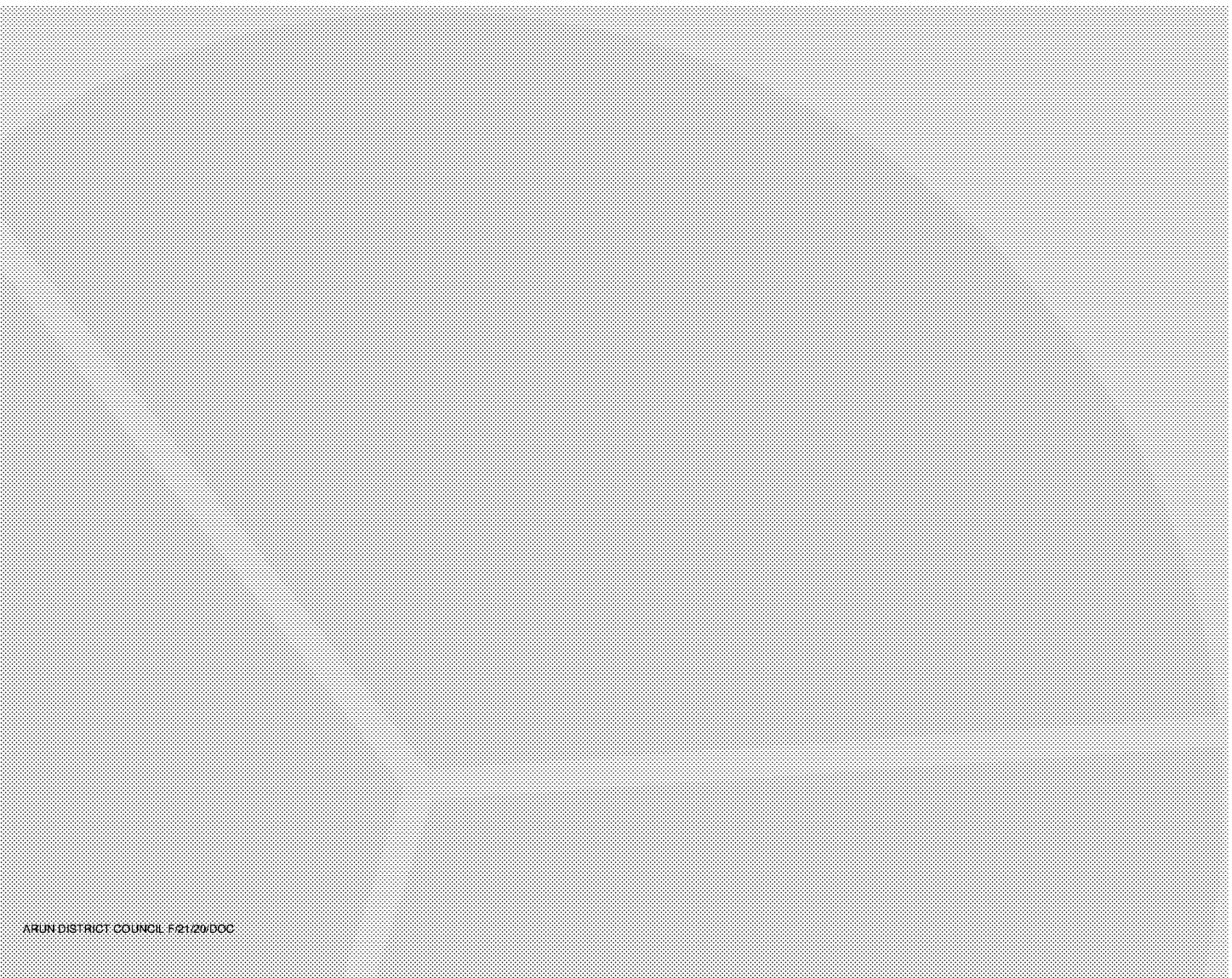




## SuDS Operation and Maintenance Statement

Drainage Design  
Wicks Farm, Arundel  
JDI01679-1HI





## Contents

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## 1.0 Terms of Reference

### 1.1 Report Details

Jackson Purdue Lever has been appointed by Envireau to prepare a SuDS Operation and Maintenance Statement. No liability is accepted to any third party for all or part of this report in connection with this or any other development.

This document has been produced, the contents of which are based on current best practice guidance, to demonstrate the effectiveness and longevity of the SuDS features designed within the drainage strategy.

The surface water network has been designed to accommodate the 1 in 100 year storm rainfall event plus an allowance of 40% for climate change. As the flows are generally being attenuated on site, and within SuDS features, there will be a period of time after storm events where the network is still partially or fully surcharged and is discharging runoff. Should any surcharging still be present 48 hours after the end of the storm, appropriate action should be taken as noted within the following sections.

This document is intended to give an overview of the operation and maintenance for the range of SuDS features included within the drainage strategy and in relation to typical/standard details only. Where proprietary products are specified the manufacturer's recommendations should be followed in the first instance, unless specifically noted otherwise due to project constraints.

The recommended operation and maintenance intervals are indicative only and should initially be undertaken on a more frequent basis to ensure that there are no unforeseen issues with the construction and early operation. The frequency can then be adjusted to suit the Client's wider site maintenance programme.

