

To: Harris County Commissioners Court
Russell A Poppe
Through: Russell A. Poppe, P.E., Executive Director, Harris County Flood Control District
Prepared By: Matthew K. Zeve, P.E., Deputy Executive Director, Harris County Flood Control District

Subject: Update to the 2018 Harris County Flood Control District Bond Program

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Project ID (If applicable): n/a

Purpose and Request:

..title

Request for discussion and possible action on an update to the 2018 Harris County Flood Control District Bond Program.

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Background and Discussion:

The Harris County Flood Control District Bond Program Update addresses administrative corrections, reflects secured partnership funding, provides updated cost estimates for some initiated projects, and updates the number and status of projects within the program. It is important to note that the proposed update does not cancel any projects or transfer funds from any project to another. There are no proposed changes to the Prioritization Framework. Going forward, the District will provide Bond Program updates to Commissioners Court at the mid-year budget review and at the start of each new fiscal year.

In the 30 months since the Bond Program was approved by Harris County voters in August 2018, the District has used bond funds to:

- Accept 25 grants totaling approximately \$960 million with Bond funds providing around \$259 million in local matching funds*
- Execute 326 engineering agreements totaling \$241 million*
- Award 39 construction agreements totaling \$296 million*
- Procure 19 staff augmentation agreements providing 113 contract staff members*
- Acquire nearly 340 properties at a value over \$208 million for construction projects, floodplain preservation, and wetland mitigation banks*
- Make \$115 million available to the Office of the County Engineer to manage and construct drainage improvements in nearly 100 subdivisions across Harris County*
- Conduct 140 community engagement meetings with over 11,413 attendees*
- Complete nearly 630 home buyouts at a value over \$130 million with over 680 additional in process for a buyout (since Hurricane Harvey)*
- Complete over \$125 million repair program to address damages to District infrastructure caused by Hurricane Harvey*

Fiscal Impact:

There is no cost associated with this item.

Fiscal Summary			
Expenditures	FY 20-21	FY 21-22 Projected	Future Years Projected [3 additional years]
Service Impacted: N/A			
Existing Budget	\$0	\$0	\$0
Additional Appropriation Requested	\$0	\$0	\$0
Total Expenditures	\$0	\$0	\$0
Funding Sources	\$0	\$0	\$0
Existing Department Budget	\$0	\$0	\$0
Please Identify Funding Source (General Fund, PIC, Special Revenue, Grant, Etc.)	\$0	\$0	\$0
HCFCFCD Operations & Maintenance*	\$0	\$0	\$0
Total Sources	\$0	\$0	\$0

Alternatives:

The alternative is to not provide a progress briefing to Commissioners Court at this time.

Alignment with Strategic Objective:

SO2.1 - Reducing flooding risks across Harris County by completing projects in the 2018 Harris County Flood Control District Bond Program by 2030.

Attachments:

Proposed 2018 Flood Control District Bond Program Update
Bond Update PowerPoint presentation



UPDATE TO THE 2018 HARRIS COUNTY FLOOD CONTROL DISTRICT BOND PROGRAM MARCH 2021

The Harris County Flood Control District (Flood Control District) will submit an update of the 2018 Harris County Flood Control District Bond Program (Program) for Commissioners Court for consideration on March 30, 2021.

This biannual update includes typographical corrections, funding updates, and other clarifications to the 2018 Flood Control District Bond Program. Future updates are planned to be presented to Commissioners Court biannually in March and September. The updated Program is included with this transmittal as Attachment 1 *Bond Project List*.

Please note that throughout this memorandum and the attachments, Bond projects will reference a "Bond ID." The Bond ID is the unique identifier for each Bond project. A Bond project can have multiple projects associated with it. The tables in this memorandum and attachments list the Bond IDs for all Bond projects.

Below are a few of the highlighted changes contained in this update:

- Bond Projects listed in the previous update (May 2020) as "Consolidated" projects were removed to show the single Bond Project
- Some project costs were updated based on the development of engineer's estimates that have subsequently provided more accurate construction costs
- Adjustments made to costs to reflect the latest status information regarding grants and partnership agreements.
 - \$1.2B in partnership funding secured, including:
 - \$960M in grants awarded
 - More than \$240M in partnerships with local municipalities, including Road & Bridge bond funds
 - Currently \$1.4B in a combination of grant and loan applications pending

A comparison summary is included with this transmittal as Attachment 2 showing any changes as compared to the May 2020 update. A detailed list of all changes is included as Attachment 3 in a different format, listing the changes in line item detail.

As of this update there are 181 total 2018 Bond Projects, with 19 completed, 141 active, and 21 not initiated. Below is a summary of each of those categories.

Completed Projects

Since the initiation of the Program on August 28, 2018, the Flood Control District has completed nineteen Bond projects. These Bond projects are listed below and detailed in Attachment 4. Bond IDs CI-021, CI-016, F-124, CI-020, CI-035, CI-36, F-101, F-121, F-39, F-73, F-85, F-75, F-78, and F-71 are engineering investigations. Bond ID F-35 and F-22 are projects declared substantially complete for construction with some remaining vegetation establishment and closeout efforts. Bond IDs F-59 and F-21 were in the original Bond list but were completed without using Bond funds because these projects were ready to start construction before the Bond funding was available. We did not want to delay construction of these projects and chose to fund them with available cash.

Bond ID CI-039 was simply a cost share, and the Flood Control District has provided the requested funding to the City of Nassau Bay which has since completed the construction project. One-page summaries for each completed Bond project are attached with this transmittal and are posted on Flood Control District website.

Completed Bond Projects			
No.	Watershed	Bond ID	Title
1	Armand Bayou	CI-021	Brookglen Flooding Mitigation Analysis
2	Buffalo Bayou	CI-016	Investigations of Bridges and Potential Channel Bypasses over Buffalo Bayou
3	Buffalo Bayou	F-59	Spring Branch Creek Stabilization
4	Carpenters Bayou	F-124	Investigations of General Drainage Improvements along Carpenters Bayou
5	Clear Creek	CI-039	Partnership Project with Nassau Bay to Reduce the Risk of Flooding
6	Cypress Creek	CI-020	Investigation of Potential Detention Sites Around Cypress Creek and Stuebner Airline
7	Cypress Creek	CI-035	Update to 2003 Texas Water Development Board Cypress Creek Tributary Study and Investigate Expanding Stormwater Detention Basins in Cypress Creek Watershed
8	Cypress Creek	CI-36	Investigation of Additional Detention Volume at K500-01-00 Stormwater Detention Basin
9	Cypress Creek	F-21	Restore Channel Conveyance Capacity on K129-00-00
10	Cypress Creek	F-22	Restore Channel Conveyance Capacity Along Pilot Gully
11	Galveston Bay	F-101	Investigations of General Drainage Improvements in Galveston Bay Watershed
12	Goose Creek	F-121	Investigations of General Drainage Improvements in Goose Creek watershed
13	Goose Creek	F-39	Investigations of General Drainage Improvements on Spring Gully
14	Jackson Bayou	F-73	Investigations of General Drainage Improvements in Jackson Bayou Watershed
15	Little Cypress Creek	F-35	Construction of Bauer-Hockley Stormwater Detention Basin Improvements
16	Luce Bayou	F-85	Investigations of General Drainage Improvements along Luce Bayou
17	Spring Creek	F-75	Investigations of General Drainage Improvements along Spring Creek
18	Vince Bayou	F-78	Investigations of General Drainage Improvements in Vince Bayou Watershed
19	Willow Creek	F-71	Investigations of General Drainage Improvements in Willow Creek Watershed

Additionally, all Natural Resources Conservation Service (NRCS) grant-related infrastructure repair projects associated with Hurricane Harvey have been completed. These infrastructure storm repair projects include several hundred individual construction sites that have been combined into 25 construction packages. For brevity, the completed individual projects are not listed in this memorandum, but the summary of these projects is in the attached list of *Completed Bond Projects* summaries. The associated Bond ID Z-StormRep is not considered completed, as there are some remaining Flood Control District projects to be completed with funding under this Bond Project.

Active Projects

Flood Control District is currently working on 141 Bond projects from the 2018 Bond Program. Some of these Bond Projects are actually programs that consist of several individual District projects, such as the Subdivision Drainage Improvement Project (Z-SUBDIV). This Bond project is actually 117 separate District projects that are managed by the Harris County Engineering Department's Recovery & Resiliency Division.

Considering all of the projects, including the programs, there are 372 individual District projects in progress related to the Bond Program.

These Flood Control District projects are in various stages of the [flood damage reduction project lifecycle](#). The table below presents a breakdown of Flood Control District projects and their current stage in the project lifecycle. Support projects such as communications or other support services for Flood Control District projects are listed in the "Other" category.

