



PINS Document Number:
EN010140/APP/7.5

Flood Risk Assessment

April 2025



HELIOS RENEWABLE ENERGY PROJECT

FLOOD RISK ASSESSMENT

ENSO GREEN HOLDINGS D LIMITED

DOCUMENT REFERENCE NUMBER: 7.7

PART 2 OF 6

APPENDICES 4 - 6

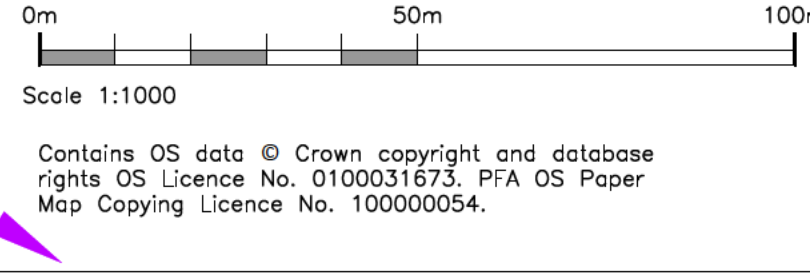
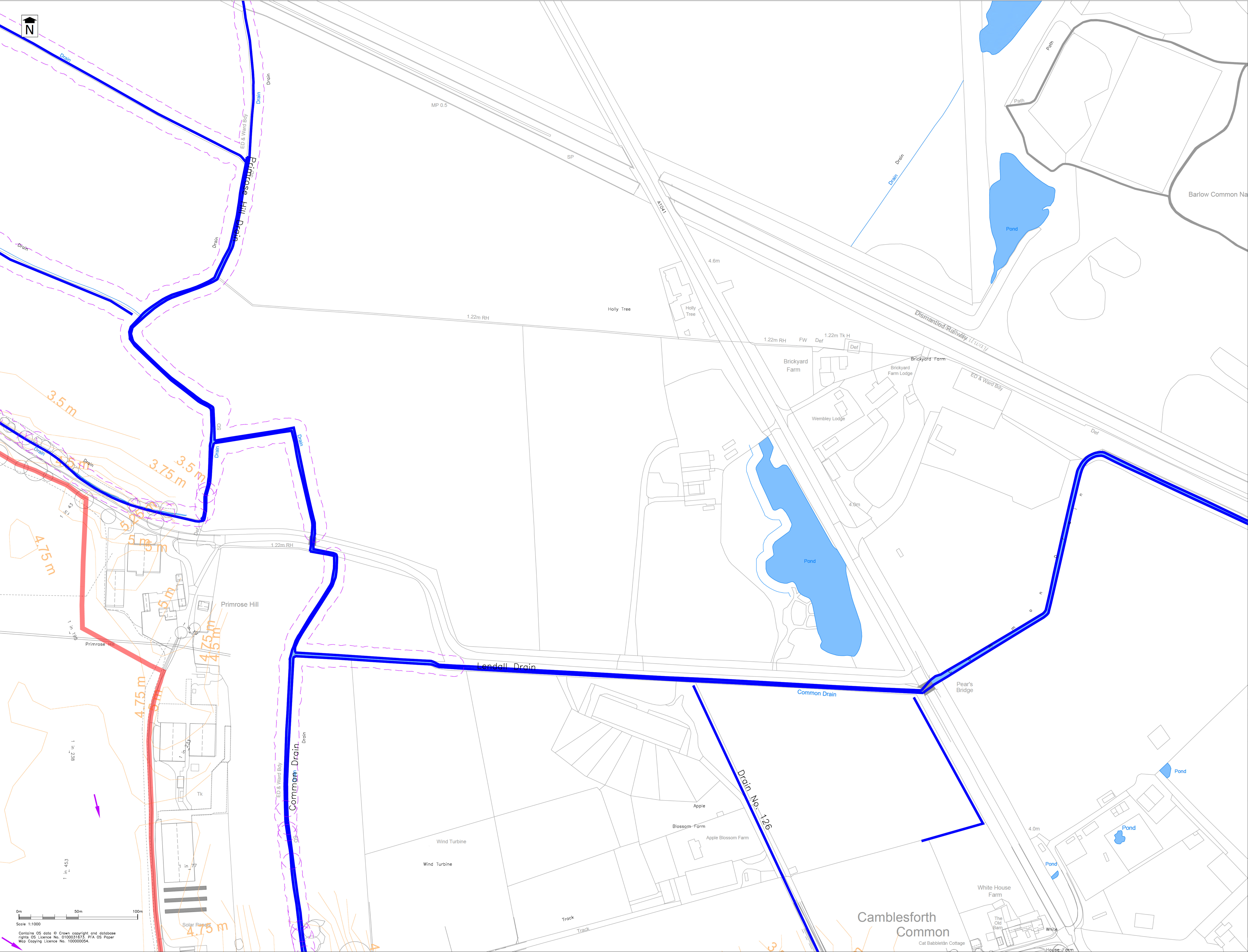
PFA Document Reference: E216-DOC01-FRA-ISSUE 3