### 1.2 Report History

| Status / Revision | Author | Approved | Issued Date | Purpose                                        |
|-------------------|--------|----------|-------------|------------------------------------------------|
| A1-C01            | MPW    | TSL      | 27/03/2020  | Issued for Planning                            |
| A1-C02            | MPW    | TSL      | 24/06/2020  | Updated following comments received from LLFA. |
|                   |        |          |             |                                                |



## 2.0 Pipes and Manholes

### 2.1 Location and Description

The proposed pipes and manholes are shown on the drainage layout drawing included within Appendix A.

The pipes and manholes have been designed in accordance with CIRIA C753 and all current British Standards. Where specified, proprietary products are to be installed and maintained in accordance with the manufacturer's recommendations.

### 2.2 Operation

The pipes are intended to be surface water conveyance features. These features are intended to be dry except during rainfall events and have been designed to be self-cleansing as a result of the gradients proposed.

Access for maintenance has been provided through inspection chambers, manholes and rodding eyes.

### 2.3 Inspection and Maintenance Regime

Regular inspection and maintenance are an important factor for the effective operation of these features and to identify areas which may have been obstructed/clogged and are not operating correctly.

A recommended schedule of maintenance activities is included in the table below:

| Maintenance Schedule   | Required Action                                                                                                                | Typical Frequency                              |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|
| Occasional Maintenance | Remove or control tree roots where they are encroaching pipe runs, using recommended methods (e.g. NJUG, 2018 or BS 3998:2010) | As required                                    |
| Remedial Actions       | Clear pipework of blockages                                                                                                    | As required                                    |
| Monitoring             | Initial inspection should be provided using a post-construction CCTV survey                                                    | Once (post-construction)                       |
|                        | Inspect for evidence of poor operation                                                                                         | Monthly (during the first year), then annually |



## 3.0 Channel Drains

### 3.1 Location and Description

The proposed channel drains are shown on the drainage layout drawing included within Appendix A.

The channel drains have been designed in accordance with CIRIA C753 and all current British Standards. Where specified, proprietary products are to be installed and maintained in accordance with the manufacturer's recommendations.

### 3.2 Operation

The channel drains are intended to be surface water collection and conveyance features. These features are intended to be dry except during rainfall events.

The surface water should enter the drainage channel from runoff from adjacent impermeable surfaces and typically consist of a channel with a removable grate.

Access for maintenance has been provided through access chambers, rodding points and the removable cover grates.

### 3.3 Inspection and Maintenance Regime

Regular inspection and maintenance are an important factor for the effective operation of these features and to identify areas which may have been obstructed/clogged and are not operating correctly.

A recommended schedule of maintenance activities is included in the table below:

| Maintenance Schedule | Required Action                                                                   | Typical Frequency                              |
|----------------------|-----------------------------------------------------------------------------------|------------------------------------------------|
| Routine Maintenance  | Remove litter and debris and inspect for sediment accumulation                    | Six monthly                                    |
| Remedial Actions     | Clear pipework of blockages                                                       | As required                                    |
| Monitoring           | Inspect for evidence of poor operation                                            | Monthly (during the first year), then annually |
|                      | Inspect sediment accumulation rates and establish appropriate removal frequencies | Monthly (during the first year), then annually |



## 4.0 Flow Control Chambers/Devices

### 4.1 Location and Description

The proposed flow control chambers/devices are shown on the drainage layout drawing included within Appendix A.

The flow control chambers/devices have been designed in accordance with CIRIA C753 and all current British Standards. Where specified, proprietary products are to be installed and maintained in accordance with the manufacturer's recommendations.

### 4.2 Operation

The flow control chamber/device is intended to restrict the discharge rate of surface water leaving the site to a designed rate utilising devices such as an orifice plate, vortex separator or mechanical float control.

Access for maintenance has been provided through the chamber itself.

### 4.3 Inspection and Maintenance Regime

Regular inspection and maintenance are an important factor for the effective operation of these features and to identify areas which may have been obstructed/clogged and are not operating correctly.

A recommended schedule of maintenance activities is included in the table below:

| Maintenance Schedule | Required Action                                                             | Typical Frequency                              |
|----------------------|-----------------------------------------------------------------------------|------------------------------------------------|
| Routine Maintenance  | Remove litter and debris and inspect for sediment accumulation              | Annually                                       |
| Regular Maintenance  | Check any penstocks and other mechanical devices                            | Annually                                       |
| Remedial Actions     | Clear pipework of blockages, utilise penstock to clear chamber if required  | As required                                    |
| Monitoring           | Initial inspection should be provided using a post-construction CCTV survey | Once (post-construction)                       |
|                      | Inspect for evidence of poor operation                                      | Monthly (during the first year), then annually |



## 5.0 Swales

### 5.1 Location and Description

The proposed swales are shown on the drainage layout drawing included within Appendix A.

The swales have been designed in accordance with CIRIA C753 and all current British Standards. Where specified, proprietary products are to be installed and maintained in accordance with the manufacturer's recommendations.

### 5.2 Operation

The swales are intended to be surface water conveyance, water quality improvement and attenuation storage features. These features are intended to be dry except during rainfall events.

Specific access for maintenance has not been provided as the swales are open features that can be accessed from the surrounding area.

### 5.3 Inspection and Maintenance Regime

Regular inspection and maintenance are an important factor for the effective operation of swales.

