Thinking Outside the Box: Innovative Approaches to Water Resource Grants





Thinking Outside the Box: Innovative Approaches to Water Resource Grants

Alan R. Black, P.E.

Objectives



Managing Expectations



Understanding Partnership Strategies



Funding Programs





Who are y'all working with?



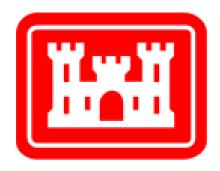


U.S. Economic Development Administration

A bureau of the U.S. Department of Commerce







US Army Corps of Engineers_®



Guiding Principles

There is no such thing as free money

Federal funding WILL slow your project down

You have to spend money to make money



Managing Expectations

- Be patient most partnerships take MULTIPLE YEARS
- Environmental compliance (NEPA) is a big deal, especially to the Feds
- All federal agencies have "a process"
- Grants vs Loans
 - Everybody wants a grant
 - Loans are easier to get
- Annual Funding cycles vs one-time appropriations
 - Be prepared for BOTH



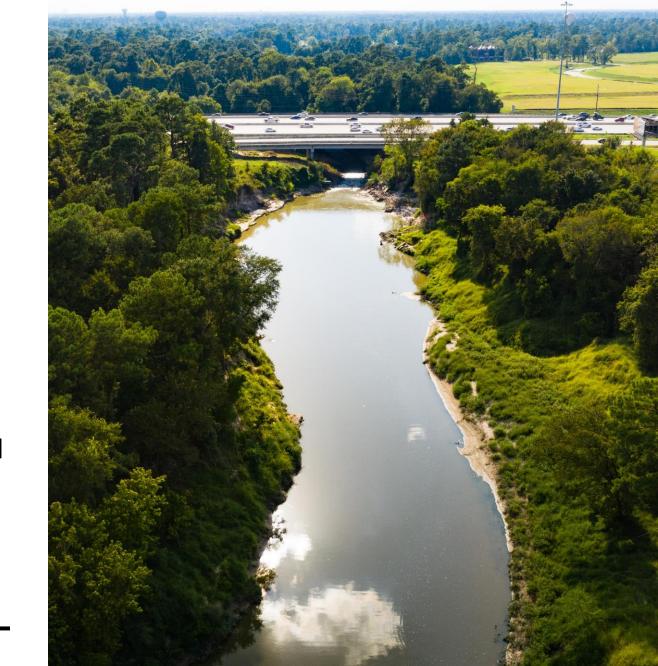


- Many programs encourage collaboration
- Shared and/or complimentary interests
- Adjacent jurisdictions
- Multidisciplinary
- Consider local partnerships to supplement a grant (or in lieu of)



Think Near and Long Term

- Phase the project
- Different Criteria (Local, State, Federal)
 - Low to Moderate Income (LMI) and Social Vulnerability Index (SVI)
 - Benefit Cost Ratio (BCR)
- ROW Acquisition
 - Voluntary Buyouts
 - Project specific Acquisition
 - Apply for grants after ROW is acquired
- Incorporate into CIP/Budget
 - Use local dollars wisely





Putting it all together

- Establish your goal, then map it out
- Identify quick wins that show progress and help now
- Use local funds smartly
 - Initiate feasibility studies in advance
 - Start components that cannot wait for grant funding
 - Be prepared for the local match requirement
 - Plan and budget 3-5 years out
- ENGAGE WITH YOUR PARTNERS!
- Federal funds move SLOW!



Funding Flood Risk Mitigation and Repairs

Pilot Program

Texas Water Development Board

State-Level Grantees

Texas Water Development Board



















Includes Local Match for **Federally Funded Projects**

Flood Infrastructure Fund (FIF)

Clean Water State Revolving Fund (CWSRF)

Emergency Watershed Protection Program

Watershed & Flood **Prevention Operations**



Section 406 Varies by Project*

Building Resilient Infrastructure and Communities (BRIC)

Hazard Mitigation Grant Program

Flood Mitigation **Assistance Program**

Community Development Block Grants (DR and MIT) 0% Local Match

With Federal Nexus to the Clean Water Act (CWA)



Capital **Improvement** Program

Repairs

New Structural Projects/CIP

Home Buyout Program



Note: Community Project Funding requests (earmarks) by Congressional Members each FY is not shown. For more information see: https://quiddity.com/the-return-of-earmarks-in-the-federal-budget-allows-congress-to-direct-funding-to-specific-projects/ • "HMA" is an umbrella for multiple funding opportunities

- Annual Funding Opportunities NOFO each fall
 - Flood Mitigation Assistance (FMA)
 - Building Resilient Infrastructure in Communities (BRIC)





- One-Time Funding Opportunities NOFO tied to a disaster
 - Hazard Mitigation Grant Program (HMGP)



Project Phasing

Objective: Reduce Flooding through Channel Conveyance Improvements



- Channel Improvements = \$10M
- Mitigation for Channel = \$20M
- Raise Bridge = \$10M



- Total Cost = \$40M
- Benefit Cost Ratio = 0.65



EPA – STAG/Clean Water State Revolving Fund (CWSRF)



- Annual Program Managed by the State Texas Water Development Board (TWDB)
 - Emphasis on Loans vs Grants
 - Must be in the Intended Use Plan (due ~ March 1 each year)
- Earmarks through EPA are managed directly by EPA (excludes TWDB)
 - 80/20 Split
- Strategy: Sell a Flood Control Project as Water Quality!







