

KEADBY 3 **CARBON CAPTURE POWER STATION**

A collaboration between **SSE Thermal** and **Equinor**

Document Ref: 4.7

Planning Inspectorate Ref: EN010114

The Keadby 3 (Carbon Capture Equipped Gas Fired Generating Station) Order

Land at and in the vicinity of the Keadby Power Station site, Trentside, Keadby, North Lincolnshire

Indicative Proposed Power and Carbon Capture Layout, Elevations and Sections

The Planning Act 2008

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

Applicant: Keadby Generation Limited

Date: May 2022

DOCUMENT HISTORY

Document Ref	4.7
Revision	VP2.0 –Change Request
Content	Sheets 1-5: Key Plan and Plans and Elevations of Single Absorber Option Sheets 6-10: Key Plan and Plans and Elevations of Twin Absorber Option
Document Owner	AECOM

PROJECT

The Keadby 3 (Carbon Capture Equipped Gas Fired Generating Station) Order



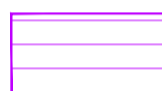


APPLICANT

Keadby Generation Limited

CONSULTANT

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LEGEND

-  THE ORDER LIMITS
- Works Plan:
 -  WORK NO. 1A CCGT PLANT
 -  WORK NO. 1B CCGT COOLING INFRASTRUCTURE
 -  WORK NO. 1C CARBON CAPTURE PLANT
 -  WORK NO. 1E GENERATING STATION SUPPORTING USES

ISSUE/REVISION

NO	DATE	DESCRIPTION
02	05/04/2022	DCO APPLICATION
01	01/06/2021	DCO APPLICATION
I/R		

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The Keadby 3 Low Carbon Generating Station Order
Regulation 5(2)(o) - Infrastructure Planning (Applications: Prescribed Forms and Procedures) Regulations 2009

ISSUE PURPOSE

DCO APPLICATION

PROJECT NUMBER

60625943

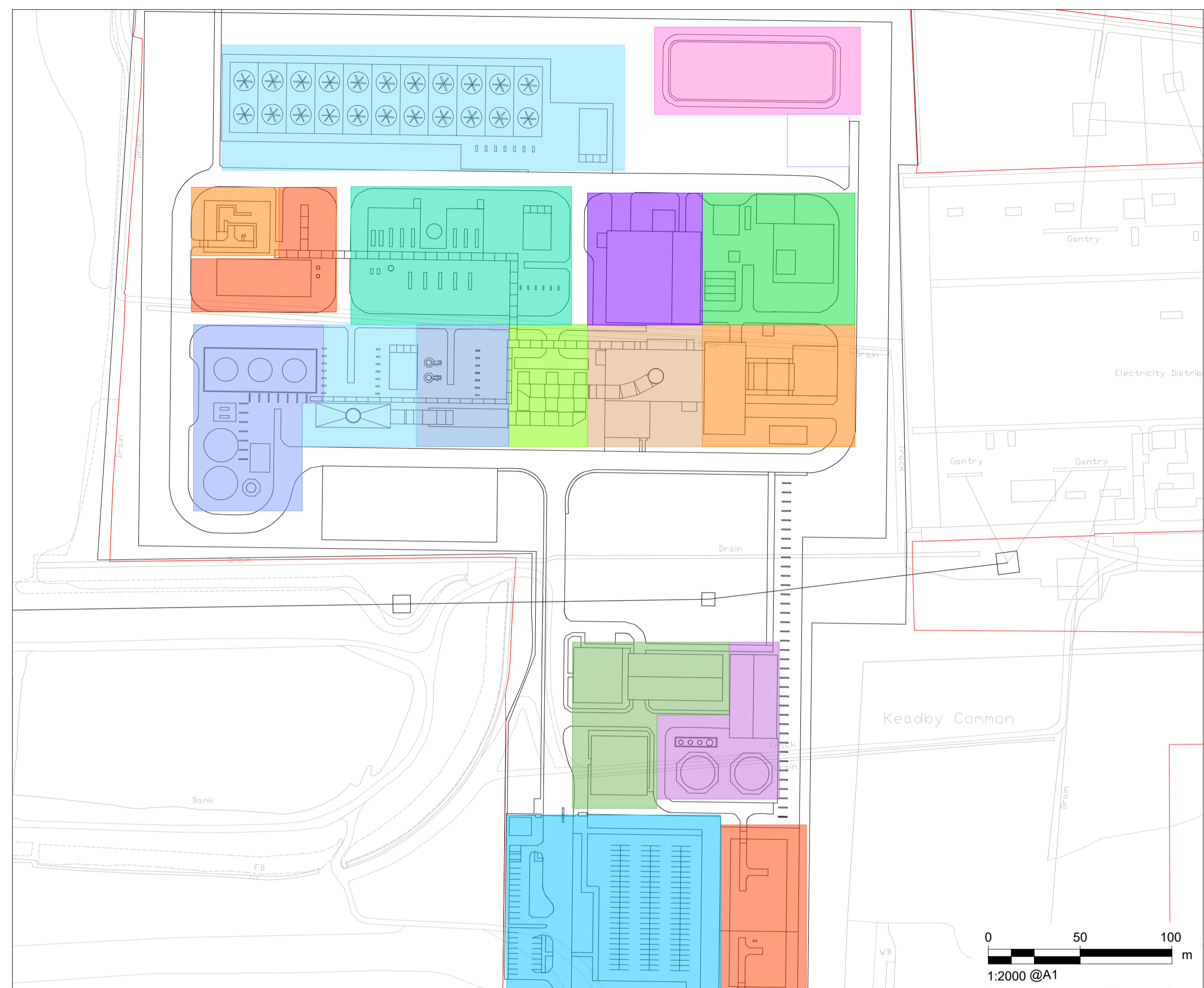
SHEET TITLE

Indicative Proposed Power and Carbon Capture Layout and Elevations/Section Plans Single Large Absorber
Sheet 1 of 10 - Key Plan