A recommended schedule of maintenance activities is included in the table below:

| Maintenance Schedule   | Required Action                                                                                                              | Typical Frequency                                                                    |
|------------------------|------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| Regular Maintenance    | Remove litter and debris                                                                                                     | Monthly, or as required                                                              |
|                        | Cut grass -- to retain grass height within specified design range                                                            | Monthly (during growing season), or as required.                                     |
|                        | Manage other vegetation and remove nuisance plants                                                                           | Monthly at start, then as required                                                   |
|                        | Inspect inlets, outlets and overflows for blockages and clear if required                                                    | Monthly                                                                              |
|                        | Inspect infiltration surfaces for ponding, compaction, silt accumulation, record areas where water is ponding for > 48 hours | Monthly, or as required                                                              |
|                        | Inspect vegetation coverage                                                                                                  | Monthly for six months, quarterly for two years, then six monthly                    |
|                        | Inspect inlets and facility surface for silt accumulation, establish appropriate silt removal frequencies                    | Six monthly                                                                          |
| Occasional Maintenance | Re-seed areas of poor vegetation growth, alter plant types to better suit conditions if required                             | As required, or if bare soil is exposed over 10% or more of the swale treatment area |
| Remedial Actions       | Repair erosion or other damage by re-turfing or re-seeding                                                                   | As required                                                                          |



|  |                                                                                                                                        |             |
|--|----------------------------------------------------------------------------------------------------------------------------------------|-------------|
|  | Re-level uneven surfaces and reinstate design levels                                                                                   | As required |
|  | Scarify and spike topsoil layer to improve infiltration performance, break up silt deposits and prevent compaction of the soil surface | As required |
|  | Remove build-up of sediment on upstream gravel trench, flow spreader or at top of filter strip                                         | As required |
|  | Remove and dispose of oils or petrol residues using safe standard practices                                                            | As required |



## 6.0 Ponds and Wetlands

### 6.1 Location and Description

The proposed ponds and wetlands are shown on the drainage layout drawing included within Appendix A.

The ponds and wetlands have been designed in accordance with CIRIA C753 and all current British Standards. Where specified, proprietary products are to be installed and maintained in accordance with the manufacturer's recommendations.

### 6.2 Operation

The ponds and wetlands are intended to be surface water conveyance, water quality improvement and attenuation storage features. These features are intended to be wet.

Specific access for maintenance has not been provided as the ponds and wetlands are open features that can be accessed from the surrounding area.

### 6.3 Inspection and Maintenance Regime

Regular inspection and maintenance are an important factor for the effective operation of ponds and wetlands.

A recommended schedule of maintenance activities is included in the table below:

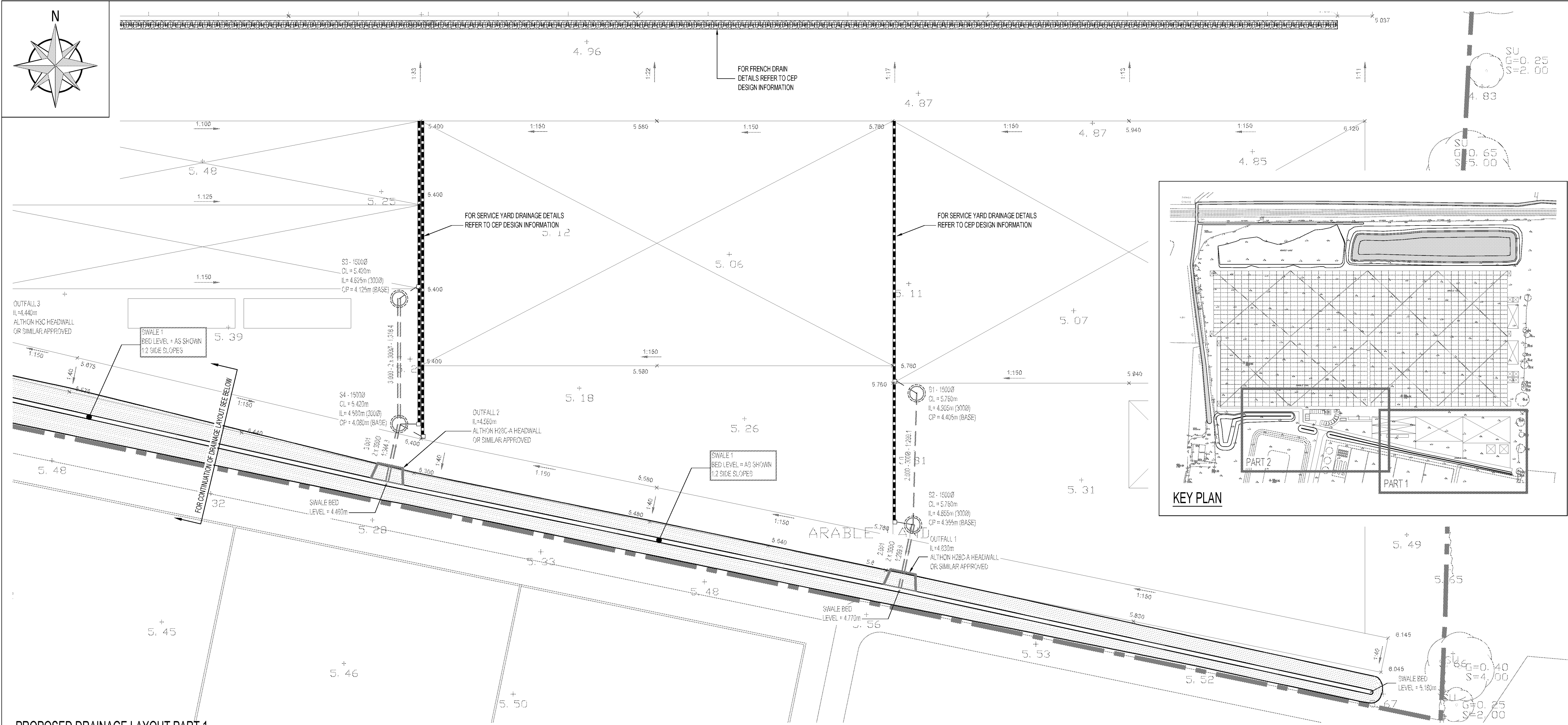
| Maintenance Schedule | Required Action                                                                                                                                                                                                                       | Typical Frequency                                      |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|
| Regular Maintenance  | Remove litter and debris                                                                                                                                                                                                              | Monthly, or as required                                |
|                      | Cut the grass – public areas                                                                                                                                                                                                          | Monthly (during growing season)                        |
|                      | Cut the meadow grass                                                                                                                                                                                                                  | Six monthly (spring, before nesting season and autumn) |
|                      | Inspect marginal and bankside vegetation and remove nuisance plants (for first three years)                                                                                                                                           | Monthly (at start), then as required                   |
|                      | Inspect inlets, outlets, banksides, structures, pipework, etc. for evidence of blockage and/or physical damage                                                                                                                        | Monthly                                                |
|                      | Inspect water body for signs of poor water quality                                                                                                                                                                                    | Monthly (May-October)                                  |
|                      | Inspect silt accumulation rates in any forebay and in main body of the pond and establish appropriate removal frequencies; undertake contamination testing once some build-up has occurred, to inform management and disposal options | Six monthly                                            |



