

Image depicts the P518-11-00 Stormwater Detention Basin located upstream (west) of Keith-Wiess Park. The first phase of this project was completed in 2022.



Halls Bayou Bond Program North Houston Association Water Committee Update

May 9, 2024 | 11:30am to 1:00 p.m.

Meeting Overview

Introductions and Welcome

11:30 – 12:00 p.m.

Presentation

- Halls Bayou Bond Program Overview
 - Project Overviews
 - Next steps
-

12:00 – 12:45 p.m.

Q & A Session

12:45 – 1:00 p.m.

Meeting Concludes

1:00 p.m.



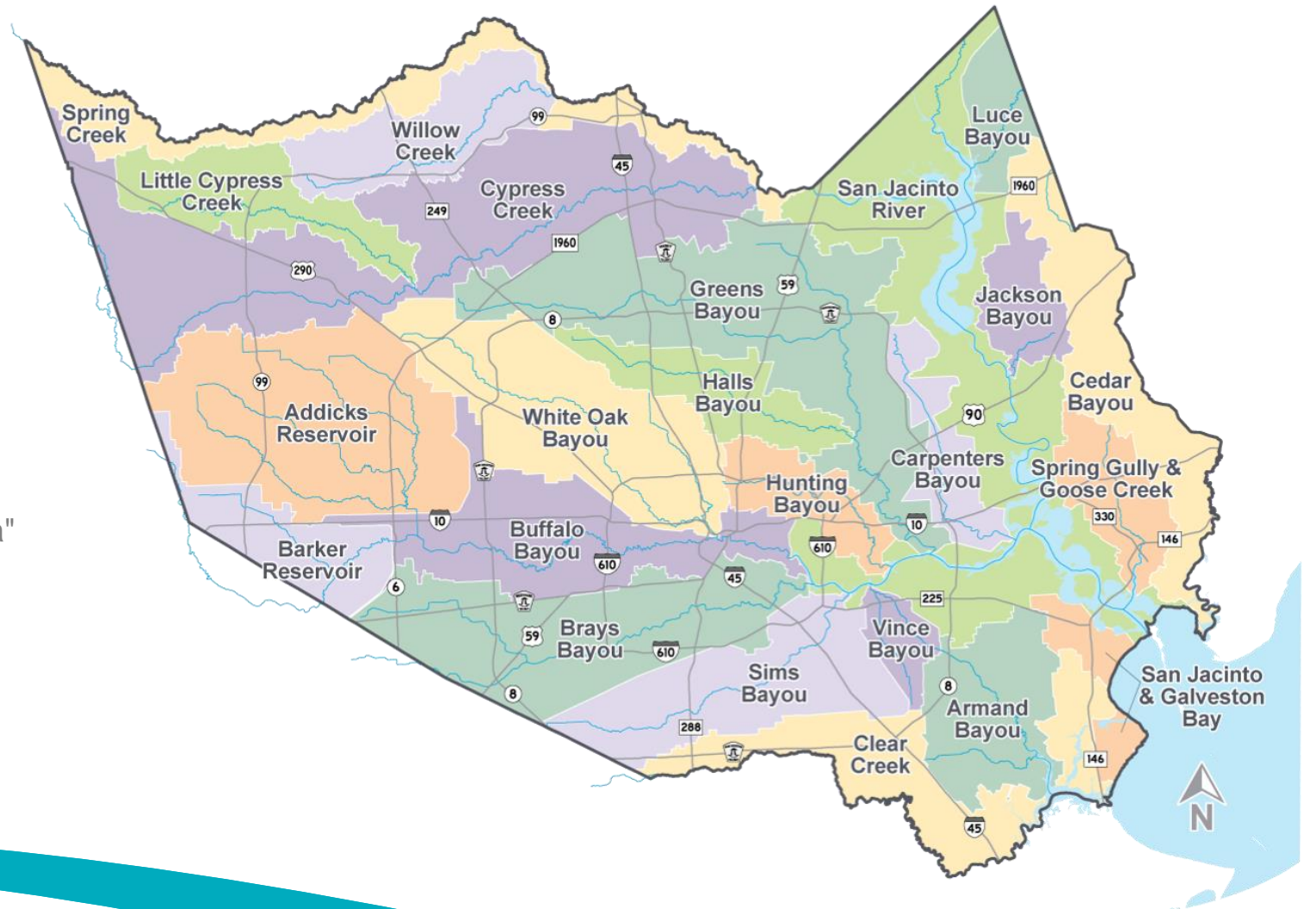
Lars Zetterstrom, P.E.

Program Manager, Halls Bayou Implementation
Program

Harris County Watersheds

What is a watershed?

A geographical region of land or "drainage area" that drains to a common channel or outlet, mostly creeks and bayous in Harris County. Drainage of the land can occur directly into a bayou or creek, or through a series of systems that may include storm sewers, roadside ditches, and/or tributary channels.