Project Lifecycle Stage	Number of Active Projects
Feasibility Study	57
Preliminary Engineering	97
ROW / Utilities	22
Design	82
Construction	65
Operation & Maintenance	14
Other	35
Total	372

Active Countywide Bond Projects

Several Bond IDs are intended to generate multiple new Flood Control District projects that are countywide efforts. In the table below, Flood Control District projects are listed with their associated Bond ID. The Flood Control District requested and was granted authorization by Commissioners Court to negotiate with each project that has a partner for these individual Flood Control District partnership projects across Harris County.

Countywide Bond Projects With Multiple Flood Control District Projects				
No.	Bond ID	District ID	Watershed	Title
1	Z-02 Partnership Projects with Municipalities, Authorities and Other Districts	A100-00-00-HC003	Clear Creek	El Lago Drainage Improvements – 2020
2		A100-00-00-P006	Clear Creek	Lower Clear Creek Flood Mitigation Plan
3		B100-00-00-E004	Armand Bayou	Partnership Project with Pasadena- Bliss Meadows
4		B112-03-00-E001	Armand Bayou	Partnership Project for Heritage Addition With Deer Park
5		B112-04-00-E001	Armand Bayou	Partnership Project Delo-Elaine Stormwater Detention Basin
6		D100-00-00-E016	Brays Bayou	Detention on City of Houston ROW at S Braeswood and W 610 Loop
7		D100-00-00-P011	Brays Bayou	City of Bellaire Master Drainage Concept Plan
8		D100-00-00-X121	Brays Bayou	D100-00-00 TIRZ 20 Repairs
9		D112-00-00-E001	Brays Bayou	D112-00-00 Flood Risk Reduction Project
10		D500-11-00-E001	Brays Bayou	Meyergrove Detention Basin
11		E116-00-00-P001	White Oak Bayou	Shepherd Park Terrace and E116 Watershed Planning Project
12		G103-00-00-Y007	San Jacinto River	Investigation of Potential Sand Trap Locations Along the San Jacinto River and Tributaries
13		G105-00-00-E001	San Jacinto River	Boggy Bayou Drainage and Flood Control Study
14		O101-01-00-E001	Goose Creek	City of Baytown Partnership
15		O101-01-00-E002	Goose Creek	GCCISD and Baytown Interlocal Agreement
16		P152-00-00-E002	Greens Bayou	Partnership with WCID 109 for Local Flood Damage Reduction
17		U100-00-00-B003	Addicks Reservoir	Partnership Project with City of Houston and METRO on Clay Road Bridge PER
18		U106-00-00-E004	Addicks Reservoir	Partnership Project with Spencer Road PUD
19		W100-00-00-P011	Buffalo Bayou	St George Place and Surrounding Area Feasibility Study
20		Z100-00-00-P036	County-Wide Projects	Ship Channel Watershed Sediment Study
1	Z-03 Countywide Planning	P100-00-00-P002	Greens Bayou	Watershed Planning Study for the Lower Greens Bayou Watershed
2		Z100-00-00-P033	Countywide	Updates to the Watershed Master Plan
3		Z100-00-00-P035	Countywide	Countywide Level of Service Analysis
1	Z-04 Partnerships with HCED	D512-01-00-E003	Brays Bayou	South Willow Detention Basin Expansion
2		P100-00-00-E013	Greens Bayou	East Houston Medical Center Stormwater Detention Basin
3		P100-00-00-HC028	Greens Bayou	Eastex Freeway Forest Subdivision Drainage Improvements - 2019
4		Q100-00-00-HC004	Cedar Bayou	Forest Manor Secs. 1 & 2 and Lake Houston Woodland Terrace Subdivision Drainage Improvements
5		U201-09-00-Y001	Addicks Reservoir	U201-09-00 Crossing at Porter Road
6		U502-02-00-E007	Addicks Reservoir	John Paul Landing Central Cell Excavation
1	Z-05 Emerging Technologies	W100-00-00-W002	Buffalo Bayou	Buffalo Bayou Park Revegetation and Biostabilization
2		W100-00-00-Y002	Buffalo Bayou	Fluvial Geomorphic Assessment to Improve Bank Stability and Resiliency of Buffalo Bayou
3		Z100-00-00-P029	Countywide	Drainage Reuse Initiative (DRI) Feasibility Study

Projects Not Yet Started

The Flood Control District has 21 Bond projects from the Program that have not started. The remaining Bond projects will be initiated according to the [Bond Prioritization Framework](#). Currently, Flood Control District is working through the first, second, and third quartile of Bond projects. November 2020 marked the start of third quartile projects and they will continue in progression as Flood Control District capacity permits. The table below lists the 21 Bond projects that have not started. Projects in the 4th quartile will begin between July 2021 and March 2022.

Watershed	Bond ID	Unit ID	Title	Quartile
Galveston Bay	F-98	F212-00-00	Right-of-Way Acquisition, Design and Construction of General Drainage Improvements in Galveston Bay Watershed	3
Luce Bayou	F-108	S100-00-00	Right-of-Way Acquisition, Design and Construction of General Drainage Improvements in Luce Bayou Watershed	3
Spring Creek	F-119	J100-00-00	Right-of-Way Acquisition, Design and Construction of General Drainage Improvements along Spring Creek	3
Addicks Reservoir	F-55	U102-00-00	Planning, Right-Of-Way Acquisition, Design, and Construction for Ultimate Conveyance on Bear Creek	4
Addicks Reservoir	F-84	U102-12-00	Design and Construction of Secondary Outfall for John Pauls Landing for the Upper Langham Creek Program	4
Armand Bayou	F-99	B115-00-00	Right-Of-Way, Design and Construction of Conveyance Improvements along Armand Bayou	4
Barker Reservoir	C-53	T100-00-00	Rehabilitation of Channels Inside of Barker Reservoir to Restore Channel Conveyance Capacity	4
Brays Bayou	C-12	D111-00-00	Right-Of-Way, Design and Construction of Conveyance Improvements along Poor Farm Ditch	4
Brays Bayou	CI-025	D100-00-00	Investigation of Additional Stormwater Detention Basins in the Brays Bayou Watershed	4
Brays Bayou	CI-038	D115-00-00	Restore Channel Conveyance Capacity Along D115-00-00	4
Buffalo Bayou	CI-017	W100-00-00	Phased Implementation of Additional Storage and Conveyance Improvements per Recommendations of the W100-00-00 Study	4
Buffalo Bayou	CI-018	W140-00-00	Rehabilitation of W140-00-00 to Restore Channel Conveyance Capacity	4
Buffalo Bayou	CI-024	W500-00-00	Investigation of Effectiveness of Micro-Detention in the Buffalo Bayou Watershed	4
Buffalo Bayou	F-79	W157-00-00	Planning, Right-Of-Way Acquisition, Design and Construction Along W157-00-00	4
Buffalo Bayou	F-80	W141-00-00	Planning, Right-Of-Way Acquisition, Design and Construction Along Soldiers Creek	4
Cedar Bayou	F-42	Q114-00-00	Right-of-Way Acquisition, Design and Construction of Channel Conveyance Improvements along Magee Gully	4
Hunting Bayou	CI-59	H102-00-00	Planning, Right-Of-Way, Design and Construction of a Diversion Channel from H102-00-00 to H100-00-00 through Galena Park	4
Jackson Bayou	F-107	R100-00-00	Right-of-Way Acquisition, Design and Construction of General Drainage Improvements in Jackson Bayou Watershed	4
San Jacinto River	CI-61	G103-00-00	East Fork, West Fork and Lake Houston Dredging	4
San Jacinto River	F-15	G103-00-00	Planning, Right-Of-Way Acquisition, Design and Construction of General Drainage Improvements Near Atascocita	4
Sims Bayou	CI-037	C146-00-00	Restore Channel Conveyance Capacity Along C146-00-00	4

Attachments:

- 1) Updated 2018 Bond Program List
- 2) Comparison Summary
- 3) Detailed List of Changes
- 4) NRCS Harvey Repair Program Update
- 5) Home Buyout Program Update