MARCH 2025

PFA Consulting
Stratton Park House
Wanborough Road
Swindon
SN3 4HG

Tel: 01793 828000
Fax: 01793 835500
Email: admin@pfapl.com
Web: www.pfapl.com

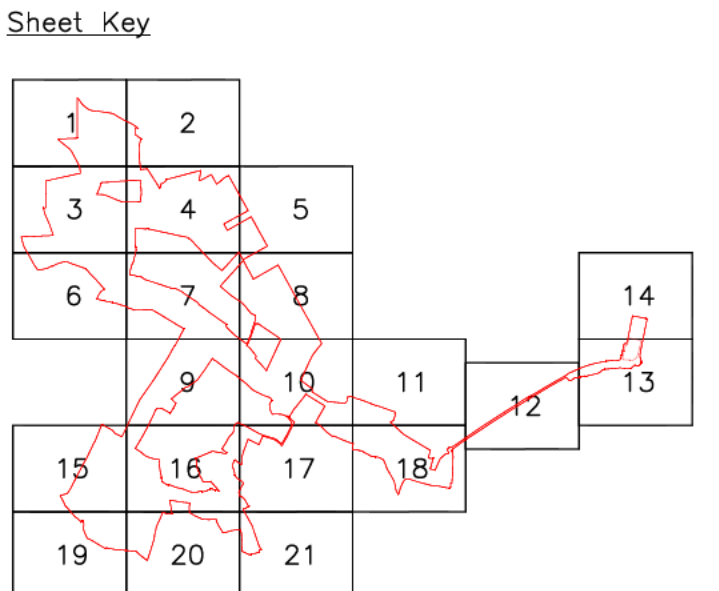
engineering the future



For Planning
This drawing is produced for the purposes of supporting a planning application and should not be relied upon for tender, pricing, or construction purposes.

- KEY**
- Site Boundary (Indicative Only)
 - Ordinary Watercourse
 - Ordinary Watercourse (DB Maintained)
 - 7m Watercourse Buffer
 - Overland Flow Route (Indicative Only)

- NOTES**
- Drawing based on Topographical Survey, produced by Above Surveying Ltd., drawing number DRAX LINEWORK ("CAD") (Dated 6th May 2022).
 - Approximate Top of Bank based on LIDAR data at 0.1m intervals. 7m buffers based on the approximate top of bank data. Top of Bank will need to be accurately verified.
 - Contains public sector information licensed under the Open Government Licence v3.0.
 - 7m watercourse buffer in accordance with Selby Internal Drainage Board byelaw (Byelaw 10: No person without the previous consent of the Board shall erect any building or structure, whether temporary or permanent, or plant any tree, shrub, willow or other similar growth within 7 metres of the landward toe of the bank where there is an embankment or wall or within 7 metres of the top of the batter where there is no embankment or wall, or where the watercourse is enclosed within 7 metres of the enclosing structure).



| Rev | Date | Description | Drawn | Check |
|-----|----------|-----------------------------|-------|-------|
| # | 01/06/23 | First Issue | ML | BF |
| A | 22/08/23 | Update to Red Line Boundary | IS | |
| B | 13/02/24 | Update to Red Line Boundary | BF | |