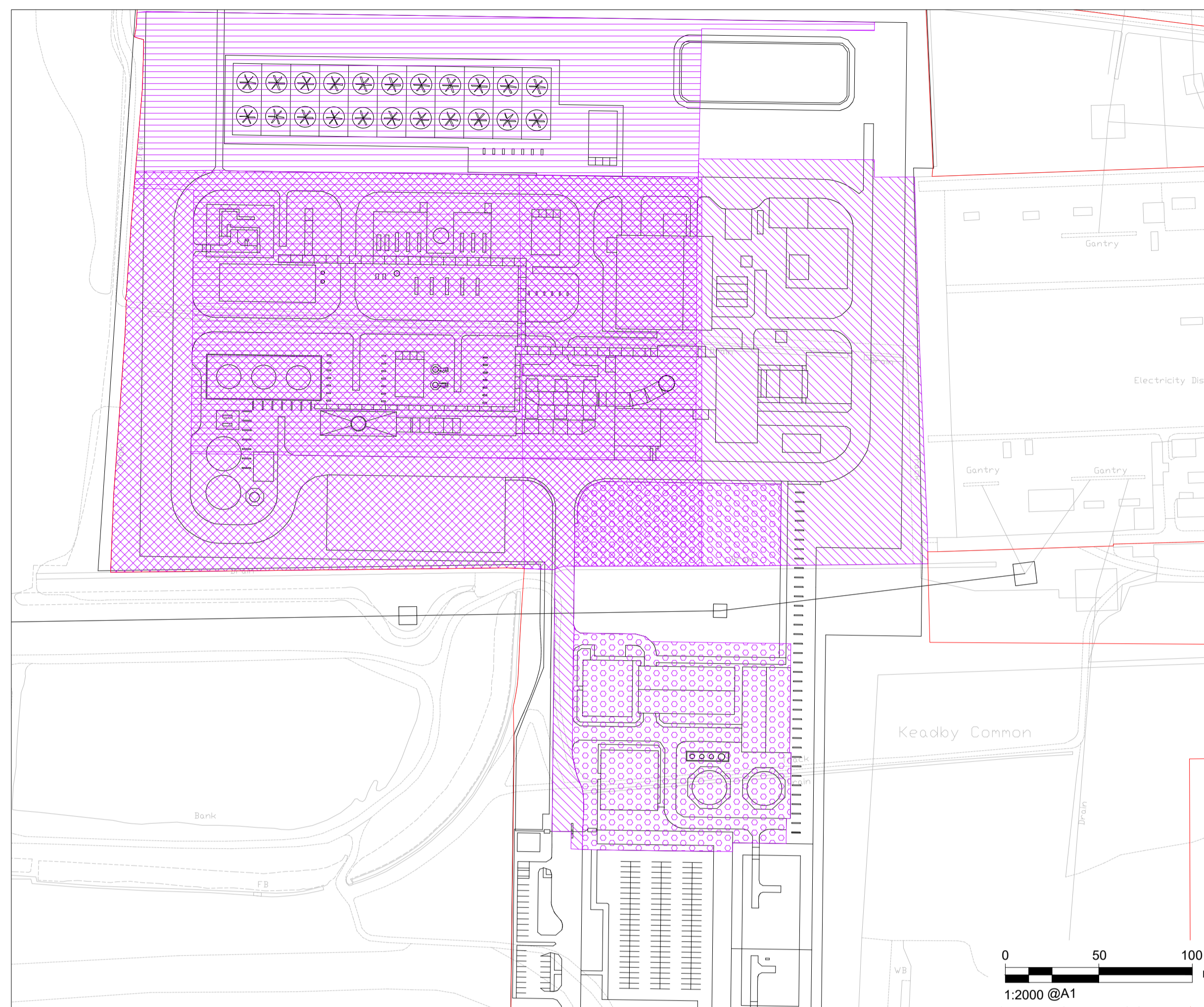
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60625943-PE-DRG-001

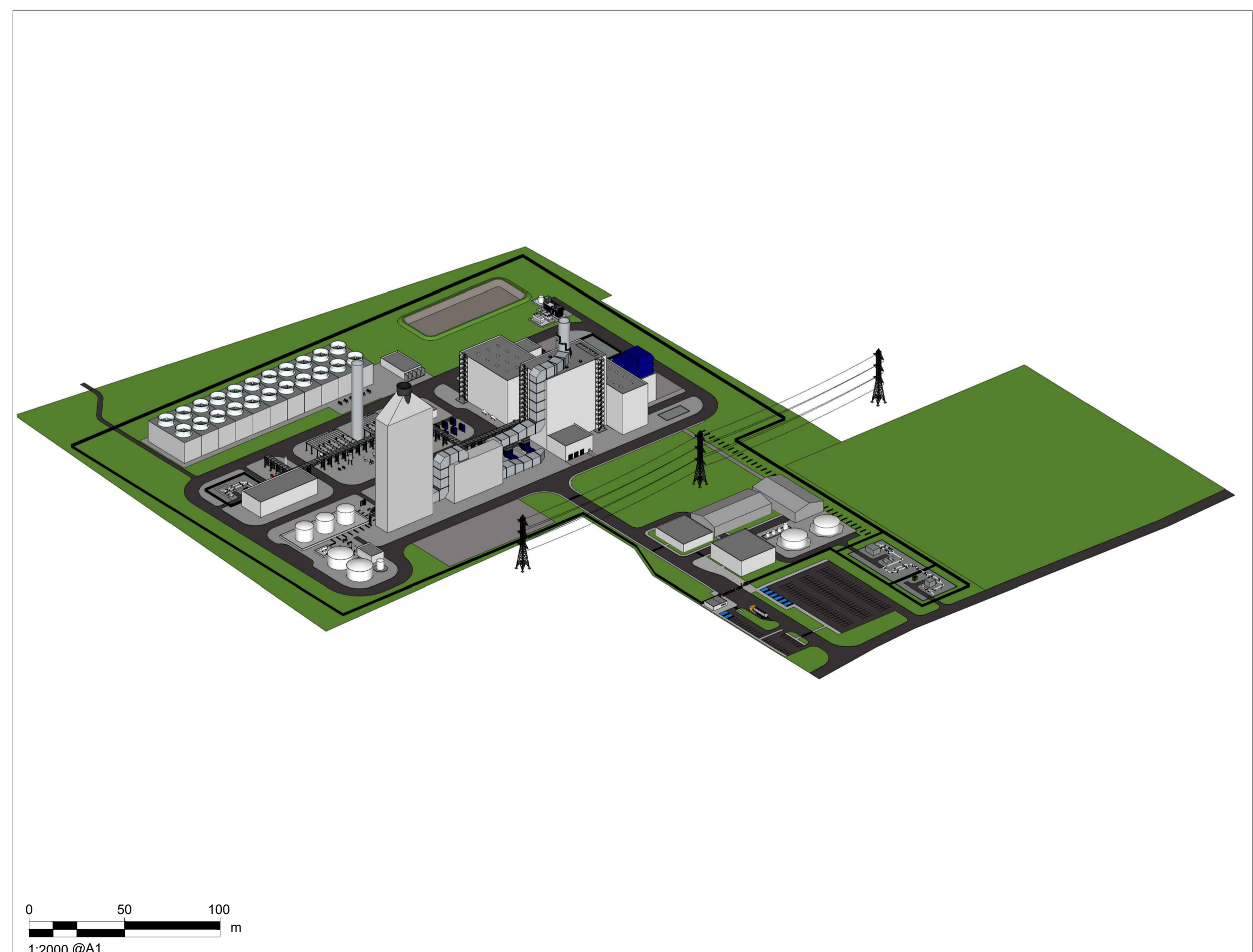
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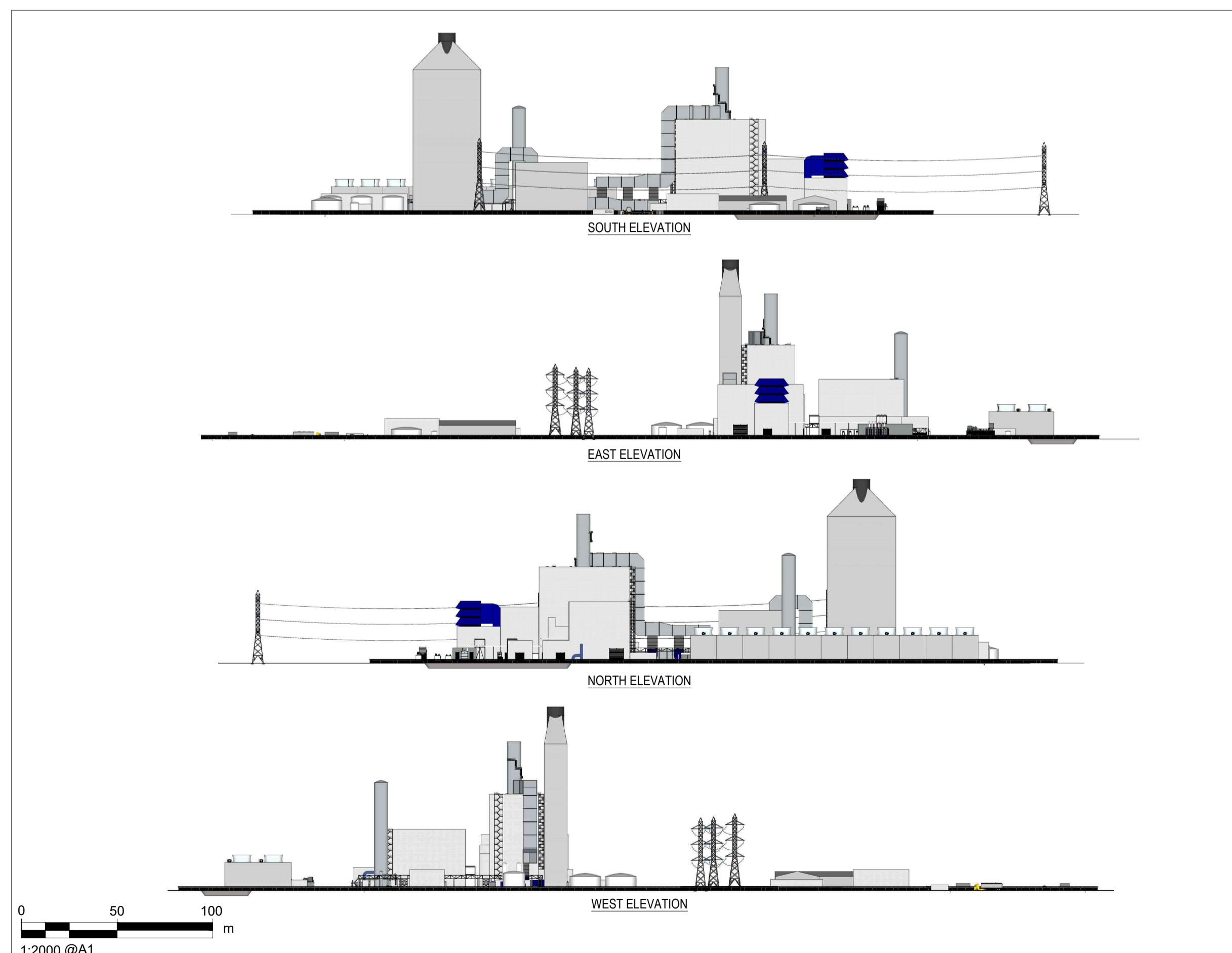
SHEET 2 OF 10 - LAYOUT VIEW SINGLE LARGE ABSORBER