2018 BOND PROJECTS

March 2021 Update

Last Revision - 3/19/2021

WATERSHED	TYPE	BOND ID	UNIT ID	TITLE	PRECINCT	* ESTIMATED 2018 BOND FUNDS (BF)	** ESTIMATED PARTNER FUNDS (PF)	***ESTIMATED DISTRICT FUNDS (DF)	TOTAL ESTIMATE (BF+PF+DF)	DESCRIPTION OF BENEFITS / NOTES
Addicks Reservoir	Partnership	C-36	U101-00-00	Right-Of-Way Acquisition, Design and Construction of Channel Conveyance Improvements and Bypass Channel for South Mayde Creek	3	\$ 1,000,000	\$ 9,000,000	\$ -	\$ 10,000,000	This project is part of the South Mayde Creek Plan that could reduce the risk of flooding for more than 70 homes and reduce the rainfall event by more than 340 acres in a pre-Atlas 1% rainfall event.
Addicks Reservoir	Partnership	C-37	U500-01-00	Design and Construction of Little York Stormwater Detention Basin	4	\$ 500,000	\$ 2,500,000	\$ -	\$ 3,000,000	Project would provide additional stormwater detention in support of flood damage reduction in Addicks Reservoir Watershed.
Addicks Reservoir	Partnership	C-38	U520-01-00	Design and Construction of Dinner Creek Stormwater Detention Basin	4	\$ 3,750,000	\$ 11,250,000	\$ -	\$ 15,000,000	Project would provide additional stormwater detention in support of flood damage reduction and could reduce the risk of flooding for approximately 30 multi-family structures in Addicks Reservoir Watershed.
Addicks Reservoir	Partnership	C-40	U100-00-00	Corps of Engineers Section 216 Study - Addicks and Barker Reservoirs	Countywide	\$ -	\$ 6,000,000	\$ -	\$ 6,000,000	This study partnership with the Corps of Engineers will recommend projects and/or operational changes to improve the effectiveness and safety of the Addicks and Barker Reservoirs.
Addicks Reservoir	Partnership	C-46	U501-06-00	Right-Of-Way Acquisition, Design and Construction of a Stormwater Detention Basin on South Mayde Creek	3	\$ 1,600,000	\$ 14,400,000	\$ -	\$ 16,000,000	This project is part of the South Mayde Creek Plan that could reduce the risk of flooding for more than 70 homes and reduce the rainfall event by more than 340 acres in a pre-Atlas 1% rainfall event.
Addicks Reservoir	Partnership	C-47	U101-00-00	Design and Construction of a Bridge Replacement for Greenhouse Road at South Mayde Creek	3	\$ 1,500,000	\$ 13,500,000	\$ -	\$ 15,000,000	This project is part of the South Mayde Creek Plan that could reduce the risk of flooding for more than 70 homes and reduce the rainfall event by more than 340 acres in a pre-Atlas 1% rainfall event.
Addicks Reservoir	Partnership	C-48	U101-00-00	Right-Of-Way Acquisition, Design and Construction of a Stormwater Detention Basin on South Mayde Creek near the Grand Parkway	3	\$ 9,400,000	\$ 84,600,000	\$ -	\$ 94,000,000	This project is part of the South Mayde Creek Plan that could reduce the risk of flooding for more than 70 homes and reduce the rainfall event by more than 340 acres in a pre-Atlas 1% rainfall event.
Addicks Reservoir	Local	C-52	U100-00-00	Rehabilitation of Channels Inside of Addicks Reservoir to Restore Channel Conveyance Capacity	3	\$ 10,000,000	\$ -	\$ -	\$ 10,000,000	Major maintenance to restore channel conveyance capacity. Partnership project with USACE with District providing project funding.
Addicks Reservoir	Local	F-112	U700-00-00	Right-Of-Way Acquisition, Design, and Construction of Wetland Mitigation Bank	3	\$ 20,000,000	\$ -	\$ -	\$ 20,000,000	Restoration and enhancement of wetlands to create credits for wetland mitigation supporting construction of District projects and may be used for projects supporting District goals in coordination with other Harris County public agencies and municipalities.
Addicks Reservoir	Local	F-53	U100-00-00	Rehabilitation of Channels Upstream of Addicks Reservoir to Restore Channel Conveyance Capacity	3	\$ 40,000,000	\$ -	\$ -	\$ 40,000,000	Major maintenance to restore channel conveyance capacity.
Addicks Reservoir	Local	F-54	U100-00-00	Right-Of-Way Acquisition, Design and Construction of Control Structures and Stormwater Quality Features for the Upper Langham Creek Program	3	\$ 10,000,000	\$ -	\$ -	\$ 10,000,000	This project is part of the Upper Langham Creek Program that will reduce the risk of flooding for over 2,500 structures in a pre-Atlas 1% rainfall event.
Addicks Reservoir	Local	F-55	U102-00-00	Planning, Right-Of-Way Acquisition, Design, and Construction for Ultimate Conveyance on Bear Creek	3	\$ 25,000,000	\$ -	\$ -	\$ 25,000,000	Specific benefits will be established when the project is initiated in the 4th quartile.
Addicks Reservoir	Local	F-56	U500-00-00	Right-Of-Way Acquisition, Design, and Construction of a Retention Area	4	\$ 15,000,000	\$ -	\$ -	\$ 15,000,000	Provides regional retention in accordance w/ Cypress Creek Overflow Guidelines that could reduce the risk of flooding for more than 460 structures in an Atlas 14 1% rainfall event.
Addicks Reservoir	Local	F-83	U500-00-00	Right-Of-Way Acquisition, Design and Construction of a Stormwater Detention Basin North of John Pauls Landing for the Upper Langham Creek Program	3	\$ 21,000,000	\$ -	\$ -	\$ 21,000,000	This project is part of the Upper Langham Creek Program that could reduce the risk of flooding for over 2,500 structures in a pre-Atlas 1% rainfall event.
Addicks Reservoir	Local	F-84	U102-12-00	Design and Construction of Secondary Outfall for John Pauls Landing for the Upper Langham Creek Program	3	\$ 5,000,000	\$ -	\$ -	\$ 5,000,000	This project is part of the Upper Langham Creek Program that will reduce the risk of flooding for over 2,500 structures in a pre-Atlas 1% rainfall event.
Armand Bayou	Partnership	C-06	B512-02-00	Right-Of-Way Acquisition, Design and Construction of B112-00-00 and Tributaries Conveyance Improvements	2	\$ 2,000,000	\$ 5,700,000	\$ -	\$ 7,700,000	Design and Construction of a stormwater detention basin will reduce the risk of flooding for over 400 structures in an Atlas 14 1% rainfall event.
Armand Bayou	Partnership	C-07	B509-00-00	Design and Construction of the B509-03-00 and B509-04-00 Stormwater Detention Basins	2	\$ 3,750,000	\$ 11,250,000	\$ -	\$ 15,000,000	Design and Construction of this stormwater detention basin could reduce the risk of flooding for over 400 structures in an Atlas 14 1% rainfall event.
Armand Bayou	Partnership	C-44	B100-00-00	Armand Bayou Right-of-Way Acquisition and Floodplain Preservation	2	\$ 2,000,000	\$ 2,000,000	\$ -	\$ 4,000,000	Right of way acquisition along Armand Bayou for project support, to preserve channel conveyance and / or restore natural rainfall events in areas subject to frequent flooding.
Armand Bayou	Community Input	CI-021	B112-00-00	Brookglen Flooding Mitigation Analysis	2	\$ 250,000	\$ -	\$ -	\$ 250,000	The planning study identified multiple projects with estimated cost of more than \$15 million, which are not funded at this time, that could reduce the risk of flooding for more than 400 structures in an Atlas 14 1% rainfall event. An important conclusion of the study was that local drainage improvements inside of the Brookglen neighborhood are required to significantly reduce the risk of flooding due to the "bowl" shaped topography.
Armand Bayou	Community Input	CI-023	B104-00-00	Right-Of-Way, Design and Construction of Conveyance Improvements along Horsepen Bayou	2	\$ 6,000,000	\$ -	\$ -	\$ 6,000,000	This project will reduce the 10% AEP (10-year) water surface elevation by 0.7 feet.

* 2018 Bond Funds are the Harris County voter approved \$2.5 billion bonds to finance flood reduction project over the life of the program
** Partner Funds are any potential Partner funds that can be either stand alone or leveraged contributions using 2018 Bond or District Funds
*** District Funds are Flood Control District funds not derived from the 2018 Bond that may be used to supplement program financials

LEGEND	Quartile Rank & Start Date		Project Status			
	3rd Quartile 11/20	4th Quartile 7/21	Active	Completed	New Project	Consolidated

