



Customer Grocott Developments

Location Burlton, Shrewsbury

Value £450k

Contract JCT Intermediate with
Contractors Design

Project Duration 3 months

Completion March 2020

Project Highlights

Grocott Developments required silage clamps and drainage on an industrial scale and came to Knights Construction for assistance.

The project involved the construction of Pre-Cast concrete wall panels and In-situ concrete bases to create the storage capacity for over 5,000m³ of Silage.

As with all Silage storage projects, drainage design was critical to ensure SSAFO compliance on the project. Knights Construction worked closely with the Environment Agency & Structural Engineers to fulfil the obligations.

Tight timescales and seasonal weather conditions didn't stop the project being completed on time.





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CASE STUDY

Silage Clamps



The Solution

Acting as Principal Contractor Knights Construction embarked on the large scale Silage Clamp project.

The key to the project was to work closely with the Environment Agency and our Structural Engineers to ensure full compliance with SAFFO regulations. This also involved consultation with Tank suppliers to develop a drainage system which also complied.

The resulting design included a drainage system with a 20,000L underground storage tank for the catchment of run off. The effluent was then pumped into a huge 40m Diameter ,5 Megalitre capacity, above ground storage tank.

Knight Constructions earthworks teams cleared the site and prepared the ground ready for the construction works to begin.

During construction, Pre-Cast concrete panels were installed and supported before Knights Concrete Flooring division laid the in-situ concrete slabs to tie the robust structure together.

Following this, the foundations and ground slab for the above ground Storage Tank to sit on was cast in place. This allowed the storage tank to be installed. Connecting the two main elements was a network of drainage pipework, underground collection tanks and a pumping station.



The Outcome

The result, completed in just 12 weeks, despite the far from perfect winter weather conditions, provided storage for an impressive 5,000m³ of Silage for Grocott Developments to utilise. The project included an extensive hardstanding in front of the Silage Clamps to allow easy access and run-off collection.



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