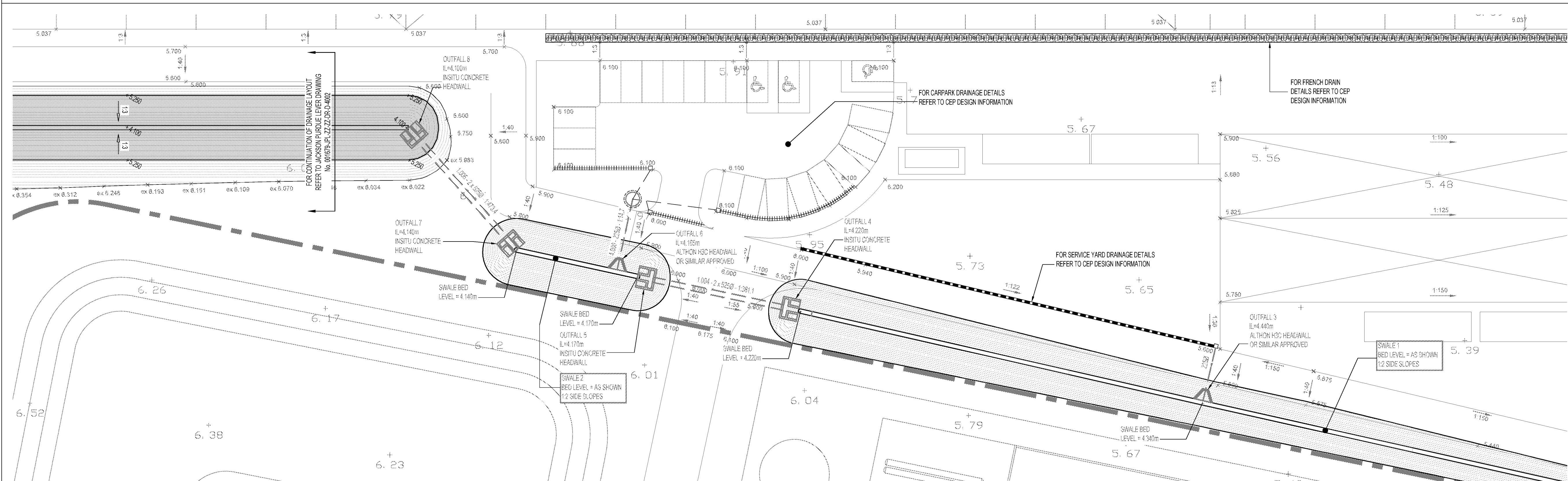
|                        |                                                                                                                                                         |                                                                                         |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
|                        | Check any mechanical devices, e.g. penstocks                                                                                                            | Six monthly                                                                             |
|                        | Hand cut submerged and emergent aquatic plants (at minimum of 0.1m above pond base; include maximum 25% of pond surface)                                | Annually                                                                                |
|                        | Remove 25% of bank vegetation from water's edge to a minimum of 1.0m above water level                                                                  | Annually                                                                                |
|                        | Tidy all dead growth (scrub clearance) before start of growing season (Note: tree maintenance is usually part of overall landscape management contract) | Annually                                                                                |
|                        | Remove sediment from any forebay                                                                                                                        | Every 1-5 years, or as required                                                         |
|                        | Remove sediment and planting from one quadrant of the main body of ponds without sediment forebays                                                      | Every five years, or as required                                                        |
| Occasional Maintenance | Remove sediment from the main body of big ponds when pool volume is reduced by 20%                                                                      | With effective pre-treatment, this will only be required rarely, e.g. every 25-50 years |
| Remedial Actions       | Repair erosion or other damage                                                                                                                          | As required                                                                             |
|                        | Replant, where necessary                                                                                                                                | As required                                                                             |
|                        | Aerate pond when signs of eutrophication are detected                                                                                                   | As required                                                                             |
|                        | Realign riprap or repair other damage                                                                                                                   | As required                                                                             |
|                        | Repair/rehabilitate inlets, outlets and overflows                                                                                                       | As required                                                                             |

## **Appendix A**

### **Proposed Drainage Layout**



PROPOSED DRAINAGE LAYOUT PART 1



PROPOSED DRAINAGE LAYOUT PART 2

Jackson Consulting Engineers Limited

A1

1. DO NOT SCALE THIS DRAWING. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS ON SITE PRIOR TO COMMENCING THE WORKS.