SHEET 3 OF 10 - LAYOUT VIEW SINGLE LARGE ABSORBER



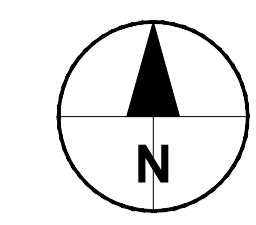
SHEET 4 OF 10 - 3D AERIAL VIEW SINGLE LARGE ABSORBER



SHEET 5 OF 10 - ELEVATIONS VIEW SINGLE LARGE ABSORBER

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THE ORDER LIMITS

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The Keadby 3 (Carbon Capture Equipped Gas Fired Generating Station) Order Regulation 5(2)(o) - Infrastructure Planning (Applications: Prescribed Forms and Procedures) Regulations 2009

ISSUE PURPOSE

DCO APPLICATION

PROJECT NUMBER

60625943

SHEET TITLE

Indicative Proposed Power and Carbon Capture Layout and Elevations/Section Plans Single Large Absorber Sheet 2 of 10 - Layout View

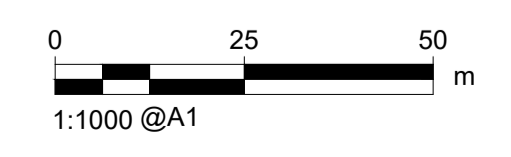
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#	Area
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B	Gas Turbine and Auxiliaries
C	HRSG and Auxiliaries
D	Steam Turbine and Auxiliaries
E	Power Island Electrical Equipment
F	Flue Gas Fans and Ducting
G	Flue Gas Cooling
H	Absorber
I	Stripping and Reclaiming
J	Storage and offsites
K	Compression and Dehydration
L	National Grid CO2 AGI
M	Cooling Towers
N	Gate house, security and parking
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Q	Attenuation pond



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DCO APPLICATION

PROJECT NUMBER

60625943

SHEET TITLE

Indicative Proposed Power and Carbon Capture Layout and Elevations/Section Plans Single Large Absorber
Sheet 3 of 10 - Layout View