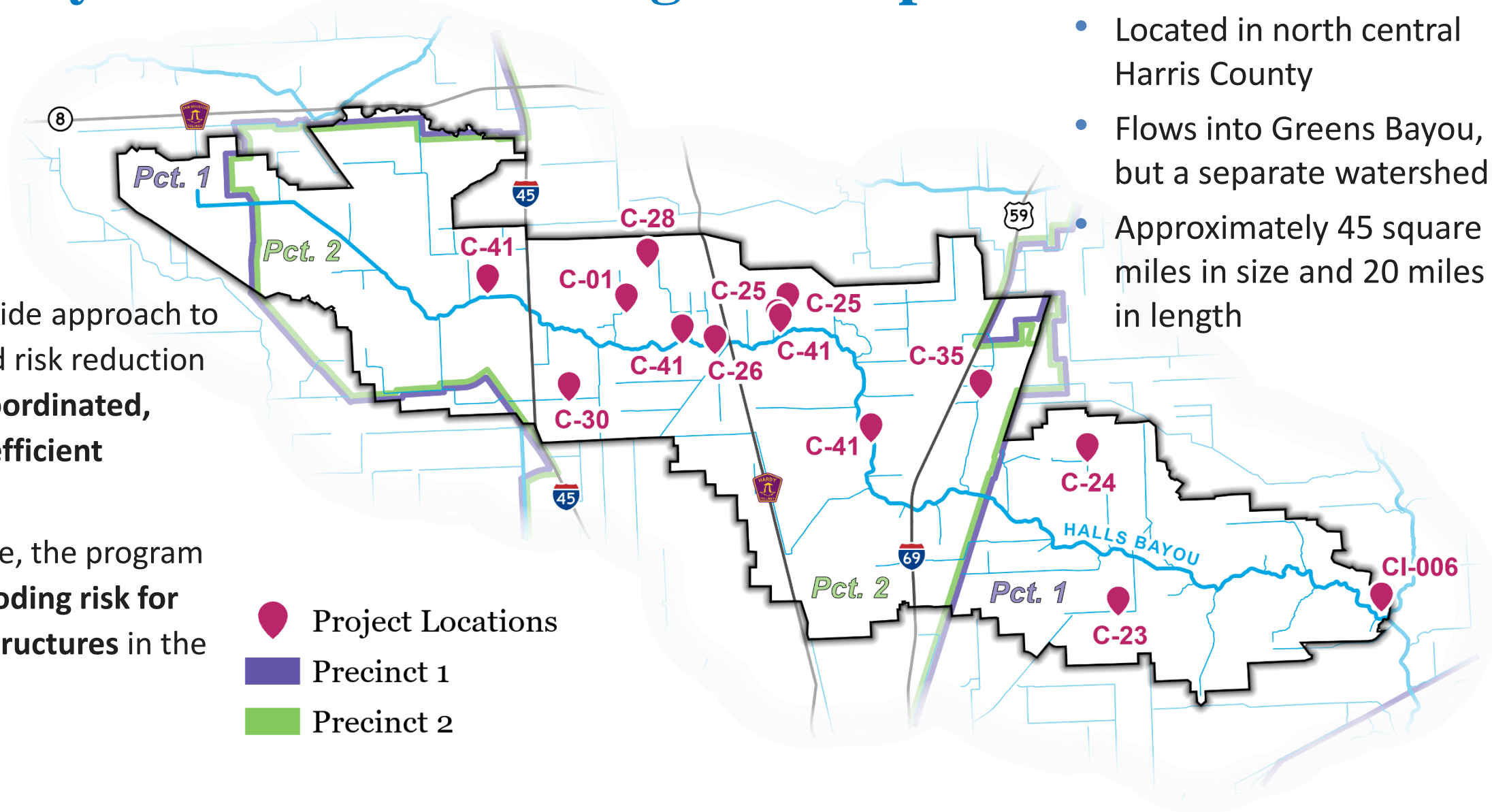
Halls Bayou Watershed & Program Map

- Located in north central Harris County
- Flows into Greens Bayou, but a separate watershed
- Approximately 45 square miles in size and 20 miles in length

A watershed-wide approach to executing flood risk reduction projects in a **coordinated, effective and efficient** manner.

When complete, the program will reduce flooding risk for nearly **2,500 structures** in the watershed.

-  Project Locations
-  Precinct 1
-  Precinct 2



Watershed-wide Management

- Maintain Consistency: Staff Augmentation, HCFCFD System Integration
- Watershed/Project Feasibility Studies
- Services: ROE, ROW Surveys, ROW Acquisition Support, CPS (CM, CMT & CI), Environmental Services, Utility/SUE, QAQC
- Design Management
- Grant Management
- H&H Modeling
 - Comprehensive Models
 - Joint Modeling
 - Technical Reviews/Model QAQC
 - MAAPnext
- Acquisition
 - AE Services – Secondary RFQ Process
 - Construction
- Communications



Picture: Completed Little York Stormwater Detention Basin

Strategic Communications

Stakeholder Engagement/Project Coordination

- Harris County Precincts 1 & 2
- Harris County Engineering Department (HCED)
- HCED Resiliency & Recovery Department (RRD)
- Community Services Department (CSD)
- Harris County Purchasing (HCP)
- County Attorneys Office (CAO)
- City of Houston
- TXDoT
- USACE
- Grantor Agencies: FEMA/TDEM, TWDB, HUD/GLO
- Other Engineering Consultants/Contractors

