



# Drax BECCS

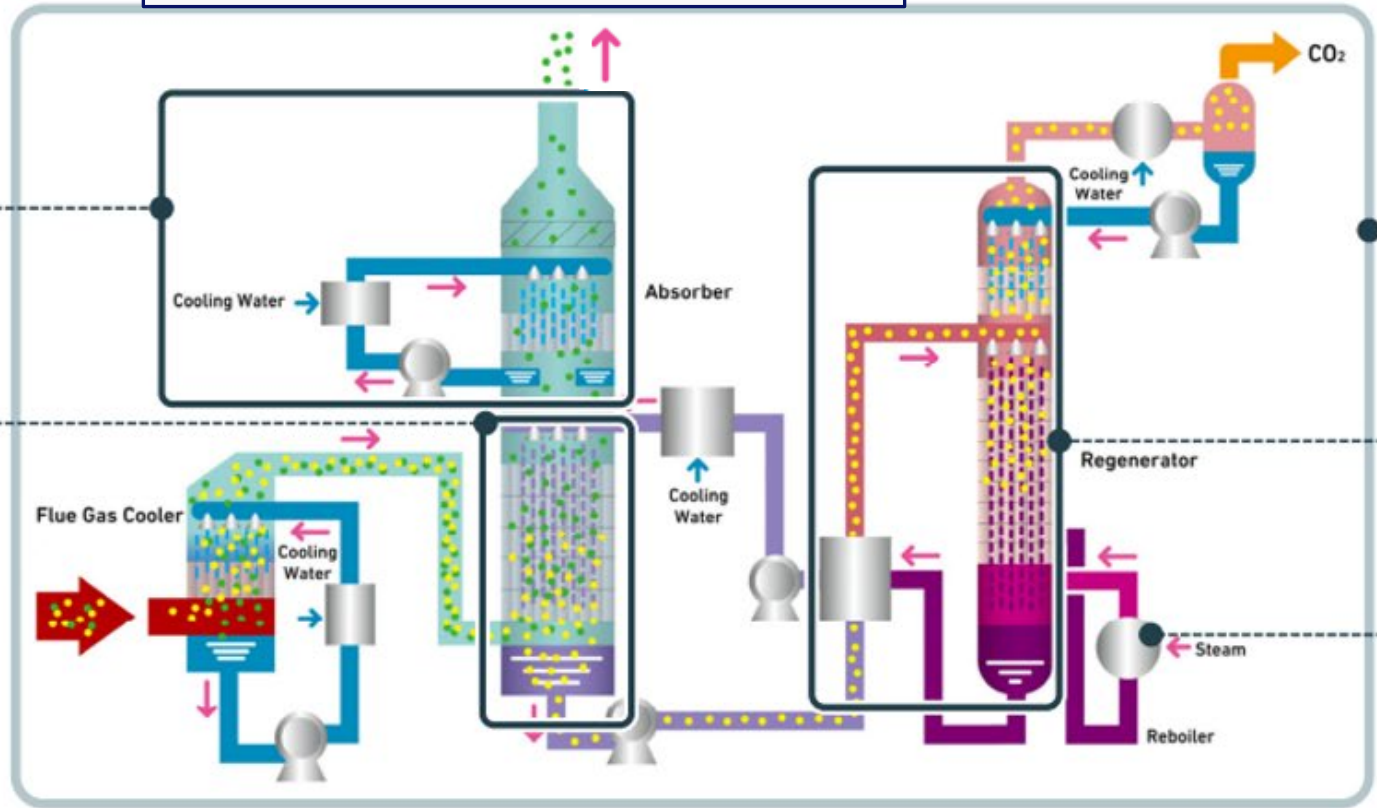
13 January 2023

# BECCS Process Overview

Flue gas with CO<sub>2</sub> removed to atmosphere

**Amine washing** system reduces VOC emissions and amine emission

**solvent** with high CO<sub>2</sub> capacity, low degradation, and low regeneration energy



- **Automatic load adjustment control (ALAC)** for dispatchability operation
- Amine filtration and purification systems
- Proven tower design for even gas/liquid distribution