2018 BOND PROJECTS

March 2021 Update

Last Revision - 3/19/2021

WATERSHED	TYPE	BOND ID	UNIT ID	TITLE	PRECINCT	* ESTIMATED 2018 BOND FUNDS (BF)	** ESTIMATED PARTNER FUNDS (PF)	***ESTIMATED DISTRICT FUNDS (DF)	TOTAL ESTIMATE (BF+PF+DF)	DESCRIPTION OF BENEFITS / NOTES
Armand Bayou	Local	F-72	B513-02-00	Design and Construction of the Baywood Stormwater Detention Basin	2	\$2,000,000	\$-	\$-	\$2,000,000	Construction of additional volume in this stormwater detention basin will help reduce the risk of flooding along Armand Bayou.
Armand Bayou	Partnership	F-96	B100-00-00	Investigations of General Drainage Improvements in Armand Bayou Watershed	2	\$-	\$950,000	\$140,000	\$1,090,000	This planning study identified 7 projects with estimated cost of more than \$60 million, which are not fully funded, could reduce the risk of flooding for more than 550 structures and could reduce the duration and frequency of flooding for more than 2 miles of roadway in an Atlas 14 1% rainfall event. The recommended project for implementation (Bond ID F-99) could reduce the risk of flooding for up to 50 structures in an Atlas 14 1% rainfall event.
Armand Bayou	Local	F-99	B100-00-00	Right-Of-Way, Design and Construction of Conveyance Improvements along Armand Bayou	2	\$10,000,000	\$-	\$-	\$10,000,000	This project could reduce the risk of flooding for up to 50 structures in an Atlas 14 1% rainfall event.
Barker Reservoir	Local	C-53	T100-00-00	Rehabilitation of Channels Inside of Barker Reservoir to Restore Channel Conveyance Capacity	3	\$10,000,000	\$-	\$-	\$10,000,000	Specific benefits will be established when the project is initiated in the 4th quartile.
Barker Reservoir	Local	F-52	T100-00-00	Rehabilitation of Approximately 20 Miles of Channels Upstream of Barker Reservoir to Restore Channel Conveyance Capacity	3	\$20,000,000	\$-	\$-	\$20,000,000	Major maintenance to restore channel conveyance capacity.
Brays Bayou	Partnership	C-11	D100-00-00	Design and Construction of Project Brays Corps of Engineers Section 211(f) Project	1, 2, & 3	\$-	\$75,000,000	\$1,500,000	\$76,500,000	As part of Project Brays, this project could reduce risk of flooding for up to 15,000 structures in a pre-Atlas 1% rainfall event.
Brays Bayou	Partnership	C-12	D111-00-00	Right-Of-Way, Design and Construction of Conveyance Improvements along Poor Farm Ditch	3	\$4,500,000	\$14,510,000	\$-	\$19,010,000	Specific benefits will be established when the project is initiated in the 4th quartile.
Brays Bayou	Partnership	C-13	D133-00-00	Planning, Right-Of-Way, Design and Construction of Conveyance Improvements along Bintliff Ditch	3	\$7,500,000	\$22,500,000	\$-	\$30,000,000	The planning study is complete and preliminary enigneering phases has started as a partnership project with City of Houston. The project could reduce the risk of flooding for up to 700 structures, reduce the size of the rainfall event by up to 650 acres and reduce the frequency and duration of roadway flooding for up to 5 miles in an Atlas 14 1% rainfall event.
Brays Bayou	Community Input	CI-025	D100-00-00	Investigation of Additional Stormwater Detention Basins in the Brays Bayou Watershed	1, 2, & 3	\$200,000	\$-	\$-	\$200,000	Specific benefits will be established when the project is initiated in the 4th quartile.
Brays Bayou	Community Input	CI-034	D100-00-00	Investigation of Channel Improvements Upstream of Fondren Road on Brays Bayou	3	\$250,000	\$-	\$-	\$250,000	Specific benefits will be established when the project is initiated in the 3rd quartile.
Brays Bayou	Community Input	CI-038	D115-00-00	Restore Channel Conveyance Capacity Along D115-00-00	3	\$15,000,000	\$15,000,000	\$-	\$30,000,000	Specific benefits will be established when the project is initiated in the 4th quartile.
Brays Bayou	Local	F-07	D118-00-00	Planning, Right-Of-Way Acquisition, Design, and Construction of Channel Conveyance Improvements on Keegans Bayou	1 & 3	\$32,500,000	\$-	\$-	\$32,500,000	A project could reduce the risk flooding for over 2,500 structures and could reduce the frequency and duration of flooding along about 100 miles of roadway in an Atlas 14 1% rainfall event. Project will be coordinated with City of Houston.
Brays Bayou	Local	F-08	D140-00-00	Planning, Right-Of-Way Acquisition, Design, and Construction of Channel Conveyance Improvements on Fondren Diversion Channel	1	\$30,500,000	\$-	\$-	\$30,500,000	Right of way acquisition, design and construction of this project could reduce the risk of flooding for over 400 structures in a pre-Atlas 1% rainfall event. Project will be coordinated with City of Houston.
Buffalo Bayou	Community Input	CI-009	W190-00-00	Partnership Project with Fort Bend County on Right-of-Way Acquisition, Design, and Construction of General Drainage Improvements along Clodine Ditch	3	\$15,000,000	\$15,000,000	\$-	\$30,000,000	Specific benefits will be established when the project is initiated in the 3rd quartile.
Buffalo Bayou	Community Input	CI-016	W100-00-00	Investigations of Bridges, Potential Channel Bypasses and other Alternatives along Buffalo Bayou	Countywide	\$371,420	\$-	\$-	\$371,420	The planning study identified a recommended project with an estimated cost of more than \$240 million, which is not fund, that could reduce the risk of flooding for more than 800 structures in an Atlas 14 1% rainfall event.
Buffalo Bayou	Community Input	CI-017	W100-00-00	Phased Implementation of Additional Storage and Conveyance Improvements per Recommendations of the W100-Buffalo Bayou Study	Countywide	\$30,000,000	\$-	\$-	\$30,000,000	Specific benefits will be established when the project is initiated in the 4th quartile.
Buffalo Bayou	Community Input	CI-018	W140-00-00	Rehabilitation of W140-00-00 to Restore Channel Conveyance Capacity	3	\$2,000,000	\$-	\$-	\$2,000,000	Specific benefits will be established when the project is initiated in the 4th quartile.
Buffalo Bayou	Community Input	CI-024	W500-00-00	Investigation of Effectiveness of Micro-Detention in the Buffalo Bayou Watershed	Countywide	\$200,000	\$-	\$-	\$200,000	Specific benefits will be established when the project is initiated in the 4th quartile.
Buffalo Bayou	Local	F-58	W100-00-00	Construction of Linear Detention on Buffalo Bayou	3	\$10,000,000	\$-	\$-	\$10,000,000	Reduce the risk of flooding along Buffalo Bayou with construction of additional stormwater detention volume on land already owned by the District.
Buffalo Bayou	Local	F-59	W140-00-00	Spring Branch Creek Stabilization	3	\$-	\$-	\$-	\$-	Project goals accomplished through other efforts and is now completed.
Buffalo Bayou	Local	F-79	W157-00-00	Planning, Right-Of-Way Acquisition, Design and Construction Along W157-00-00	3	\$10,000,000	\$-	\$-	\$10,000,000	Specific benefits will be established when the project is initiated in the 4th quartile.
Buffalo Bayou	Local	F-80	W141-00-00	Planning, Right-Of-Way Acquisition, Design and Construction Along Soldiers Creek	3	\$10,000,000	\$-	\$-	\$10,000,000	Specific benefits will be established when the project is initiated in the 4th quartile.