Public Engagement

- Semi-annual Updates
- Project Updates: PER and Final Design
- Monthly Webpage Updates:
<https://www.hcfc.org/Activity/Active-Projects/Halls-Bayou>
- NGO Meeting Support

Active Funding Sources in Halls Bayou

FEDERAL FUNDING



FEMA

STATE & LOCAL FUNDING



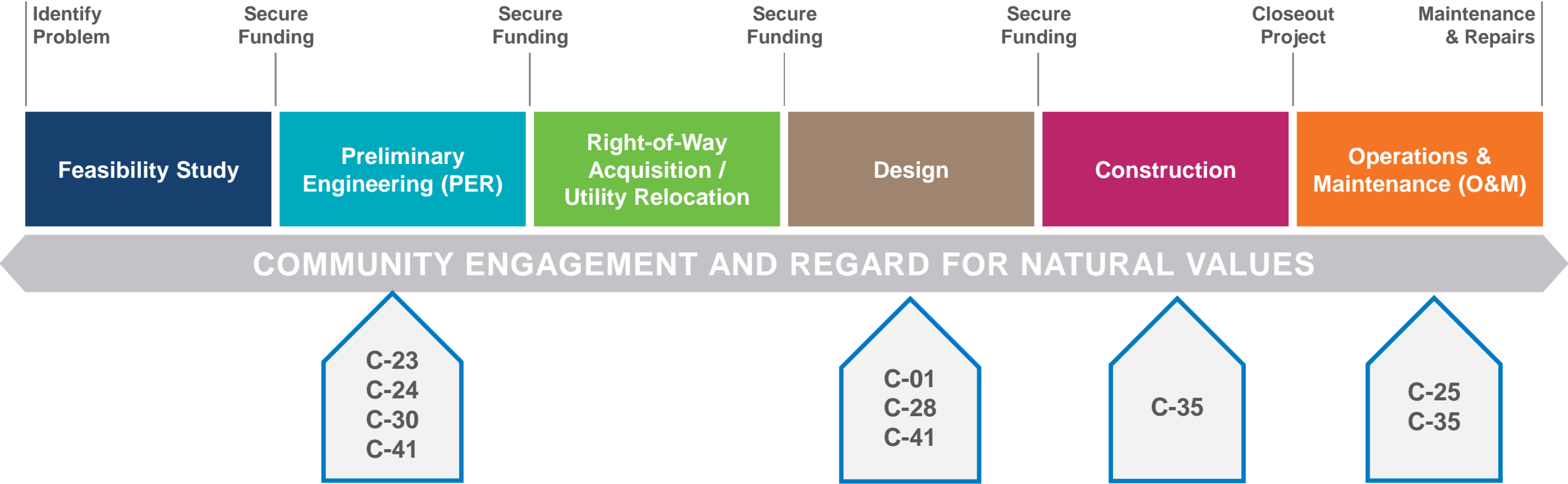
CDBG-MIT & CDBG-DR in Halls Bayou Watershed

Program	Project Name	Project Cost	Est. Const. Complete
CDBG-DR*	Isom Stormwater Detention Basin	\$18.46M	Q2 2026
CDBG-MIT*	Halls Bayou Channel Conveyance Improvements Downstream of Hopper	\$4.04M	Q2 2027
CDBG-MIT*	Channel Conveyance Improvements and Stormwater Detention Basin on P118-23-00	\$54.93M	Q3 2028
CDBG-MIT*	Channel Conveyance Improvements and Stormwater Detention Basin on P118-27-00	\$32.83M	Q3 2028
CDBG-MIT*	Channel Conveyance Improvements and Stormwater Detention Basins on P118-08-00	\$34.24M	Q3 2028
CDBG-MIT*	Stormwater Detention Basins on Halls Bayou near Hardy West	\$74.93M	Q1 2029
CDBG-MIT*	Hahl North Stormwater Detention Basin	\$28.13M	Q3 2029

Total = 7 projects valued at approximately \$248 million

*As of April 2024. Final project cost and construction completion dates are subject to change.

Project Lifecycle



Bond Project C-25 (P518-11-00-E001 & P118-21-00-E001)

Project ID: C-02 & **C-25** (P118-21-00)