**Regenerator system design** for lower heat duty

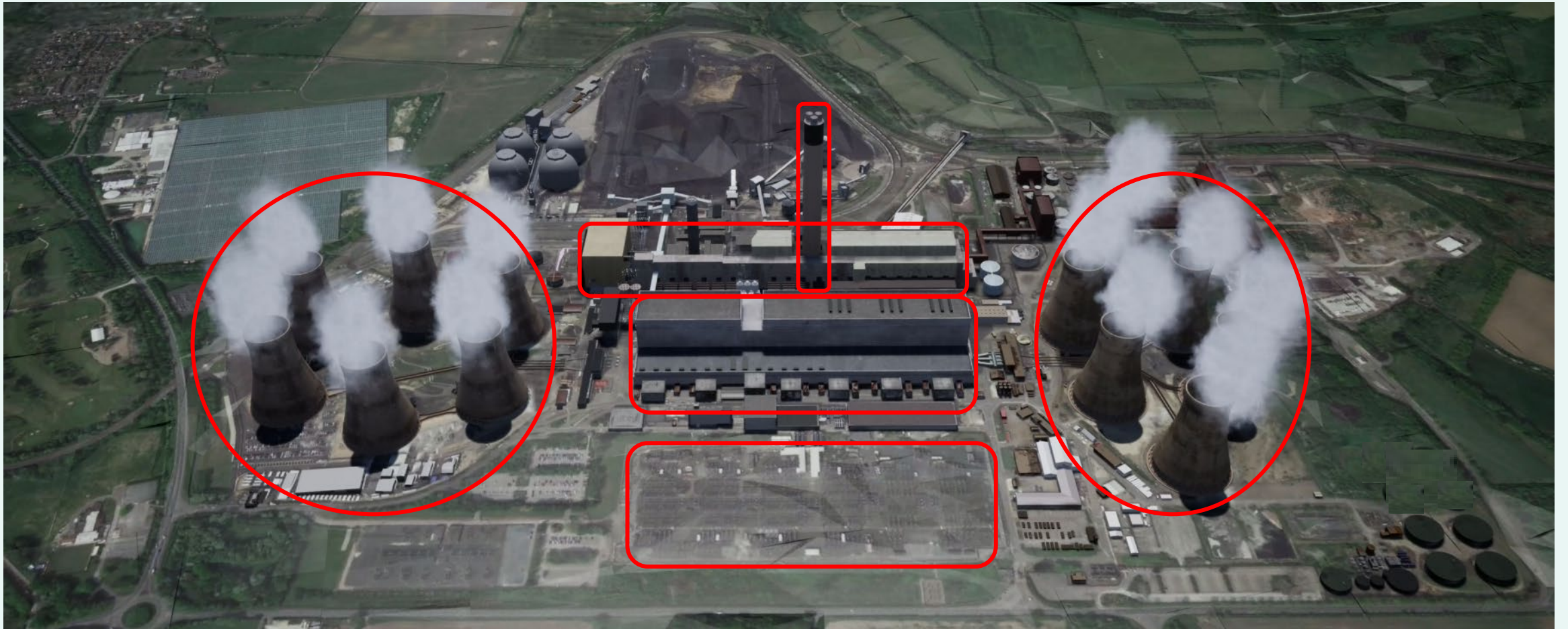
**Reboiler design** for large-scale

# Key Post Combustion Plant