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. THIS DRAWING IS BASED ON CEP DRAWING No. 23314-21.22.23 AND 24 REV C - 12/06/2020.

KEY

5.95 +

EXISTING SURVEYED SITE LEVEL TAKEN FROM CEP DRAWING No. No. 23314-21.22.23 AND 24 REV C - 12/06/2020

4.654 x

EXISTING SURVEYED SITE LEVEL TAKEN FROM CEP DRAWING No. No. 23314-21.22.23 AND 24 REV C - 12/06/2020

1:11

EXISTING SURVEYED SITE LEVEL TAKEN FROM CEP DRAWING No. No. 23314-21.22.23 AND 24 REV C - 12/06/2020

PROPOSED PRECAST CONCRETE SURFACE WATER MANHOLE WITH CATCHPIT

PROPOSED SURFACE WATER DRAIN

PROPOSED PRECAST CONCRETE HEADWALL

FOR PROPOSED DRAINAGE DETAILS REFER TO JACKSON PURDUE LEVER DRAWING No. 001679-JPL-ZZ-ZZ-DR-D-4021 - 4023

FOR PROPOSED SECTIONS REFER TO JACKSON PURDUE LEVER DRAWING No. 001679-JPL-ZZ-ZZ-DR-D-4031

|        |          |                          |       |        |  |
|--------|----------|--------------------------|-------|--------|--|
|        |          |                          |       |        |  |
| C02    | 24.06.20 | UPDATED TO SUIT COMMENTS | MMh   | MPW    |  |
| C01    | 27.03.20 | ISSUED FOR INFORMATION   | MMh   | MPW    |  |
| Rev.   | Date     | Revision Description     | Drawn | Auth'd |  |
| Client |          |                          |       |        |  |

ENVIREAUWATER

Project Title

WICKS FARM

Description

PROPOSED DRAINAGE LAYOUT SHEET 1

Date

Scale

JPL Ref.

BIM Ref.

Suitability

MAR 2020

1:250 @A1

JD101679

Project

Orig.

Vol.

