MILWAUKEE GREEN INFRASTRUCTURE OVERPASS CHALLENGE

What’s your innovative stormwater management solution?

REGISTER BY SEPTEMBER 25th

WIN $5,000

Sponsored by The Tellier Foundation
Problem Statement

• Changing weather patterns have resulted in a shorter duration, higher intensity storms.
• The Midwest is experiencing the wettest period on record, and Milwaukee data shows the four highest annual rainfall amounts ever recorded occurred in the last twenty years.
• Paved landscapes in our urban area result in increased stormwater runoff.
• In the Milwaukee region, this translates into more unanticipated water entering the Milwaukee Metropolitan Sewerage District’s system, increasing the risk of basement back-up’s and overflows in our rivers and Lake Michigan.
Challenge: Identify new, innovative approaches to retain and treat runoff from interstate overpasses.

- Submittals must include:
  - Two or three alternatives described in a memo.
  - One recommended plan including:
    - Conceptual design drawing or visual.
    - Preliminary estimate of construction cost.
    - Construction schedule.
    - Description of constructability issues.
    - Long-term maintenance plan memo.
Team

Open to any project team with an interest in innovated stormwater management and green infrastructure.

• Encouraged focus areas:
  • Water Resources
  • Land Use Planning
  • Ecology
  • Transportation
Award

• First Place - $5,000
• Second Place - $3,000
• Third Place - $2,000

Award selection will be based equally on innovation, sustainability, and quality of the submittal.
Timeline

• **September 25, 2020 – Registration and Question Deadline**
  • Register and submit questions to `contactus@freshcoastguardians.com`.
  • Registration should include a main contact person and a description of team members.
  • No questions will be received after the registration deadline.

• **November 20, 2020 – Final Submittal Deadline**
  • Submit by email: `contactus@freshcoastguardians.com`
  • Submittals should be PDF format no larger than 35 MB.

• **January 2021 – Award Selection**
  • Awardees will be notified by email and phone.
OVERPASS GREEN INFRASTRUCTURE EXAMPLES
Infra-Space 1 under I-93 - Boston

- Stone Dissipation Basins
- Underground Storage
- Stormwater Trees
- Salt-Tolerant Plant Species

Photos: Landing Studio
The Bentway under Gardiner Expressway - Toronto

- Bioswales
- Underground Storage
- Infiltration Trenches
- Native Landscaping
- Salt-Tolerant Plant Species

Photo: Nic Lehoux/The Bentway Conservancy
Aurora Bridge - Seattle

- Cascading Rain Gardens
- Underground Storage
- Curb Cuts to Capture Alley Runoff

Photo: Hannah Letinich/TNC
Marquette Interchange Concept - Milwaukee

- Bioretention Basins
- Permeable Pavers
- Rock-Lined Channels
- Permeable Maintenance Path
- Native Landscaping

Graphic: Human Nature Inc.
Marquette Interchange Concept - Milwaukee

Graphic: Human Nature Inc.