Infrastructure - Not this scheme

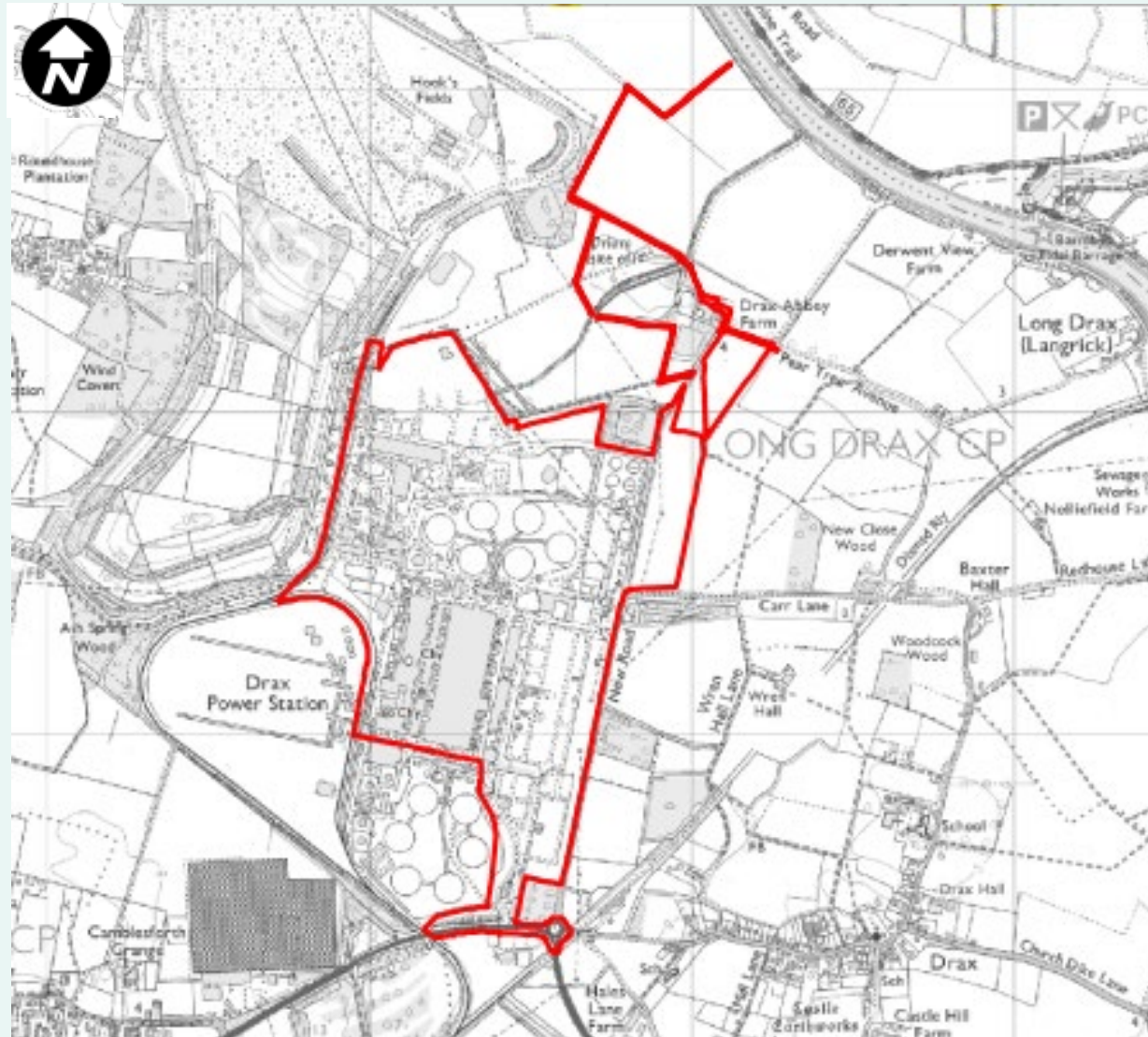




# Drax Site Current Site Layout



# BECCS Red Line Boundary – Drax Power Station

