All Agency Project Request

2011 - 2013 Biennium

Agency	Institution	Building No.	Building Name
University of Wisconsin	Oshkosh	285-0F-9931	Utility - Site Electrical (underground)

Project No. 11F2M

Project Title Osceola St. Ductbank Relocation

Project Intent

This project relocates the campus electrical power ductbank, removing it from the Osceola St. right-of-way, to facilitate the municipal storm sewer line replacement.

Project Description

Project work includes replacing and reconfiguring ~580 LF of ductbank containing electrical power and telecommunications lines. Approximately 400 LF of ductbank consisting of two (2) 4-inch electrical power conduits and four (4) 4-inch signal conduits between pits P17/S17 and P19/S19 and ~180 LF of ductbank consisting of four (4) 5-inch electrical power conduits and six (6) 4-inch signal conduits between pits P19/S19 and P44/S44 will be replaced with ~580 LF of new ductbank consisting of four (4) 5-inch electrical power conduits and six (6) 4-inch signal conduits. The ductbank between pits P16/S16 and P18/S18 will be demolished along with pits P17/S17 and P18/S18.

A horizontal casing will be installed across the Osceola Street right-of-way near the intersection with Pearl Avenue to allow a campus utility street crossing in the future. All electrical power and signal cables will also be relocated or replaced to continue service to the connected facilities. The medium voltage circuit power cables serving the Health and Wellness Center will be replaced. Multiple fiber optic cables of both single (SM) and multimode (MM) types with various fiber strand counts will be relocated. Various multi-pair telephone cables, video coaxial cables, multi-pair 600V control cables and campus automation cables must be relocated. Cable relocations/reconnections will be designed and coordinated to minimize interruption to power and signal services.

Project Justification

The city of Oshkosh is improving city utilities and street surfaces in the Osceola Street right-of-way. The storm sewer is being enlarged from a 3-foot diameter nominal size to 3-foot by 6-foot nominal size to improve storm water system capacity and alleviate flooding in various areas of the city, including the campus. There is not adequate space to locate the new storm sewer line without encroaching on the campus electrical ductbank, so the city has requested that the university relocate the ductbank outside the street right-of-way. UW-Oshkosh, the city of Oshkosh, UW System and Division of State Facilities engineering staffs met to consider various options to avoid relocation of the ductbank by repositioning various city utilities within and outside of the street right-of-way, but no alternative solution was found to be acceptable.

One of the fiber optic cables that must be relocated is part of the statewide telecommunications network that serves campus, city, county, state, and school district entities in that portion of the state. Outages must be coordinated with all affected parties, and the number and duration of interruptions must be held to a minimum.

A/E Consultant Requirements

☑ A/E Selection Required?

Consultants should have specific expertise and experience in the design and coordination of campus medium voltage distribution systems, fiber optic networks and power/signal ductbank infrastructure as part of a design team. 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:		$403,500
Haz Mats:		$0
Construction Total:		$403,500
Contingency:	15%	$60,500
A/E Design Fees:	8%	$32,300
DFD Mgmt Fees:	4%	$18,600
Equipment/Other:		$0
		$514,900

Funding Source	Total
GFSB - Infrastructure [Z450]	$252,300
PRSB - Utilities Repair & Renovation [T570]	$262,600
Agency/Institution Cash []	$0
Gifts	$0
Grants	$0
Building Trust Funds [BTF]	$0
Other Funding Source	$0
	$514,900

Project Schedule

SBC Approval:	08/2011
A/E Selection:	09/2011
Bid Opening:	05/2012
Construction Start:	06/2012
Substantial Completion:	09/2012
Project Close Out:	12/2012

Project Contact

Contact Name:	Chuck Hermes
Email:	<hermes@uwosh.edu>
Telephone No.:	(920) 424-2299 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. Alternate pedestrian pathways will be provided where new ductbank construction interrupts pedestrian walkways.		
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 environmental 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?	☑	☐
All project work will be coordinated through campus physical plant staff to minimize disruptions to daily operations and activities. Electrical power and telecommunication interruptions of varying durations are anticipated.		
5. Will the project impact the heating plant, primary electrical system, or utility capacities supplying the building? If yes, to what extent?	☐	☑

6. Are other projects or work occurring within this project's work area? If yes, provide the project # and/or description of the other work in the project scope. ☑ ☐

   Osceola St. storm sewer replacement, municipal project.

7. Have you identified the WEPA designation of the project...Type I, Type II, or Type III? ☑ ☐

   Type III.

8. Is the facility listed on a historic register (federal or state), or is the facility listed by the Wisconsin Historical Society as a building of potential historic significance? If yes, describe here. ☐ ☑

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.

11. Will the project improve, decrease, or increase the function and costs of facilities operational and maintenance budget and the work load? If yes, to what extent? ☐ ☑

12. Are there known code or health and safety concerns? If yes, identify and indicate if the correction or compliance measure was included in the budget estimate, or indicate plans for correcting the issue(s). ☐ ☑

13. Are there potential energy or water usages reduction grants, rebates, or incentives for which the project may qualify (i.e. Focus on Energy <http://www.focusonenergy.com> or the local utility provider)? If yes, describe here. ☐ ☑

14. If this is an energy project, indicate and describe the simple payback on state funding sources in years and the expected energy reduction here. ☐ ☑