

- Legend
- Site Location
  - Dry Day Reservoir
  - Wet Day Reservoir

1:45,000

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Client  
 Conrad Energy Ltd

Project  
 Land of Leys Lane, Yaxley, Suffolk, IP23 8DX

Title  
 Risk of Flooding from Reservoir Failure

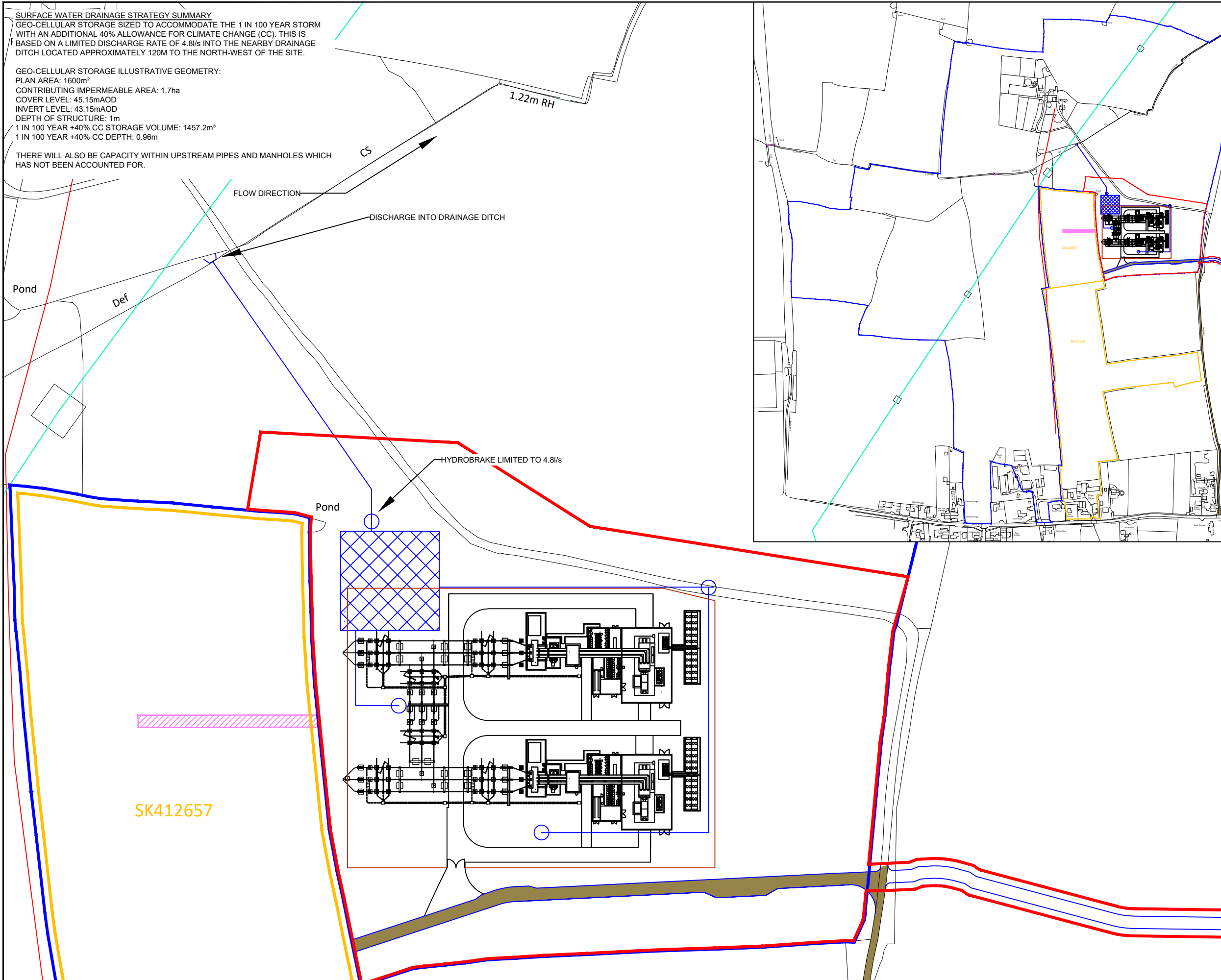
Report No. 150522-F01	Drawing No. 05	Revision -
Scale As Shown	Date 17/06/2022	Frame Size A3
Produced By LC	Drawn By LC	Approved By HF



