All Agency Project Request

2009 - 2011 Biennium

Agency	Institution	Building No.	Building Name
University of Wisconsin	La Crosse	285-0E-9930	Utility - Site Electrical (above ground)

Project No. 10J1R **Project Title** South Campus Ext Lighting Renv

Project Intent

This project replaces pedestrian walkway exterior lighting and associated underground circuitry throughout the southern portion of campus to improve illumination levels and energy efficiency and to reduce maintenance costs.

Project Description

Project work includes replacing approximately 230 exterior light fixtures and poles in the central and southern campus. The new units will match the acorn style campus fixture standard established as part of the recent Campus Master Plan. New energy efficient fixtures containing 40W induction lamps will replace 100W high-pressure sodium lamped fixtures. All direct buried wiring will be replaced with new wire in underground PVC conduit. Lighting supply conductors and contactors will be replaced in the buildings that provide power for the lighting circuits. Concrete pole bases will be replaced as needed to accommodate the new PVC conduit. New concrete bases will also be installed to provide consistent pole spacing necessary for even illumination along the walkways.

Project Justification

Most of the exterior light fixtures and poles included in this project were installed in the 1970s. These units have 15-foot round aluminum poles that were retrofitted from mushroom style fixture heads to shoe box style fixture heads in the mid 1980s. These fixture heads are reaching the end of their useful life and should be replaced. Since their original installation, many of the walkways have been modified to match pedestrian circulation patterns, but the light fixtures have stayed in the same location and orientation, resulting in uneven illumination along the walkways. The pole spacing needs to be revised to provide adequate illumination.

The fixture heads are lamped with 100W high-pressure sodium lamps. The new fixtures heads will contain energy efficient 40W induction lamps. This will result in an annual energy savings of approximately 63,500 KWH. The new induction light source has a higher color-rendering index and will aid campus security when color identification is required for crime investigation.

The underground wiring serving the lighting system is at least thirty years old. The direct buried wiring has deteriorated due to annual freeze-thaw cycles. This results in annual service interruptions as ground movement and moisture causes sections of the wiring system to fail. Since the wiring is not in conduit, it cannot be easily repaired. Repair is especially difficult when the ground is frozen. This causes large portions of the campus walkways to be without illumination for extended periods of time. This wiring needs to be replaced in conduit to provide a safe environment.

A/E Consultant Requirements

☑ A/E Selection Required?

Consultants should have specific expertise and experience in the design and coordination of the installation of electrical systems in commercial and institutional buildings and the installation of exterior lighting systems. Work includes site surveys, acquiring field data, and verifying as-built conditions to assure accurate development of design and bidding documents and production of necessary design and bidding documents. Consultants should indicate specific projects from past experience (including size, cost, and completion date) in their letter of interest and when known, include proposed consulting partners and specialty consultants.

Commissioning

☑ Level 1

☐ Level 2

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Project Budget		
Construction Cost:		$932,600
Haz Mats:		$0
Construction Total:		$932,600
Contingency:	15%	$139,900
A/E Design Fees:	8%	$74,600
DFD Mgmt Fees:	4%	$42,900
Equipment/Other:		$0
		$1,190,000

Funding Source	Total
GFSB - Utilities Repair & Renovation [Z080]	$702,100
PRSB - []	$0
Agency/Institution Cash [AGF0]	$487,900
Gifts	$0
Grants	$0
Building Trust Funds [BTF]	$0
Other Funding Source	$0
	$1,190,000

Project Schedule

SBC Approval:	11/2010
A/E Selection:	12/2010
Bid Opening:	05/2011
Construction Start:	06/2011
Substantial Completion:	09/2011
Project Close Out:	12/2011

Project Contact

Contact Name:	Matthew N. Lewis, P.E.
Email:	<lewis.matt@uw;ax.edu>
Telephone No.:	(608) 785-8019 x

Project Scope Consideration Checklist

	Y	N
1. Will the building or area impacted by the project be occupied during construction? If yes, explain how the occupants will be accommodated during construction.	☐	☑
All project work will be coordinated through campus physical plant staff to minimize disruptions to daily operations and activities.		
2. Is the project an extension of another authorized project? If so, provide the project #...	☐	☑
3. Are hazardous materials involved? If yes, what materials are involved and how will they be handled?	☐	☑
Hazardous materials abatement is not anticipated on this project. Comprehensive building survey inventory data is not available on Wisconsin's Asbestos & Lead Management System (WALMS) <http://walms.doa.state.wi.us/>.		
4. Will the project impact the utility systems in the building and cause disruptions? If yes, to what extent?	☐	☑
5. Will the project impact on the utility capacities supplying the building? If yes, to what extent?	☐	☑
6. Will the project impact the heating plant or the primary electrical system supplying the campus or institution? If yes, to what extent?	☐	☑
7. Have you identified the WEPA designation of the project...Type I, Type II, or Type III?	☑	☐
Type III.		
8. Is the project affected by historic status?	☐	☑

9. Are there any other issues affecting the cost or status of this project? ☐ ☑

10. Will the construction work be limited to a particular season or window of opportunity? If yes, explain the limitations and provide proposed solution. ☑ ☐

    Project work is seasonal. Preferred project work schedule should be limited to late spring, summer, and/or early fall months if possible.