# Stormwater Quality Projects

Where Do We Start, & How Do We Pay For It?

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# Our Purpose

Communities need trusted partners to safeguard today and build a stronger tomorrow — it's why we exist.

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# The Holistic Approach

Hydrologic & Hydraulic Engineering

Civil & Roadway Design

Geographic Information Systems

Planning & Grant Administration

Land Acquisition & Right-of-Way Services

Land Survey & LiDAR Scanning

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# Stormwater Management

## Why Is It Important?

Flood Control
+
Sewer Overflow
+
Pollution Control
+
Aging Infrastructure/Decrease of Natural Cover
=
Innovative Solutions

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# But, It's So Expensive!!

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# Grant Funding – Where Do I Start?

## Step #1 ~ Planning

- Master Drainage Plans
- Stormwater Management Plans
- Hazard Mitigation Plans

~ Identify and prioritize projects that will bring the most benefit to your community

~ Generally funded with the Hazard Mitigation Grant Program, Building Resilient Infrastructure and Communities, and Flood Mitigation Assistance Grants

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# Grant Funding – Where Do I Start?

## Step #2 ~ Scoping/Design Projects

- Determine Benefit-Cost Analysis
- Prioritize Pre-Identified Projects
- Conduct H&H Studies
- Engineering work for plans

~ The ideal next step!  Get your project shelf ready for available funding, show granting agencies you are committed to the project, can make obtaining grant funds for construction easier (Phased project)

~ Can Generally be funded with the Hazard Mitigation Grant Program, Building Resilient Infrastructure and Communities, and Flood Mitigation Assistance Grants

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# Grant Funding – Where Do I Start?

## Step #3 - Construction

Once your project has proven cost-effective and beneficial for your community, and the engineering/design work (Phase I) has been completed, there are a multitude of funding streams to explore for stormwater management.

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# Funding Opportunities for Stormwater Management & Nature Based Solutions

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# HMGP
## Hazard Mitigation Grant Program

- Developing or updating a FEMA approved mitigation plan to help state, local, tribal, and territorial governments identify risks and plan for ways to reduce vulnerabilities from current and future hazards.
- Planning-related activities related to the update of FEMA-approved Hazard Mitigation Plans, integrating risk assessment or mitigation strategy information from mitigation plans, building capacity through technical assistance, and evaluating the adoption of risk reduction ordinances.
- Retrofitting existing buildings to make them less susceptible to damage from a variety of natural hazards.
- Purchasing hazard prone property to remove people and structures from harm's way.
- Utility and infrastructure retrofits to reduce risk of failure caused by natural hazards.
- Drainage improvement projects to reduce potential for flood damage.
- Slope stabilization projects to reduce risk to people and structures
- Developing and adopting hazard mitigation plans, which are required for state, local, tribal and territorial governments to receive funding for their hazard mitigation projects.
- Using aquifer storage and recovery, floodplain and stream restoration, flood diversion and storage, or green infrastructure methods to reduce the impacts of flood and drought.

