

**AGENCY REQUEST FOR  
A/E SELECTION COMMITTEE ACTION  
January 2017**

**Agency:** Department of Corrections

**DOC Contact:** Corey Flier at (920) 324-2912, [Corey.Flier@wisconsin.gov](mailto:Corey.Flier@wisconsin.gov) and Kristine Anderson at (608) 240-5416, [Kristine.Anderson@wisconsin.gov](mailto:Kristine.Anderson@wisconsin.gov)

**Location:** Fox Lake State Farm #10, Dodge County

**Project Request:** Select an A/E team to provide pre-design, design and construction phase professional services associated with infrastructure and facilities improvements at the Fox Lake State Farm #10.

**Project Number:** 16H2P

**Project Background and Purpose:**

The DOC owns three dairy farms in northern Dodge County near Waupun (Waupun State Farm #1) and Fox Lake (Fox Lake State Farm #2 and Fox Lake State Farm #10). The main purpose of this dairy operation is to produce milk which is used to supply dairy products to DOC institutions in Wisconsin and other institutions operated by the Minnesota Department of Corrections. During certain times of the year, especially summer, the DOC has had trouble meeting milk supply demands. In some cases, DOC has had to purchase milk from other sources to meet demand.

A Master Plan including facilities evaluation and environmental code compliance at the Fox Lake Farm #10 was completed in 2014 by a consultant team including the University of Wisconsin School of Veterinary Medicine and UW-Extension staff. The overall condition of the three DOC dairy farms is poor. The facilities suffer from a lack of sufficient manure storage volume, and inadequate animal housing.

Fox Lake State Farm #10 houses approximately 230 to 300 heifers at various stages of growth. Animals at his facility are managed in four feeding groups according to age / size. Heifers remain at Fox Lake Farm #10 until they are bred. They are transferred to Fox Lake State Farm #2 60 days after the heifers are confirmed pregnant.

Fox Lake State Farm #10 is sited in a small internally drained area. All runoff generated at the facility drains to the southern end of the property where it ponds in Feedlots 1 and 2 and in the channel near the bunker silos. There is evidence of contaminated runoff discharges from all the barnyards, feedlots, and bunker silos at this farm. The feedlots are not vegetated due to the current animal stocking rates. The Master Plan recommendation includes excluding livestock from the feedlots at this farm so the amount of contaminated runoff generated from the feedlots can be reduced and the potential for groundwater contamination continues to be prevented.

### **Project Description:**

This project will address environmental code compliance and animal housing at Fox Lake State Farm #10. The environmental concerns at Fox Lake State Farm #10 include manure management, feedlot runoff and bunker silo runoff and leachate.

Infrastructure improvements to increase cow comfort include replacing Barns 3/4 and Barns 1 and 2 with a new barn located elsewhere on the site. The new barn will include manure management and storage facilities. Animals in Barn 3/4 have a long history of medical conditions likely caused by the wet nature of the barnyard. To maintain optimal living conditions for the heifers housed at this facility, it is recommended that Barn 3/4 be demolished and burned.

In addition to construction of new animal housing, the construction of additional feed storage is recommended. The new feed storage with leachate collection and storage should be located away from the low areas and drainageway.

In summary the work will include the following:

- Demolition and disposal of Barn 3/4
- Demolition and disposal of Barn 1/2
- Design and construction of new animal housing for heifers through breeding
- Design, relocation and construction of Bunker Silos
- Pasture abandonment and restoration of feedlots 1 and 2 and 3/4.
- Manure management and storage facilities

### **AE Requirements**

The A/E will have specific expertise in NRCS design and construction requirements for manure storage and handling facilities and dairy herd housing. A/E will also have experience obtaining DNR and county permits for animal waste facilities. Consultants should indicate specific projects from past experience (including size, cost, and completion date) in their letter of interest and include proposed consulting partners and specialty consultants. Specific services include:

- Site surveys, including locations of existing underground structures and utilities
- Investigation of geotechnical conditions
- Verification of facility size, location and orientation
- Assistance with DNR and Dodge County permitting
- Design new animal housing to meet commercial building code
- Prepare a Design Report and preliminary plans and specifications for the improvements
- Prepare plans, specifications, estimate and documents through construction documents
- Provide construction observation and reports per NRCS requirements in addition to DFD requirements
- Obtain permits as applicable.

This project will be delivered using DFD's standard design, bid, build process.

**Project Schedule**

A/E Selection	January 2017
Design Report	October 2017
Project Approval	December 2017
Bid Opening	April 2018
Construction Start	July 2018
Substantial Completion	July 2019

**Project Budget**

Construction	\$
Design	\$
Contingency	\$
DFD Management	\$
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Total Project Budget	\$2,340,000

**Site Security**

The A/E team and contractor must become familiar with and abide by Fox Lake State Farm procedures for entering and exiting the farm and for bringing any equipment or tools into the location.