Level

Type

Role

Number

001679

JPL

ZZ

ZZ

DR

D

4001

A2 - CONCEPT DESIGN

C02

Jackson

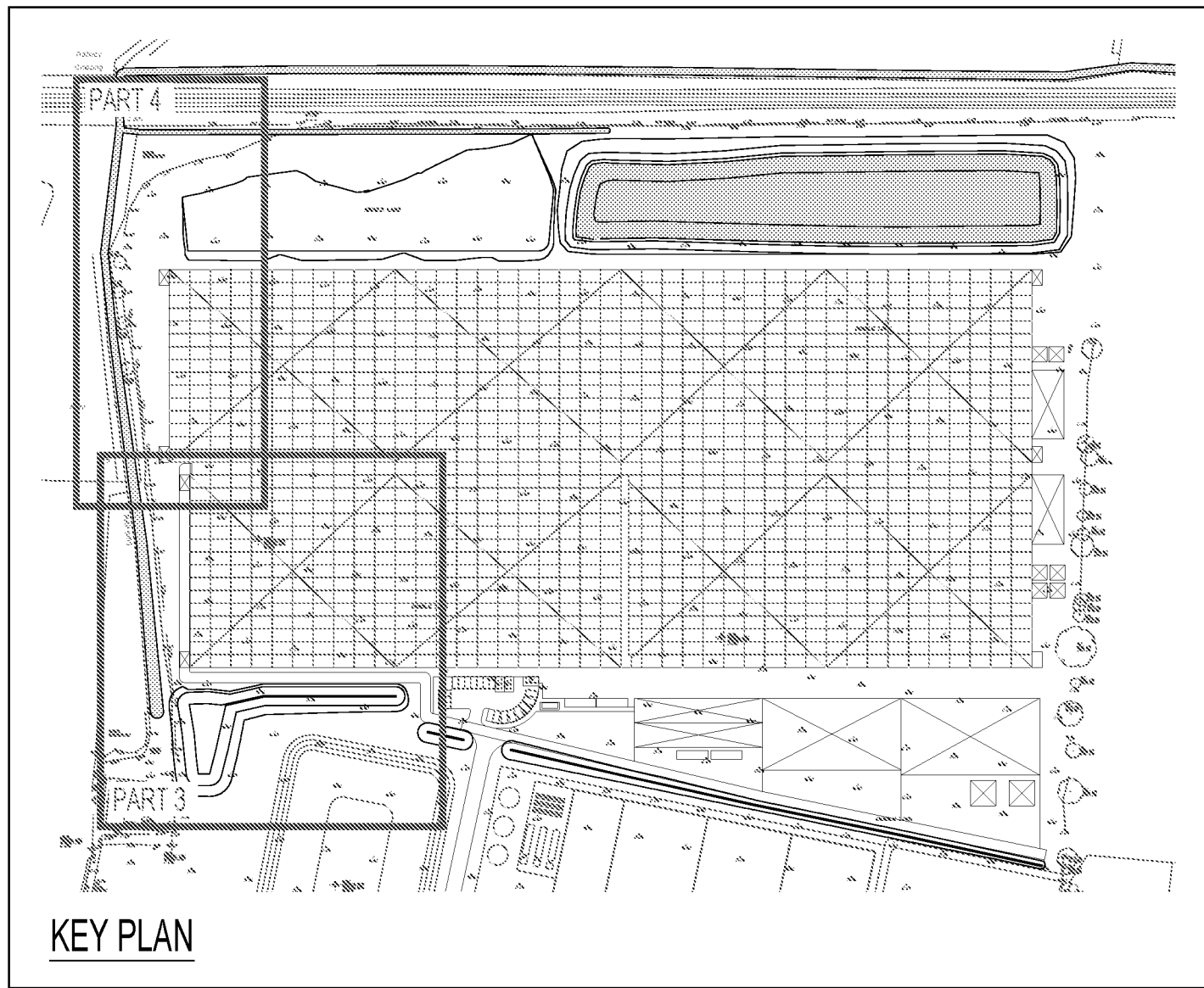
purdue lever

8 Philip Point Drive, Philip Park, Dorset, Dorset, UK

01352 367675

Email: enquiries@jacksonpurduelever.co.uk

Web: www.jacksonpurduelever.co.uk



PROPOSED DRAINAGE LAYOUT PART 4

- |                                                                                                                                         |    |
|-----------------------------------------------------------------------------------------------------------------------------------------|----|
| © Jackson Consulting Engineers Limited                                                                                                  | A1 |
| 1. DO NOT SCALE THIS DRAWING. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS ON SITE PRIOR TO COMMENCING THE WORKS. |    |
| 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. THIS DRAWING IS BASED ON CEP DRAWING<br>No. 23314-21.22.23 and 24 REV C - 03/03/2020.                                                |    |

### KEY

- |                                                                                            |                                                                                                            |
|--------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|
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| 4.664 ×                                                                                    | EXISTING SURVEYED SITE LEVEL TAKEN FROM<br>CEF DRAWING No.<br>No. 23314/21,22,23 AND 24 REV C - 12/06/2020 |
|  1.11 → | EXISTING SURVEYED SITE LEVEL TAKEN FROM<br>CEF DRAWING No.<br>No. 23314/21,22,23 AND 24 REV C - 12/06/2020 |
|         | PROPOSED PRECAST CONCRETE SURFACE<br>WATER MANHOLE WITH CATCHPIT                                           |
|         | PROPOSED SURFACE WATER DRAIN                                                                               |
|         | PROPOSED PRECAST CONCRETE HEADWALL                                                                         |

FOR PROPOSED DRAINAGE DETAILS  
REFER TO JACKSON PURDUE LEVER  
DRAWING No.  
001679-JPL-ZZ-ZZ-DR-D-4021 - 4023

FOR PROPOSED SECTIONS REFER TO  
JACKSON PURDUE LEVER DRAWING No.  
001679-JPL-ZZ-ZZ-DR-D-4031

|      |          |                          |       |        |
|------|----------|--------------------------|-------|--------|
|      |          |                          |       |        |
| C02  | 24.06.20 | UPDATED TO SUIT COMMENTS | MWh   | MPW    |
| C01  | 27.03.20 | ISSUED FOR INFORMATION   | MWh   | MPW    |
| Rev. | Date     | Revision Description     | Drawn | Auth'd |

Client

ENVIREAUWATER

|               |  |
|---------------|--|
| Project Title |  |
|---------------|--|

