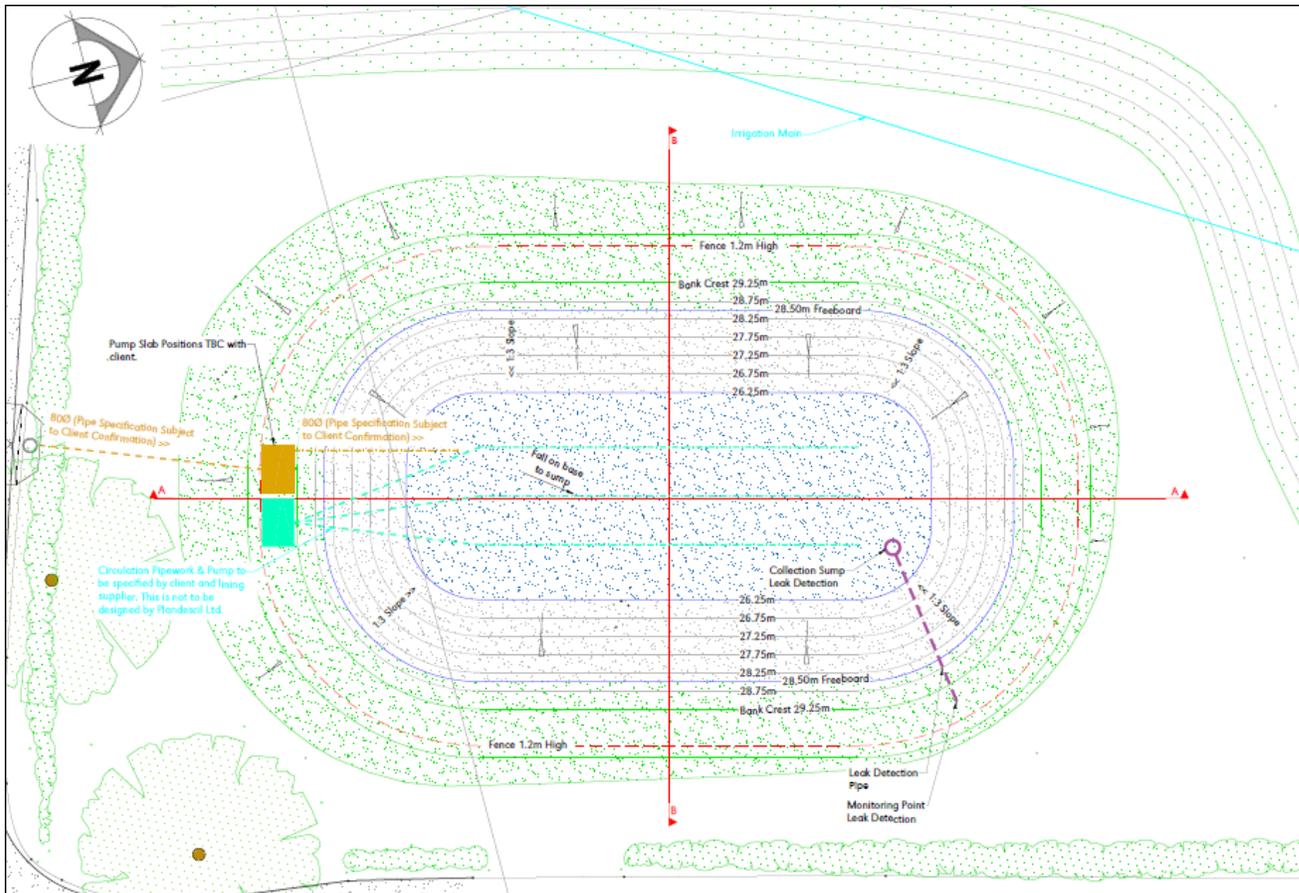


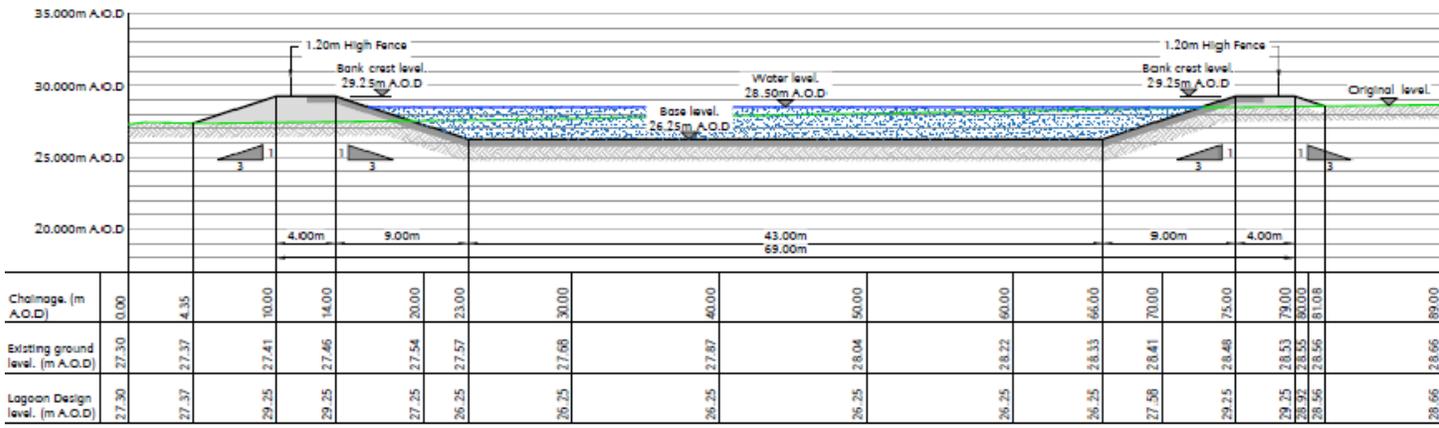