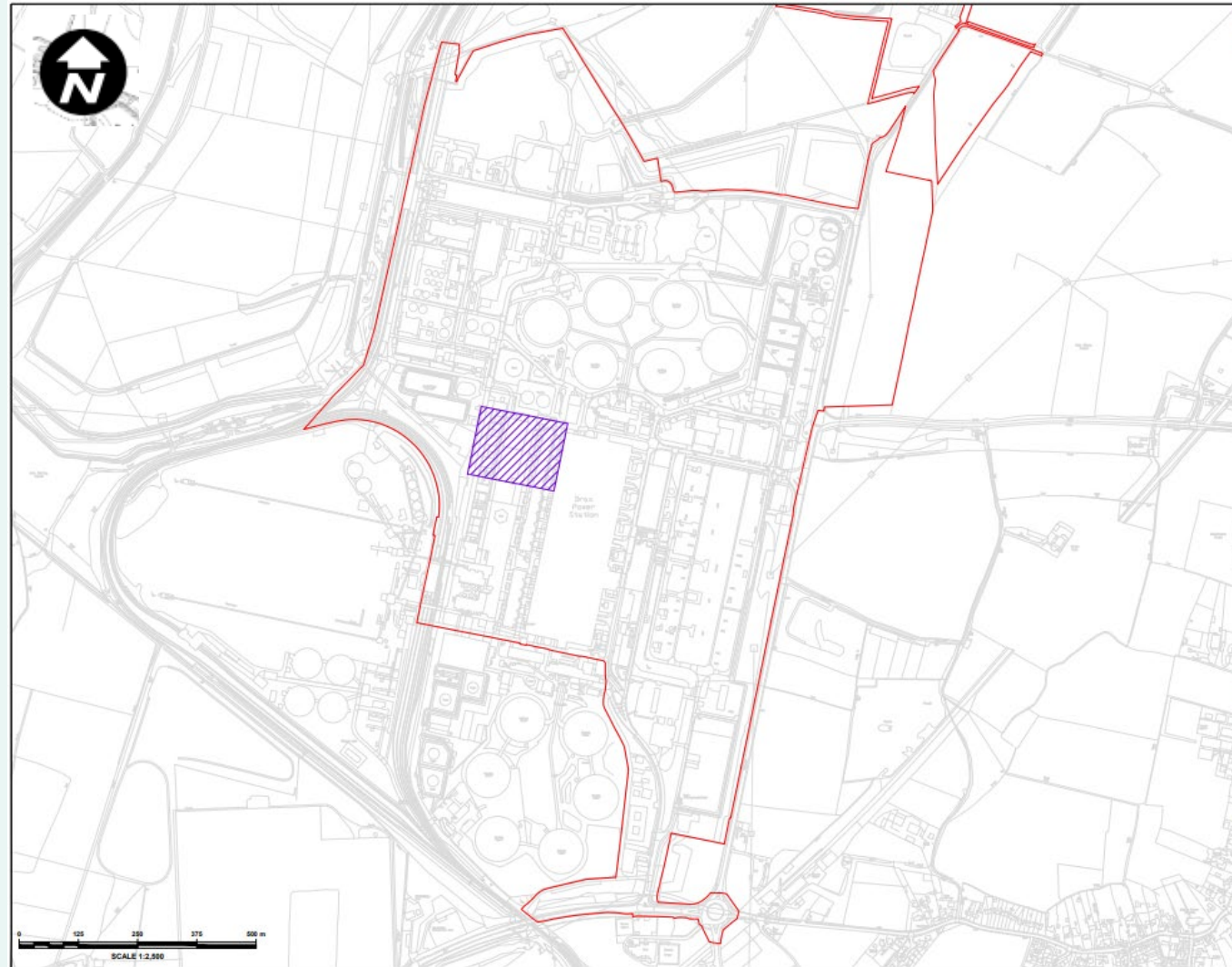




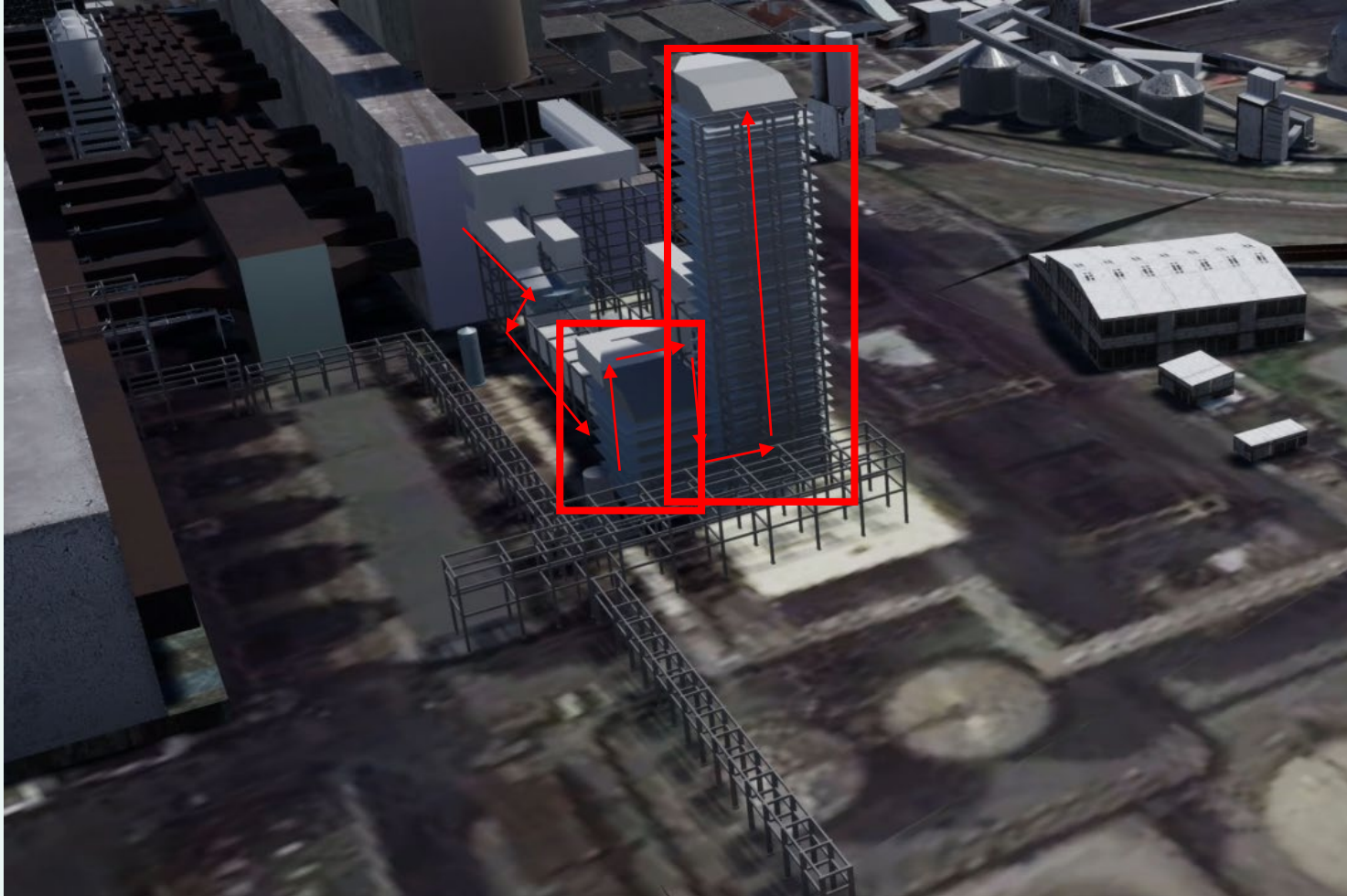
# BECCS Work Plan Overview



# Work number 1D – Carbon Capture Plant