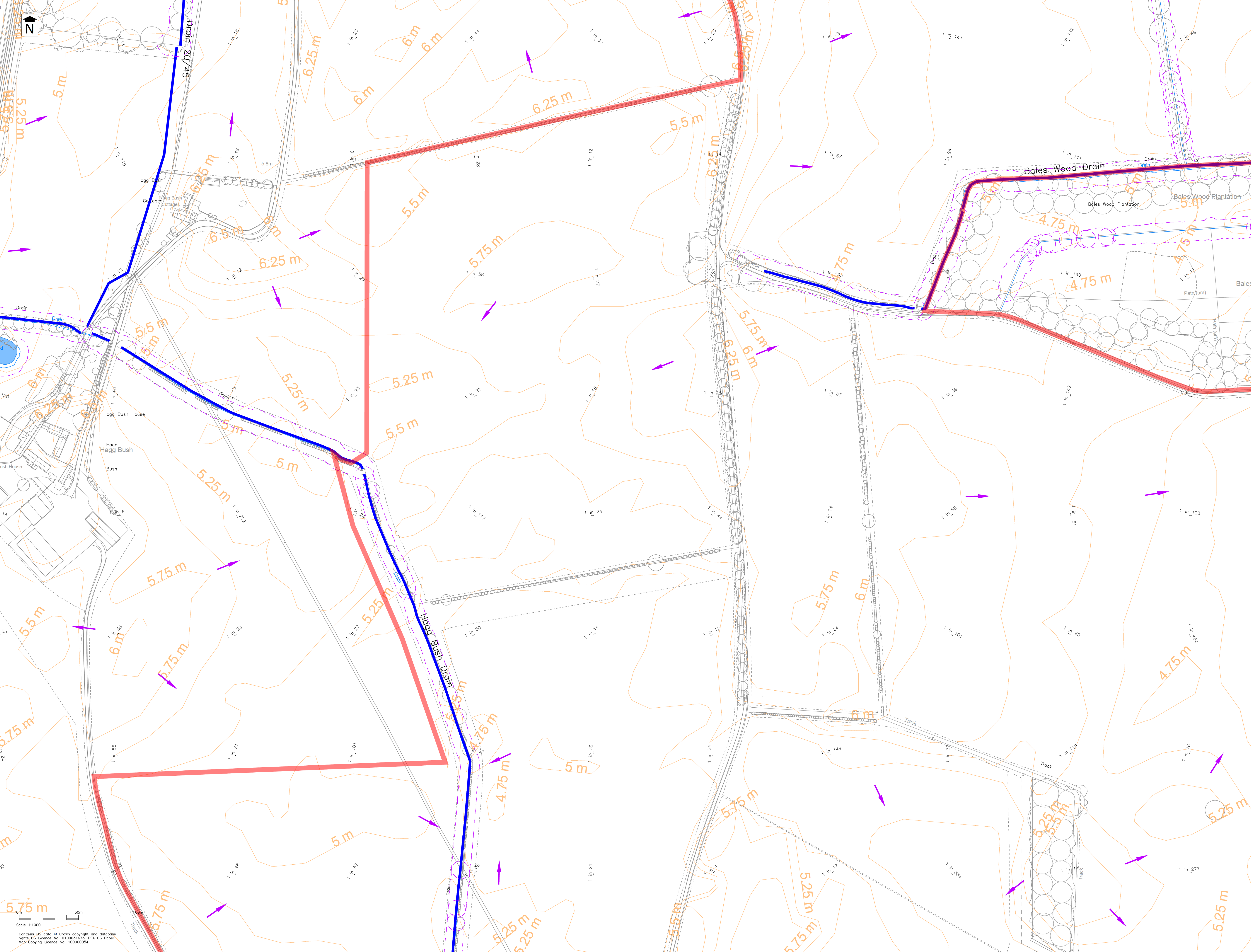
Status
FOR PLANNING

Client
Enso Green Holdings D Limited

Project
Helios Renewable Energy Project

Drawing Title
Existing Drainage Arrangements Sheet 2 of 21

Drawing No. **E216/108** Rev B
Date: June 2023 Scale: 1:1000 @ A0
E-Mail: info@pfapic.com

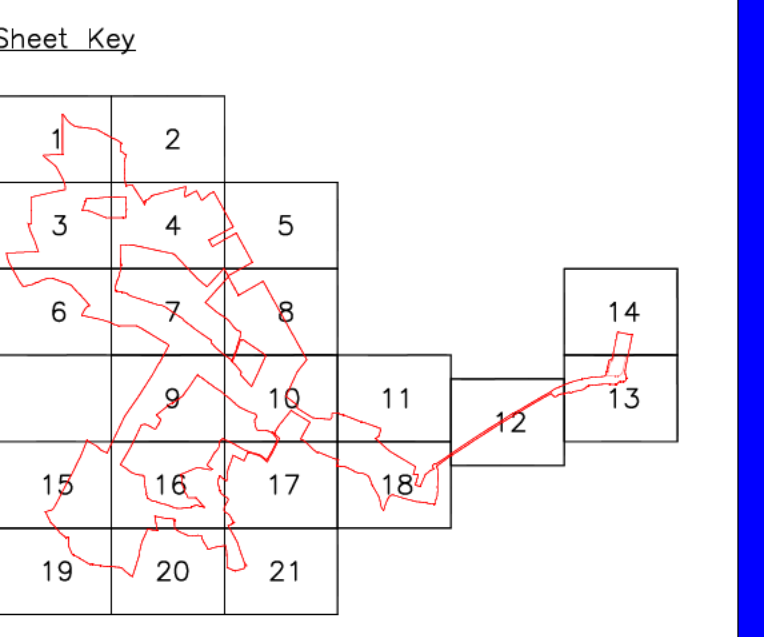


Scale 1:1000
0m 50m 100m
Containing OS data © Crown copyright and database rights OS Licence No. 0100031673. PFA OS Paper Map Copying Licence No. 100000054.

For Planning
This drawing is produced for the purposes of supporting a planning application and should not be relied upon for tender, pricing, or construction purposes.

- KEY**
- Site Boundary (Indicative Only)
 - Ordinary Watercourse
 - Ordinary Watercourse (DB Maintained)
 - 7m Watercourse Buffer
 - Overland Flow Route (Indicative Only)

- NOTES**
- Drawing based on Topographical Survey, produced by Above Surveying Ltd., drawing number DRAX LINEWORK ("CAD") (Dated 6th May 2022).
 - Approximate Top of Bank based on LIDAR data at 0.1m intervals; 7m buffers based on the approximate top of bank data. Top of Bank will need to be accurately verified.
 - Contains public sector information licensed under the Open Government Licence v3.0.
 - 7m watercourse buffer in accordance with Selby Internal Drainage Board byelaw (Byelaw 10: No person without the previous consent of the Board shall erect any building or structure, whether temporary or permanent, or plant any tree, shrub, willow or other similar growth within 7 metres of the landward toe of the bank where there is an embankment or wall or within 7 metres of the top of the batter where there is no embankment or wall, or where the watercourse is enclosed within 7 metres of the enclosing structure).



| Rev | Date | Description | Drawn | Check |
|-----|----------|-----------------------------|-------|-------|
| # | 02/06/23 | First Issue: | ML | BF |
| A | 23/08/23 | Update to Red Line Boundary | IS | |
| B | 13/02/24 | Update to Red Line Boundary | BF | |