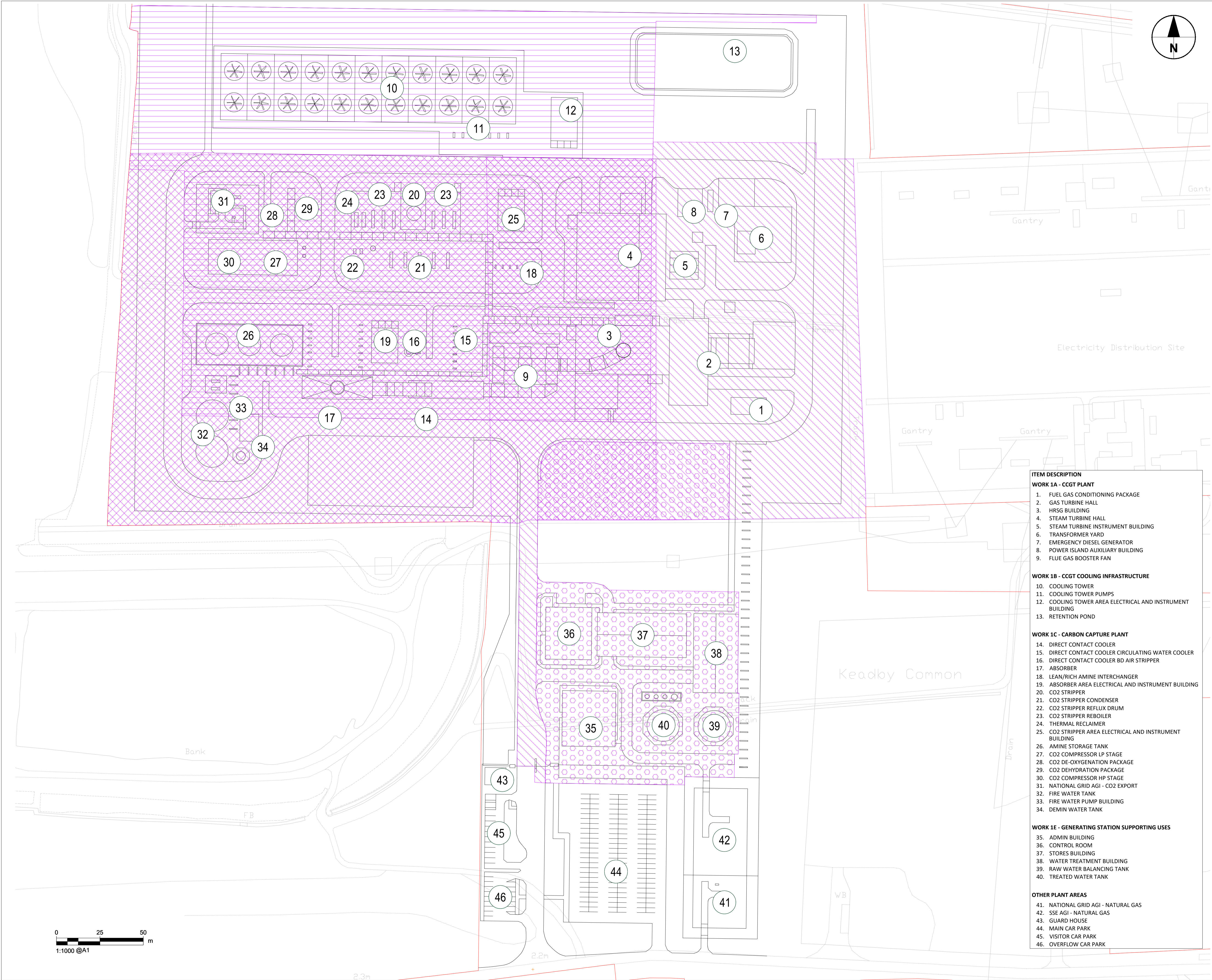
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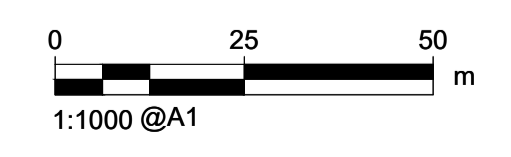
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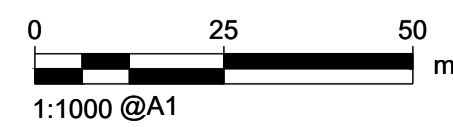
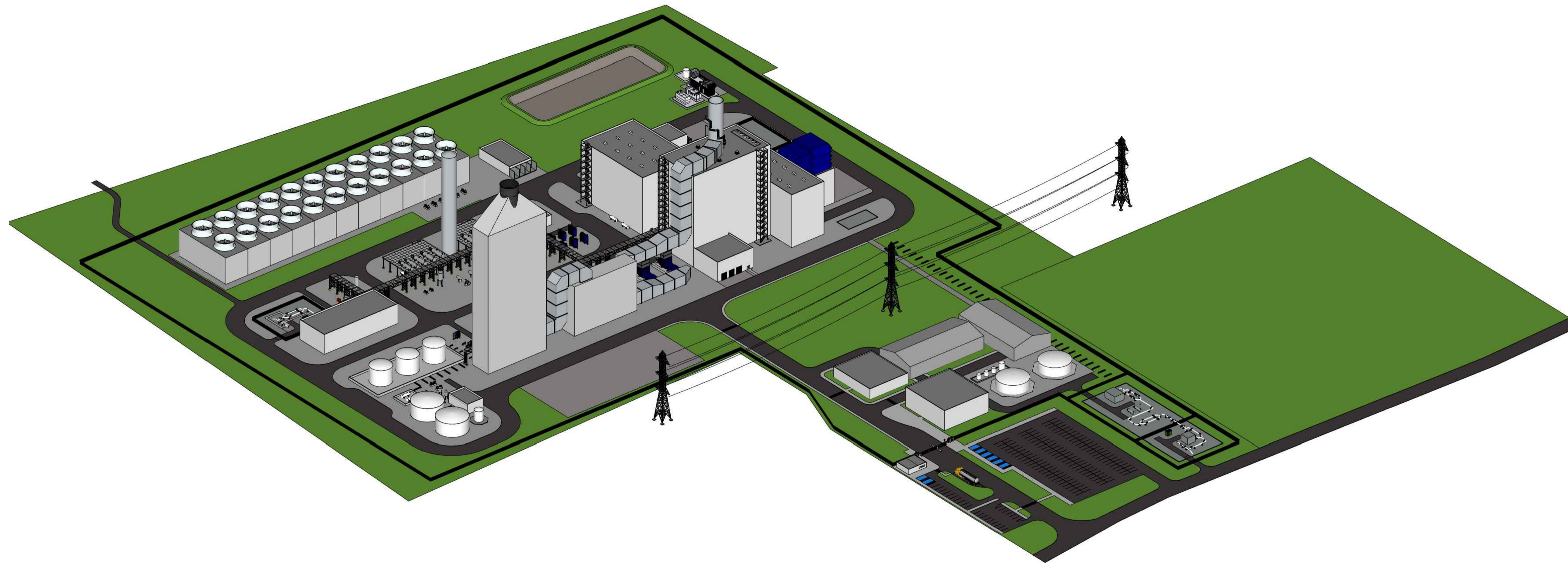
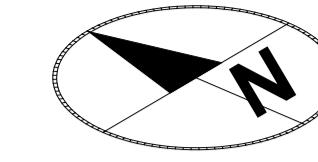


- ITEM DESCRIPTION**
- WORK 1A - CCGT PLANT**
- FUEL GAS CONDITIONING PACKAGE
 - GAS TURBINE HALL
 - HRSG BUILDING
 - STEAM TURBINE HALL
 - STEAM TURBINE INSTRUMENT BUILDING
 - TRANSFORMER YARD
 - EMERGENCY DIESEL GENERATOR
 - POWER ISLAND AUXILIARY BUILDING
 - FLUE GAS BOOSTER FAN
- WORK 1B - CCGT COOLING INFRASTRUCTURE**
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 - COOLING TOWER PUMPS
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 - ABSORBER AREA ELECTRICAL AND INSTRUMENT BUILDING
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 - CO2 STRIPPER CONDENSER
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 - CO2 STRIPPER REBOILER
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- WORK 1E - GENERATING STATION SUPPORTING USES**
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PROJECT

The Keadby 3 (Carbon Capture Equipped Gas Fired Generating Station) Order

APPLICANT

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LEGEND

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The Keadby 3 Low Carbon Generating Station Order Regulation 5(2)(o) - Infrastructure Planning (Applications: Prescribed Forms and Procedures) Regulations 2009

ISSUE PURPOSE

DCO APPLICATION

PROJECT NUMBER

60625943

SHEET TITLE

Indicative Proposed Power and Carbon Capture Layout and Elevations/Section Plans Single Large Absorber
Sheet 4 of 10 - 3D Aerial View

SHEET NUMBER

Application Document Ref. 4.7
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PROJECT