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Buffalo Bayou	Local	F-81	W151-00-00	Planning, Right-Of-Way Acquisition, Design and Construction Along W151-00-00 and W153-00-00	3	\$20,000,000	\$-	\$-	\$20,000,000	A project could reduce the risk of flooding for up to 2,000 structures, could reduce the size of the rainfall event by up to 550 acres and could reduce the frequency and duration of flooding along up to 40 miles of roadway in an Atlas 14 1% rainfall event. Project will be coordinated with City of Houston.
Buffalo Bayou	Local	F-82	W100-00-00	Demolition of 1119 Commerce Street and Slope Stabilization Along Buffalo Bayou	2	\$2,000,000	\$-	\$2,665,700	\$4,665,700	Improving the channel conveyance along Buffalo Bayou near downtown Houston and addressing public safety concerns on adjacent public streets.
Carpenters Bayou	Local	F-124	N100-00-00	Investigations of General Drainage Improvements along Carpenters Bayou	2	\$500,000	\$-	\$-	\$500,000	This planning studied identified 3 projects with estimated cost of more than \$60 million, which are not fully funded, could reduce risk of flooding for more than 300 structures in an Atlas 14 1% rainfall event. The recommended project for implementation, which is not funded, could reduce the risk of flooding for more than 100 structures in an Atlas 14 1% rainfall event.
Cedar Bayou	Local	F-123	Q100-00-00	Bond implementation Management (BIM) of the Right-of-Way Acquisition, Design and Construction in Cedar Bayou Watershed	2	\$9,200,000	\$-	\$-	\$9,200,000	Bond implementation Management of Cedar Bayou Watershed, which is not fully funded, could reduce the risk of flooding in the Cedar Bayou watershed for over 500 structures, could reduce the size of the rainfall event for more than 13,000 acres and could reduce the frequency and duration of flooding for more than 40 miles of roadways in an Atlas 14 1% rainfall event.
Cedar Bayou	Local	F-41	Q122-00-00	Right-of-Way Acquisition, Design and Construction of Channel Conveyance Improvements along Clawson Ditch Q122-00-00 and Tributaries	2	\$19,000,000	\$-	\$-	\$19,000,000	This project, part of the Cedar Bayou Watershed Bond Implementation Program, could reduce the risk of flooding for more than 30 structures, could reduce the size of the rainfall event by more than 16,000 acres and could reduce the frequency and duration of flooding for more than 4 miles of roadway in an Atlas 14 1% rainfall event.
Cedar Bayou	Local	F-42	Q114-00-00	Right-of-Way Acquisition, Design and Construction of Channel Conveyance Improvements along Magee Gully	2	\$33,000,000	\$-	\$-	\$33,000,000	This project, part of the Cedar Bayou Watershed Bond Implementation Program, could reduce the risk of flooding for up to 5 structures, could reduce the size of the rainfall event for more than 500 acres and could reduce the frequency and duration of flooding for about two miles of roadway in an Atlas 14 1% rainfall event.
Cedar Bayou	Local	F-43	Q128-00-00	Right-of-Way Acquisition, Design and Construction of Channel Conveyance Improvements along Adlong Ditch	2	\$20,000,000	\$-	\$-	\$20,000,000	This project, part of the Cedar Bayou Watershed Bond Implementation Program, could reduce the risk of flooding for more than 15 structures, could reduce the size of the rainfall event for more than 22,000 acres and could reduce the frequency and duration of flooding for more than 6 miles of roadway in an Atlas 14 1% rainfall event.
Cedar Bayou	Local	F-44	Q130-00-00	Right-of-Way Acquisition, Design and Construction of Channel Conveyance Improvements along Q130-00-00	2	\$18,000,000	\$-	\$-	\$18,000,000	This project, part of the Cedar Bayou Watershed Bond Implementation Program, is a component of a larger plan that could reduce the risk of flooding for up to 30 structures, could reduce the size of the rainfall event for up to 400 acres and could reduce the frequency and duration of flooding for more than a mile of roadway in an Atlas 14 1% rainfall event.
Cedar Bayou	Local	F-45	Q134-00-00	Planning, Right-Of-Way Acquisition, Design and Construction of Channel Conveyance Improvements on Q134-00-00 and Q134-00-01	2	\$22,000,000	\$-	\$-	\$22,000,000	This project, part of the Cedar Bayou Watershed Bond Implementation Program, is a component of a larger plan that could reduce the risk of flooding for up to 40 structures, could reduce the size of the rainfall event for up to 600 acres and could reduce the frequency and duration of flooding for about half a mile of roadway in an Atlas 14 1% rainfall event.
Cedar Bayou	Local	F-46	Q500-01-00	Right-Of-Way Acquisition, Design and Construction of the Q500-01 Stormwater Detention Basin	2	\$22,900,000	\$-	\$-	\$22,900,000	This project, part of the Cedar Bayou Watershed Bond Implementation Program, could reduce the risk of flooding for up to 300 structures, in an Atlas 14 1% rainfall event.
Cedar Bayou	Local	F-47	Q500-00-00	Right-Of-Way Acquisition, Design and Construction of Stormwater Detention Basins near Coastal Water Authority canals and IH 10	2	\$19,900,000	\$-	\$-	\$19,900,000	This project, part of the Cedar Bayou Watershed Bond Implementation Program, could reduce the risk of flooding for up to 10 structures, in a pre-Atlas 14 1% rainfall event.
Cedar Bayou	Local	F-48	Q700-01-00	Design and Construction of Crosby Eastgate Environmental Mitigation Bank	2	\$1,000,000	\$-	\$-	\$1,000,000	Restoration and enhancement of wetlands to create credits for wetland mitigation supporting construction of District projects and may be used for projects supporting District goals in coordination with other Harris County public agencies and municipalities.
Cedar Bayou	Local	F-69	Q136-00-00	Right-Of-Way Acquisition, Design and Construction of channel conveyance improvements on Q136-00-00 - Part of the Upstream Cedar Bayou Project	2	\$10,500,000	\$-	\$-	\$10,500,000	Specific benefits will be established when the project is initiated in the 3rd quartile.
Cedar Bayou	Local	F-70	Q100-00-00	Upstream Cedar Bayou Project - Right-Of-Way Acquisition, Design and Construction of Channel Conveyance Improvements and Stormwater Detention Basin Upstream of FM 1960	2	\$74,000,000	\$-	\$-	\$74,000,000	This project, part of the Cedar Bayou Watershed Bond Implementation Program, could reduce the risk of flooding for more than 60 structures, could reduce the size of the rainfall event for more than 80,000 acres and could reduce the frequency and duration of flooding for more than 25 miles of roadway in an Atlas 14 1% rainfall event.
Clear Creek	Partnership	C-03	A100-00-00	Right-Of-Way Acquisition, Design and Construction of Corps of Engineers Clear Creek Federal Flood Risk Management Project	1	\$70,000,000	\$166,352,000	\$-	\$236,352,000	This project could reduce the risk of flooding for up to 2,100 structures in a pre-Atlas 1% rainfall event.

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Clear Creek	Local	C-05	A520-03-00	Construction of South Belt Stormwater Detention Basin (A520-03-00) Along Beamer Road Ditch (A120-00-00) and Christia V. Adair Stormwater Detention Basin on Clear Creek	1	\$ 11,387,500	\$ -	\$ 7,112,500	\$ 18,500,000	This stormwater detention basin complements the Clear Creek Federal Project which will reduce the risk of flooding for over 2,100 structures in a pre-Atlas 1% rainfall event.
Clear Creek	Community Input	CI-001	A100-00-00	Rehabilitation of the Clear Creek channel to Restore Channel Conveyance Capacity	1 & 2	\$ 25,000,000	\$ -	\$ -	\$ 25,000,000	Major maintenance to restore channel conveyance capacity.
Clear Creek	Community Input	CI-003	A214-00-00	Rehabilitation of the A214-00-00 channel to Restore Channel Conveyance Capacity	1 & 2	\$ 500,000	\$ 500,000	\$ -	\$ 1,000,000	Major maintenance to restore channel conveyance capacity.
Clear Creek	Community Input	CI-013	A104-00-00	Restore Channel Conveyance Capacity on A104-00-00	2	\$ 5,000,000	\$ -	\$ -	\$ 5,000,000	Major maintenance to restore channel conveyance capacity in the city of Shoreacres.
Clear Creek	Community Input	CI-039	A100-00-00	Partnership Project with Nassau Bay to Reduce the Risk of Flooding	2	\$ 93,324	\$ -	\$ -	\$ 93,324	This partnership project reduced the risk of flooding for more than 130 structures in the City of Nassau Bay by replacing ten stormwater pumps.
Clear Creek	Community Input	CI-62	A500-00-00	Construction of the Friendswood Detention Basin Near FM 528 in Friendswood	1	\$ 5,000,000	\$ 15,000,000	\$ -	\$ 20,000,000	For feasibility analysis, Bond ID CI-63 and CI-62 were evaluated together. Feasibility conclusions: (1) Proceed with the right-of-way acquisition, design, and construction of a 39 acre stormwater detention basin holding 500 acre-feet costing \$16.8 million near FM 528; (2) Additional stormwater management solutions beyond just regional detention are needed including buyouts, improving channel conveyance, and tributary detention.
Clear Creek	Local	F-01	A135-00-00	Right-Of-Way Acquisition, Design, and Construction of Channel Conveyance Improvements on A135-00-00	1	\$ 2,500,000	\$ -	\$ -	\$ 2,500,000	Could reduce the risk of flooding and could improve local drainage issues for over 350 structures in a pre-Atlas 1% rainfall event.
Clear Creek	Local	F-02	A500-04-00	Right-Of-Way Acquisition, Design and Construction of Hughes Stormwater Detention Basin on Clear Creek	1	\$ 6,100,000	\$ -	\$ -	\$ 6,100,000	This stormwater detention basin complements the Clear Creek Federal Project which will reduce the risk of flooding for over 2,100 structures in a pre-Atlas 1% rainfall event.
Clear Creek	Local	F-76	A700-01-00	Identification, Design and Construction of the A700-01 Environmental Mitigation Bank	1	\$ 6,000,000	\$ -	\$ 650,000	\$ 6,650,000	Restoration and enhancement of wetlands on a nearly 330 acre site, which was acquired in 2020, to create credits for wetland mitigation supporting construction of District projects and may be used for projects supporting District goals in coordination with other Harris County public agencies and municipalities.
Cypress Creek	Community Input	CI-012	K100-00-00	Major Maintenance of Cypress Creek and Tributaries	3 & 4	\$ 60,000,000	\$ -	\$ -	\$ 60,000,000	Major maintenance to restore channel conveyance capacity. May include right of way acquisition, design, and construction along tributaries.
Cypress Creek	Community Input	CI-020	K500-00-00	Investigation of Potential Detention Sites Around Cypress Creek and Stuebner Airline	3 & 4	\$ -	\$ -	\$ -	\$ -	Bond ID projects CI-035, CI-36 and CI-020 were conducted together. Study conclusions were that (A) expanding K500-01-00 from 530 acre-feet to 9,300 acre-feet, (B) acquiring a stormwater detention basin near Stuebner-Airline holding 4,600 acre-feet, and (C) acquiring multiple stormwater detention basins along Cypress Creek between US 249 and Hardy Toll Road totaling 12,600 acre-feet had merit. The total cost of implementing these three conclusions would be \$642 million and could reduce the risk of flooding for more than 1,590 homes in an Atlas 14 1% rainfall event.
Cypress Creek	Community Input	CI-035	K100-00-00	Update to 2003 Texas Water Development Board Cypress Creek Tributary Study and Investigate Expanding Stormwater Detention Basins in Cypress Creek Watershed	3 & 4	\$ 600,000	\$ -	\$ 122,864	\$ 722,864	Bond ID projects CI-035, CI-36 and CI-020 were conducted together. Study conclusions were that (A) expanding K500-01-00 from 530 acre-feet to 9,300 acre-feet, (B) acquiring a stormwater detention basin near Stuebner-Airline holding 4,600 acre-feet, and (C) acquiring multiple stormwater detention basins along Cypress Creek between US 249 and Hardy Toll Road totaling 12,600 acre-feet had merit. The total cost of implementing these three conclusions would be \$642 million and could reduce the risk of flooding for more than 1,590 homes in an Atlas 14 1% rainfall event.
Cypress Creek	Community Input	CI-36	K500-01-00	Investigation of Additional Detention Volume at K500-01-00 Stormwater Detention Basin	3	\$ -	\$ -	\$ -	\$ -	Bond ID projects CI-035, CI-36 and CI-020 were conducted together. Study conclusions were that (A) expanding K500-01-00 from 530 acre-feet to 9,300 acre-feet, (B) acquiring a stormwater detention basin near Stuebner-Airline holding 4,600 acre-feet, and (C) acquiring multiple stormwater detention basins along Cypress Creek between US 249 and Hardy Toll Road totaling 12,600 acre-feet had merit. The total cost of implementing these three conclusions would be \$642 million and could reduce the risk of flooding for more than 1,590 homes in an Atlas 14 1% rainfall event.
Cypress Creek	Local	F-20	K100-00-00	Cypress Creek Right-of-Way Acquisition and Floodplain Preservation	3 & 4	\$ 100,000,000	\$ -	\$ -	\$ 100,000,000	As of January 2021, the project has purchased 134 acres of rainfall event property and more than 700 acres are in process of purchase. Additional acreage will be purchased as appropriate properties are identified.
Cypress Creek	Local	F-21	K129-00-00	Restore Channel Conveyance Capacity on K129-00-00	4	\$ -	\$ -	\$ -	\$ -	Major maintenance was successfully completed below budget utilizing CIP funds.
Cypress Creek	Local	F-22	K140-00-00	Restore Channel Conveyance Capacity Along Pillot Gully	4	\$ 2,200,000	\$ -	\$ 1,200,000	\$ 3,400,000	Major maintenance to restore channel conveyance capacity.
Cypress Creek	Local	F-23	K163-00-00	Construction of Channel Conveyance Improvements Along K163-00-00	3	\$ 3,000,000	\$ -	\$ 5,225,554	\$ 8,225,554	Provides joint-benefits of facilitating local drainage improvements and reducing the risk of flooding along the channel.