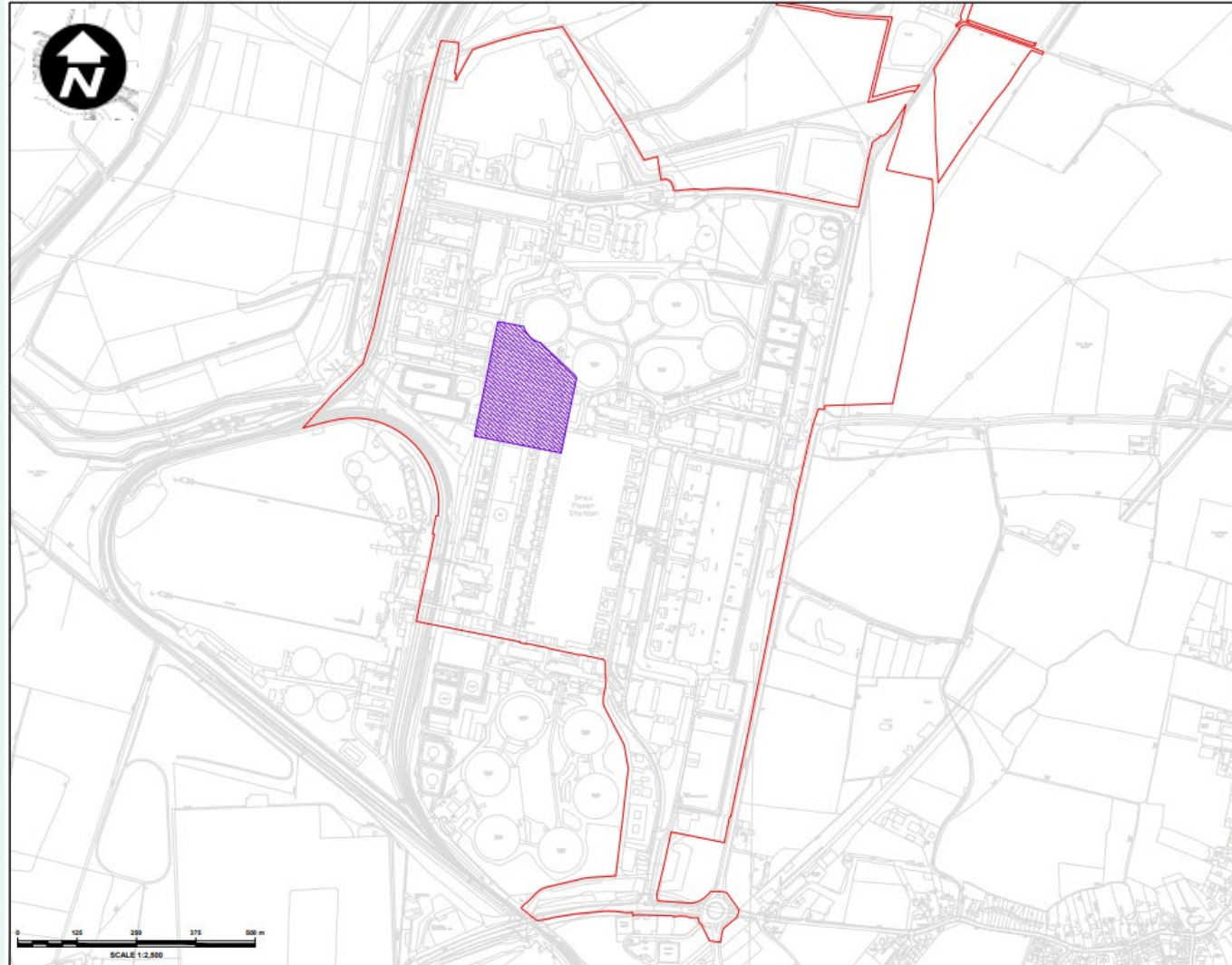


# Quench and Absorber Column – location onsite (single unit)

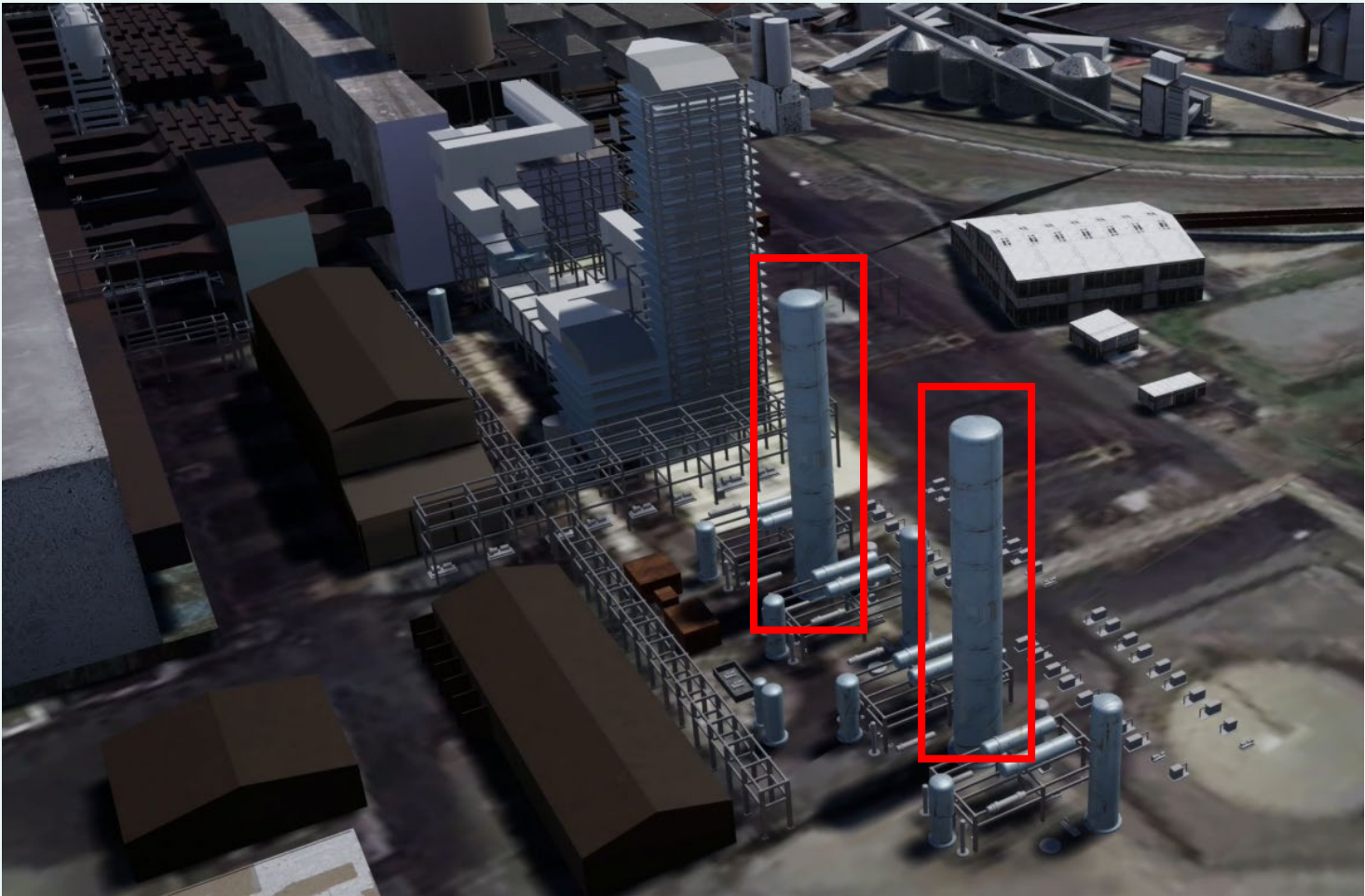