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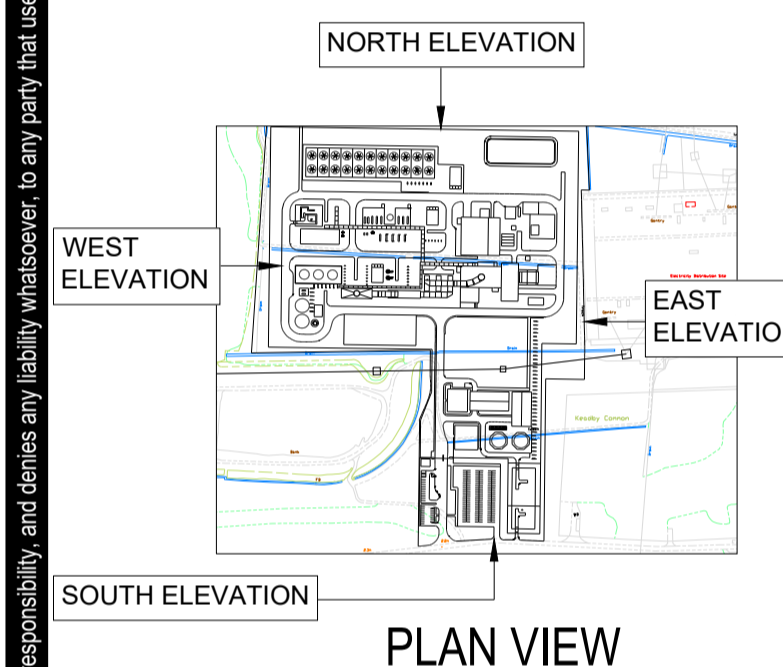
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SHEET TITLE

Indicative Proposed Power and Carbon Capture Layout and Elevations/Section Plans Single Large Absorber Sheet 5 of 10 - Elevations View

SHEET NUMBER

Application Document Ref. 4.7
60625943-PE-DRG-005

Absorber Stack
Maximum Anticipated Height 105m (AGL, AOD is 107.8m)

CO2 Stripper
Maximum Anticipated Height 63m (AGL, AOD is 65.8)

Direct Contact Cooler

HSRG Building Stack
Maximum Anticipated Height 85m (AGL, AOD is 87.8m)

HSRG Building
Maximum Anticipated Height 56m (AGL, AOD is 58.8m)

Gas Turbine Hall
Maximum Anticipated Height 32m (AGL, AOD is 34.8m)

Gas Turbine Generator Hall

SOUTH ELEVATION

Existing OHL Towers and Transmission Lines

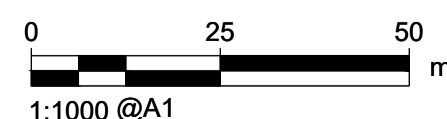
Steam Turbine Hall
Maximum Anticipated Height 35m (AGL, AOD is 37.8m)