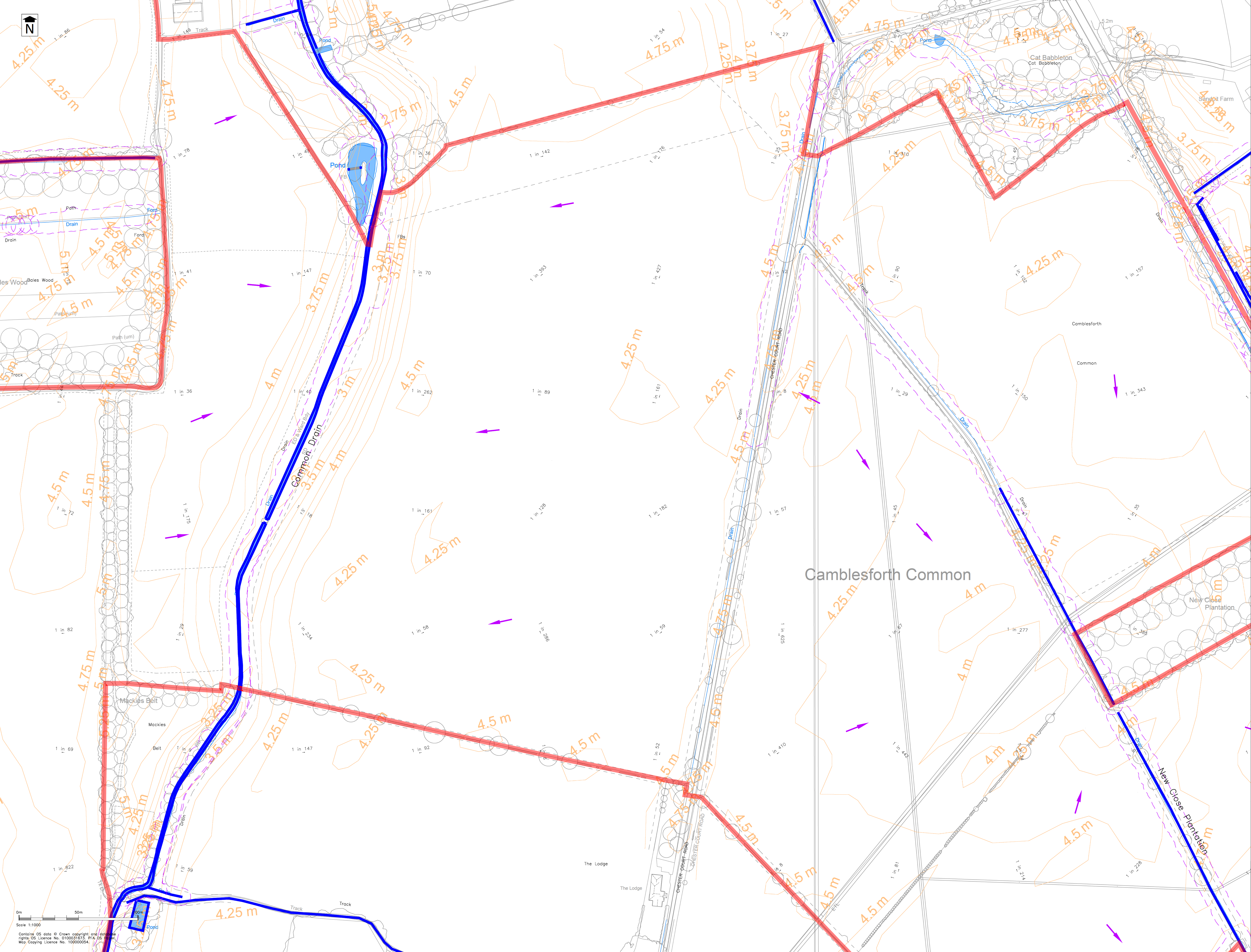
Status
FOR PLANNING

Client
Enso Green Holdings D Limited

Project
Helios Renewable Energy Project

Drawing Title
Existing Drainage Arrangements Sheet 3 of 21

Drawing No. **E216/109** Rev B
Date: June 2023 Scale: 1:1000 @ A0
E-Mail: info@pfapic.com

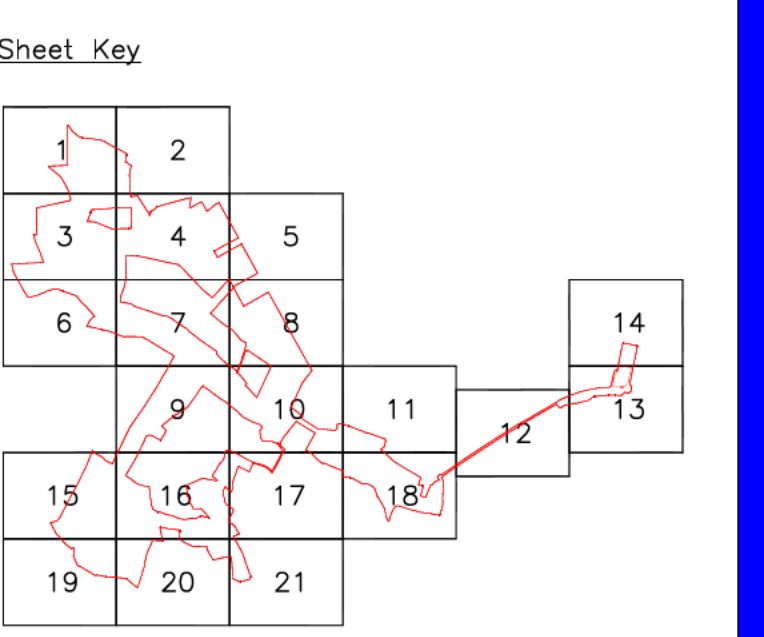


Scale 1:1000
0m 50m
Contains OS data © Crown copyright and database rights OS Licence No. 0100031673. PFA OS Map Copying Licence No. 100000054.