WICKS FARM

|             |
|-------------|
| Description |
|-------------|

## PROPOSED DRAINAGE LAYOUT SHEET 2

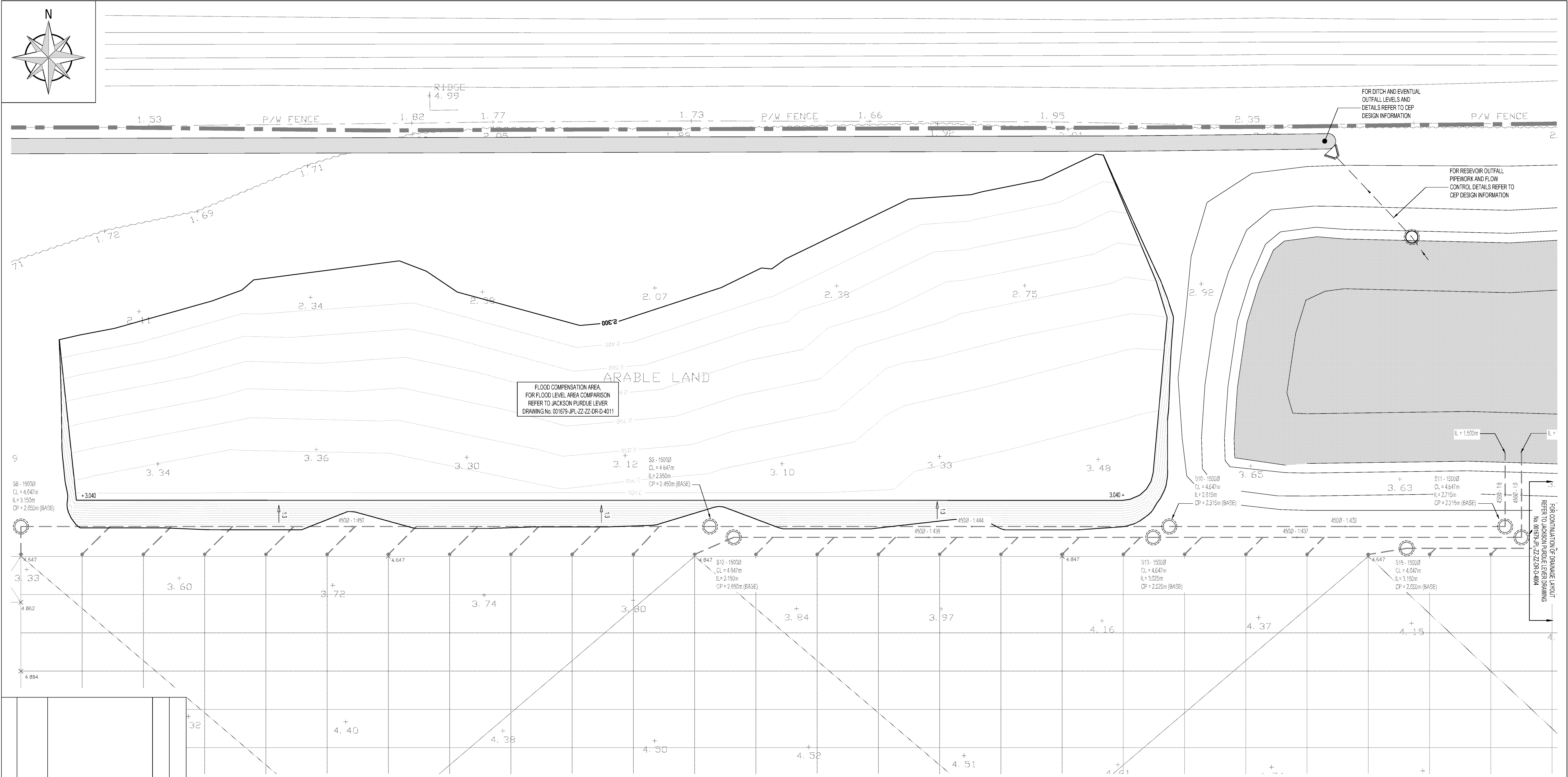
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| Date     | MAR 2020  | Drawn      | MWb |
| Scale    | 1:250 @A1 | Authorised | MPW |
| JPL Ref. | JDI01679  |            |     |

| BIM Ref. |       |      |       |      |      |        |
|----------|-------|------|-------|------|------|--------|
| Project  | Orig. | Vol. | Level | Type | Role | Number |
| 001679   | JPL   | ZZ   | ZZ    | DR   | D    | 4002   |

|                     |          |
|---------------------|----------|
| Suitability         | Revision |
| A2 - CONCEPT DESIGN | C02      |

**Jackson**  
purdue lever

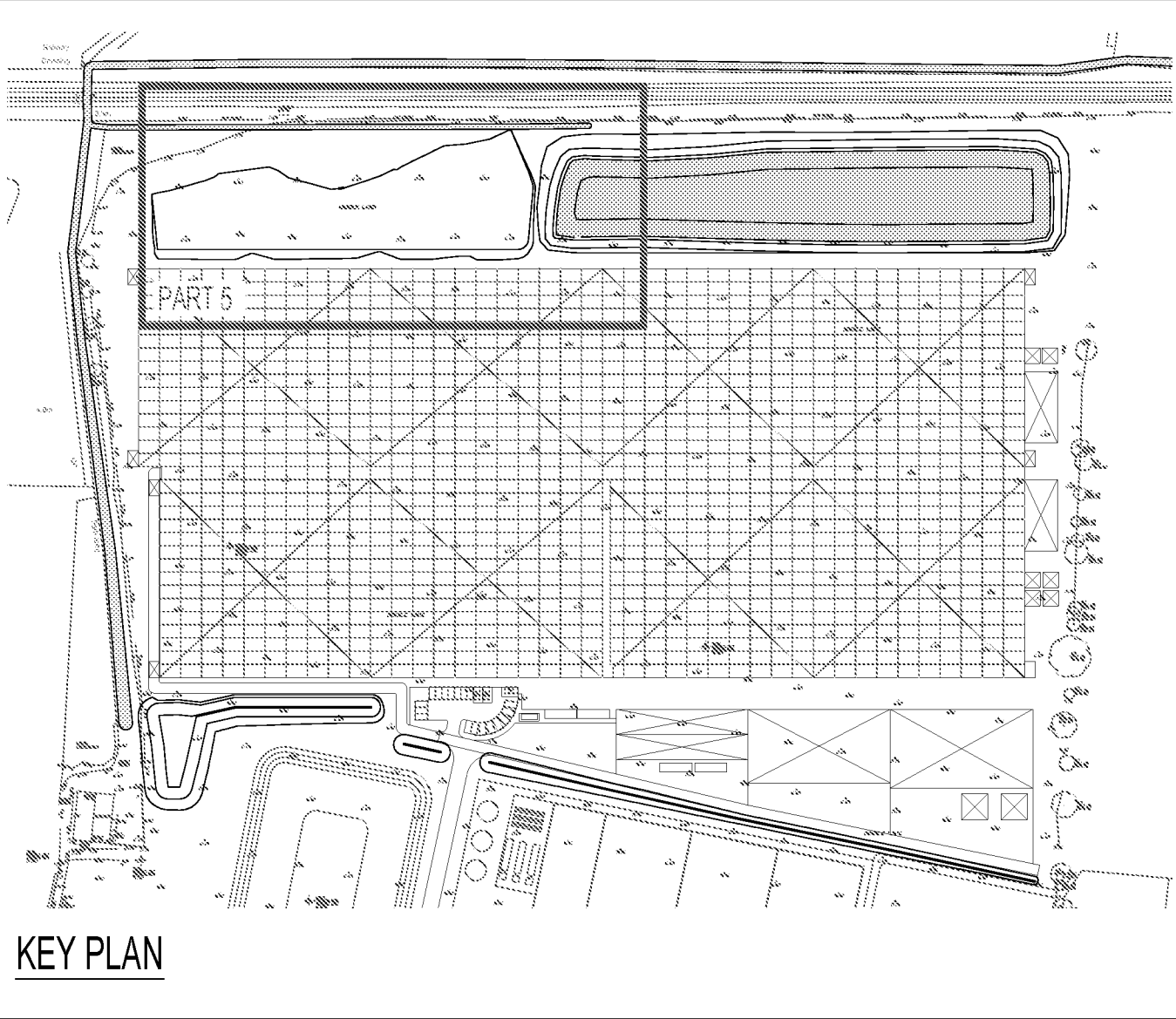
6 Plaza Point Drive, Platts Park, Derby, DE24 9DF Tel: 01293 334475  
Email: [enquiries@jackson.co.uk](mailto:enquiries@jackson.co.uk) Web: [www.jackson.co.uk](http://www.jackson.co.uk)



