

## **REQUEST FOR A/E SERVICES**

### **Primary Electrical System Replacement Lincoln Hills School (LHS) / Copper Lake School (CLS)**

#### **DFD PROJECT NO. 14H2G**

**Agency:** Department of Corrections

**Facility Location:**  
W4380 Copper Lake Rd.  
Irma, WI 54442

#### **Introduction and Background:**

Lincoln Hills School (LHS) is a juvenile correctional facility that opened in the summer of 1970. From 1972 through 1994, both male and female youth were placed in the institution. Since 1994, LHS has only housed male youth. In 2011 Copper Lake School (CLS) was opened at the LHS site for female youth to consolidate the Juvenile Correctional Institutions at one facility.

The goal of this project would be to replace the aging 4160 volt medium voltage electrical distribution system throughout the facility. The electrical distribution infrastructure at the Lincoln Hills/Copper Lake Schools is very old and no longer in reliable operating condition. An upgrade is necessary to improve the overall reliability of the electrical system.

#### **Scope of Services:**

This project would consist of replacement and upgrading the existing 4160 volt electrical distribution system throughout the facility. Work will include repair of the medium voltage underground raceway system, replacement of medium voltage cable, and replacement of obsolete medium voltage switchgear and transformers. Upgrade also includes expansion of the emergency power panels.

After completion of the preliminary design, DOC intends to go to the Building Commission to request approval to construct, and completion of design services. It is requested that the same A/E who does the preliminary design will also complete all design services through construction.

#### **Project Deliverables:**

The State of Wisconsin is looking for an Architect/Engineering firm to provide complete technical consultation and preliminary design at LHS/CLS as follows:

- Provide a Design Report and preliminary design documents following DFD format describing code analysis, budget costs and options for installation of primary medium voltage distribution, including life cycle analysis of options considered.
- Provide a detailed contractor work plan to allow construction of recommendations to be completed with minimal disruption of existing youth and staff daily activity.
- Provide a one-line diagram of existing and proposed primary medium voltage distribution system. The diagram should show all existing and proposed electrical equipment and cabling in the primary distribution system.

- Provide a one-line diagram of the existing emergency power system and the proposed new panelboards.

**Project Timeline:**

In order to plan for timely evaluation of recommendations and planning for subsequent construction activity, the selected A/E will be expected to complete the preliminary design and submit a Design Report within three months of issuance of an executed contract.

**Skills and Knowledge:**

A qualified firm would have an appropriately staffed team with thorough knowledge, understanding, licensing and experience with the following:

- Evaluation and design of campus-style medium voltage electrical distribution systems.
- Evaluation and design of emergency power electrical distribution.
- Standards for design and construction for state-owned correctional buildings.

**PROJECT BUDGET/SCHEDULE:**

Construction	\$	Project Approval	Feb 2015
Design	\$	A/E Selection	Sept 2014
Management	\$	Bid Opening	Sept 2015
Contingency	\$	Start Construction	Oct 2015
<b>TOTAL</b>	<b>\$1,200,000</b>	Substantial Completion	Nov 2016
		Final Completion	Dec 2016

**Agency Contact:**

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