For Planning
This drawing is produced for the purposes of supporting a planning application and should not be relied upon for tender, pricing, or construction purposes.

- KEY**
- Site Boundary (Indicative Only)
 - Ordinary Watercourse
 - Ordinary Watercourse (DB Maintained)
 - 7m Watercourse Buffer
 - Overland Flow Route (Indicative Only)

- NOTES**
- Drawing based on Topographical Survey, produced by Above Surveying Ltd., drawing number DRAX LINEWORK ("CAD") (Dated 6th May 2022).
 - Approximate Top of Bank based on LIDAR data at 0.1m intervals. 7m buffers based on the approximate top of bank data. Top of Bank will need to be accurately verified.
 - Contains public sector information licensed under the Open Government Licence v3.0.
 - 7m watercourse buffer in accordance with Selby Internal Drainage Board byelaw (Byelaw 10: No person without the previous consent of the Board shall erect any building or structure, whether temporary or permanent, or plant any tree, shrub, willow or other similar growth within 7 metres of the landward toe of the bank where there is an embankment or wall or within 7 metres of the top of the batter where there is no embankment or wall, or where the watercourse is enclosed within 7 metres of the enclosing structure).



| Rev | Date | Description | Drawn | Check |
|-----|----------|-----------------------------|-------|-------|
| # | 02/06/23 | First Issue | ML | BF |
| A | 23/08/23 | Update to Red Line Boundary | IS | |
| B | 13/02/24 | Update to Red Line Boundary | BF | |

Status
FOR PLANNING

Client
Enso Green Holdings D Limited

Project
Helios Renewable Energy Project

Drawing Title
Existing Drainage Arrangements Sheet 4 of 21

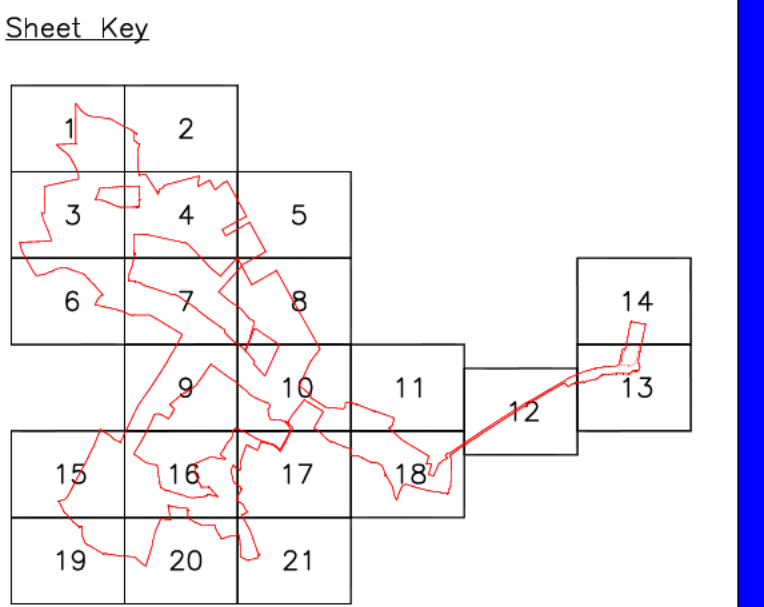
Drawing No. **E216/110** Rev B
Date: June 2023 Scale: 1:1000 @ A0
E-Mail: info@pfapic.com



For Planning
This drawing is produced for the purposes of supporting a planning application and should not be relied upon for tender, pricing, or construction purposes.

- KEY**
- Site Boundary (Indicative Only)
 - Ordinary Watercourse
 - Ordinary Watercourse (DB Maintained)
 - 7m Watercourse Buffer
 - Overland Flow Route (Indicative Only)

- NOTES**
- Drawing based on Topographical Survey, produced by Above Surveying Ltd., drawing number DRAX LINEWORK ("CAD") (Dated 6th May 2022).
 - Approximate Top of Bank based on LIDAR data at 0.1m intervals. 7m buffers based on the approximate top of bank data. Top of Bank will need to be accurately verified.
 - Contains public sector information licensed under the Open Government Licence v3.0.
 - 7m watercourse buffer in accordance with Selby Internal Drainage Board byelaw (Byelaw 10: No person without the previous consent of the Board shall erect any building or structure, whether temporary or permanent, or plant any tree, shrub, willow or other similar growth within 7 metres of the landward toe of the bank where there is an embankment or wall or within 7 metres of the top of the batter where there is no embankment or wall, or where the watercourse is enclosed within 7 metres of the enclosing structure).