|                                                                                                                              |                     |                          |          |        |      |        |
|------------------------------------------------------------------------------------------------------------------------------|---------------------|--------------------------|----------|--------|------|--------|
| CO2                                                                                                                          | 24.06.20            | UPDATED TO SUIT COMMENTS | MWh      | MPW    |      |        |
| CO1                                                                                                                          | 27.03.20            | ISSUED FOR INFORMATION   | MWh      | MPW    |      |        |
| Rev                                                                                                                          | Date                | Revision Description     | Drawn    | Auth'd |      |        |
| Description                                                                                                                  |                     |                          |          |        |      |        |
| PROPOSED DRAINAGE LAYOUT<br>SHEET 3                                                                                          |                     |                          |          |        |      |        |
| Date                                                                                                                         | MAR 2020            | Drawn                    | MWh      |        |      |        |
| Scale                                                                                                                        | 1:250 @A1           | Authorised               | MPW      |        |      |        |
| JPL Ref.                                                                                                                     | JDI01679            |                          |          |        |      |        |
| BIM Ref.                                                                                                                     |                     |                          |          |        |      |        |
| Project                                                                                                                      | Orig.               | Vol.                     | Level    | Type   | Role | Number |
| 001679                                                                                                                       | JPL                 | ZZ                       | ZZ       | DR     | D    | 4003   |
| Suitability                                                                                                                  | A2 - CONCEPT DESIGN |                          | Revision |        | C02  |        |
|                                                                                                                              |                     |                          |          |        |      |        |
| 6 Pridon Road Drive, Pridon Park, Derby, LE24 8BX Tel: 01332 364175 Email: jacksonp@jacksonpl.co.uk Web: www.jacksonpl.co.uk |                     |                          |          |        |      |        |

PROPOSED DRAINAGE LAYOUT PART 5

|                                                                                                                                         |  |               |
|-----------------------------------------------------------------------------------------------------------------------------------------|--|---------------|
| © Jackson Consulting Engineers Limited                                                                                                  |  | A1            |
| 1. DO NOT SCALE THIS DRAWING. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS ON SITE PRIOR TO COMMENCING THE WORKS. |  |               |
| 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. THIS DRAWING IS BASED ON CEP DRAWING No. 23314-21, 22, 23 AND 24 REV C - 12/06/2020.                                                 |  |               |
| Client                                                                                                                                  |  | ENVIREAUWATER |
| Project Title                                                                                                                           |  | WICKS FARM    |



|                                                                                                           |                                                                                                    |
|-----------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
| <b>KEY</b>                                                                                                |                                                                                                    |
| 5. 95 x                                                                                                   | EXISTING SURVEYED SITE LEVEL TAKEN FROM CEP DRAWING No. 23314-21, 22, 23 AND 24 REV C - 12/06/2020 |
| 4.864 x                                                                                                   | EXISTING SURVEYED SITE LEVEL TAKEN FROM CEP DRAWING No. 23314-21, 22, 23 AND 24 REV C - 12/06/2020 |
| 1.11                                                                                                      | EXISTING SURVEYED SITE LEVEL TAKEN FROM CEP DRAWING No. 23314-21, 22, 23 AND 24 REV C - 12/06/2020 |
|                                                                                                           | PROPOSED PRECAST CONCRETE SURFACE WATER MANHOLE WITH CATCHPIT                                      |
|                                                                                                           | PROPOSED SURFACE WATER DRAIN                                                                       |
|                                                                                                           | PROPOSED PRECAST CONCRETE HEADWALL                                                                 |
| FOR PROPOSED DRAINAGE DETAILS REFER TO JACKSON PURDUE LEVER DRAWING No. 001679-JPL-ZZ-ZZ-DR-D-4021 - 4023 |                                                                                                    |
| FOR PROPOSED SECTIONS REFER TO JACKSON PURDUE LEVER DRAWING No. 001679-JPL-ZZ-ZZ-DR-D-4031                |                                                                                                    |

BELOW GROUND DRAINAGE SERVING THE GREENHOUSE RAINWATER PIPES INDICATED ON THIS DRAWING ARE PROVIDED BASED ON THE GREENHOUSE SUPPLIERS DETAILS AND DESIGN AND ARE BASED ON A 35mm/hr RAINFALL