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Cypress Creek	Local	F-24	K700-01-00	Identification, Design and Construction of the K700-01 Environmental Mitigation Bank	3	\$ 9,300,000	\$ -	\$ -	\$ 9,300,000	Restoration and enhancement of wetlands to create credits for wetland mitigation supporting construction of District projects and may be used for projects supporting District goals in coordination with other Harris County public agencies and municipalities.
Cypress Creek	Local	F-88	K500-00-00	ROW Acquisition, Design and Construction of Stormwater Detention Basins in Large Buyout Areas	1, 3, & 4	\$ 25,000,000	\$ -	\$ -	\$ 25,000,000	Design and construction of stormwater detention basins in large areas of buyout to help reduce the risk of flooding in the area. Specific benefits will be determined as individual projects are initiated. Projects include detention, sediment control, vegetation management and other flood risk management projects.
Galveston Bay	Partnership	C-57	F216-00-00	Right-of-Way Acquisition, Design and Construction of General Drainage Improvements Along F216-00-00	2	\$ 8,000,000	\$ 2,000,000	\$ -	\$ 10,000,000	The project could reduce the risk of flooding for more than 450 structures in an Atlas 14 1% rainfall event.
Galveston Bay	Partnership	C-58	F101-06-00	Right-of-Way Acquisition, Design and Construction of General Drainage Improvements Along F101-06-00	2	\$ 16,000,000	\$ 4,000,000	\$ -	\$ 20,000,000	The project could reduce the risk of flooding for over 40 structures in an Atlas 14 1% rainfall event.
Galveston Bay	Partnership	F-101	F100-00-00	Investigations of General Drainage Improvements in Galveston Bay Watershed	2	\$ -	\$ 450,000	\$ -	\$ 450,000	This planning study identified 2 projects with estimated cost of more than \$5 million, which are not fully funded, that could reduce the risk of flooding for more than 80 structures, could reduce the size of the rainfall event by more than 80 acres and could reduce the duration and frequency of flooding for more than 5 miles of roadway in an Atlas 14 1% rainfall event. The recommended project for implementation, Bond ID F-98, could reduce the risk of flooding for up to 60 structures, could reduce the size of the rainfall event by more than 70 acres and could reduce the frequency and duration of flooding for more than a mile of roadway in an Atlas 14 1% rainfall event.
Galveston Bay	Local	F-98	F212-00-00	Right-of-Way Acquisition, Design and Construction of General Drainage Improvements in Galveston Bay Watershed	2	\$ 4,000,000	\$ -	\$ -	\$ 4,000,000	The project could reduce the risk of flooding for more than 50 structures, could reduce the size of the rainfall event bymore than 70 acres and could reduce the frequency and duration of flooding for more than four miles of roadway in an Atlas 14 1% rainfall event.
Goose Creek	Local	F-109	O200-00-00	Right-Of-Way Acquisition, Design, and Construction of General Drainage Improvements on Spring Gully	2	\$ 5,000,000	\$ -	\$ -	\$ 5,000,000	The project could reduce flooding for up to 10 homes, could reduce the rainfall event by more than 10 acres and could reduce the frequency and duration of flooding for more than a quarter mile of roadways in an Atlas 14 1% rainfall event.
Goose Creek	Local	F-120	O100-00-00	Right-Of-Way Acquisition, Design, and Construction of General Drainage Improvements in Goose Creek watershed	2	\$ 25,000,000	\$ -	\$ -	\$ 25,000,000	The proposed project could reduce the risk of flooding for more than 10 homes, could reduce the size of the rainfall event by more than 15 acres and reduce flooding along more than half a mile of roadway during an Atlas 14 1% AEP (100-year) event.
Goose Creek	Partnership	F-121	O100-00-00	Investigations of General Drainage Improvements in Goose Creek watershed	2	\$ -	\$ 550,000	\$ -	\$ 550,000	The planning study identified a project with three phases, with estimated cost of more than \$45 million and is not fully funded, that could reduce the risk of flooding for more than 150 homes, could reduce the size of the rainfall event by more than 150 acres and could reduce the frequency and duration of flooding for up to 3.5 miles of roadway in an Atlas 14 1% rainfall event. The first phases which is recommended and is currently funded, could reduce the risk of flooding for more than 10 structures, could reduce the size of the rainfall event by more than 15 acres and could reduce the frequency and duration of flooding for more than a half mile of roadway in an Atlas 14 1% rainfall event.
Goose Creek	Partnership	F-39	O200-00-00	Investigations of General Drainage Improvements on Spring Gully	2	\$ -	\$ 450,000	\$ 500,000	\$ 950,000	The two planning studies (a study on O119-00-00 and a study on O200-00-00) identified two projects could reduce the risk of flooding for more than 90 homes, could reduce the size of the rainfall event by more than 40 acres and could reduce the frequency and duration of flooding along up to half a mile of roadway in an Atlas 14 1% rainfall event.
Greens Bayou	Partnership	C-20	P100-00-00	Mid-Reach Greens Bayou Project - Design and Construction of Channel Conveyance Improvements along Greens Bayou	1, 2, & 4	\$ 2,000,000	\$ 18,000,000	\$ -	\$ 20,000,000	This project is one of Greens Bayou Mid Reach Project that will reduce the risk of flooding for 4,500 structures in an Atlas 14 1% rainfall event.
Greens Bayou	Partnership	C-31	P133-00-00	Design and Construction of the Smith Road Channel Diversion	4	\$ 800,000	\$ 7,200,000	\$ -	\$ 8,000,000	This project will reduce the potential for future erosion along channel P133-00-00 within Fall Creek subdivision and will reduce the risk of structural flooding for approximately 70 structures west of Smith Road during 10% AEP (10-year) storm event.
Greens Bayou	Local	C-32	P500-02-00	Design and Construction of the Cutten Road Stormwater Detention Basin Improvements	4	\$ 1,500,000	\$ -	\$ 15,500,000	\$ 17,000,000	This project will increase detention storage within Greens Bayou and reduce the 1% AEP (100-year) water surface elevation by 0.4 feet, reducing the risk of flooding for 240 acres.
Greens Bayou	Partnership	C-33	P500-04-00	Design and Construction of Aldine-Westfield Stormwater Detention Basin Improvements	1	\$ 1,510,000	\$ 13,590,000	\$ 4,000,000	\$ 19,100,000	This project is a component of the Greens Bayou Mid Reach Project that will reduce the risk of flooding for 4,500 structures in an Atlas 14 1% rainfall event.
Greens Bayou	Partnership	C-34	P500-06-00	Design and Construction of Lauder Stormwater Detention Basin Improvements	2	\$ 1,600,000	\$ 25,092,428	\$ 12,000,000	\$ 38,692,428	This project is a component of the Greens Bayou Mid Reach Project that will reduce the risk of flooding for 4,500 structures in an Atlas 14 1% rainfall event.