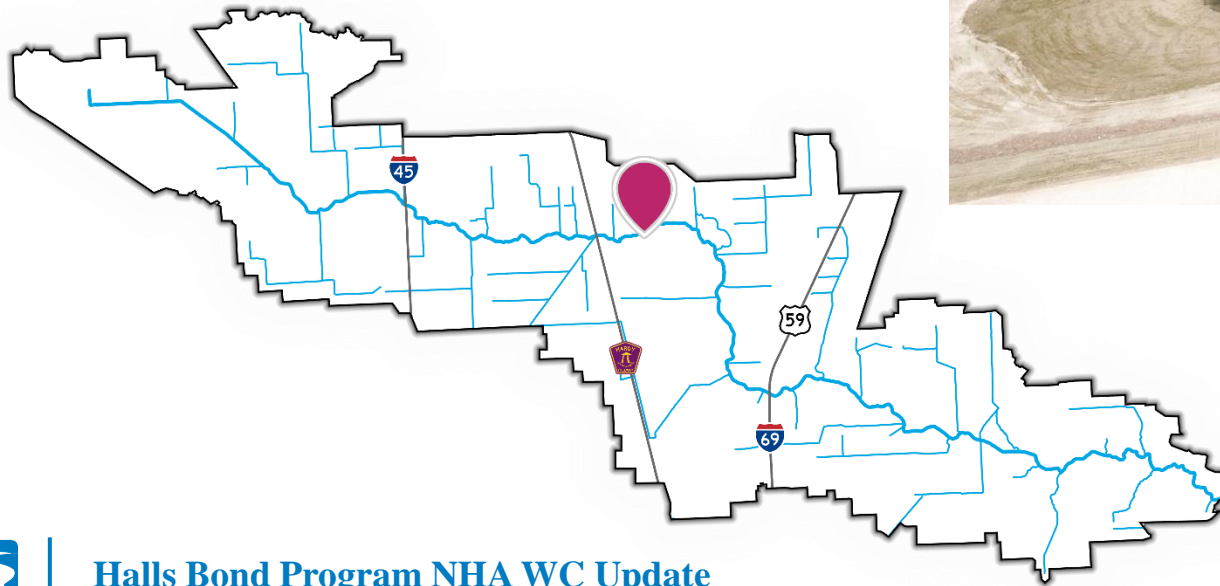
Project Type: Stormwater Detention +
Channel Conveyance Improvements

Estimated Cost: \$12 Million

Service Area: 70 Structures

Current Stage: O&M

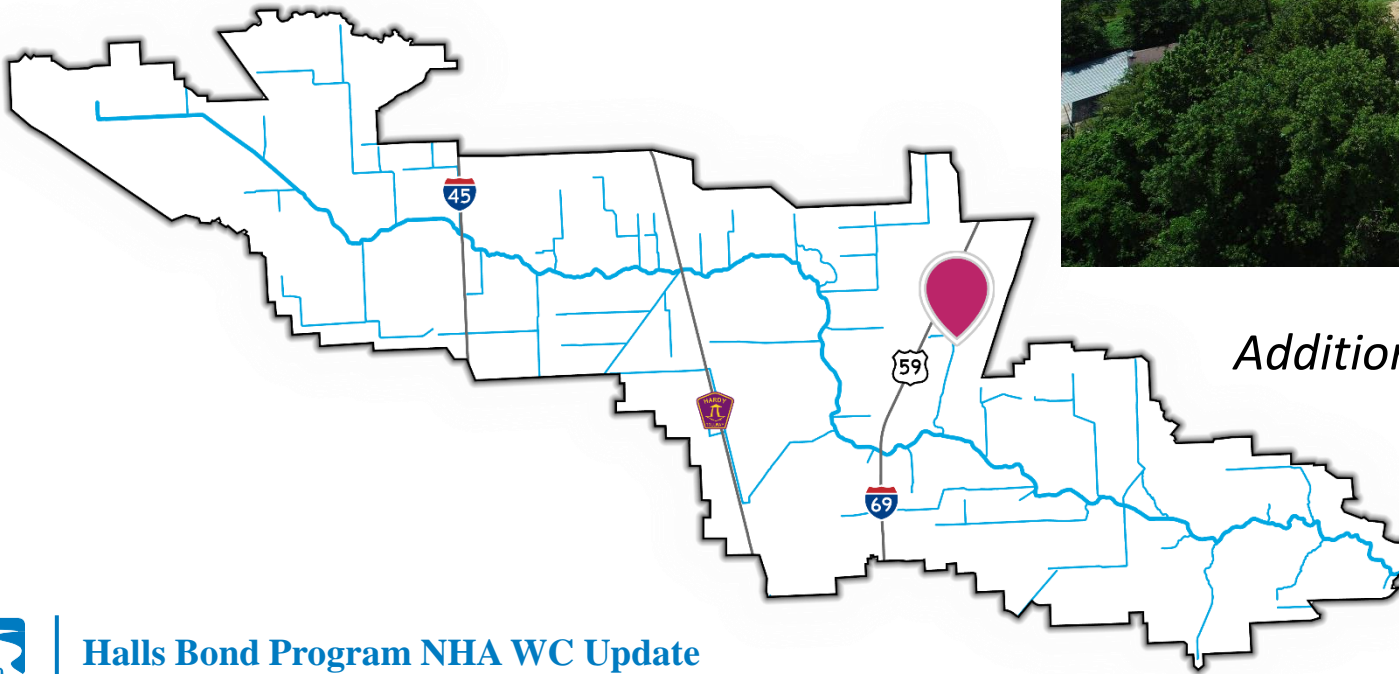
Funding: CDBG-DR, Local match



Additional info is available at [HCFCFD.org/C-25](https://www.hcfcfd.org/C-25)

Bond Project C-35 (P518-10-00-E002) Phase 1

Project ID: C-35 (P518-10-00-E002)
Project Type: Stormwater Detention
Estimated Cost: \$3.7 Million
Service Area: 300 Structures
Current Stage: O&M
Funding: CDBG-DR, Local match