# Work No. 1D (iii) and 1D (iv) - Solvent Regeneration for Units 1 and 2



# Solvent Regeneration Plant – Single unit



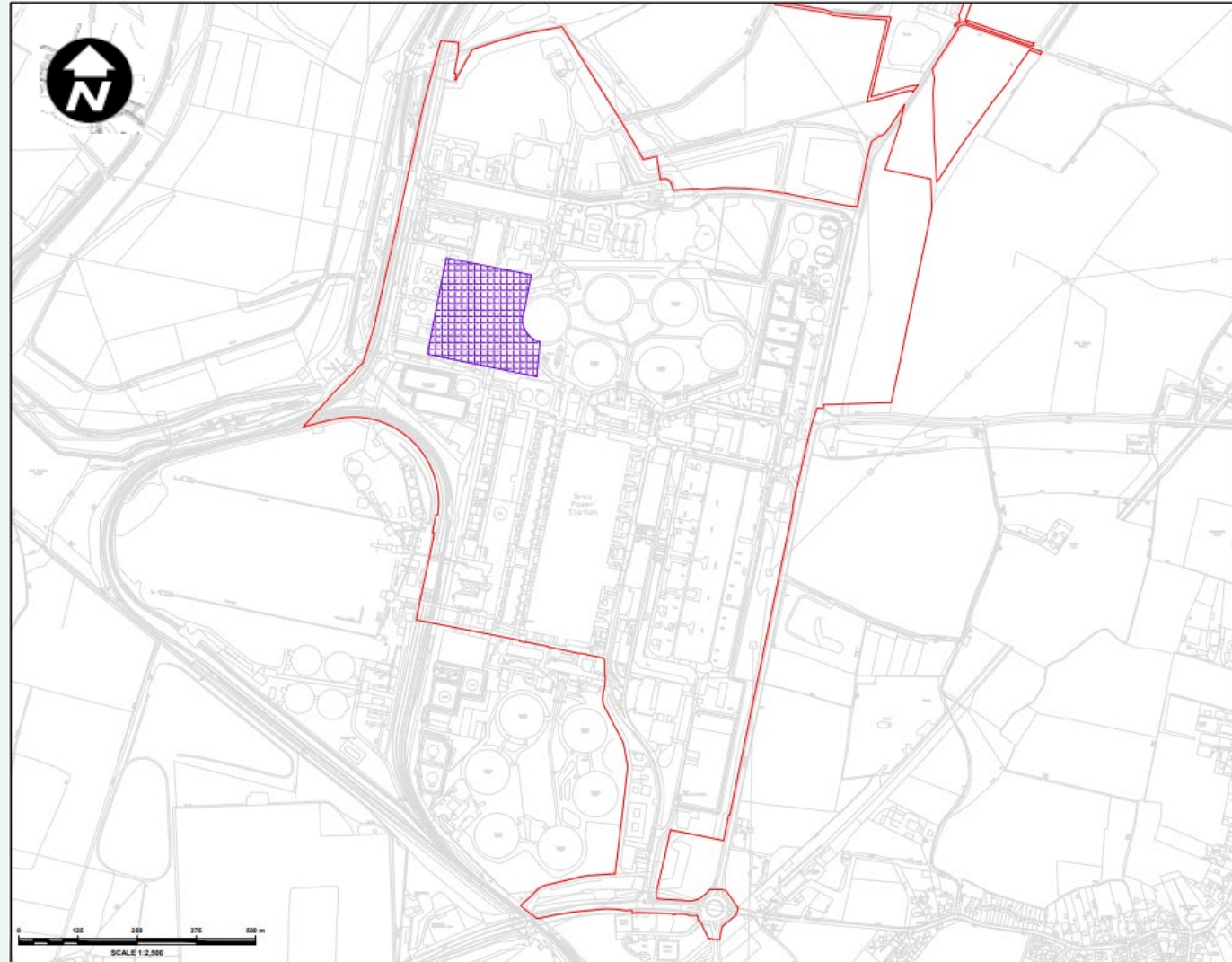


