

# All Agency Project Request

2009 - 2011 Biennium

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<b><u>Agency</u></b>	<b><u>Institution</u></b>	<b><u>Building No.</u></b>	<b><u>Building Name</u></b>
University of Wisconsin	Oshkosh	285-0F-9910	Utility - Site Exterior Development
<b><u>Project No.</u></b>	1011X	<b><u>Project Title</u></b>	Campus Storm Water Improvements

## **Project Intent**

This project installs bio-filtration devices to 12 parking lots and in two pedestrian plaza areas in compliance with the UW-Oshkosh Wisconsin Pollutant Discharge Elimination System (WPDES) storm water discharge permit.

## **Project Description**

Project work includes developing bio-filtration/bio-retention areas for parking lots 7, 7A, 10, 11, 12, 18, 23, 25, 27, 29, 30, 32, and 34 and developing bio-retention basins in the pedestrian plazas at the Polk Library main entrance and adjacent to Gruenhagen Conference Center. These areas are connected to and drain into the central storm water system. These surface depressions will collect and treat storm water runoff through the engineered soil and vegetation layers established. Asphalt areas disturbed by the new bio-filtration devices will be patched, seal coated, and re-striped. The entire 1-inch wear surface of parking lots 7 and 7A will be replaced.

## **Project Justification**

In 2007, the Wisconsin Department of Natural Resources (WDNR) issued UW-Oshkosh a Wisconsin Pollutant Discharge Elimination System (WPDES) Storm Water Discharge Permit. One requirement of the permit is for the university to develop and implement a campus-wide storm water management program which includes, but is not limited to, the installation and maintenance of pollutant controls, or 'best management practices' (BMPs) for the reduction of total suspended solids (TSS) and phosphorous discharged from the campus' municipal separate storm sewer systems (MS4) to the receiving waters of the state.

The university was given 24 months from issuance of the permit to achieve 20% TSS reduction, and until March 10, 2013 to achieve 40% TSS reduction in its MS4 discharges. To assess pollutant reduction, the university conducted a water quality analysis using Source Loading and Management Model (SLAMM) software. Based on this analysis, it was determined that the university does not meet the 20% TSS reduction required by September 2009, nor the 40% TSS reduction that will be required on March 10, 2013. The analysis identified bio-filtration/bio-retention as the most practical way to achieve TSS reduction on campus, and completing the proposed work should achieve the 20% TSS reduction. Treating rooftop and pedestrian walkway sediment was determined to not be cost effective, nor would it contribute significantly to campus TSS reduction. Future capital projects will eliminate three parking lots (5A, 14, and 19) and further reduce TSS on campus. The analysis also concluded it was not possible to meet the 40% TSS reduction implementing BMPs within the campus boundary, and that UW-Oshkosh would need to partner and cost share with other regional WPDES permit entities to meet the TSS reduction requirement. Upon completion of all planned capital projects that address storm water management, the campus will update its SLAMM analysis to determine the maximum achievable TSS reduction within the campus boundary.

## **A/E Consultant Requirements**

Consultants should have specific expertise and experience in the design and coordination of storm water management devices and compliance with MS4/WPDES storm water regulations 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.

A/E Selection Required?

## **Commissioning**

- Level 1  
 Level 2

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## Project Budget

Construction Cost:	\$670,800	
Haz Mats:	\$0	
Construction Total:	\$670,800	
Contingency: 15%	\$100,600	
A/E Design Fees: 8%	\$53,700	
DFD Mgmt Fees: 4%	\$30,900	
Equipment/Other:	\$0	
	<b>\$856,000</b>	

## Funding Source

GFSB - Utilities Repair & Renovation [Z080]	\$366,900
PRSB - []	\$0
Agency/Institution Cash [AGF0]	\$489,100
Gifts	\$0
Grants	\$0
Building Trust Funds [BTF]	\$0
Other Funding Source	\$0
	<b>\$856,000</b>

## Project Schedule

SBC Approval: 10/2010  
 A/E Selection: 11/2010  
 Bid Opening: 03/2012  
 Construction Start: 04/2012  
 Substantial Completion: 09/2012  
 Project Close Out: 12/2012

## Project Contact

Contact Name: Steven A. Arndt  
 Email: <arndt@uwosh.edu>  
 Telephone No.: (920) 424-3102 x

## Project Scope Consideration Checklist

- |   | <u>Y</u>                            | <u>N</u>                            |
|---|-------------------------------------|-------------------------------------|
| 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.<br><br>All project work will be coordinated through campus physical plant staff to minimize disruptions to daily operations and activities.   | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 2. Is the project an extension of another authorized project? If so, provide the project #...<br>07A1B  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| 3. Are hazardous materials involved? If yes, what materials are involved and how will they be handled?<br><br>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) < <a href="http://walms.doa.state.wi.us/">http://walms.doa.state.wi.us/</a> >. | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 4. Will the project impact the utility systems in the building and cause disruptions? If yes, to what extent?   | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 5. Will the project impact on the utility capacities supplying the building? If yes, to what extent?  | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 6. Will the project impact the heating plant or the primary electrical system supplying the campus or institution? If yes, to what extent?  | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 7. Have you identified the WEPA designation of the project...Type I, Type II, or Type III?<br>Type III.   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |

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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.