Additional info is available at HCFCD.org/C-35

Bond Project C-35 (P518-10-00-E001) Phase 2 – Little York Basin, Hopper Basin and P118-14-10 Channel Conveyance Improvements

Project ID: C-35 (P518-10-00-E001)

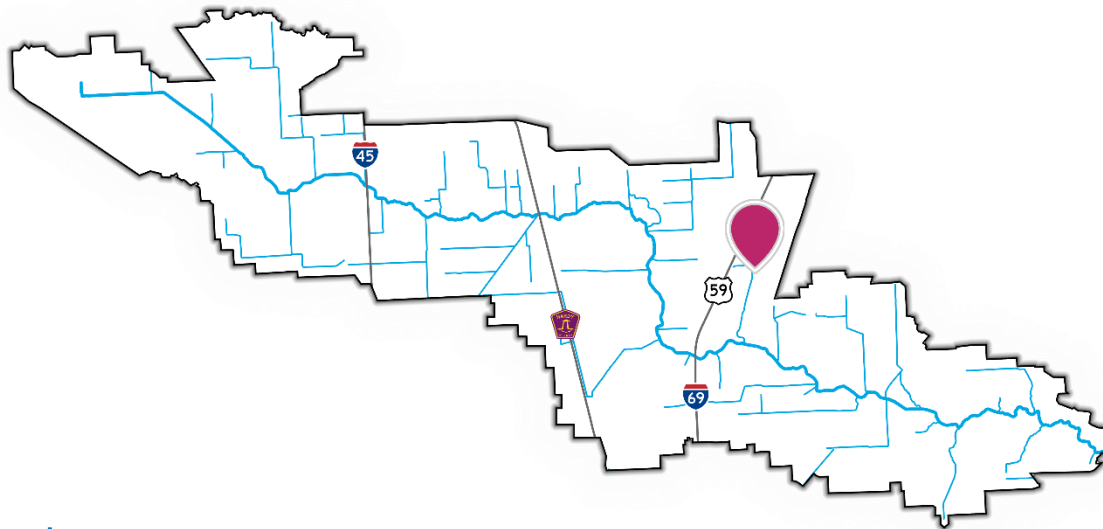
Project Type: Channel Conveyance Improvements

Estimated Cost: \$3.5 Million

Service Area: 300 Structures

Current Stage: Construction Award

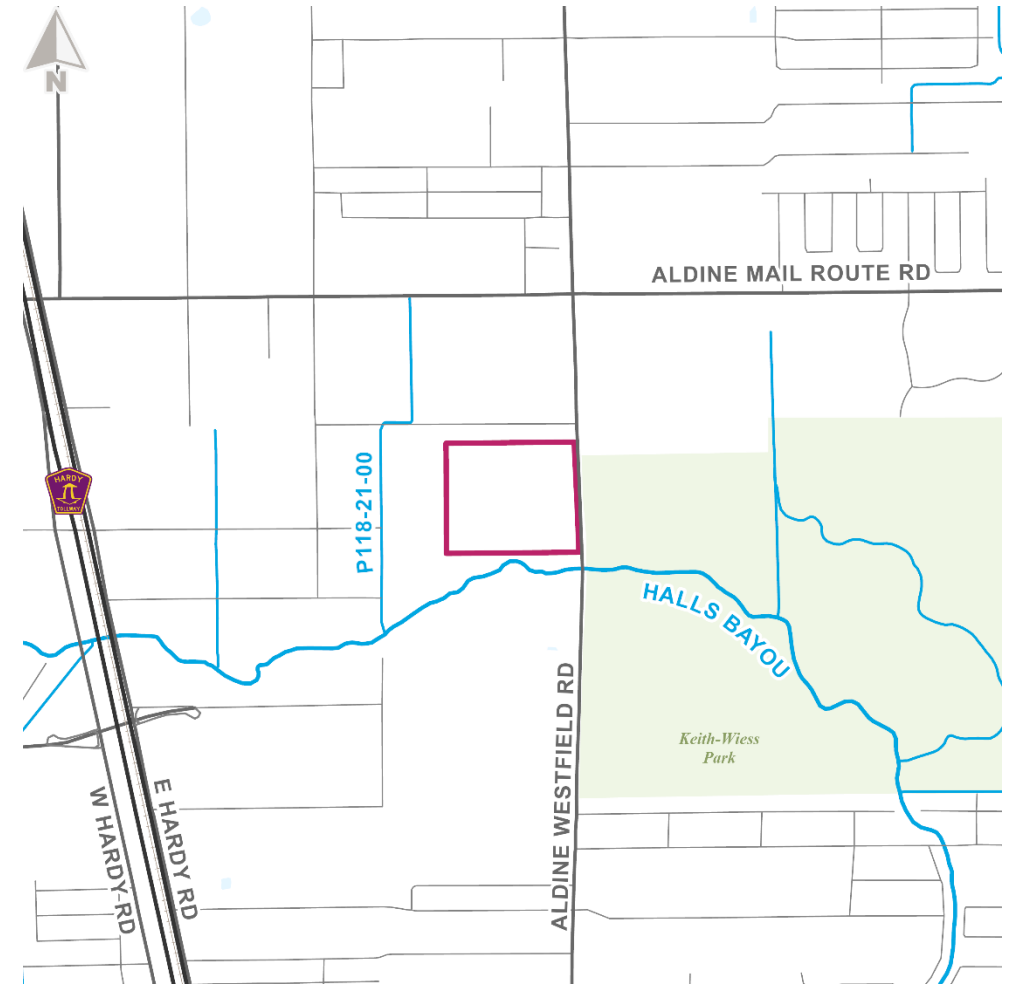
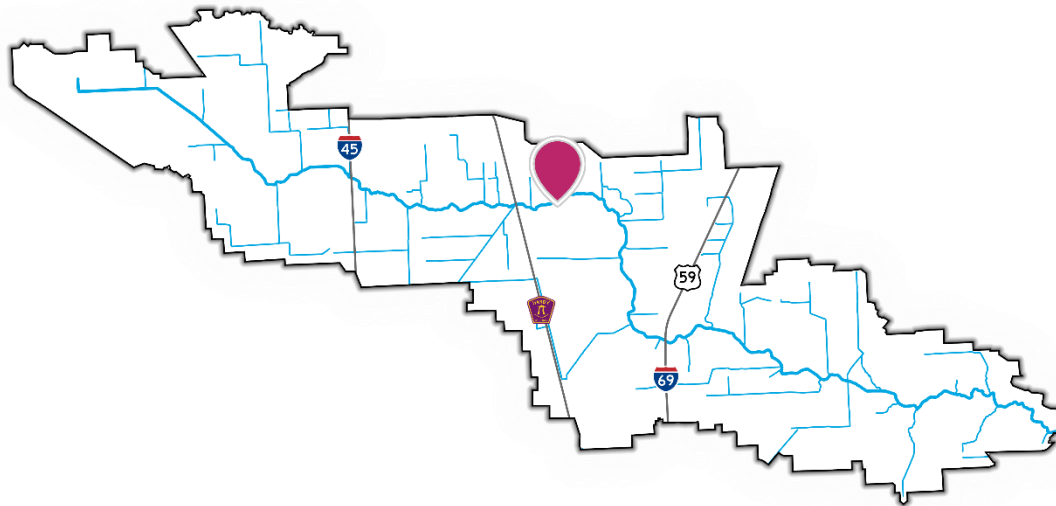
Funding: CDBG-DR, Local Match