| Rev | Date | Description | Drawn | Check |
|-----|----------|-----------------------------|-------|-------|
| # | 02/06/23 | First Issue | ML | BF |
| A | 23/08/23 | Update to Red Line Boundary | IS | |
| B | 13/02/24 | Update to Red Line Boundary | BF | |

Status
FOR PLANNING

Client
Enso Green Holdings D Limited

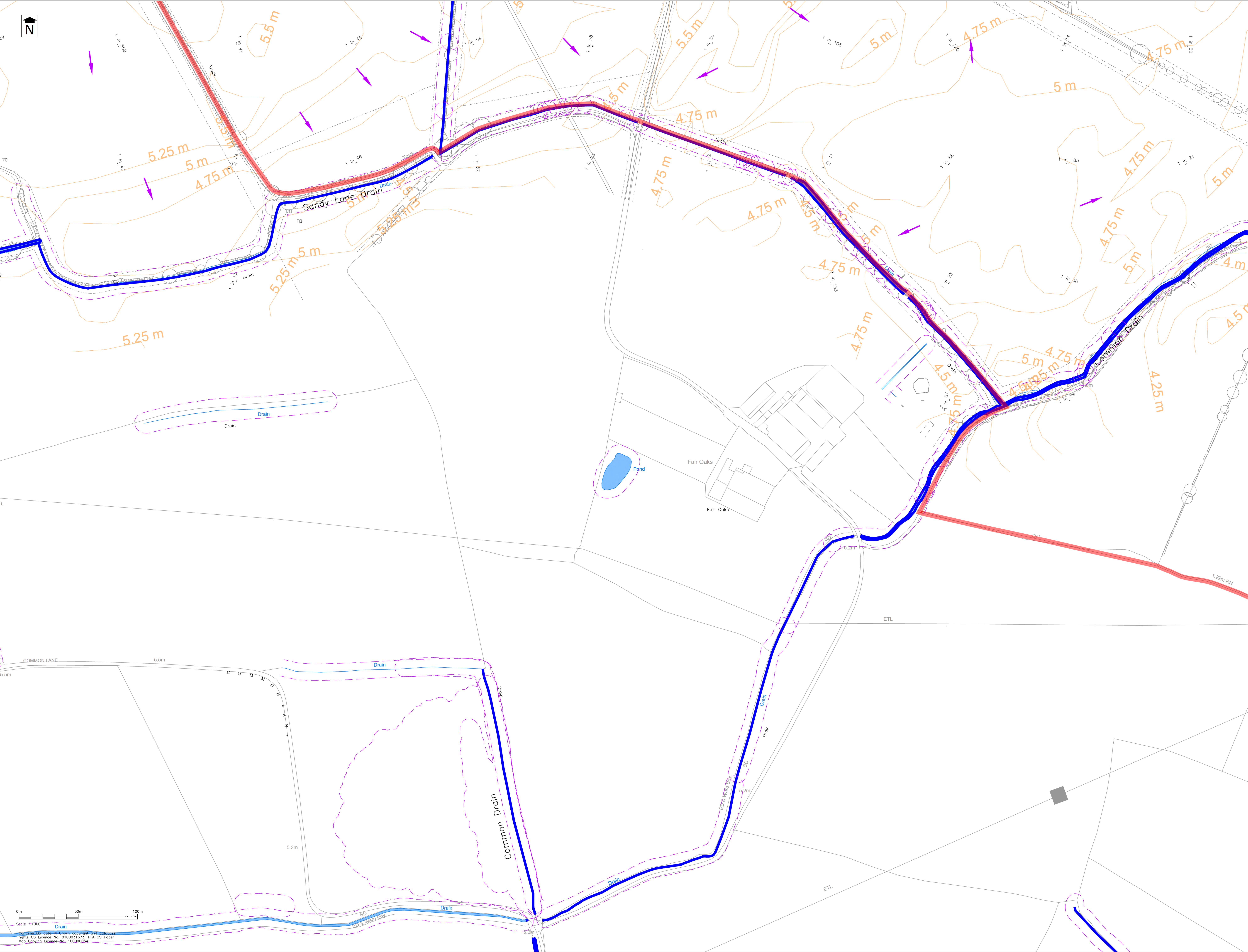
Project
Helios Renewable Energy Project

Drawing Title
Existing Drainage Arrangements Sheet 5 of 21

Drawing No. **E216/111** Rev B

Date: June 2023 Scale: 1:1000 @ A0

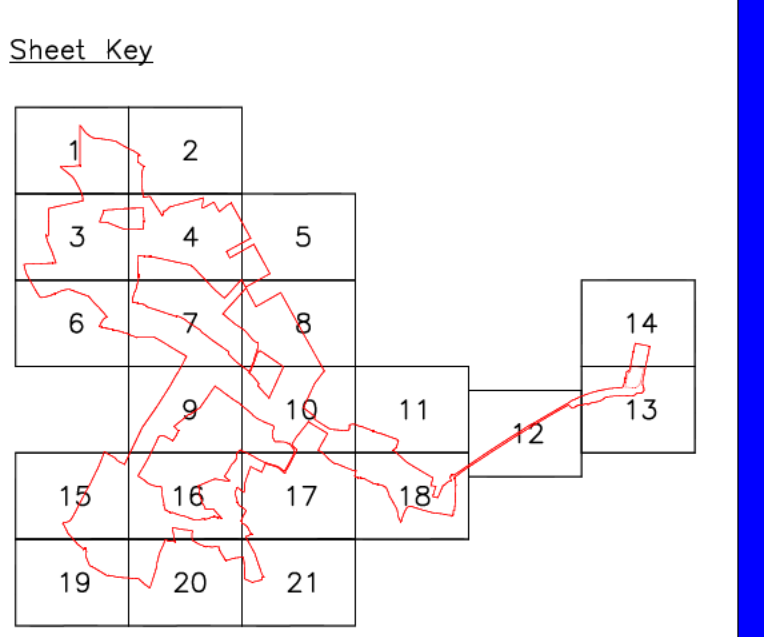
E-Mail: info@pfapic.com



For Planning
This drawing is produced for the purposes of supporting a planning application and should not be relied upon for tender, pricing, or construction purposes.

- KEY**
- Site Boundary (Indicative Only)
 - Ordinary Watercourse
 - Ordinary Watercourse (DB Maintained)
 - 7m Watercourse Buffer
 - Overland Flow Route (Indicative Only)

- NOTES**
- Drawing based on Topographical Survey, produced by Above Surveying Ltd., drawing number DRAX LINEWORK ("CAD") (Dated 6th May 2022).
