The State of West Virginia Community Development Block Grant Mitigation (CDBG-MIT) Training

west virginia

CAD

Virtual Training Norms

Today's webinar will be recorded and posted for future reference.

- All participants will be muted by default.
- We encourage participation in the following ways:
  - Use the "Questions" function to ask questions. This will allow WV CAD to have a written record of all questions.
  - Use "raise hand" button and WV CAD will unmute one participant at a time.
- Following the meeting, any questions or comments can be emailed to CDBGmitigation@wv.gov
- **Register!** Presentation slides will be emailed to participants who registered for the hearing.
  - Joined the webinar with a group? If you're sharing a computer or logging in with a group, we only have 1 person's contact info. Please provide us with the names and emails of others so they can continue to receive updates.

CDBG-MIT Team

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Introduction

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Innovative MIT Project Examples

Mitigation vs. Disaster Recovery

- Direct tie-back not required
- Must meet definition of mitigation
- Standard projects vs. Innovative projects
- Project Assessment filter (threshold, lifelines, special considerations, capacity)

Natural Fish Passages – Arlington, VT and Salsipuedes, CA

Project Overview

- Reconstructed culverts or channels use rocks, sand and/or boulders to simulate stream conditions
- Natural materials are more durable and structurally sound, reducing maintenance
- Beneficial impact on endangered species by promoting safe fish passage
- Can use native plants to create aesthetically appealing and eco-friendly surroundings
- Design for Fish Passage at Roadway-Stream Crossings: Synthesis Report (dot.gov)
- Designing Passage for Humans Above and Fish Below | Client Story | ICF

Standard Culvert Design

- Concrete or corrugated metal subject to failure
- Does not promote safe fish passage
- Constricts stream flow, increasing risk of obstruction and further flooding
- Lack of aesthetic appeal

Northwest Resiliency Park – Hoboken, NJ

Project Overview

- Former industrial site to become a park that will provide amenities to residents while reducing localized flooding
- Designed with integrated green infrastructure to manage approximately 1 million gallons of stormwater runoff
- The project will filter and store stormwater, recycle runoff for use as irrigation and toilet flushing, and reduce combined sewer overflows to the Hudson River
- Amenities will include discovery gardens, play valley, athletic field, basketball basin, water feature/ice rink and more
- Northwest Resiliency Park (arcgis.com)

Stormwater Project – Big Fork, MT

Project Overview

- Roofs and parking lots of Big Fork schools were contributing to flooding on Grand Drive
- Underground Stormtech detention and filtration system were installed on the Elementary playground to capture runoff
- Five new drywells were installed in the school parking areas
- These two systems combined have reduced reduced stormwater entering the conveyance system to Bigfork Bay by as much as 85%
- Popout_Hanson.pdf (flatheadwatershed.org)

Home Access Program – Colorado Springs, CO

Project Overview

- Repairs or reconstructs private roads, bridges and culverts for homeowners and renters
- Ensures occupants can access their homes and evacuation routes
- Grants and forgivable loans funded with CDBG-DR
- Qualified under LMH (Low-Mod Housing) National Objective
- https://cdola.colorado.gov/disaster-recovery-home-access

Hospital Flood Mitigation – Binghamton, NY

Project Overview

- In 2006 the Susquehanna River overflowed its banks, causing flood waters to inundate Our Lady of Lourdes Hospital in Binghamton. The entire first floor at ground level was submerged under 16 to 20 inches of flood water contaminated with raw sewage. The hospital was shut down and all patients were evacuated for several days.
- Proposed mitigation measures included a solid concrete flood wall that would be located at the west, south, and east sides of the facility, and would be equipped with automatically activated flood gates and pumping system that would engage, should floodwaters enter the facility.
- FEMA Funding For Binghamton Hospital After Flood Damage » Tidal Basin (tidalbasingroup.com)

Police and Fire Station Flood Mitigation – Peabody, MS

Project Overview

- During the "Mother's Day Flood" of 2006, water levels rose in the basements of both the police and fire stations in Peabody, MA.
- All critical systems were housed in the basements – Emergency Management Director stated, "We were within 3 inches of losing our 911 system."
- Mitigation measures included upgrading and redirecting 911 system, purchasing a new generator and pumps, construct an elevated exterior room and relocate all equipment to the new room.
- Several Small Steps Lead to Safety | FEMA.gov

Roberto Clemente Stadium – Carolina, PR

Project Overview

- Sports facility that also serves as a meeting center was impacted by Hurricanes Irma and Maria
- Mitigation measures included adding a surge protector to protect electrical equipment, replacing acoustical drop ceiling tiles with a water and mold resistant ones, replacing fiberglass poles with aluminum poles and substituting gypsum board with water resistant dry wall
- FEMA Obligates $9.5 Million to Repair the Roberto Clemente Municipal Sports Complex | FEMA.gov

Questions?

Thank You!