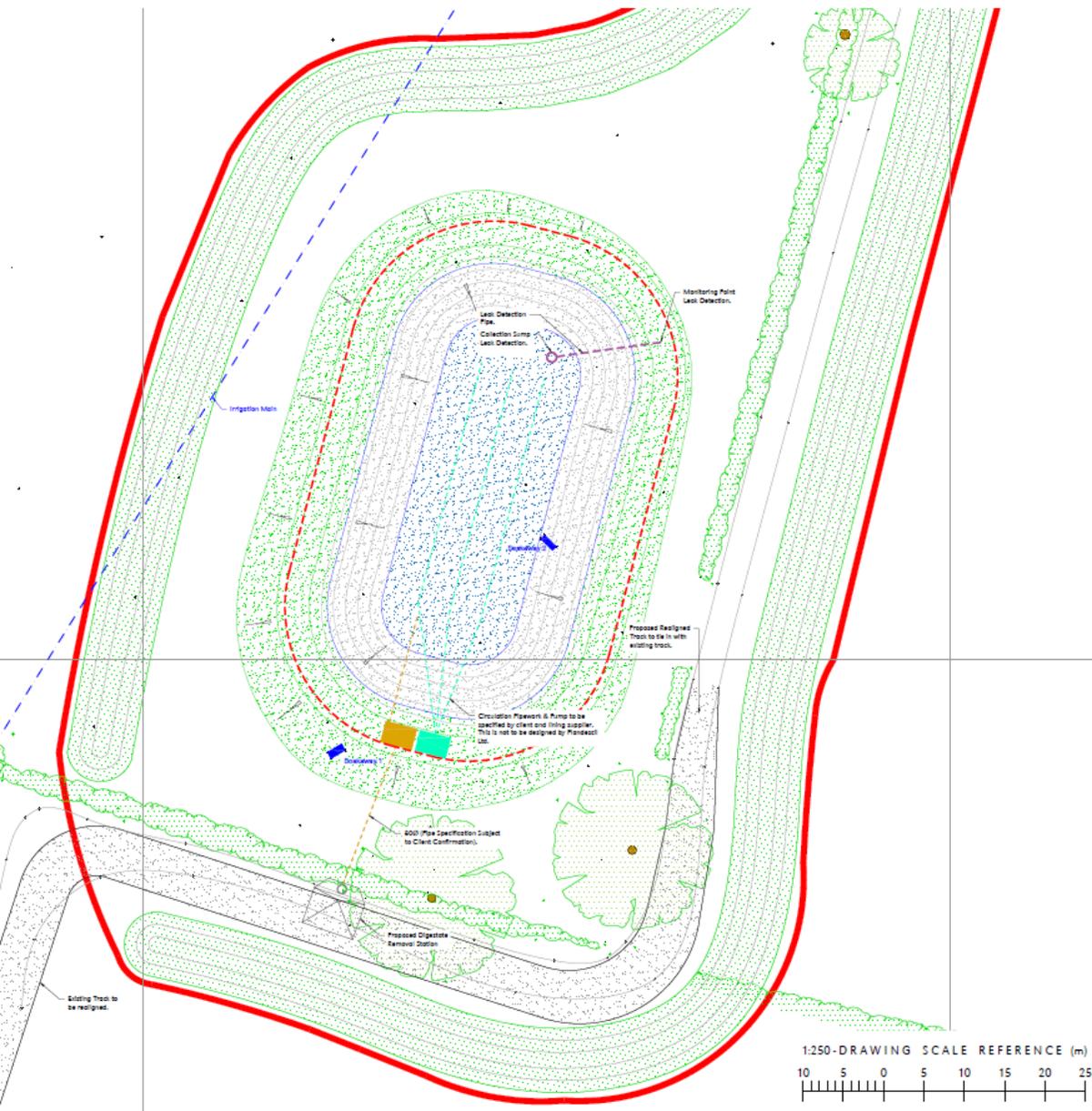
Geoffrey Mayhew Farms Ltd.  
Digestate Lagoon Construction





