

- Notes
- All information is given in good faith and is believed to be correct. ECL, Egniol Consulting Ltd cannot accept responsibility for the accuracy of third party details.
  - Do not scale from this drawing. Any anomalies on this drawing should be brought to the attention of ECL.
  - To be read in conjunction with all other engineering drawings.
  - Any alterations by Architects to drawings including surface finishes and landscaping proposals must be provided to ECL.
  - Site Plan provided by Ryder Landscape Consultants, and taken from their drawing, 1000-RYD-XX-XX-DR-L-002 Landscape Masterplan.
  - Topographical survey by DTM Technologies, Drg no. 001-001-A, dated October 2021.
  - Site development boundary area measures 4.122ha in total, with the estimated development impermeable area at 25% or 1.031ha. Calculated Greenfield runoff rate is estimated at 10.3l/s using the H124 method.

- Key:
- Site Development Boundary
  - Proposed Catch Pit
  - Proposed Storm Water 1500 Pipe
  - Proposed Gabion Headwall
  - Flow Direction
  - Proposed French Drain
  - Banking
  - Proposed ACO Drain
  - Proposed Foul Water Drainage
  - Proposed Treated Drainage pipes with connecting Inspection Chambers
  - Proposed Reed Beds - 5No. 225m<sup>2</sup> Constructed with 100mm $\varnothing$  Perforated Pipe in 300mm wide, 700mm deep trenches.
  - To be constructed in accordance with Building Regulations Part H2 and BRE Good Building Guide No.42.
  - Refer to drawing ECL 9290.D05.002 Proposed Reed Bed System Detail for detailed design.

- External surface treatments taken from Ryder Landscape Consultant drawing
- Primary Vehicular Route - 1 way route with passing places (Tarmac and chippings)
  - Secondary Vehicular Route - Access to Accommodation Pods (Resin bound gravel)
  - Footpath - Recreational route (Self binding gravel)
  - Vehicular Access Track (Reinforced Grass Turf)

E	Revised to suit reed bed detail	VEV/DES/DES	03.09.24
D	Outfall details revised to suit ditch survey added	VEV/DES/DES	17.01.24
C	Reed Bed System Shown	VEV/DES/DES	20.11.23
B	Drainage Field Added	VEV/DES/DES	27.09.23
A	Foul Water Drainage Added	VEV/DES/DES	05.07.22