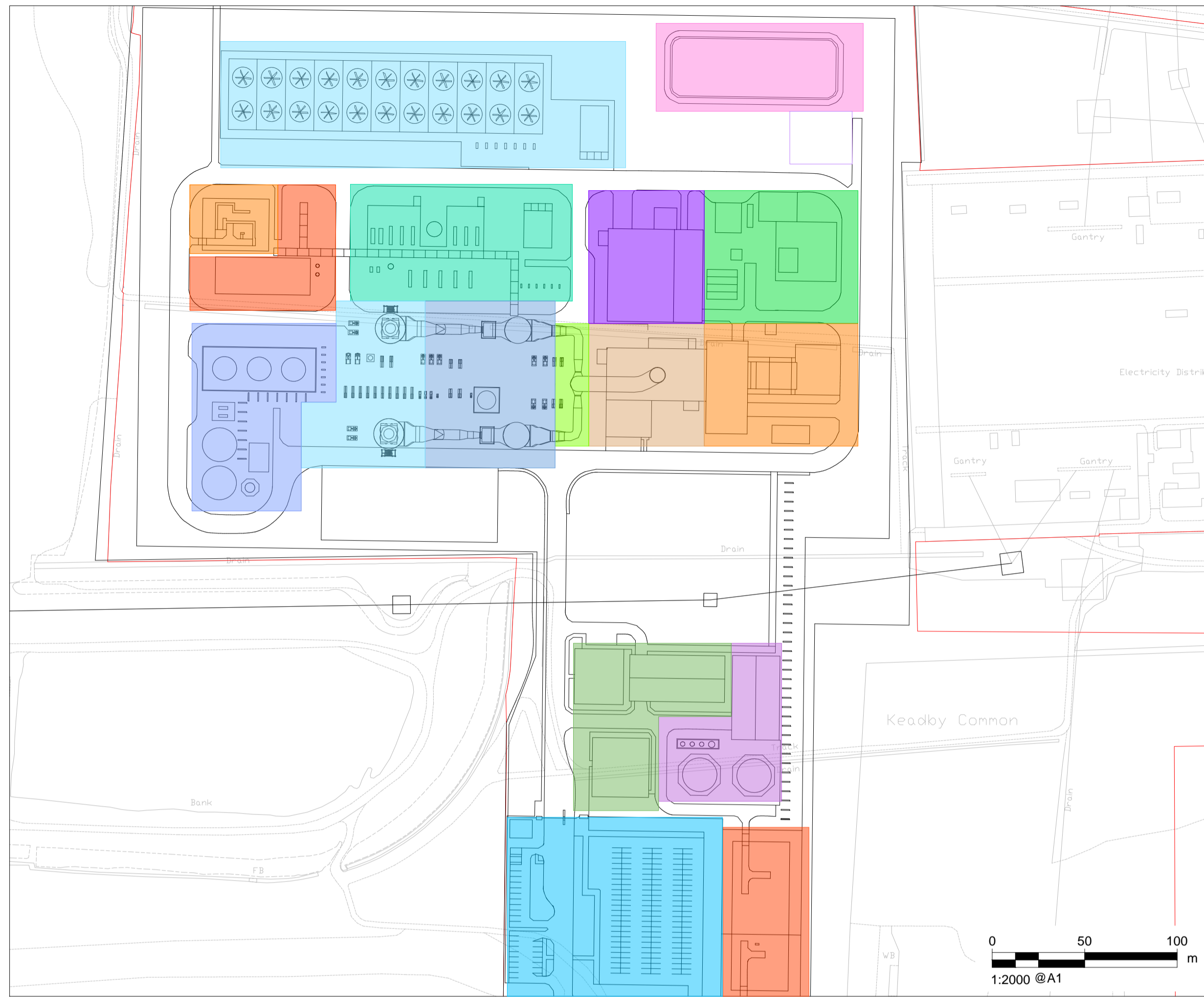
EAST ELEVATION

Cooling Tower

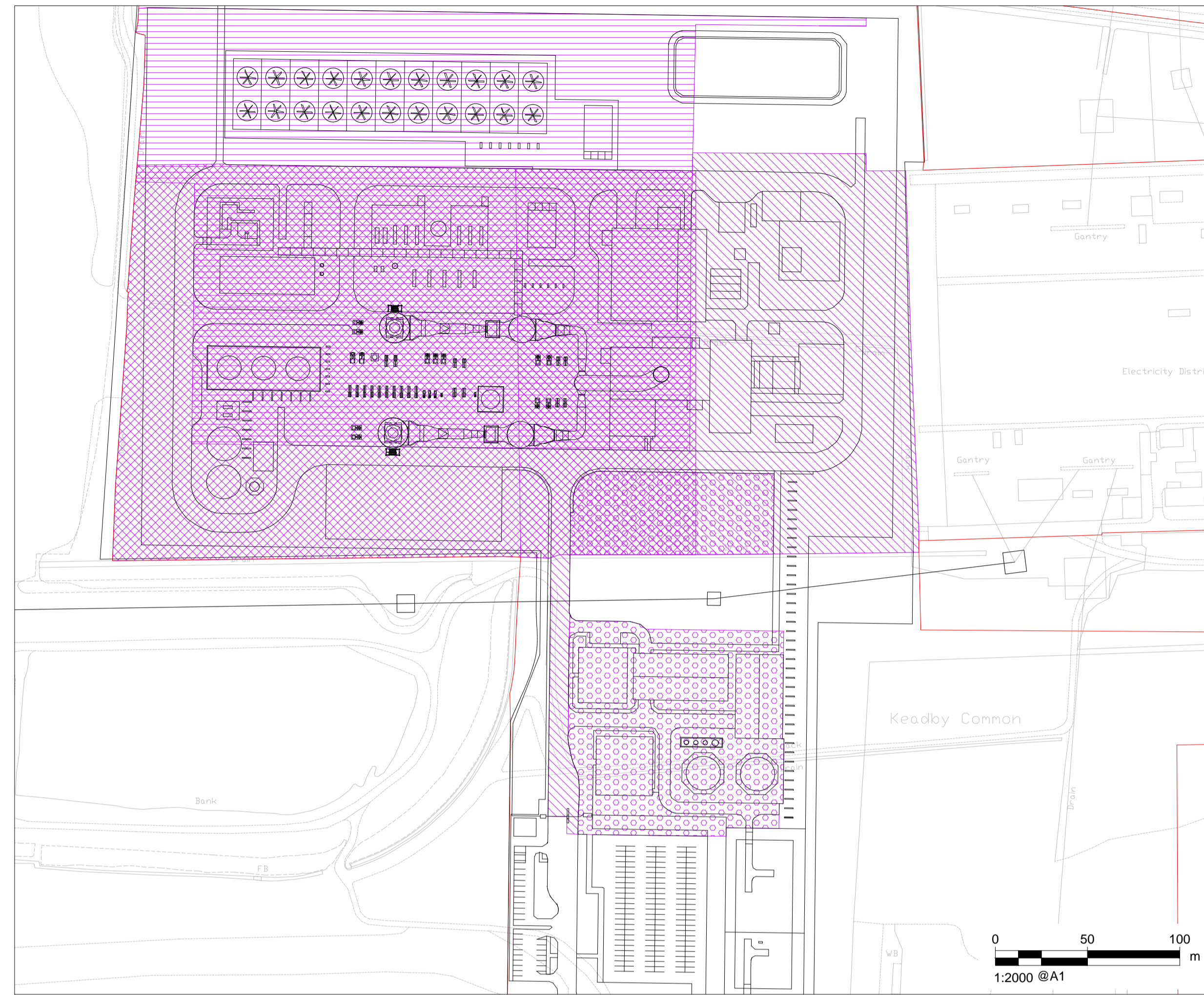
NORTH ELEVATION

WEST ELEVATION





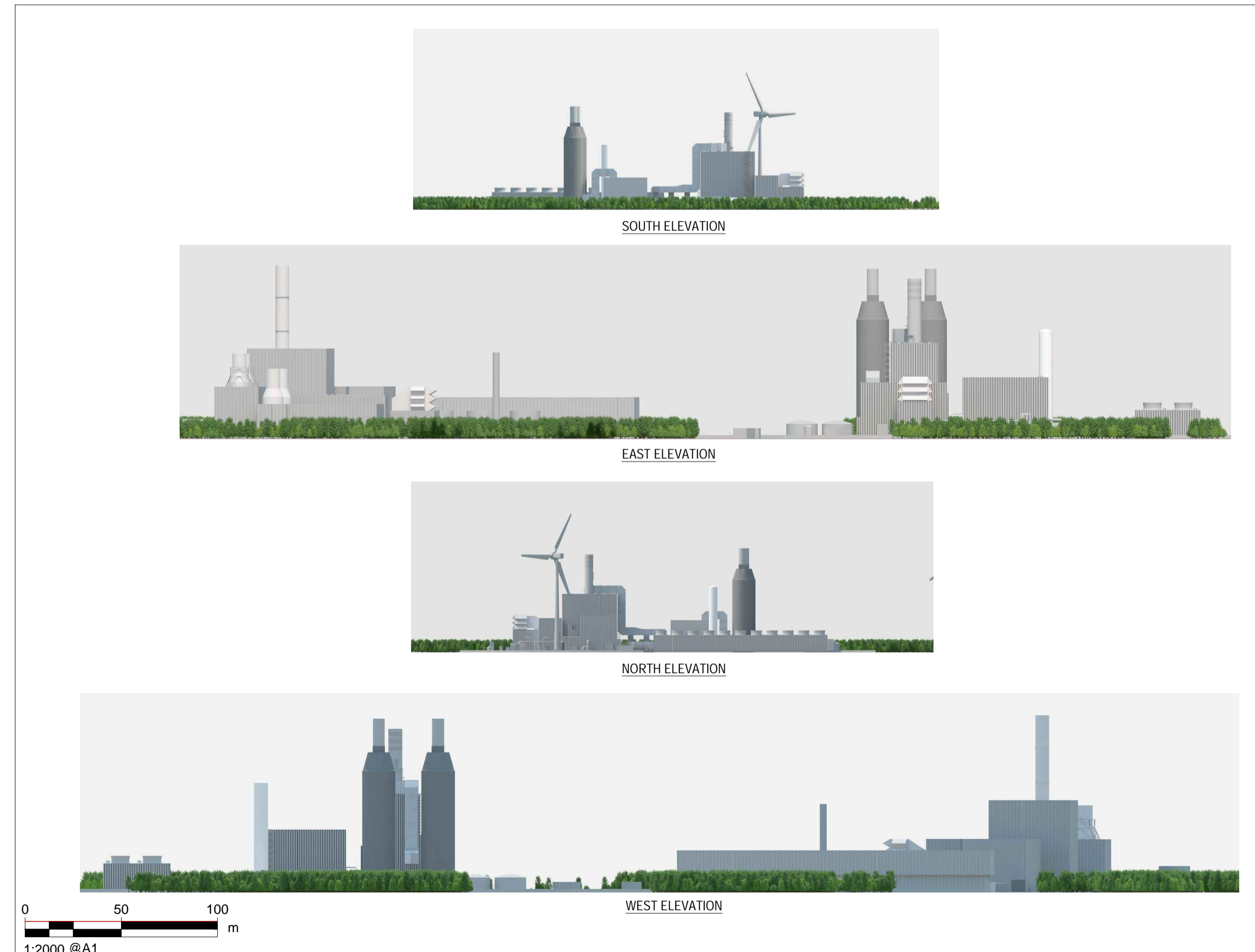
SHEET 7 OF 10 - LAYOUT VIEW TWIN ABSORBER



SHEET 8 OF 10 - LAYOUT VIEW TWIN ABSORBER



SHEET 9 OF 10 - 3D AERIAL VIEW TWIN ABSORBER



SHEET 10 OF 10 - ELEVATIONS VIEW TWIN ABSORBER

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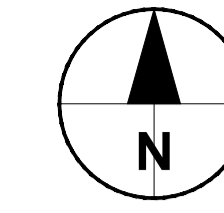
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SHEET TITLE