Extracts from the geo-referenced technical drawings showing the location and design levels.





### Key Facts:

- Designed to store PAS110 anaerobic digestate for use as an alternative to synthetic fertiliser.
- 2,500,000 litre digestate capacity
- 3,800,000 litre capacity (inc. freeboard)
- 2,700 tonnes of soil moved
- 3,300 sq metre footprint

*Prior to construction, environmental management plans and biodiversity enhancement statements were put in place.*



The footprint of the lagoon is marked out using RTK gps to ensure accuracy.

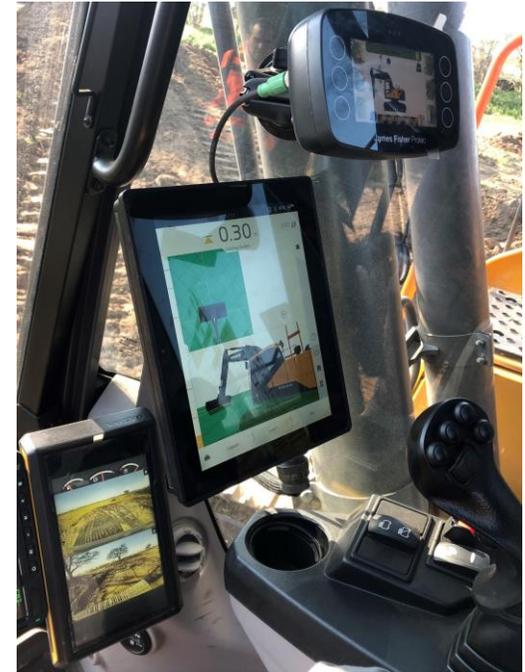




Phase 1 - the topsoil is removed from the lagoon footprint, the topsoil is then stockpiled until later in the project where it will be reinstated on the banks and surrounding area.



Phase 2 – The lagoon is dug out to design level and batters are created, using the gps system on the excavator. Throughout the project elevations and positions are repeatedly checked with gps to ensure total accuracy.





Phase 3 – The shape of the lagoon is formed using the bulldozer and excavator, material is consolidated by a padfoot roller and a 0.1% fall is built into the base for the leak detection sump.





An anchor trench is dug around the perimeter of the top bank ready for the installation of 4 layers of liner, the first liner is a geotextile membrane.



Secondly a layer of 1mm HDPE liner is installed, with all joints being welded.





The 3<sup>rd</sup> layer to go down is Pozidrain Composite, this layer has a connection into the leak detection sump.



The final layer of HDPE liner is installed and welded, the anchor trench securing the liner is then backfilled.



The topsoil is then pushed out from the windrows and landscaped over the banks and surrounding area to offer a seedbed for grass drilling.



To mitigate against the visual impact of the project, we installed over 800 metres of landscaping banks which were planted with over 4000 bare-root hedge plants.

*"I have been delighted with the way Morfoots have handled my project. The Project Manager has been very attentive and proactive with his team and other contractors to ensure the project was on time and finished to a very high standard."*

*Geoff Mayhew - Owner*