Rev	Modification	By	Chk	App	Date
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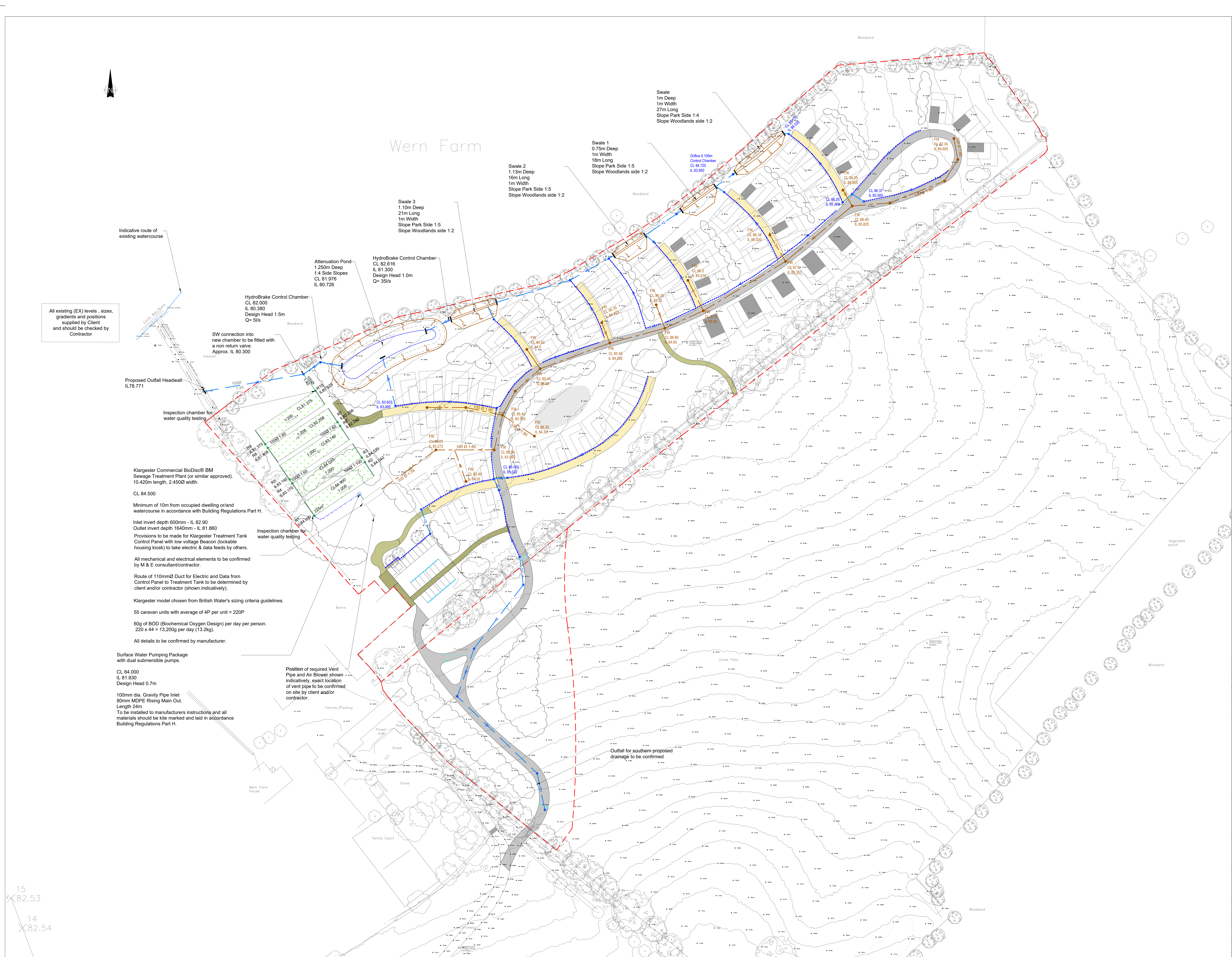
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Preliminary Drainage Strategy

Drawn by	Checked by	Approved by
VEV	DES	DES
Date	Date	Date
23.06.22	24.06.22	24.06.22
Status	Scale @ A1	
Technical Approval	1:500	
Drawing Number	ECL.9290.D05.001	Revision
		E



All existing (EX) levels, sizes, gradients and positions supplied by Client and should be checked by Contractor

Indicative route of existing watercourse

Proposed Outfall Headwall IL78.771

Klargester Commercial BioDisc® BM Sewage Treatment Plant (or similar approved). 10.420m length, 2.450m width. CL 84.500

Minimum of 10m from occupied dwelling or/and watercourse in accordance with Building Regulations Part H.

Inlet invert depth 600mm - IL 82.90  
Outlet invert depth 1640mm - IL 81.860

Provisions to be made for Klargester Treatment Tank Control Panel with low voltage Beacon (lockable housing kiosk) to take electric & data feeds by others.

All mechanical and electrical elements to be confirmed by M & E consultant/contractor.

Route of 110mmØ Duct for Electric and Data from Control Panel to Treatment Tank to be determined by client and/or contractor (shown indicatively).

Klargester model chosen from British Water's sizing criteria guidelines.

55 caravan units with average of 4P per unit = 220P

60g of BOD (Biochemical Oxygen Design) per day per person. 220 x 44 = 13,200g per day (13.2kg).

All details to be confirmed by manufacturer.

Surface Water Pumping Package with dual submersible pumps.

CL 84.000  
IL 81.830  
Design Head 0.7m

100mm dia. Gravity Pipe Inlet  
60mm MDPE Rising Main Out.  
Length 24m  
To be installed to manufacturers instructions and all materials should be kite marked and laid in accordance Building Regulations Part H.

Position of required Vent Pipe and Air Blower shown indicatively, exact location of vent pipe to be confirmed on site by client and/or contractor.

Outfall for southern proposed drainage to be confirmed