Indicative Proposed Power and Carbon Capture Layout and Elevations/Section Plans Twin Absorber
Sheet 6 of 10 - Key Plan

SHEET NUMBER

Application Document Ref. 4.7
60625943-PE-DRG-111



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THE ORDER LIMITS

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SHEET TITLE

Indicative Proposed Power and Carbon Capture Layout and Elevations/Section Plans Twin Absorber Sheet 7 of 10 - Layout View

SHEET NUMBER

Application Document Ref. 4.7
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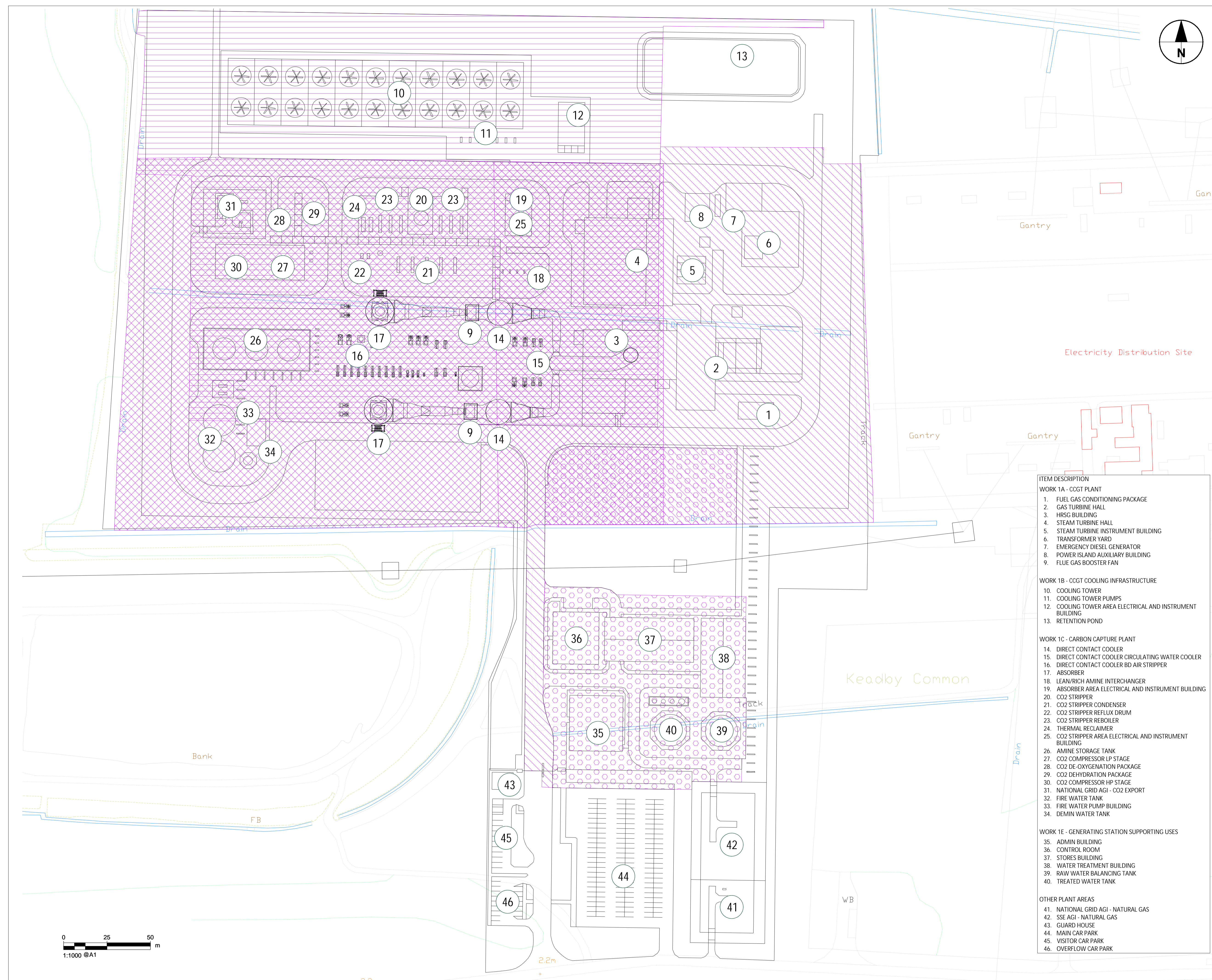
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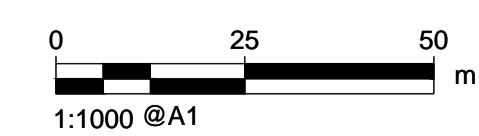
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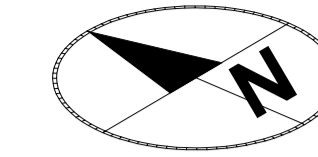
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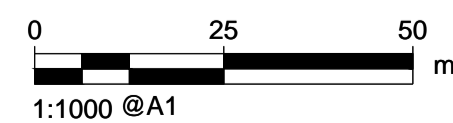
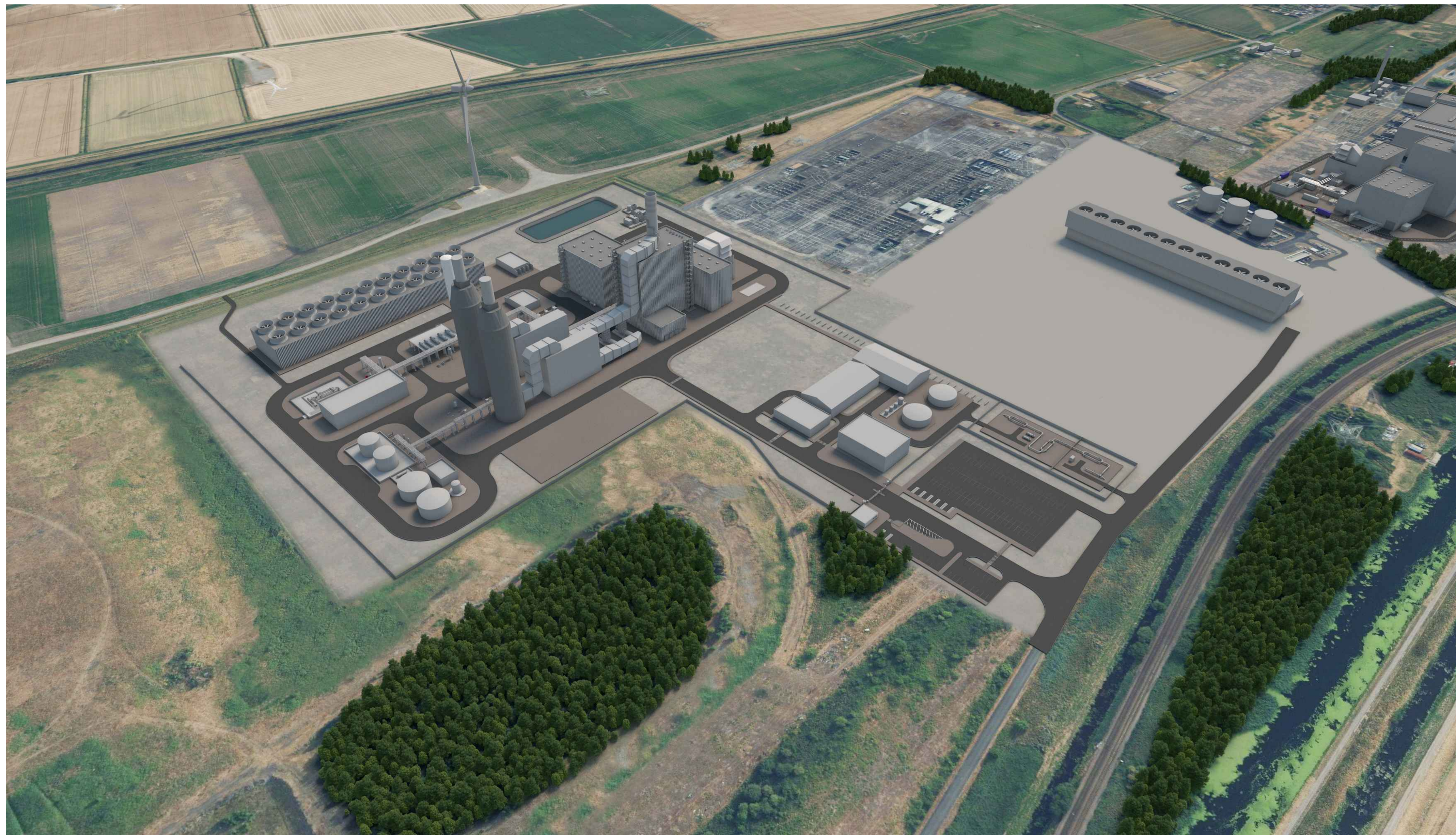
60625943