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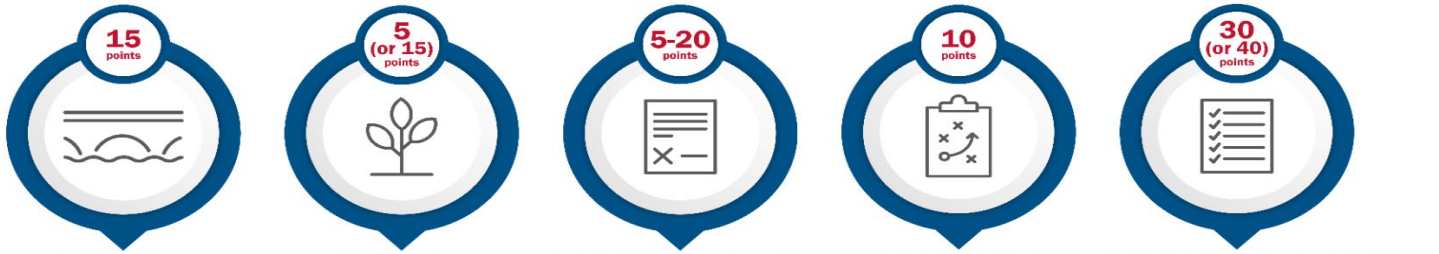
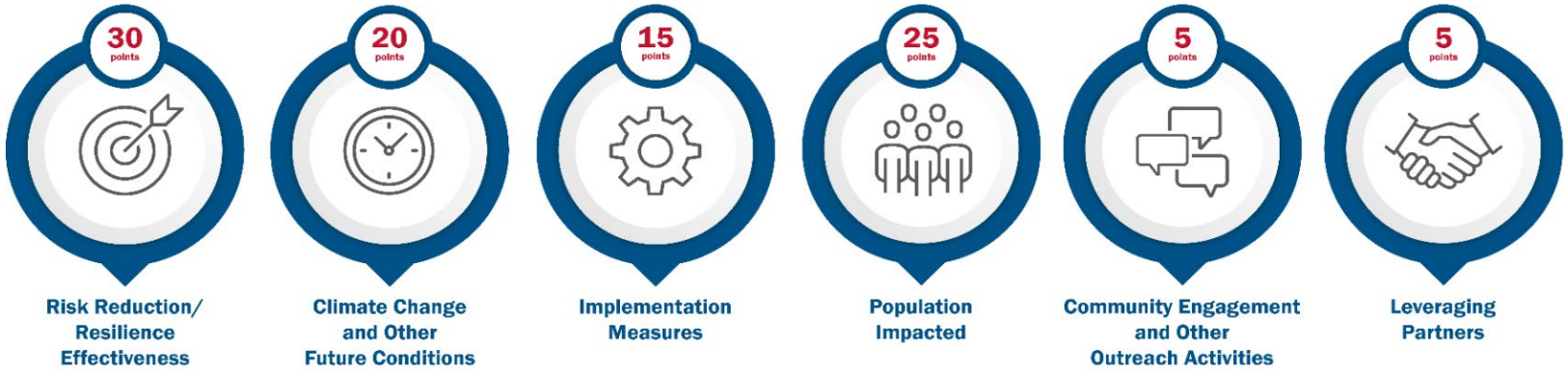
# BRIC

## Building Resilient Infrastructure in Communities




Technical Evaluation Criteria
(100 Points Max)




Qualitative Evaluation Criteria
(100 Points Max)

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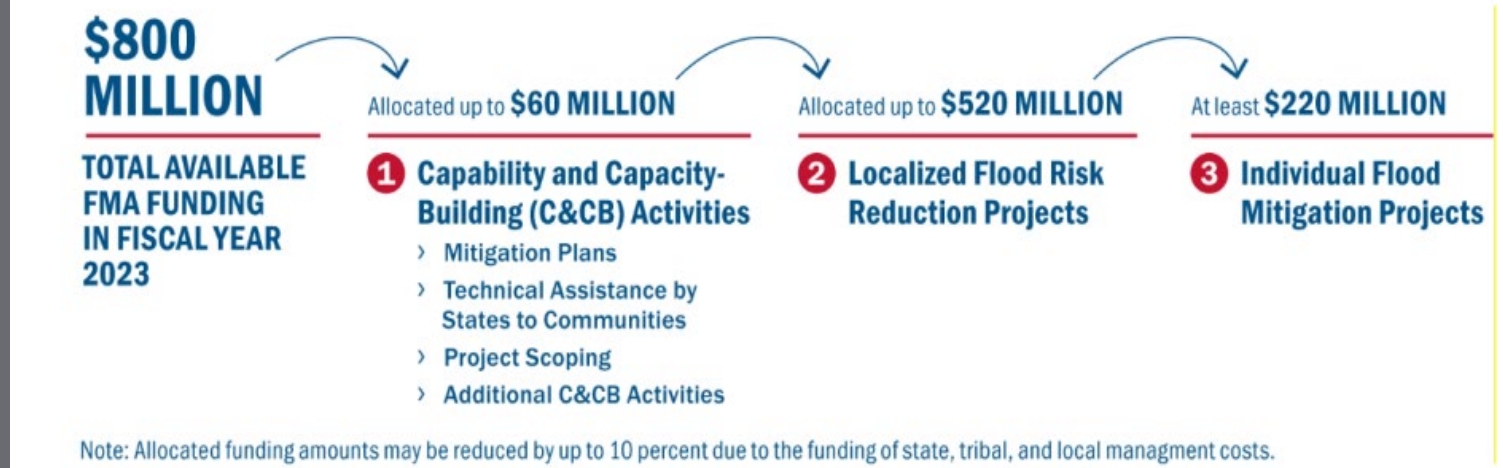
# FMA