SWDB with Water quality





Project Phasing

Objective: Reduce Flooding through Channel Conveyance Improvements



- Phase 3: Channel Improvements = \$10M
 - Benefit Cost Ratio = 1.75
 - FEMA FMA Grant





EWP and WFPO

- Emergency Watershed Protection (EWP)
 - Assistance making repairs after a disaster
 - Remove debris, reshape and protect eroded streambanks, repair damages, repair levees, purchase EWP buyouts/floodplain restoration
- Watershed and Flood Preventions Operations (WFPO)
 - Emphasizes Agriculture and Rural Benefits (≥ 20% of benefits)
 - Request assistance to develop a Preliminary Feasibilty Study (PIFR)
 - Watershed plan is approved and authorized
 - Sponsor applies for funding through annual congressional appropriations



Community Development Block Grants CDBG DR / MIT





- Benefits Low to Moderate Income (LMI) areas
 - May require an Income Survey
- Multiple levels of oversight
 - Often through Council's of Government
- Compliance is essential
 - Documentation
 - Section 3
 - NEPA
- Get HELP!



Arbor Oaks Stormwater Detention Basin



Sources of Funding Arbor Oaks Stormwater Detention Basin

| | | | Funding Partner | Funding Amount * | | |
|--|-------------------------------------|-------------------|-------------------|---------------------|--|---|
| | SIFLOOD SIGNATURE CONTROL HDISTRICT | \longrightarrow | HCFCD | \$2,500,000 | | |
| | | | NRCS | \$8,300,000 | | USDA ONRCS United States Department of Agriculture Natural Resources Conservation Service |
| THENT OF HOUSING LINE AND LIFE BAND DEVELOR OF THE PROPERTY OF | TXGLO | | CDBG-DR (HUD-GLO) | \$33,600,000 | | |
| | | | TOTAL | \$44,400,000 | | |

* Doesn't include 20+ years of FEMA FMA/PDM/HMGP and CDBG-DR funded voluntary home buyouts.

USACE - Environmental Infrastructure (EI) Assistance



- Section 219 of WRDA 1992
- \$80 million "authorized" for Texas (modified in 2007 and 2022)
- Planning, Design and/or Construction of
 - Water/Wastewater
 - Stormwater
 - Surface Water Protection
 - Environmental Protection
- Typically 75/25 split (federal/local)
- Not subject to the USACE Planning Process



Congressional "Earmarks"

- Community Project Funding (CPF)
- Starts in Feb/Mar with next FY Budget Prep
- Not all congressional members participate
- "Hurry up, then wait"
- Typically in the \$1-5 million, up to ~\$10 million
- Funding is appropriated to a Federal Agency
- NO COMPETITION!
 - Compliance can be a hurdle





TWDB Flood Infrastructure Fund (FIF)



- Project must be in the State Flood Plan (through RFPG's)
 - \$54 Billion plan (and growing)
 - Updated every five years
 - Amendment process coming
- More Loans than Grants
- More than \$1 Billion since 2019
- Two step application process

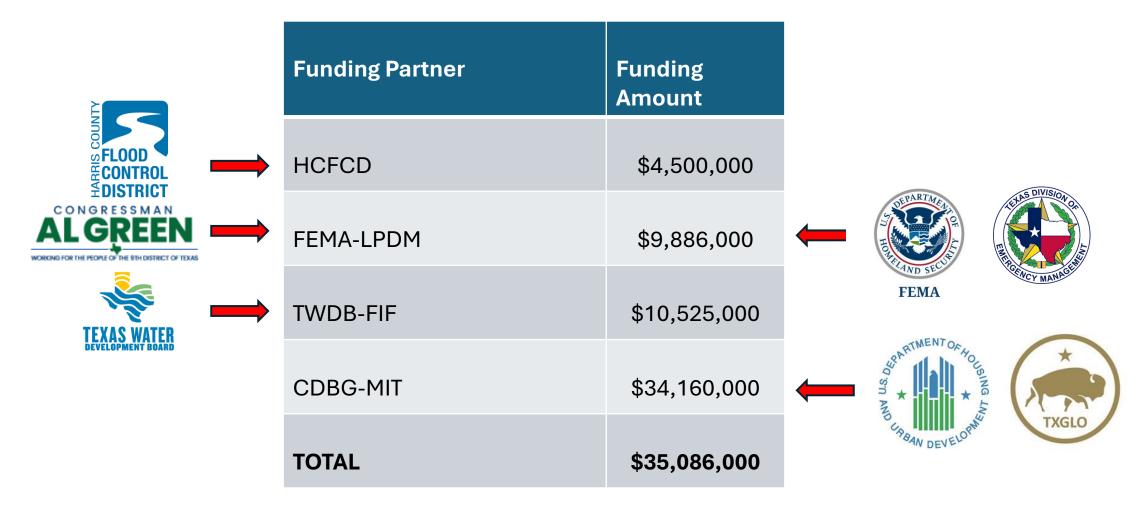


S. Post Oak Stormwater Detention Basin and Channel Conveyance





Sources of Funding S. Post Oak Stormwater Detention Basin and Channel Conveyance Improvements



Key Take Aways







PHASE YOUR PROJECT



KEEP LOOKING AHEAD



ENGAGE WITH YOUR PARTNERS (AT ALL LEVELS)



FEDERAL FUNDS MOVE SLOW!







Sign up
for my
monthly
e-mail!

Thank You!

ablack@quiddity.com

(281) 315-9425