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Greens Bayou	Partnership	C-43	P138-01-01	Planning, Right-of-Way Acquisition, Design and Construction of Channel Conveyance Improvements along P138-01-01	2	\$ -	\$ 5,000,000	\$ -	\$ 5,000,000	Potential federal funded project, the risk of flooding could be reduced for approximately 100 structures in a pre-Atlas 1% rainfall event.
Greens Bayou	Community Input	CI-022	P130-05-01	ROW, Design, and Construction of Stormwater Detention Basin Near P130-05	1	\$ 3,000,000	\$ -	\$ -	\$ 3,000,000	Project could reduce the risk of flooding for structures near P130-05-00 & P130-05-01.
Greens Bayou	Local	F-40	P500-01-00	Repairs and Enhancements to the Lower Greens Bayou Regional Detention Embankment and Control Structure	1	\$ 5,000,000	\$ -	\$ -	\$ 5,000,000	Major maintenance to restore the embankment elevation at the Greens Bayou Regional Detention Basin (P500-01-00) to its design elevation and constructing an all-weather access road along the top of the embankment to facilitate future maintenance.
Halls Bayou	Partnership	C-01	P518-26-00	Construction of P518-26 Stormwater Detention Basin	1 & 2	\$ -	\$ 975,853	\$ -	\$ 975,853	When complete with future funding, this project could reduce the risk of flooding for more than 230 structures and could reduce the 1% rainfall event for over 100 acres as part of the Halls Ahead Bond Implementation Program.
Halls Bayou	Partnership	C-23	P118-08-00	Right-Of-Way, Design, and Construction of Channel Conveyance Improvements on P118-08-00	1	\$ 2,500,000	\$ 22,500,000	\$ -	\$ 25,000,000	This project could reduce the risk of flooding for over 210 structures and could reduce the 1% rainfall event for over 170 acres as part of the Halls Ahead Bond Implementation Program.
Halls Bayou	Partnership	C-24	P118-09-00	Right-Of-Way, Design, and Construction of Channel Conveyance Improvements on P118-09-00	1	\$ 1,200,000	\$ 10,800,000	\$ -	\$ 12,000,000	This project, part of the Halls Ahead Bond Implementation Program, could reduce the risk of flooding for more than 80 structures, could reduce the size of the floodplain by more than 30 acres and could reduce the frequency and duration of flooding of up to half a mile of roadway in an Atlas 14 1% rainfall event.
Halls Bayou	Partnership	C-25	P118-21-00	Right-Of-Way, Design, and Construction of Channel Conveyance Improvements on P118-21-00	2	\$ 5,400,000	\$ 14,636,050	\$ -	\$ 20,036,050	This project, part of the Halls Ahead Bond Implementation Program, could reduce the risk of flooding for more than 60 structures, could reduce the size of the floodplain by up to 40 acres and could reduce the frequency and duration of flooding along up to half a mile of roadway in an Atlas 14 1% rainfall event.
Halls Bayou	Partnership	C-26	P118-23-00	Right-Of-Way, Design, and Construction of Channel Conveyance Improvements on P118-23-00 and P118-23-02	1 & 2	\$ 2,800,000	\$ 25,200,000	\$ -	\$ 28,000,000	This project, part of the Halls Ahead Bond Implementation Program, could reduce the risk of flooding for more than 300 structures, could reduce the size of the floodplain by more than 200 acres and could reduce frequency and duration of flooding along more than 4 miles of roadway in an Atlas 14 1% rainfall event. This project could also facilitate future local drainage projects by others by providing additional outfall depth.
Halls Bayou	Partnership	C-28	P118-25-00	Right-Of-Way, Design, and Construction of Channel Conveyance Improvements on P118-25-00 & P118-25-01	2	\$ 2,400,000	\$ 21,600,000	\$ -	\$ 24,000,000	This project, part of the Halls Ahead Bond Implementation Program, could reduce the risk of flooding for more than 600 structures , could reduce the size of the floodplain by more than 200 acres and could reduce the frequency and duration of flooding along more than 2.5 miles of roadway in an Atlas 14 1% rainfall event. This project could also facilitate future local drainage projects by others by providing additional outfall depth.
Halls Bayou	Partnership	C-30	P118-27-00	Right-Of-Way, Design, and Construction of Channel Conveyance Improvements on P118-27-00	1	\$ 1,200,000	\$ 10,800,000	\$ -	\$ 12,000,000	This project, part of the Halls Ahead Bond Implementation Program, could reduce the risk of flooding for more than 150 structures, could reduce the size of the floodplain by more than 90 acres and reduce the frequency and duration of flooding along more than 3 miles of roadway in an Atlas 14 1% rainfall event.
Halls Bayou	Partnership	C-35	P518-10-00	Design and Construction of Stormwater Detention Basin and Associated Channel Improvements	2	\$ 800,000	\$ 6,384,960	\$ 725,000	\$ 7,909,960	This project, part of the Halls Ahead Bond Implementation Program, could reduce the risk of flooding for more than 100 structures in an Atlas 14 1% rainfall event.
Halls Bayou	Partnership	C-41	P118-00-00	Planning, Right-Of-Way, Design and Construction of Halls Bayou Flood Risk Management Project	1, 2, & 4	\$ 3,460,000	\$ 151,500,000	\$ -	\$ 154,960,000	Projects as part of the Halls Ahead Bond Implementation Program, could reduce the risk of flooding for more than 700 structures in an Atlas 14 1% rainfall event.
Halls Bayou	Community Input	CI-006	P118-00-00	Design and Construction of a Stormwater Detention Basin in Brock Park	1	\$ 5,000,000	\$ 5,000,000	\$ -	\$ 10,000,000	Provides additional stormwater detention in support of flood damage reduction as part of the Halls Ahead Bond Implementation Program. The project will be a partnership with the City of Houston.
Halls Bayou	Local	F-122	P118-00-00	Bond implementation Management (BIM) of the Right-of-Way Acquisition, Design and Construction in Halls Bayou Watershed	1, 2, & 4	\$ 48,040,000	\$ -	\$ -	\$ 48,040,000	The Bond implementation Management of Halls Ahead Program could reduce the risk of flooding along Halls Bayou for over 2,800 structures in an Atlas 14 1% rainfall event.
Hunting Bayou	Partnership	C-18	H100-00-00	Design and Construction of Corps of Engineers Hunting Bayou, Section 211(f) Project	1	\$ -	\$ 65,000,000	\$ -	\$ 65,000,000	The pre-Atlas 1% rainfall event will be removed from up to 4,450 structures and 4 road miles as part of the federal project.
Hunting Bayou	Community Input	CI-031	H103-00-00	District Cost Share of Study with the City of Houston on Wallisville Outfall	1 & 2	\$ 500,000	\$ -	\$ -	\$ 500,000	Study will investigate flooding problems and identify potential solutions along the H103-00-00 channel. Project will be coordinated with City of Houston.
Hunting Bayou	Community Input	CI-59	H102-00-00	Planning, Right-Of-Way, Design and Construction of a Diversion Channel from H102-00-00 to H100-00-00 through Galena Park	2	\$ 10,000,000	\$ -	\$ -	\$ 10,000,000	Specific benefits will be established when the project is initiated in the 4th quartile.
Hunting Bayou	Local	F-17	H103-00-00	Right-Of-Way Acquisition, Design and Construction of Wallisville Outfall	1 & 2	\$ 10,000,000	\$ -	\$ -	\$ 10,000,000	The project could reduce the risk of flooding for over 140 structures in a pre-Atlas 1% rainfall event.
Jackson Bayou	Local	F-107	R100-00-00	Right-of-Way Acquisition, Design and Construction of General Drainage Improvements in Jackson Bayou Watershed	2	\$ 10,000,000	\$ -	\$ -	\$ 10,000,000	Design and construction of a project to reduce the risk of flooding in the Jackson Bayou watershed for more than 90 structures in an Atlas 14 1% rainfall event.