 - Approximate Top of Bank based on LIDAR data at 0.1m intervals. 7m buffers based on the approximate top of bank data. Top of Bank will need to be accurately verified.
 - Contains public sector information licensed under the Open Government Licence v3.0.
 - 7m watercourse buffer in accordance with Selby Internal Drainage Board byelaw (Byelaw 10: No person without the previous consent of the Board shall erect any building or structure, whether temporary or permanent, or plant any tree, shrub, willow or other similar growth within 7 metres of the landward toe of the bank where there is an embankment or wall or within 7 metres of the top of the batter where there is no embankment or wall, or where the watercourse is enclosed within 7 metres of the enclosing structure).



| Rev | Date | Description | Drawn | Check |
|-----|----------|-----------------------------|-------|-------|
| # | 01/06/23 | First Issue | ML | BF |
| A | 23/08/23 | Update to Red Line Boundary | IS | |
| B | 13/02/24 | Update to Red Line Boundary | BF | |

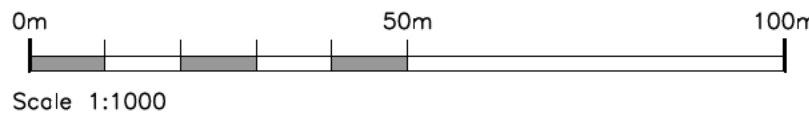
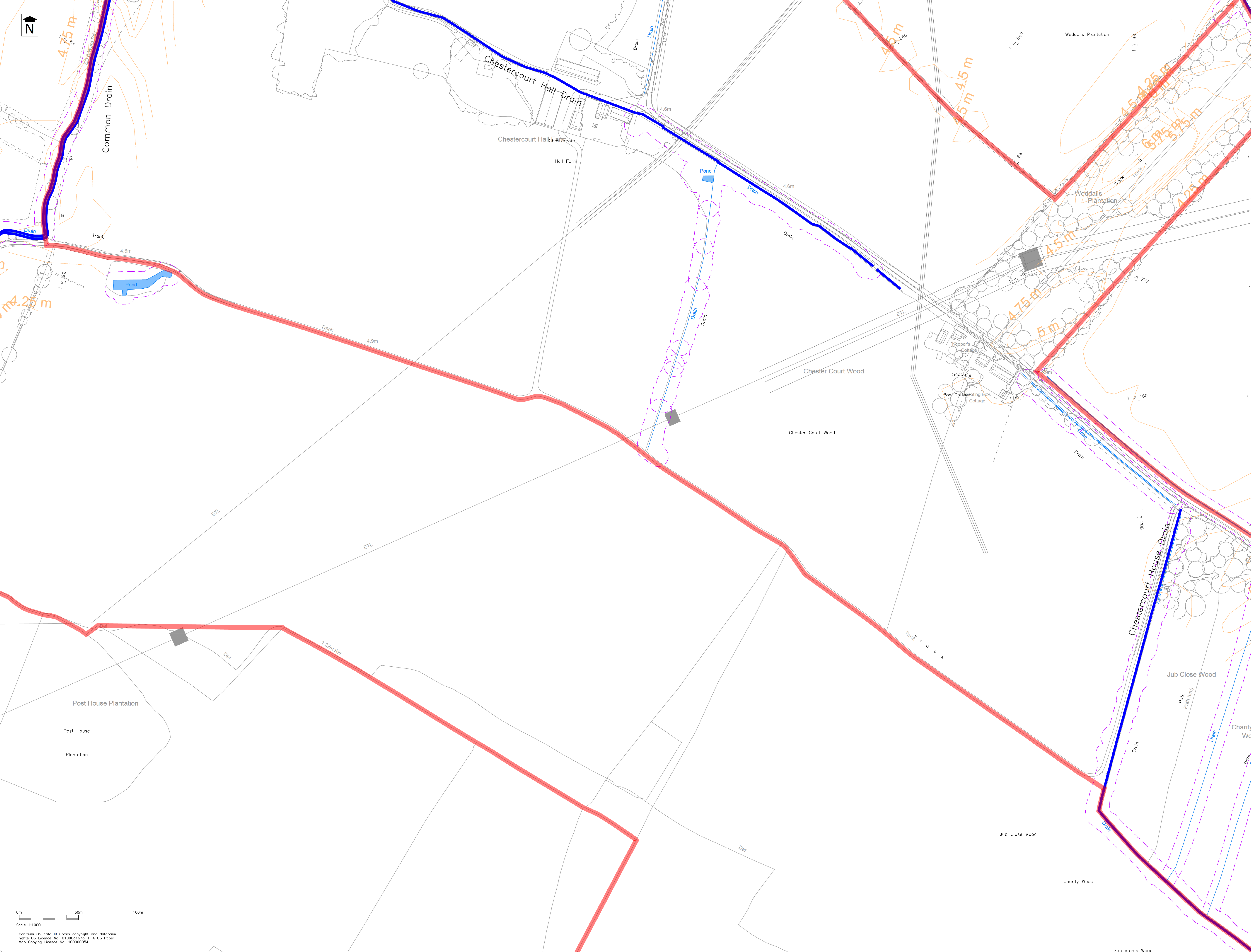
Status
FOR PLANNING