**SURFACE WATER DRAINAGE STRATEGY SUMMARY**  
 GEO-CELLULAR STORAGE SIZED TO ACCOMMODATE THE 1 IN 100 YEAR STORM WITH AN ADDITIONAL 40% ALLOWANCE FOR CLIMATE CHANGE (CC). THIS IS BASED ON A LIMITED DISCHARGE RATE OF 4.8l/s INTO THE NEARBY DRAINAGE DITCH LOCATED APPROXIMATELY 120M TO THE NORTH-WEST OF THE SITE.

**GEO-CELLULAR STORAGE ILLUSTRATIVE GEOMETRY:**  
 PLAN AREA: 1600m<sup>2</sup>  
 CONTRIBUTING IMPERMEABLE AREA: 1.7ha  
 COVER LEVEL: 45.15mAOD  
 INVERT LEVEL: 43.15mAOD  
 DEPTH OF STRUCTURE: 1m  
 1 IN 100 YEAR +40% CC STORAGE VOLUME: 1457.2m<sup>3</sup>  
 1 IN 100 YEAR +40% CC DEPTH: 0.96m

THERE WILL ALSO BE CAPACITY WITHIN UPSTREAM PIPES AND MANHOLES WHICH HAS NOT BEEN ACCOUNTED FOR.



- Notes**
1. Do not scale this drawing. All dimensions must be checked/ verified on site. If in doubt, ask.
  2. This drawing is to be read in conjunction with all relevant architects, engineers and specialists drawings and specifications.
  3. All dimensions in millimetres unless noted otherwise. All levels in metres unless noted otherwise.
  4. Any discrepancies noted on site are to be reported to the engineer immediately.
  5. Do not build from this drawing.

**Legend**

- Land Ownership Boundary
- Site Boundary
- Illustrative Proposed Geo-cellular Storage
- Illustrative Proposed Surface Water Pipe
- Illustrative Drainage Ditch Outfall

	By	Date	Suffix
Revision Details	-	-	-
-	-	-	-

Client  
**Conrad Energy Ltd**

Project  
**Land off Leys Lane  
 Yaxley, Suffolk  
 IP23 8DX**

Dwg Title  
**Illustrative Outline  
 Surface Water Drainage  
 Strategy**

Job No. 150522-F01	Dwg No. 06	Revision -
Scale 1500	Date 28/07/2022	Drawing Size A3
Prepared by: HF	Drawn by HF	Approved by JR