# Indicative layout for 2 Units

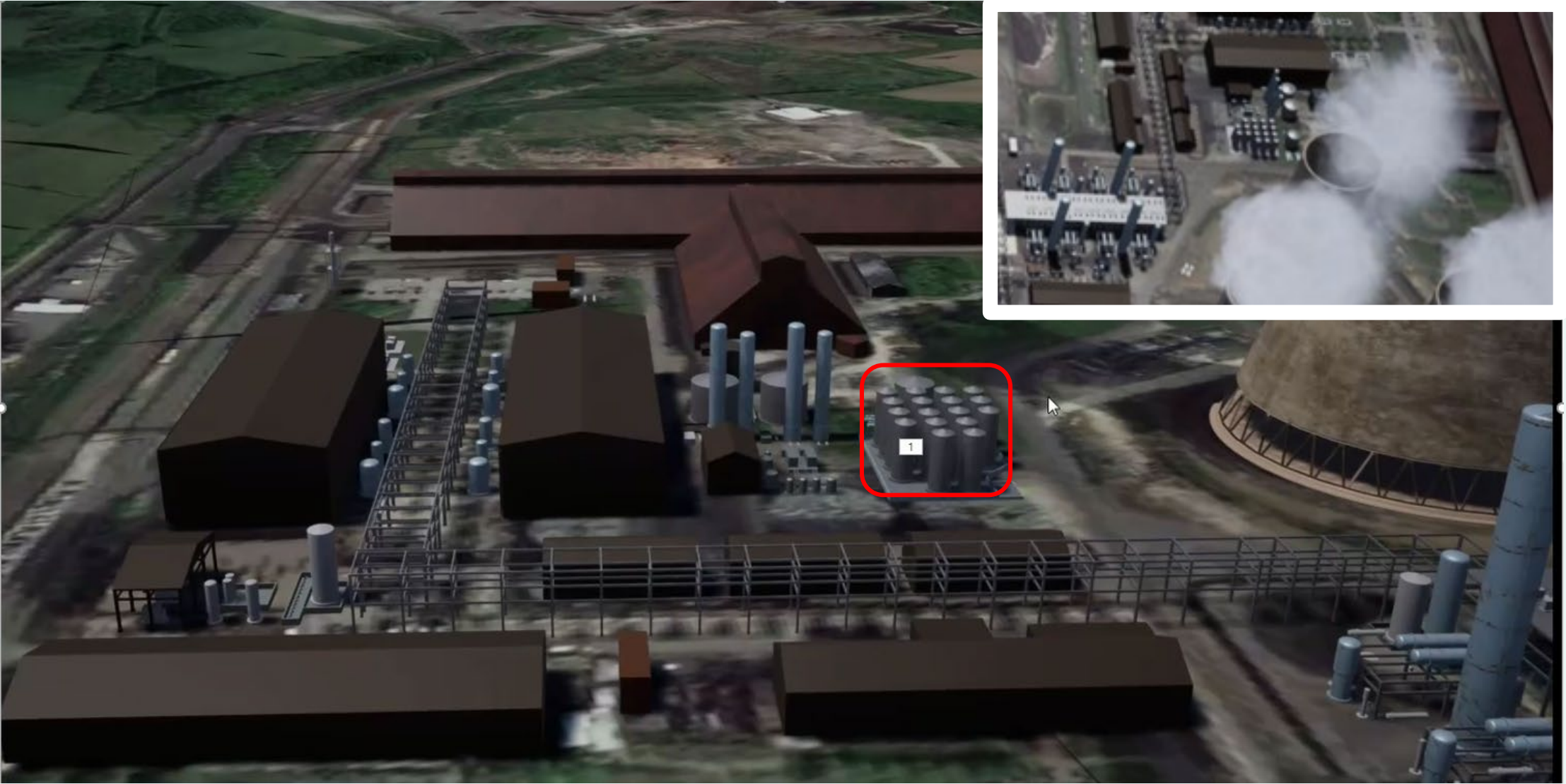




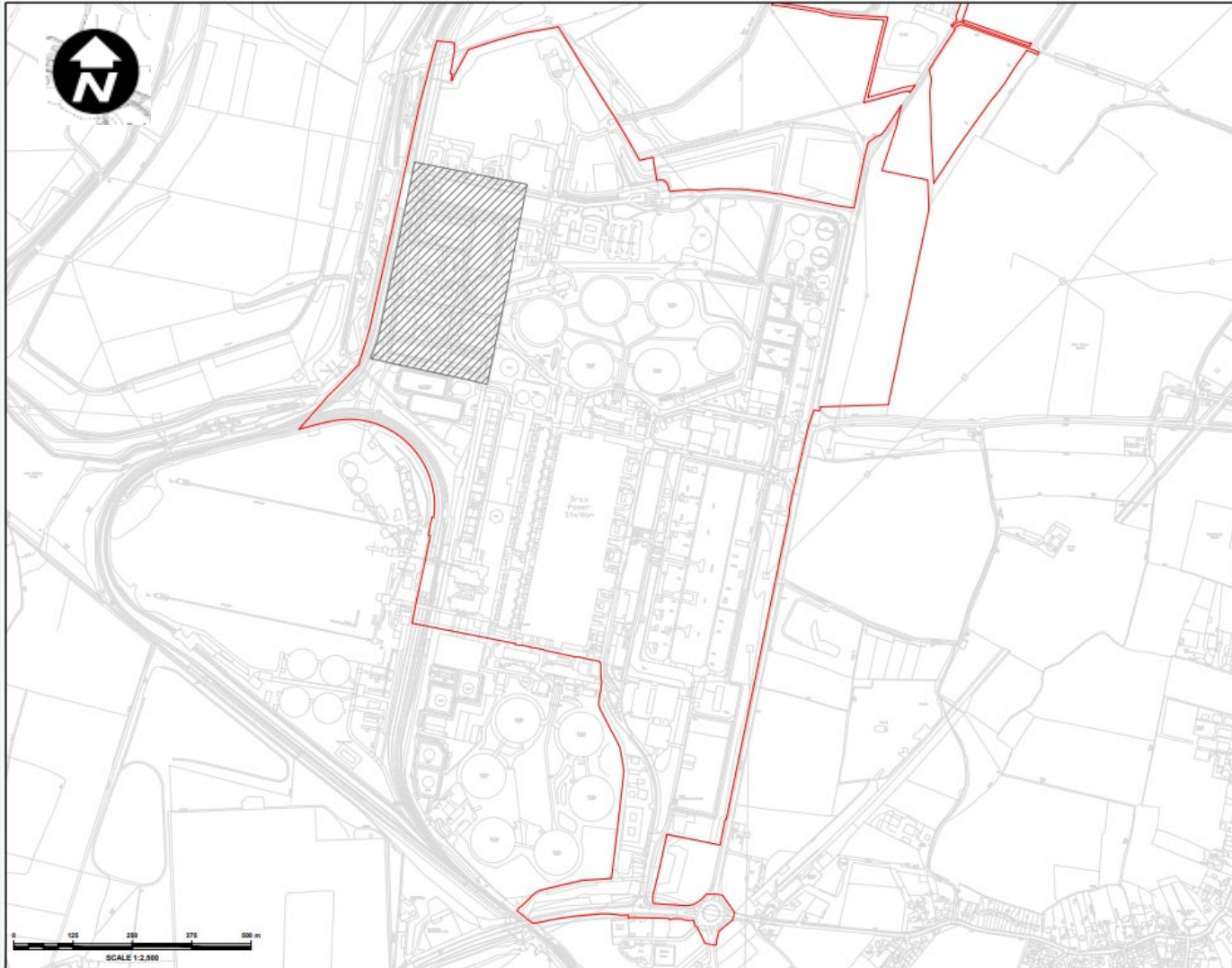
# Work No. 1D (vii) Common Solvent Storage and Make-up system