Client
Enso Green Holdings D Limited

Project
Helios Renewable Energy Project

Drawing Title
Existing Drainage Arrangements Sheet 6 of 21

Drawing No. **E216/112** Rev B
Date: June 2023 Scale: 1:1000 @ A0
E-Mail: info@pfapic.com

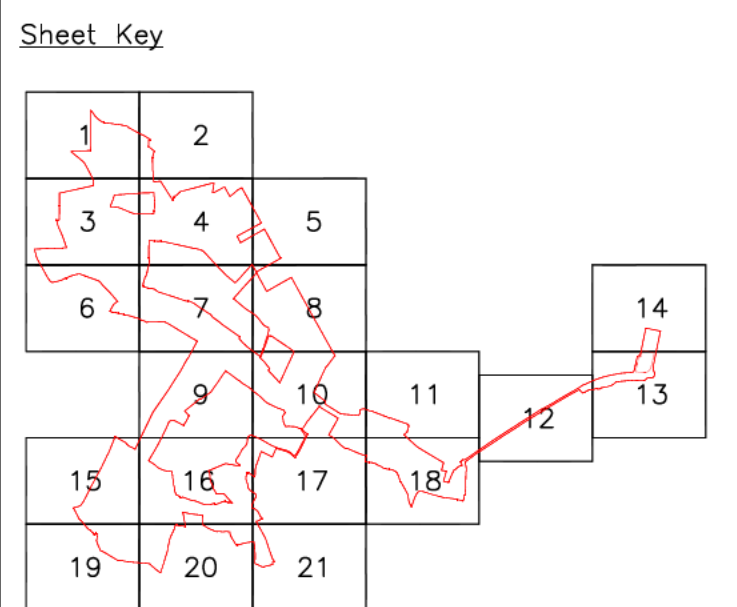


Contains OS data © Crown copyright and database rights OS Licence No. 0100031673. PFA OS Paper Map Copying Licence No. 100000054.

For Planning
This drawing is produced for the purposes of supporting a planning application and should not be relied upon for tender, pricing, or construction purposes.

- KEY**
- Site Boundary (Indicative Only)
 - Ordinary Watercourse
 - Ordinary Watercourse (DB Maintained)
 - 7m Watercourse Buffer
 - Overland Flow Route (Indicative Only)

- NOTES**
- Drawing based on Topographical Survey, produced by Above Surveying Ltd., drawing number DRAX LINEWORK ("CAD") (Dated 6th May 2022).
 - Approximate Top of Bank based on LIDAR data at 0.1m intervals. 7m buffers based on the approximate top of bank data. Top of Bank will need to be accurately verified.
 - Contains public sector information licensed under the Open Government Licence v3.0.
 - 7m watercourse buffer in accordance with Selby Internal Drainage Board byelaw (Byelaw 10: No person without the previous consent of the Board shall erect any building or structure, whether temporary or permanent, or plant any tree, shrub, willow or other similar growth within 7 metres of the landward toe of the bank where there is an embankment or wall or within 7 metres of the top of the batter where there is no embankment or wall, or where the watercourse is enclosed within 7 metres of the enclosing structure).



| Rev | Date | Description | Drawn | Check |
|-----|----------|-----------------------------|-------|-------|
| # | 01/06/23 | First Issue | ML | BF |
| A | 23/08/23 | Update to Red Line Boundary | IS | |
| B | 13/02/24 | Update to Red Line Boundary | BF | |

Status
FOR PLANNING

Client
Enso Green Holdings D Limited

Project
Helios Renewable Energy Project

Drawing Title
Existing Drainage Arrangements Sheet 7 of 21

Drawing No. **E216/113** Rev B
Date: June 2023 Scale: 1:1000 @ A0
E-Mail: @pfapic.com