## Flood Mitigation Assistance

## FY 2023 Funding Priorities:

Capacity and Capability Building (C&CB) Activities, Localized Flood Risk Reduction Projects, and Individual Flood Mitigation Projects.

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# Environmental Protection Agency
## Sewer Overflow and Stormwater Reuse Municipal Grant Program

~ Born out of America's Water Infrastructure Act (AWIA) of 2018

~ Strong Focus on Rural and financially distressed communities

~ Funds to reduce water pollution by helping communities with the cost of infrastructure to correct:

- Sewer overflows
- Sanitary sewer overflows
- Stormwater flows

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# Environmental Protection Agency

## Community Change Grant

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# Nature Based Solutions Management Strategies

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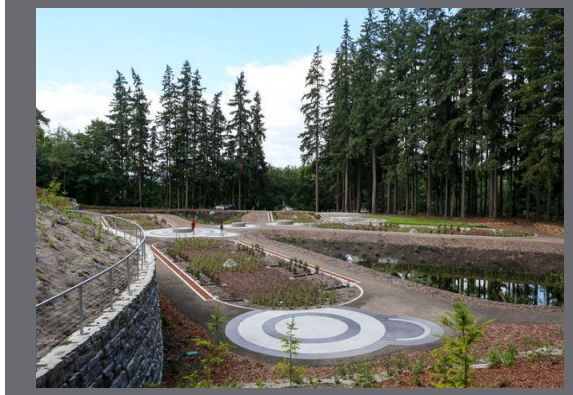
# Nature Based Solutions

Use nature to increase community resilience

- Stormwater Parks
- Earthen Levees
- Land Conservation (Acquisition) & managed open space
- Bike Trails
- Green Streets (Green Infrastructure)
- Permeable Pavement
- Tree Canopy
- Tree Trenches



# Low Impact Development

Stormwater as a resource – not a liability

- Infiltration trenches
- Roadside Swales
- Bioretention
- Detention ponds

LID solutions provide great benefits

- Wildlife Habitat
- Cleaner Water
- Enhanced Aesthetics
- Watershed Flood Protection

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# Funding Support

## The National Stormwater Policy Forum

Thanks to the National Stormwater Policy Forum, FY24 is seeing substantial provisions for stormwater management.

However, the Whitehouse's priorities remain – equality among disadvantaged populations and climate change.

What this means for you – projects that address/include these priorities are more likely to get funded than those that don't

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# Grant Commonalities

| All Grant Opportunities Share Requirements for Maximum Credit | |
|---|---|
| Participation in a Current Hazard Mitigation Plan | Project Identified in Hazard Mitigation Plan |
| Match Funds (Amount Varies) | Inclusion of Nature Based Solution(s), and/or Climate Change Initiatives |
| Inclusion & Representation of Disadvantaged/Underserved Populations | Planning Partnerships |