Additional info is available at [HCFCFD.org/C-35](https://www.hcfcfd.org/C-35)

Bond Project C-41 (P518-11-00-E002) Isom Stormwater Detention Basin

Project ID: C-41 (P518-11-00 Phase 2)
Project Type: Stormwater Detention
Estimated Cost: \$21 Million
Service Area: 17 Structures
Current Stage: Design
Funding: Bond, FRTF, CDBG-DR



Additional info is available at [HCFC.org/Activity/Active-Projects/Halls-Bayou/C-41/C-41-Main-Stem-Stormwater-Improvements-in-the-Vicinity-of-Keith-Wiess-Park-and-Tributary-P118-21-00](https://www.hcfc.org/Activity/Active-Projects/Halls-Bayou/C-41/C-41-Main-Stem-Stormwater-Improvements-in-the-Vicinity-of-Keith-Wiess-Park-and-Tributary-P118-21-00)

Bond Project C-41 (P118-00-00-E008) Downstream of Hopper Road

Project ID: C-41 (P118-00-00-E008) DS of Hopper

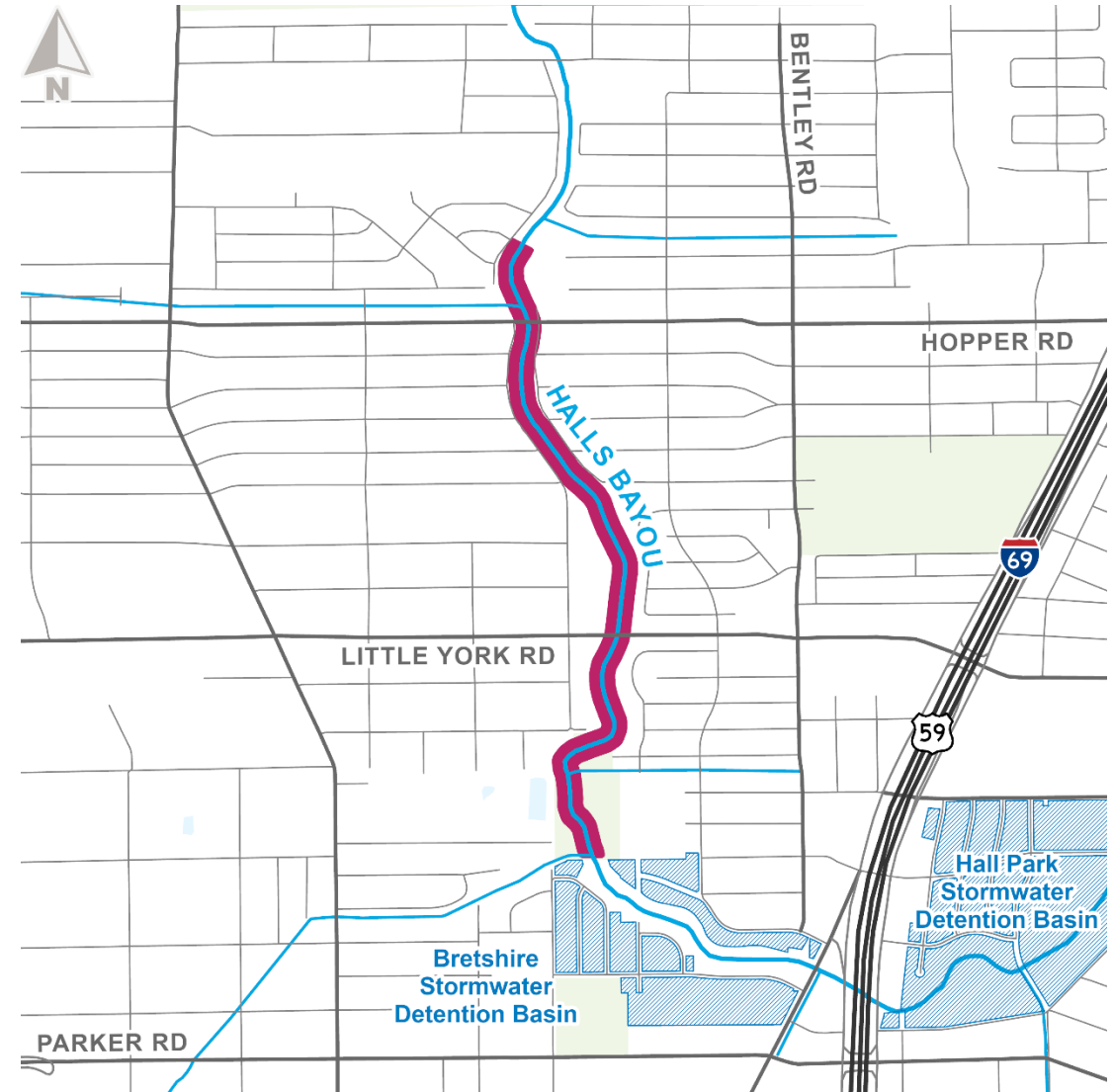
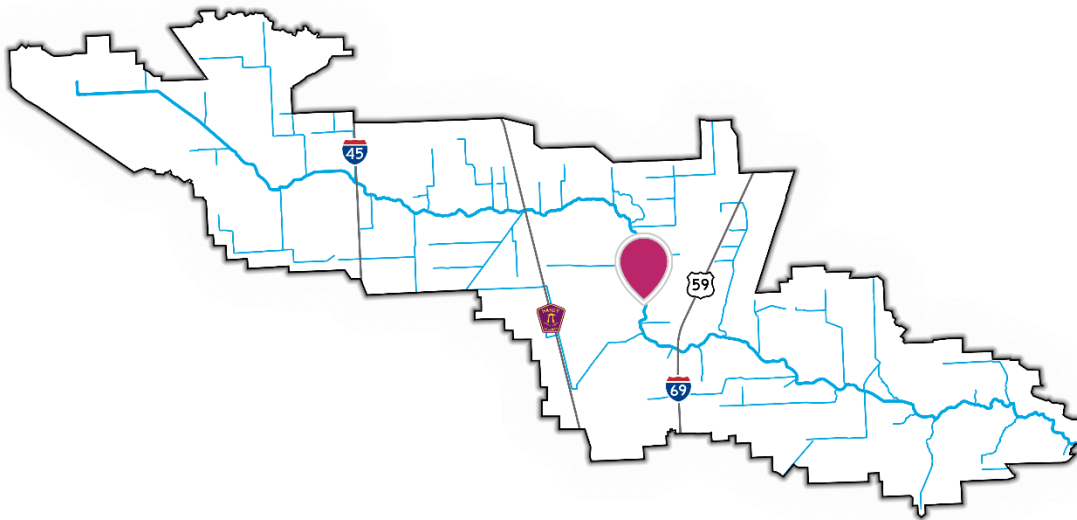
Project Type: Channel Conveyance Improvements

Estimated Cost: \$3.4 Million

Service Area: 220 Structures

Current Stage: PER

Funding: Bond, FRTF, Pending Federal Funding (FEMA HMGP, CDBG-MIT)



Additional info is available at [HCFC.org/Activity/Active-Projects/Halls-Bayou/C-41/C-41-Main-Stem-Channel-Conveyance-Improvements-and-Related-Stormwater-Detention](https://www.hcfc.org/Activity/Active-Projects/Halls-Bayou/C-41/C-41-Main-Stem-Channel-Conveyance-Improvements-and-Related-Stormwater-Detention)



Halls Bond Program NHA WC Update

May 9, 2024

Bond Project C-41 (P118-00-00-E009) Hahl North Stormwater Detention Basin

Project ID: C-41 (P118-00-00-E009)

