

All Agency Project Request

2013 - 2015 Biennium

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|-------------------------|---------------------------|----------------------------|-----------------------------|
| <u>Agency</u> | <u>Institution</u> | <u>Building No.</u> | <u>Building Name</u> |
| University of Wisconsin | Madison | 285-0A-9923 | Utility - Site Storm Water |

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|---------------------------|-------|-----------------------------|----------------------------|
| <u>Project No.</u> | 16H2U | <u>Project Title</u> | Curtis Pond Rehabilitation |
|---------------------------|-------|-----------------------------|----------------------------|

Project Intent

This project provides investigation and research, pre-design, and design services to rehabilitate the Curtis Storm Water Detention Pond (located in the campus arboretum) to repair a failed flume and failing outlet structure, restore the ability to control peak storm water runoff flow rates, and remove accumulated storm water sediment. Project work will meet the storm water permit WI-S058416-2 requirements and be funded through an intergovernmental agreement between UW-Madison, City of Madison, and Town of Madison. The pond and surrounding drainage area will be evaluated to identify deficiencies, develop design solution alternatives, and recommend appropriate corrective measures.

Project Description

Anticipated project work is based on the recommendations described in the Curtis Prairie Stormwater Plan dated November 2012 and is similar to past rehabilitation projects for Arboretum Ponds 2 and Marion-Dunn Pond. These improvements include dredging the existing pond basin, adding a clay liner to the basin, creating an irregular wetland boundary around the pond, replacing the inner mechanisms of the pond outlet structure, constructing inflow pipes from the south, maintenance on the downstream swale and a best management practice (BMP) upstream of the pond (i.e. south of the Beltline), lining the 36-inch pipe flowing into the adjacent Coyote Pond, and restoring the construction area.

Project Justification

The proposed project is necessary to restore and improve the pond's effectiveness to control peak flow, maximize sediment removal, and repair upstream and downstream erosion damage. The Curtis Detention Pond is a component of the UW-Madison Municipal Separate Storm Sewer System, in fulfillment of WPDES storm water permit requirements. It provides critical peak flow control and sediment removal for storm water coming from the upstream watershed. The 30+ year old pond needs rehabilitation to restore its functionality. Sediment has accumulated in the bottom of the pond to such an extent that it has decreased the pond's capacity to adequately contain storm flow and to remove sediment and nutrients and fails to meet the regulatory goals. This reduced capacity also causes Curtis Pond to overflow frequently which has created erosional trenches across the downstream UW-Arboretum Curtis Prairie causing ponding of runoff in the prairie and facilitating the spread of invasive species. Rehabilitating the storm pipe leading to the adjacent Coyote Pond is required to prevent failure due to corrosion of the corrugated metal pipe.

A/E Consultant Requirements

A/E Selection Required?

Consultants should have specific expertise and experience in the design and coordination of large scale storm water management practices, construction, preservation, and restoration in environmentally sensitive areas, storm sewer system rehab, dredging operations and associated regulatory compliance 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.

The consultant will verify project scope, schedule, and budget estimates, and recommend modifications as required to complete the specified project intent. The consultant will prepare a pre-design document to establish an appropriate project scope, budget, and schedule prior to the university seeking authority to construct from the Board of Regents and State Building Commission.

Commissioning

- Level 1
- Level 2

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| <u>Project Budget</u> | <u>Funding Source(s)</u> | <u>Total</u> |
|-----------------------|---|-----------------|
| Construction Cost: | GFSB - Utilities Repair & Renovation [Z080] | \$0 |
| Haz Mats: | PRSB - [] | \$0 |
| Construction Total: | Agency/Institution Cash [AGFO] | \$34,000 |
| Contingency: 15% | Gifts | \$0 |
| A/E Design Fees: 8% | Grants | \$0 |
| DFD Mgmt Fees: 4% | Building Trust Funds [BTF] | \$0 |
| Other: | Other Funding Source | \$0 |
| \$1,124,000 | | \$34,000 |

Project Schedule

SBC Approval: 04/2017
 A/E Selection: 10/2016
 Bid Opening: 06/2017
 Construction Start: 07/2017
 Substantial Completion: 11/2017
 Project Close Out: 06/2018

Project Contact

Contact Name: Matt Collins
 Email: <mcollins@fpm.wisc.edu>
 Telephone: (608)263-3031x

Project Scope Consideration Checklist

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

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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?
Project will improve the function of the existing facility and decrease the amount of work needed to repair eroded areas.
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.