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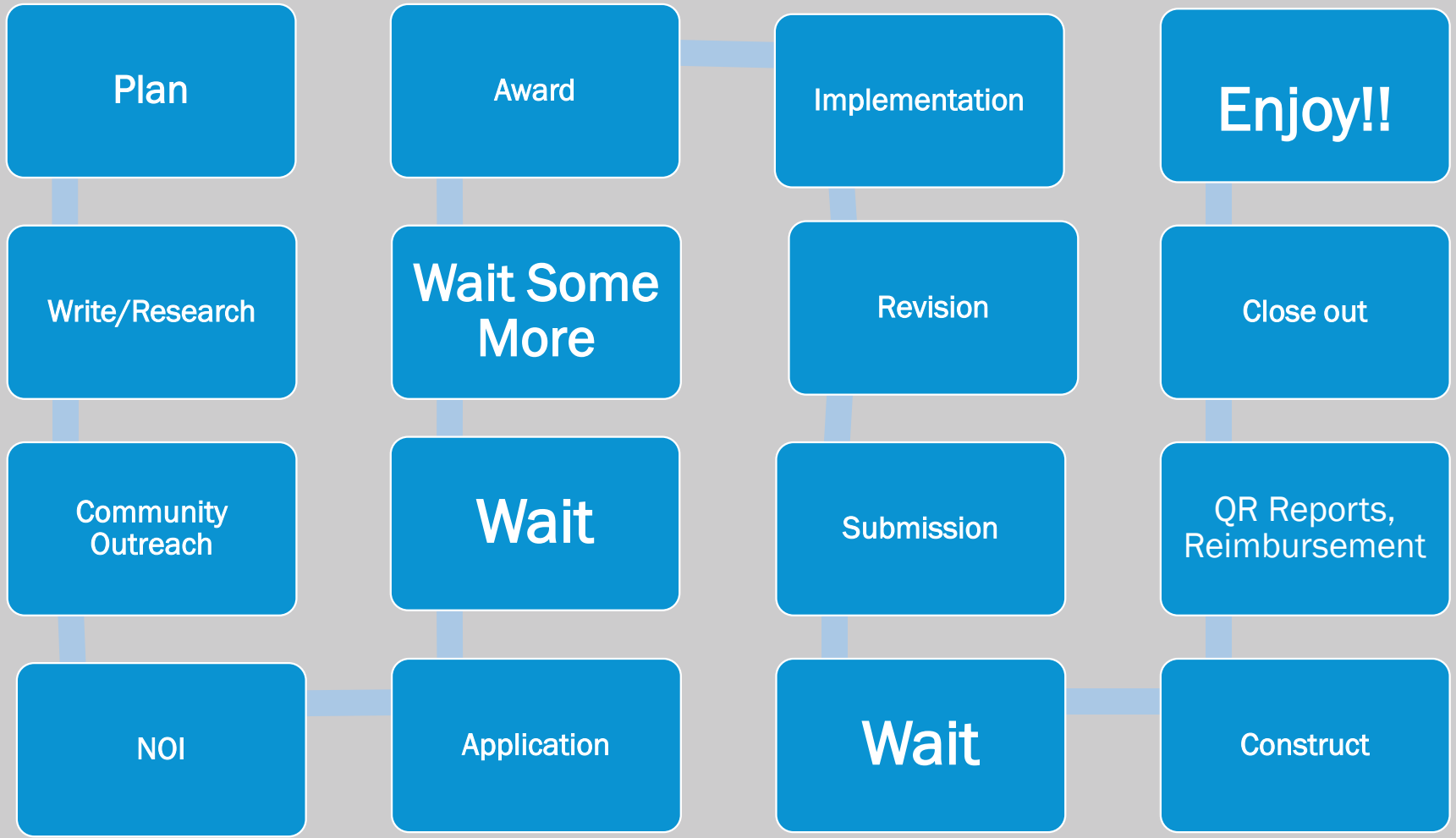
# The Changing Cycle of Funding

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# Cost Shares

## Know the Rules

- Cannot Match Federal funds with Federal Funds
- Follow CFR200 Subpart E Guidelines
- Must be verifiable from the organization's records
- Reflected in an approved budget
- Can't count cost share funds for more than one project
- If in doubt, ask an expert!

## Get Creative

- Partner with another entity and share the match burden
- Look for Public-Private partnership opportunities
- In-kind contributions might count
- Justice40 initiative – inclusion of underserved/disadvantaged populations could decrease the local match %

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# Community Planning Benefits

- Bringing community partners to the planning table can help identify problems/projects you may have overlooked.
- Will ensure underserved populations are represented – let them tell you what their needs are and suggest solutions.
- Utilize the strengths your community partners have to offer

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# Our Future

"There is no magic bullet to deal with the risk we have inherited. But we CAN prevent passing similar risks to our future generations."

~ Doug Bellomo (AECOM)

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# Questions?

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# Thank You

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