# Appendices

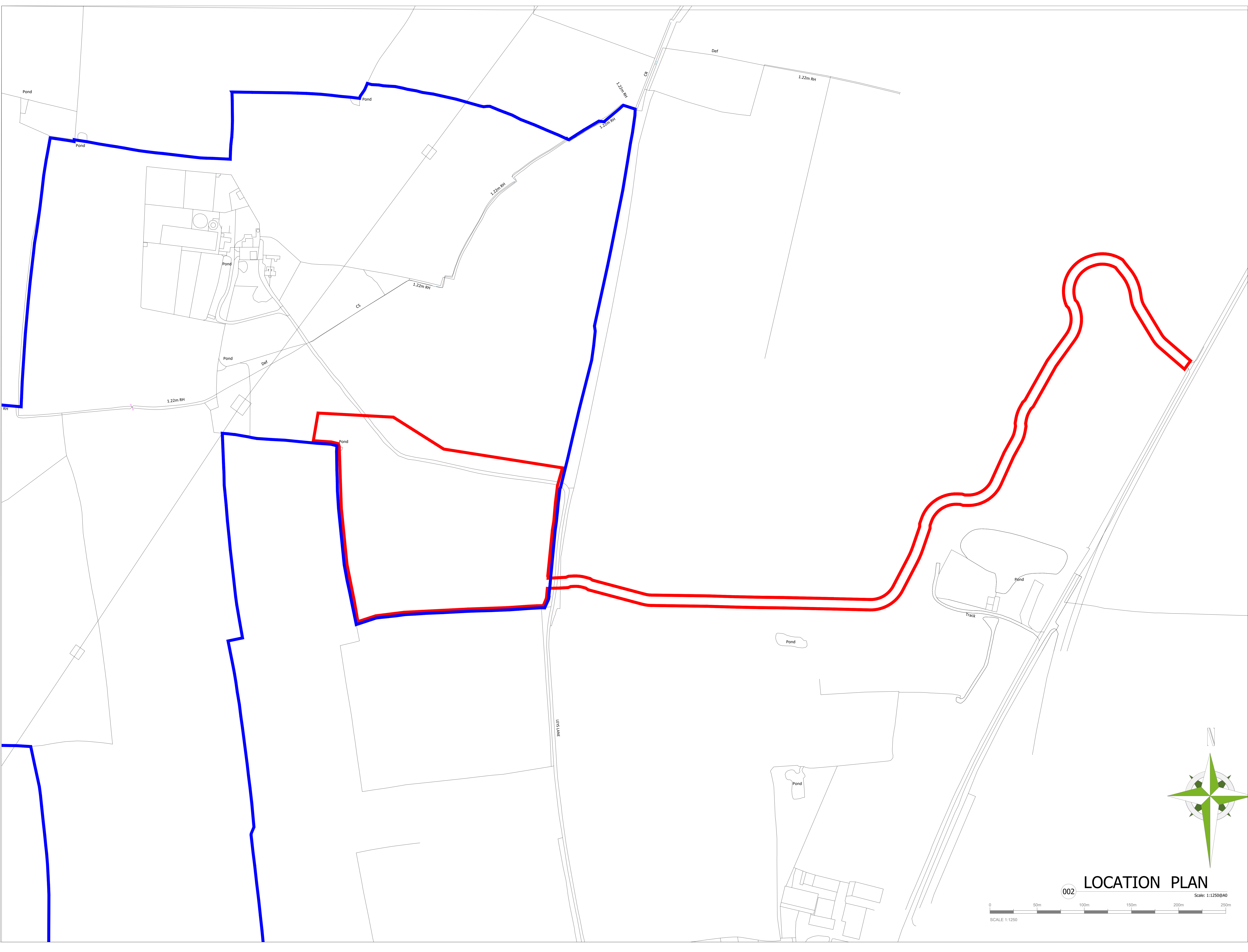
# Appendix A

## Proposed Development Plans

LOCATION PLAN

LEGEND

- SITE INFRASTRUCTURE:**
- LANDOWNERS PROPERTY
  - PROPOSED SITE



rev	revision notes	date
A	Red line area amended	22.06.22
REVISIONS		

Design

ALL DIMENSIONS TO BE CHECKED ON SITE  
 WORK TO FIXED DIMENSIONS ONLY  
