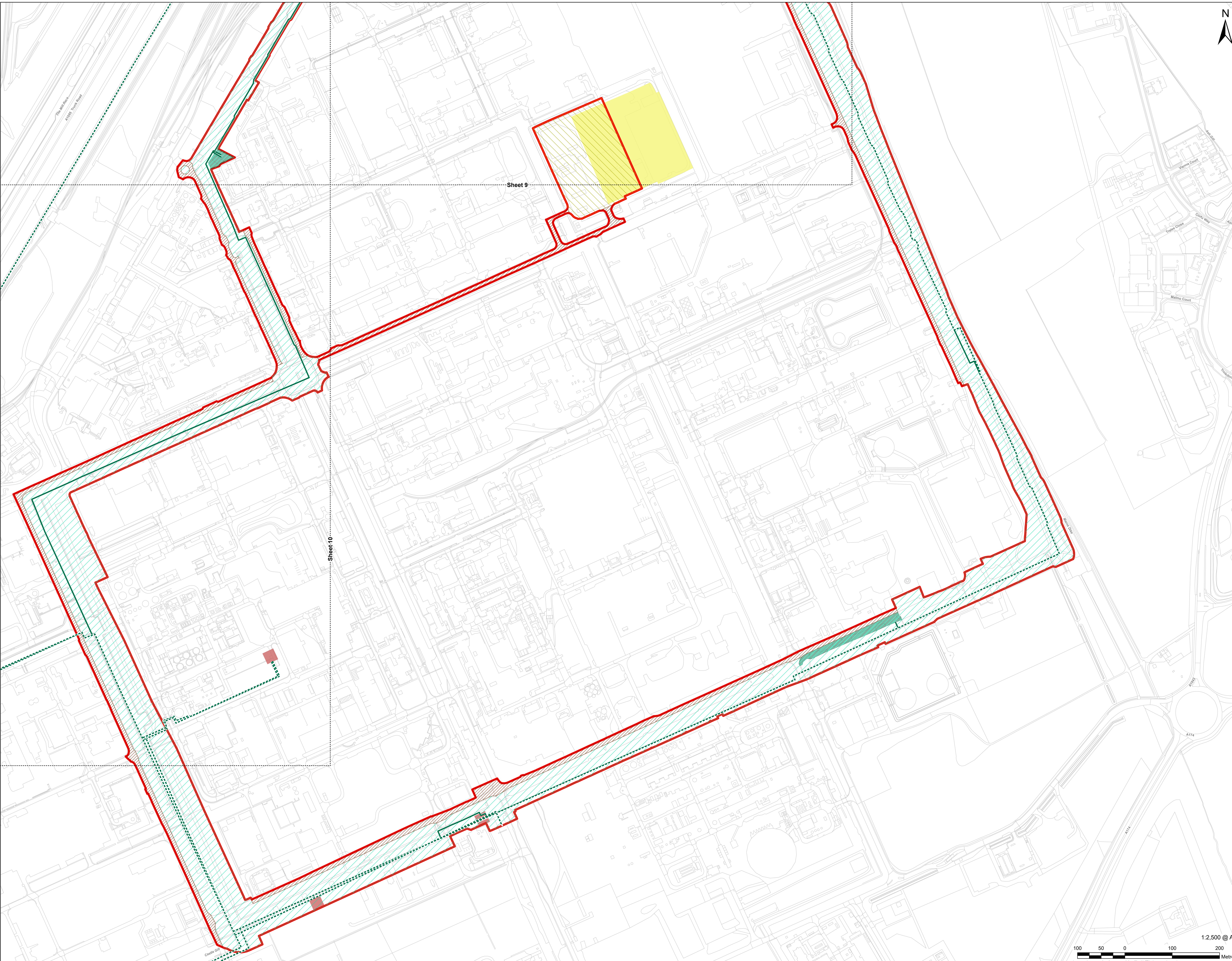
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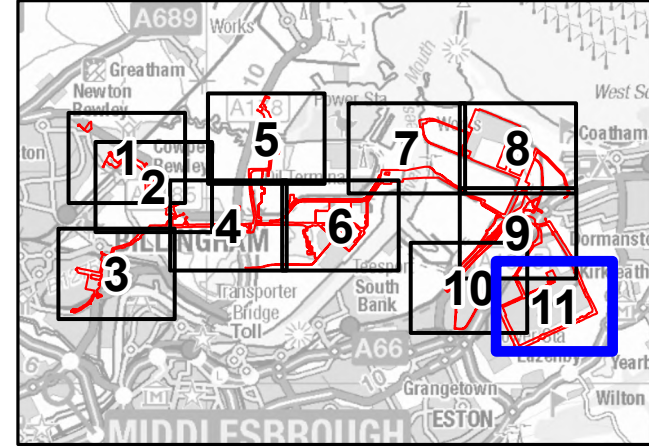


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- H2Teesside Order Limits
- - - - Detailed Sheet Number
- - - - HyGreen
- - - - Indicative Hydrogen Routes
- Above Ground Installations
- Temporary Construction Compounds and Laydown Areas
- H2Teesside**
- - - - Indicative Hydrogen Routes
- - - - Work No. 6A.1 - Hydrogen Distribution Network - Overground and Underground Pipelines
- - - - Work No. 6B.1 - Hydrogen Distribution Network - Above Ground Installations
- - - - Work No. 9 - Temporary Construction Compounds
- - - - Work No. 10A.1 - Access Highway Improvements and Use



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ISSUE PURPOSE

FOR EXAMINATION

PROJECT NUMBER

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DRAWING TITLE

Work Plans Summary  
Answer to H2Teesside Second  
Written Questions

SHEET NUMBER

Sheet 11 of 11

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