

All Agency Project Request

2013 - 2015 Biennium

<u>Agency</u>	<u>Institution</u>	<u>Building No.</u>	<u>Building Name</u>
University of Wisconsin	Green Bay	285-0D-9950	Multi-Building
<u>Project No.</u>	14C2G	<u>Project Title</u>	Campus Ext Safety Rails/Plaza/Stairs Renv

Project Intent

This project provides investigation and research, pre-design, and design services to replace the exterior safety railings and redevelop select exterior pedestrian plazas and exterior stairs at recessed building ingress/egress points. The exterior safety railings, plazas, and stairs will be evaluated to identify deficiencies, develop design solution alternatives, and recommend appropriate corrective measures. The design consultant will provide project scope and budget estimate scenarios for logical and incremental implementation of all work. Due to the advanced deterioration of the safety railings and concrete mounting walls, the consultant will also evaluate and recommend remedial and emergency safety measures to prevent personal injury or property damage until permanent repairs can be completed.

Project Description

Project work includes demolition, disposal, and replacement of approximately 3,000 LF of steel safety railings mounted in poured concrete walls located in six pedestrian plaza and deck overlook areas. The concrete mounting walls will be saw cut to remove all failed material, reduced in height to provide increased visual access but remain high enough to provide a suitable mounting base for the replacement railings and protection from snow removal equipment, capped, and prepared to receive new metal safety railings. All concrete mounting walls will be assessed for structural stability and completely replaced if necessary. The new steel safety railings will be chosen to meet current ADA and OSHA standards and will be mounted and treated in a manner to maximize protection from the elements and de-icing agents and minimize operational maintenance expense.

Project work also includes demolition, disposal, and replacement of 8-foot wide exterior stairs of 25 to 29 risers each with associated handrails and Approx. 8,500 SF of adjacent concrete plazas, asphalt walkways, planters, site lighting, and landscaping at five recessed building ingress/egress locations (Environmental Sciences, Institutional Services, Laboratory Sciences, Rose Hall, Wood Hall). Approximately 170 LF of metal handrails on a pedestrian ramp will also be replaced. Underground storm water infrastructure will be augmented and replaced as necessary to improve drainage in the project locations.

Overgrown vegetation on the sloped terrain will be removed, and new paved areas will provide a positive pitch to new storm water drains. New concrete stairs and steel handrails will be provided with landings at mid-slope. Vegetation will be replaced with selections more appropriate in size. The new plaza pavements will be a combination of poured concrete with brick pavers.

Project Justification

The original steel safety rails were cast-in-place with the concrete mounting walls surrounding the pedestrian plazas and deck overlooks. Some of the walls were sandblasted to expose coarse aggregate for an aesthetic effect. After more than 40 years of being exposed to the elements and freeze-thaw cycles, this type of installation coupled with expansion and contraction of the wall and rails, has caused severe spalling of the concrete support structure. Virtually every anchor post is rusting and deteriorating. The walls have cracked and produced large chunks of loose concrete in some locations, which could fall and cause personal injury or property damage.

The original concrete stairways constructed in 1968 have slipped downward on the slopes causing uneven riser heights and awkward navigation. Handrails have rusted and deteriorated to the point of being loose and dangerous. Uneven asphalt paving prohibits drainage to existing storm drains. The outdoor areas have overgrown landscaping, shading some areas to the point of substantial moss growth. The poor drainage poses a flooding risk to adjacent buildings and the difficult access and uninviting nature of these exterior spaces has destroyed their functionality and original intent to serve as gathering areas.

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A/E Consultant Requirements

A/E Selection Required?

Consultants should have specific expertise and experience in the civil engineering design and coordination of pedestrian plazas and landscaping in an institutional setting, structural evaluation, and storm water management 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

Project Budget

Construction Cost:	\$
Haz Mats:	\$
Construction Total:	
Contingency: 15%	\$
A/E Design Fees: 8%	\$
DFD Mgmt Fees: 4%	\$
Equipment/Other:	\$0
	\$1,046,300

Funding Source(s)

GFSB - Utilities Repair & Renovation [Z080]	\$0
PRSB - Utilities Repair & Renovation [T570]	\$0
Agency/Institution Cash [AGF0]	\$65,600
Gifts	\$0
Grants	\$0
Building Trust Funds [BTF]	\$0
Other Funding Source	\$0
	\$65,600

Project Schedule

SBC Approval: 12/2014
A/E Selection: 05/2014
Bid Opening: 03/2015
Construction Start: 05/2015
Substantial Completion: 09/2015
Project Close Out: 12/2015

Project Contact

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Telephone: (920) 465-2202 x

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. Comprehensive environmental survey inventory data is not available on Wisconsin's Asbestos & Lead Management System (WALMS)

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<<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 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.
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?
Completion of this project will decrease operational maintenance costs.
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).
The safety railings and concrete mounting walls are in an advanced state of deterioration and have the potential to cause personal injury or property damage.
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.



LENGTH OF SAFETY RAIL BY LOCATION

- B= 180'
- C= 202'
- D= 171'
- E= 161'
- F= 170'
- G= 384'
- H= 277'
- I= 275'
- J= 159'
- K= 159'
- L= 136'
- M= 544'

TOTAL=2,998'

D STAIRWAY & p
REPLA LAZA
IN GRE MENT AREAS

PARTIAL CAM
NOT TO SCAL:us SITE PLAN