# Solvent Storage – location onsite

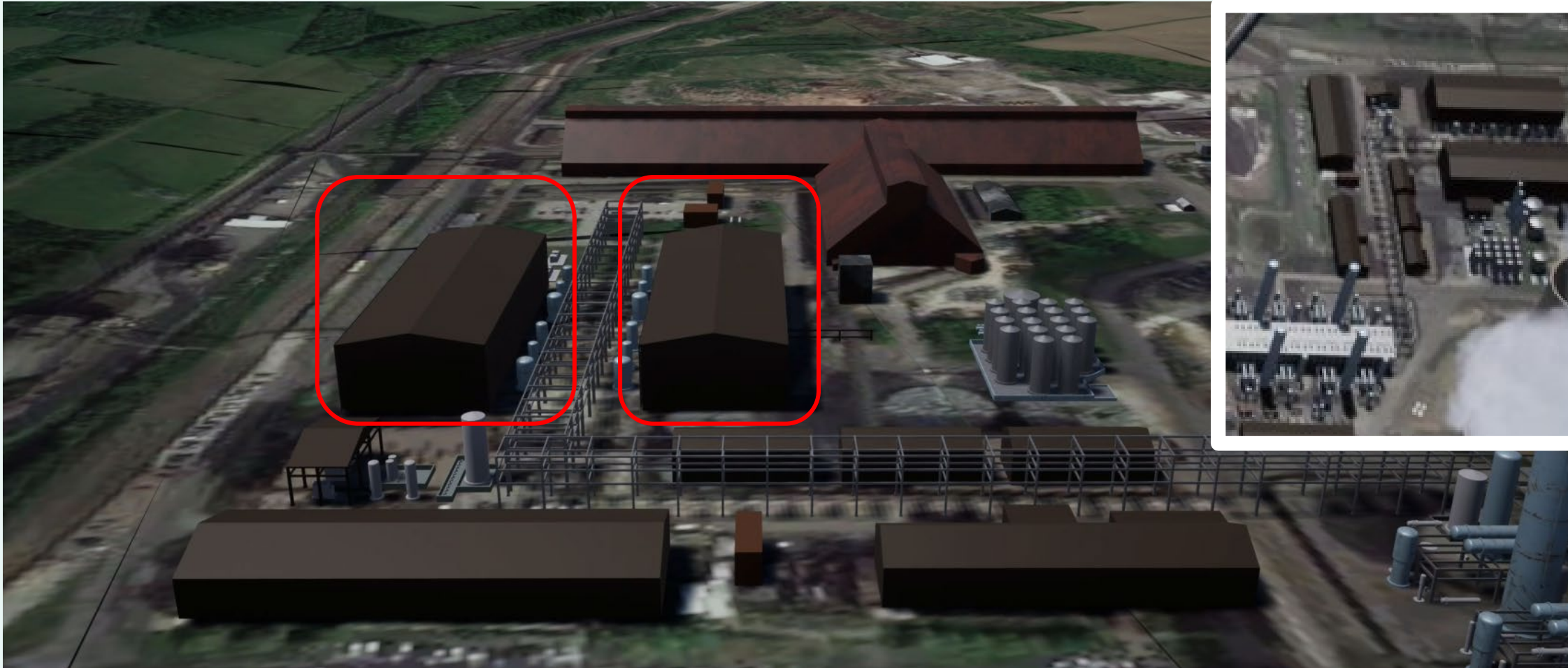


# Work No. 1E (i) and 1E(ii) Carbon Dioxide and Processing Plant for units 1 and 2

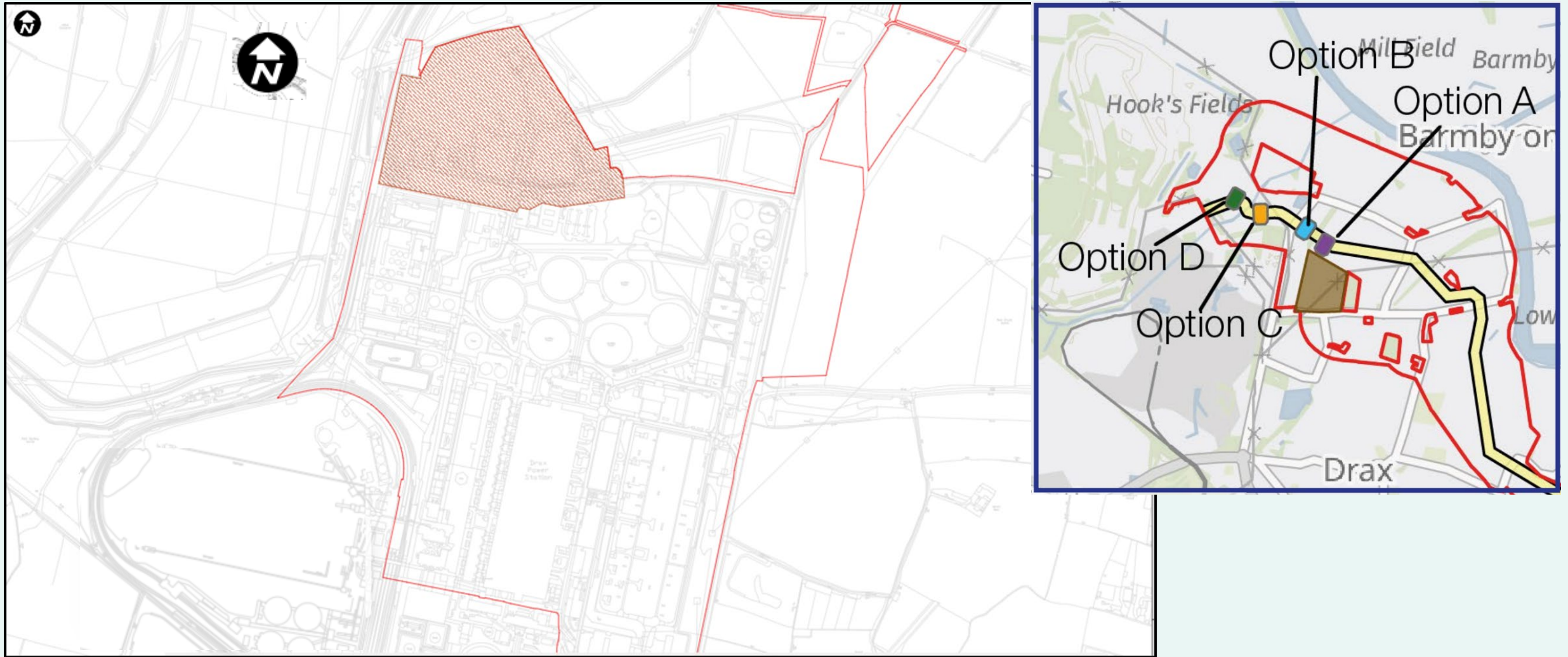




# CO2 Compression – location onsite



# Work No. 2 Carbon Dioxide Transport infrastructure





# Indicative Aerial view





thank  
you