SHEET TITLE

Indicative Proposed Power and Carbon Capture Layout and Elevations/Section Plans Twin Absorber
Sheet 9 of 10 - 3D Aerial View

SHEET NUMBER

Application Document Ref. 4.7
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Project Management Initials: Designer: Checked: Approved:

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Absorber Stack
Maximum Anticipated Height 95.5m, (AGL, AOD is 98.3m)

CO2 Stripper
Maximum Anticipated Height 63m (AGL, AOD is 65.8m)

Direct Contact Cooler

HSRG Building Stack
Maximum Anticipated Height 84.8m AGL, 87.6mAOD

HSRG Building
Maximum Anticipated Height 55.8m AGL, 58.6mAOD

Gas Turbine Hall
Maximum Anticipated Height 31.8m AGL, 34.6mAOD

Gas Turbine Generator Hall



SOUTH ELEVATION



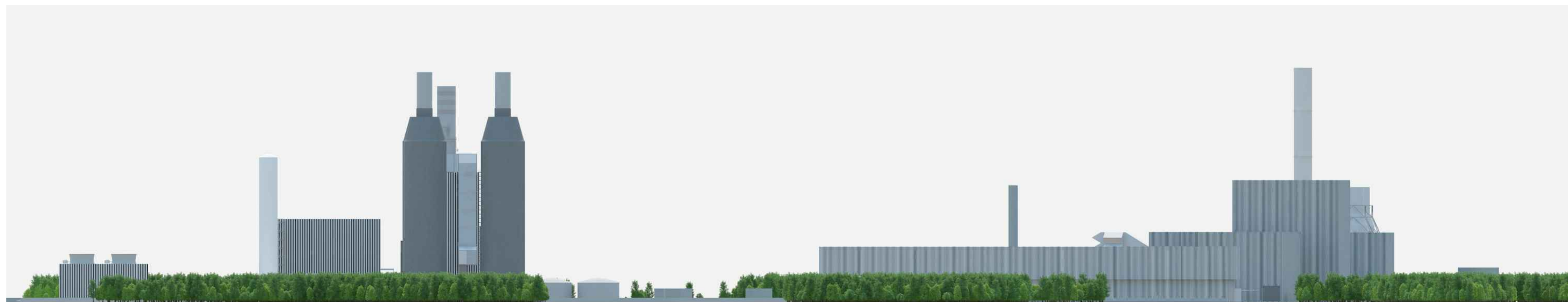
EAST ELEVATION

Steam Turbine Hall
Maximum Anticipated Height 34.8m AGL, 37.6mAOD

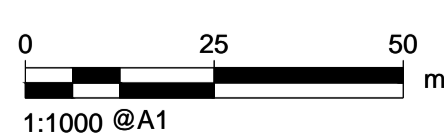


NORTH ELEVATION

Cooling Tower



WEST ELEVATION

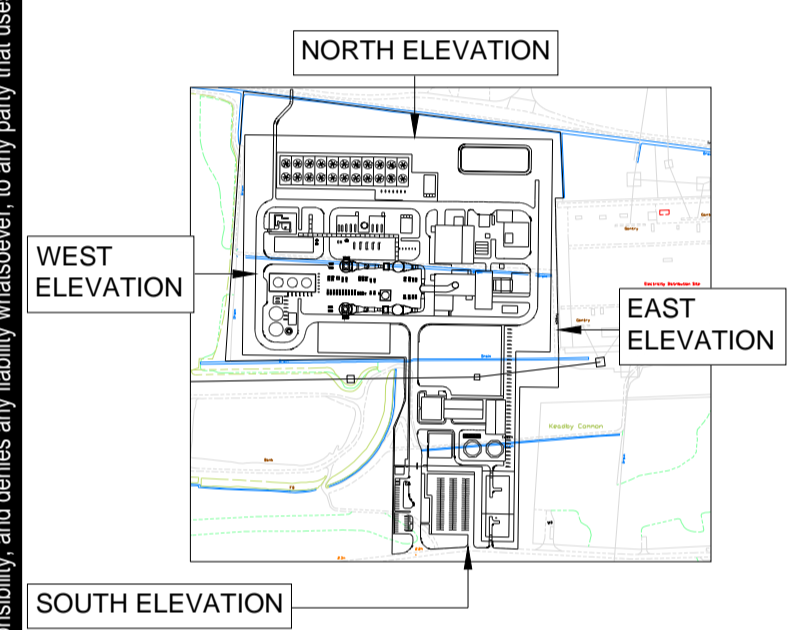


PROJECT
The Keadby 3 (Carbon Capture Equipped Gas Fired Generating Station) Order

APPLICANT
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CONSULTANT
AECOM LIMITED
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LEGEND



PLAN VIEW

ISSUE/REVISION

I/R	DATE	DESCRIPTION
01	05/04/2022	DCO APPLICATION

NOTES

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The Keadby 3 Low Carbon Generating Station Order Regulation 5(2)(o) - Infrastructure Planning (Applications: Prescribed Forms and Procedures) Regulations 2009

ISSUE PURPOSE

DCO APPLICATION

PROJECT NUMBER

60625943

SHEET TITLE

Indicative Proposed Power and Carbon Capture Layout and Elevations/Section Plans Twin Absorber
Sheet 10 of 10 - Elevations View

SHEET NUMBER

Application Document Ref. 4.7
60625943-PE-DRG-115

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