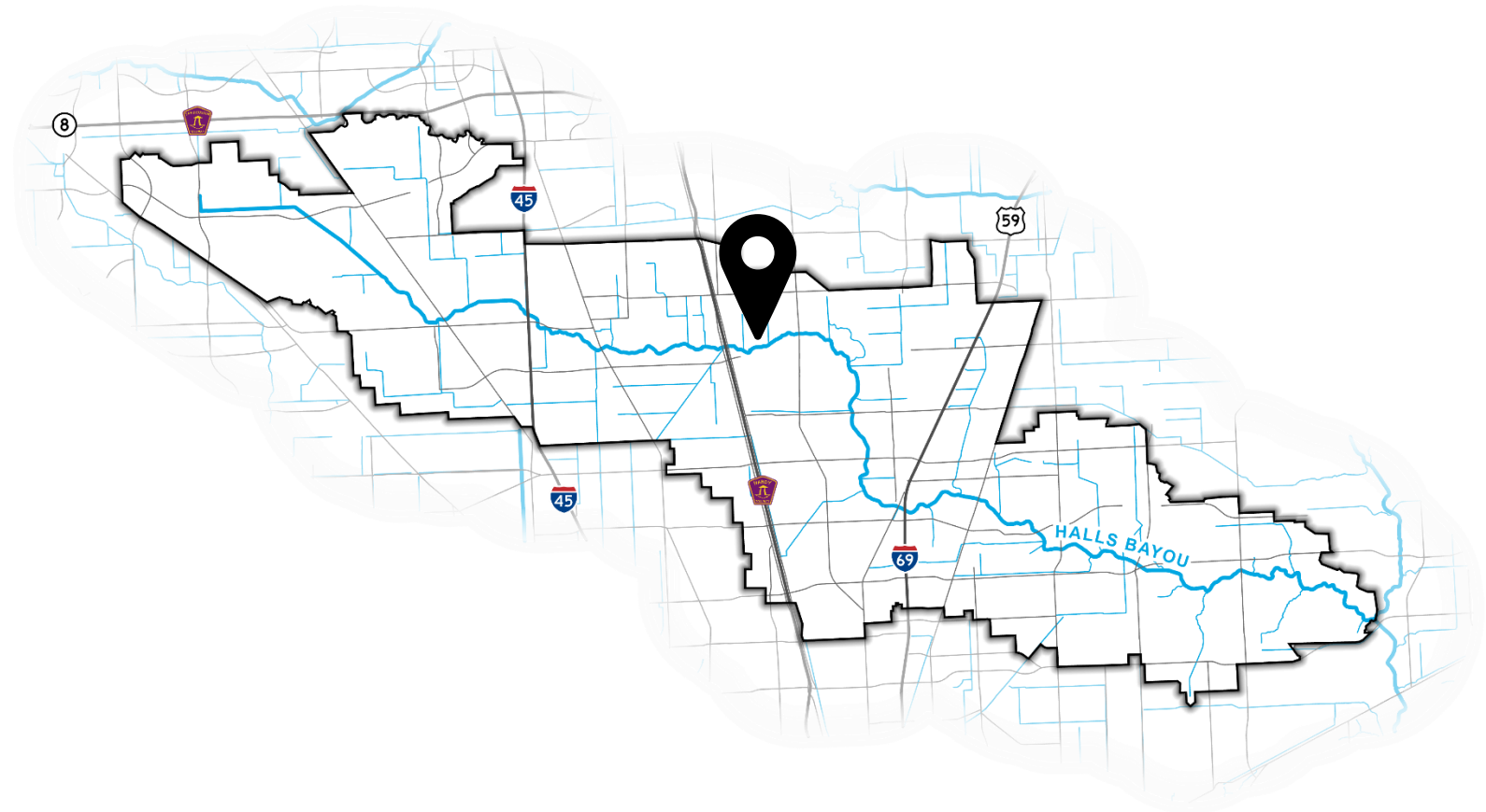
Project Type: Stormwater Detention, Mainstem Conveyance Improvements

CDBG-MIT Cost: \$31.7 Million

Service Area: 60 Structures

Current Stage: Design Acquisition

Funding: Bond, TWDB, CDBG-MIT



Additional info is available at HCFCD.org/Activity/Active-Projects/Halls-Bayou/C-41/C-41-Hahl-Stormwater-Detention-Basin

Representative Armando Walle Hahl North Stormwater Detention Basin Site Visit



Halls Bayou Long-Range Vision Plan

A holistic approach to flood risk reduction projects across the Halls Bayou watershed.

- Originally developed in 2013 and updated in 2019 and 2021
- Plan identifies a series of projects to reduce flood risks in Halls Bayou broken into 12 separate phases, including:
 - Channel conveyance improvements for more than 20 miles of the Halls Bayou main channel and its tributaries
 - More than 10,000 acre-feet of stormwater detention storage

The **Halls Bayou Bond Program** is Phase 0 of the overall Halls Bayou Long-Range Vision Plan and Phasing Study.

CDBG Industry Day - 16 MAY

- Date: Thursday, May 16, 2024
- Location: Deputy Darren Almendarez Community Center - 10918 Bentley St, Houston, TX 77095
- Time: 2:00 p.m. – 4:00 p.m.



Connect with Us!

For additional information on upcoming procurement activity and a link to job opportunities, please visit:

www.hcfcd.org/work-with-us

Q&A Conclusion



Halls Bond Program NHA WC Update

May 9, 2024