 REPORT DISCREPANCIES TO CONRAD ENERGY LTD  
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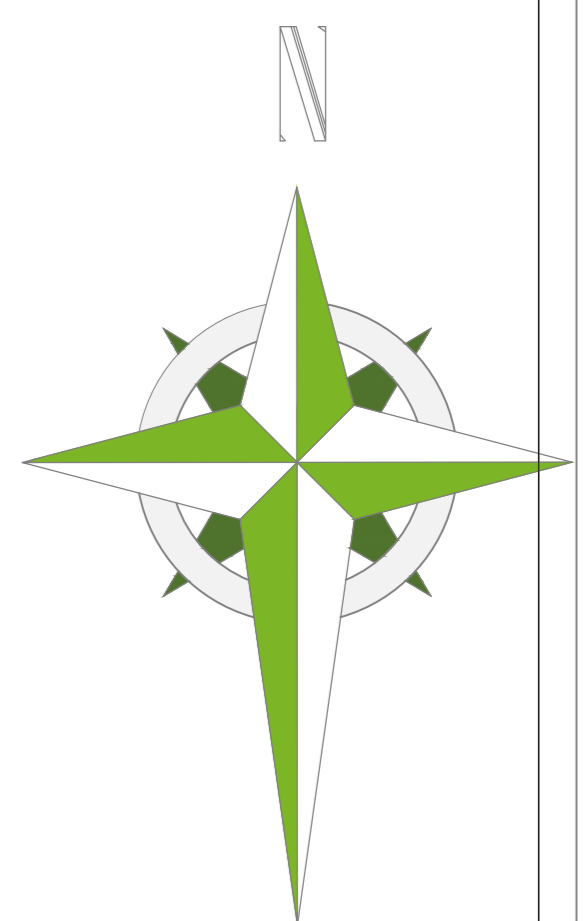
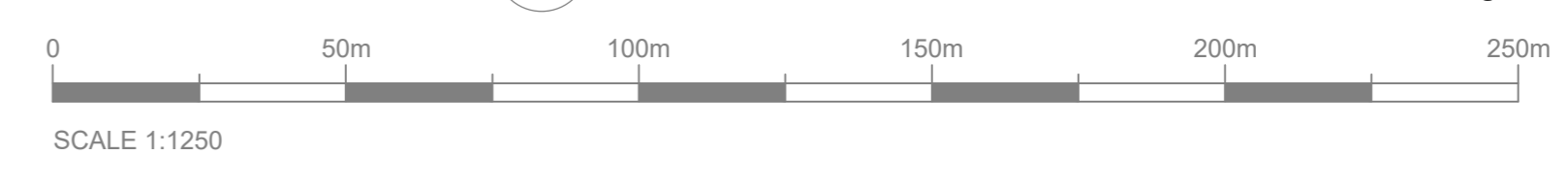
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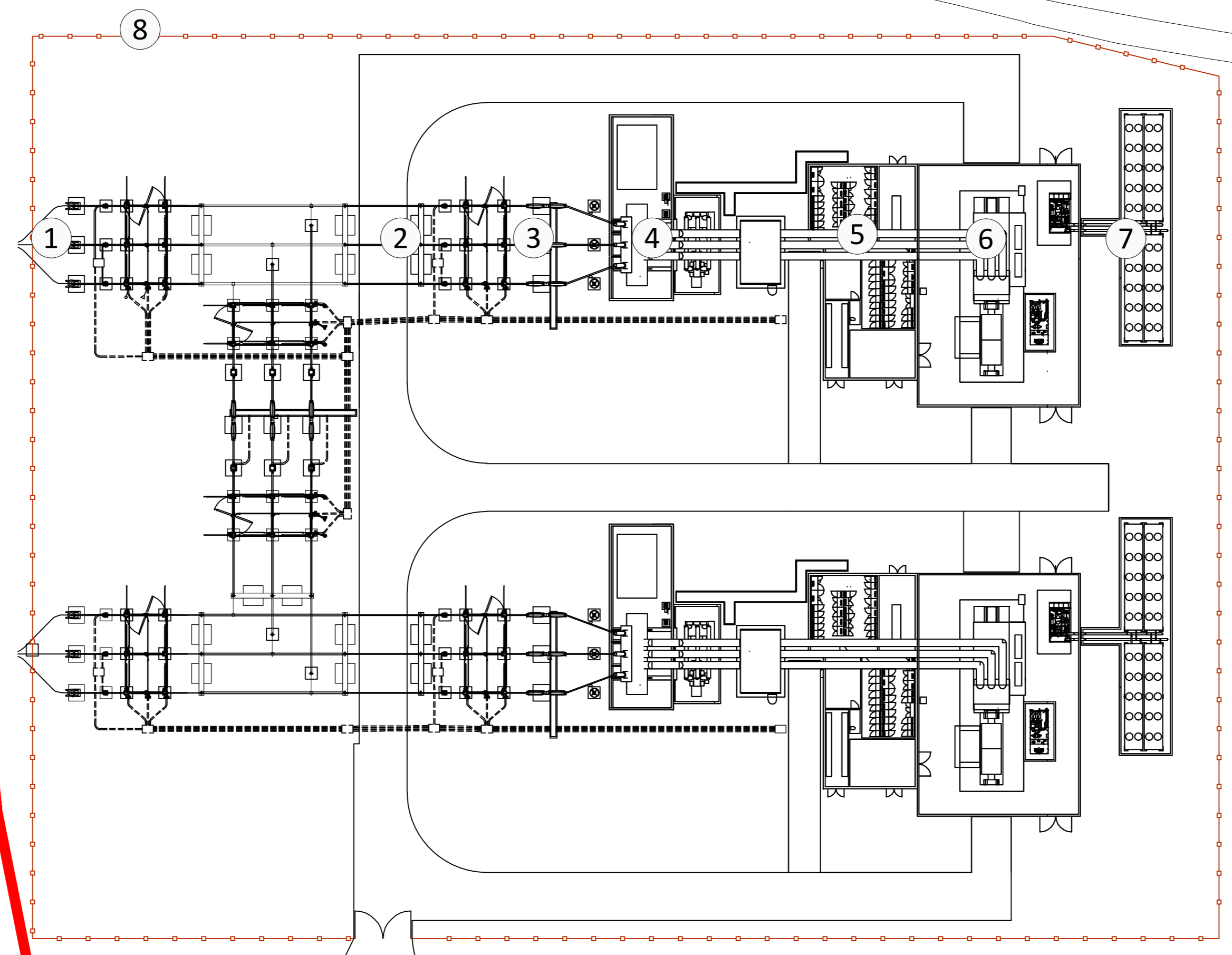
Project Title:  
 PROPOSED SYNCHRONOUS CONDENSER  
 LAND OFF- LEYS LANE  
 YAKLEY  
 611791, 275017

Drawing Title:  
 SYNCHRONOUS CONDENSER  
 LOCATION PLAN - INDICATIVE LAYOUT

Scale @ A0	Date	Drawn	Checked	Rev
1:1250	22.06.2022	HC	JC	A
Drawing No: YAX-SYNCO-LP-002				

002 LOCATION PLAN





INFRASTRUCTURE KEY	
1	CABLE SEALING END
2	DISCONNECTOR WITH TWO EARTH SWITCHES
3	CIRCUIT BREAKER
4	CURRENT TRANSFORMER
5	RELAY ROOM
6	SYNCHRONOUS CONDENSER
7	VENTILATION EQUIPMENT
8	SECURITY FENCE

REV	REVISION NOTES	DATE
A	Red line area amended	22.06.22

Design

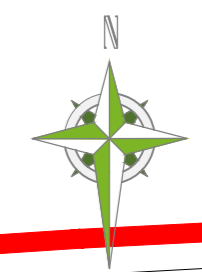
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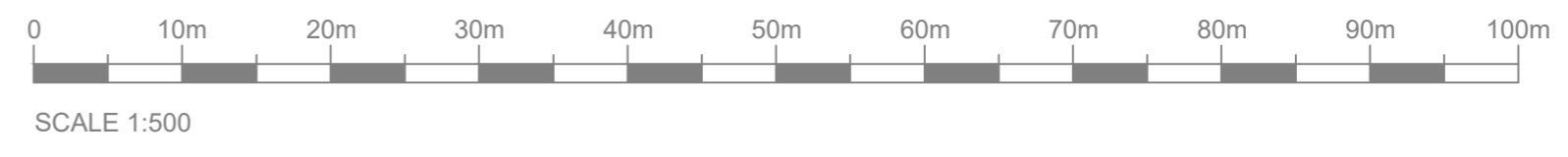
Project Title:  
 PROPOSED SYNCHRONOUS CONDENSER  
 LAND OFF - LEYS LANE  
 YASLEY  
 611791\_275017

Drawing Title:  
 SYNCHRONOUS CONDENSER  
 PROPOSED PLAN - INDICATIVE LAYOUT

Scale: 1:500 Date: 22.06.2022  
 Drawn: HC Checked: JC  
 Drawing No: YAX-SYNCO-PP-003 A



003 PROPOSED PLAN  
 Scale: 1:500@A2



# Appendix B

## Topographic Survey