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Jackson Bayou	Partnership	F-73	R100-00-00	Investigations of General Drainage Improvements in Jackson Bayou Watershed	2	\$ -	\$ 450,000	\$ -	\$ 450,000	The planning study identified 5 projects that could reduce the risk of flooding for as many as 100 homes, could reduce the size of the floodplain by more than 30 acres and reduce the frequency and duration of flooding for more than a mile of roadway in an Atlas 14 1% rainfall event. The recommended project, that is currently funded with Bond ID F-107, could reduce the risk of flooding for up to 60 homes, could reduce the size of the floodplain by up to 6 acres and could reduce the frequency and duration of more than half a mile of roadway in an Atlas 14 1% rainfall event.
Little Cypress Creek	Partnership	F-26	L100-00-00	Management, Right-of-Way Acquisition, Design and Construction of the Little Cypress Creek Frontier Program	3	\$ 32,075,000	\$ 19,303,586	\$ -	\$ 51,378,586	This project is part of the Little Cypress Creek Frontier program that will reduce the risk of flooding in the Little Cypress Creek watershed for more than 3,200 structures in an Atlas 14 1% rainfall event and will reduce that rainfall event by more than 5,800 acres. Projects include detention, sediment control, vegetation management and other flood risk management projects.
Little Cypress Creek	Partnership	F-27	L500-01-00	Design and Construction of Zube Park Stormwater Detention Basin	3	\$ 9,250,000	\$ 1,532,838	\$ -	\$ 10,782,838	This project is part of the Little Cypress Creek Frontier program that will reduce the risk of flooding in the Little Cypress Creek watershed for more than 3,200 structures in an Atlas 14 1% rainfall event and will reduce that rainfall event by more than 5,800 acres.
Little Cypress Creek	Local	F-28	L500-02-00	Right-Of-Way Acquisition, Design, and Construction of Kluge Stormwater Detention Basin	4	\$ 11,000,000	\$ -	\$ -	\$ 11,000,000	This project is part of the Little Cypress Creek Frontier program that will reduce the risk of flooding in the Little Cypress Creek watershed for more than 3,200 structures in an Atlas 14 1% rainfall event and will reduce that rainfall event by more than 5,800 acres.
Little Cypress Creek	Local	F-29	L500-06-00	Right-Of-Way Acquisition, Design, and Construction of Mueschke East Stormwater Detention Basin	3	\$ 15,900,000	\$ -	\$ -	\$ 15,900,000	This project is part of the Little Cypress Creek Frontier program that will reduce the risk of flooding in the Little Cypress Creek watershed for more than 3,200 structures in an Atlas 14 1% rainfall event and will reduce that rainfall event by more than 5,800 acres.
Little Cypress Creek	Local	F-30	L500-09-00	Right-Of-Way Acquisition, Design, and Construction of Schiel Stormwater Detention Basin	3	\$ 16,000,000	\$ -	\$ -	\$ 16,000,000	This project is part of the Little Cypress Creek Frontier program that will reduce the risk of flooding in the Little Cypress Creek watershed for more than 3,200 structures in an Atlas 14 1% rainfall event and will reduce that rainfall event by more than 5,800 acres.
Little Cypress Creek	Local	F-31	L500-10-00	Construction of Mueschke West Stormwater Detention Basin Improvements	3	\$ 10,600,000	\$ -	\$ -	\$ 10,600,000	This project is part of the Little Cypress Creek Frontier program that will reduce the risk of flooding in the Little Cypress Creek watershed for more than 3,200 structures in an Atlas 14 1% rainfall event and will reduce that rainfall event by more than 5,800 acres.
Little Cypress Creek	Local	F-32	L500-11-00	Construction of Hegar Stormwater Detention Basin Improvements	3	\$ 11,800,000	\$ -	\$ -	\$ 11,800,000	This project is part of the Little Cypress Creek Frontier program that will reduce the risk of flooding in the Little Cypress Creek watershed for more than 3,200 structures in an Atlas 14 1% rainfall event and will reduce that rainfall event by more than 5,800 acres.
Little Cypress Creek	Local	F-33	L512-01-00	Construction of Kleb Woods Stormwater Detention Basin Improvements	3	\$ 3,700,000	\$ -	\$ -	\$ 3,700,000	This project is part of the Little Cypress Creek Frontier program that will reduce the risk of flooding in the Little Cypress Creek watershed for more than 3,200 structures in an Atlas 14 1% rainfall event and will reduce that rainfall event by more than 5,800 acres.
Little Cypress Creek	Local	F-34	L512-03-00	ROW, Design, and Construction of Mason Stormwater Detention Basin in Little Cypress Creek watershed	3	\$ 13,000,000	\$ -	\$ -	\$ 13,000,000	This project is part of the Little Cypress Creek Frontier program that will reduce the risk of flooding in the Little Cypress Creek watershed for more than 3,200 structures in an Atlas 14 1% rainfall event and will reduce that rainfall event by more than 5,800 acres.
Little Cypress Creek	Local	F-35	L514-01-00	Construction of Bauer-Hockley Stormwater Detention Basin Improvements	3	\$ 3,850,000	\$ -	\$ 740,000	\$ 4,590,000	This project is part of the Little Cypress Creek Frontier program that will reduce the risk of flooding in the Little Cypress Creek watershed for more than 3,200 structures in an Atlas 14 1% rainfall event and will reduce that rainfall event by more than 5,800 acres.
Little Cypress Creek	Local	F-89	L500-00-00	Design and Construction of Additional Volume in Little Cypress Creek Stormwater Detention Basins	3 & 4	\$ 16,750,000	\$ -	\$ -	\$ 16,750,000	This project is part of the Little Cypress Creek Frontier program that will reduce the risk of flooding in the Little Cypress Creek watershed for more than 3,200 structures in an Atlas 14 1% rainfall event and will reduce that rainfall event by more than 5,800 acres.
Luce Bayou	Local	F-108	S100-00-00	Right-of-Way Acquisition, Design and Construction of General Drainage Improvements in Luce Bayou Watershed	2	\$ 10,000,000	\$ -	\$ -	\$ 10,000,000	Design and construction of projects to reduce the risk of flooding in the Luce Bayou watershed for more than 80 structures in an Atlas 14 1% rainfall event.
Luce Bayou	Local	F-110	S200-00-00	Planning, Right-Of-Way Acquisition, Design and Construction of General Drainage Improvements Near Huffman	2	\$ 10,000,000	\$ -	\$ -	\$ 10,000,000	The project, that is not fully funded, could reduce the risk of flooding for more than 20 homes, could reduce the floodplain by more than 1,700 acres and could reduce the frequency and duration of flooding for more than 5 miles of roadway in an Atlas 14 1% rainfall event.
Luce Bayou	Local	F-51	S100-00-00	Luce Bayou Right-of-Way Acquisition and Floodplain Preservation	2	\$ 10,000,000	\$ -	\$ -	\$ 10,000,000	Right of way acquisition along Luce Bayou for project support, to preserve channel conveyance and / or restore natural floodplains in areas subject to frequent flooding.
Luce Bayou	Partnership	F-85	S100-00-00	Investigations of General Drainage Improvements along Luce Bayou	2	\$ -	\$ 450,000	\$ -	\$ 450,000	The planning study identified 11 projects that could reduce the risk of flooding for up to 180 homes, could reduce the size of the floodplain for more than 40 acres and could reduce the frequency and duration of flooding for more than 10 miles of roadway in an Atlas 14 1% rainfall event. The recommended project, that is currently funded under Bond ID F-51, could reduce the risk of flooding for more than 20 homes and could reduce the size of the floodplain by up to 5 acres in an Atlas 14 1% rainfall event.

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San Jacinto River	Partnership	C-17	G103-00-00	San Jacinto River Watershed Study	1, 2, & 4	\$ 625,000	\$ 2,708,208	\$ -	\$ 3,333,208	The planning study identified 4 projects that are located fully or partially in Harris County, which are not funded, that could reduce the risk of flooding for more than 1,200 structures, could reduce the size of the floodplain by more than 5,000 acres and could reduce the frequency and duration of flooding more more than 60 miles of roadway in an Atlas 14 1% rainfall event.
San Jacinto River	Partnership	C-50	G103-00-00	Funding for Future Partnership Projects Based on Results of Study - for Right-of-Way Acquisition, Design, and Construction of General Drainage Improvements in San Jacinto River Watershed Study	1, 2, & 4	\$ 18,750,000	\$ 56,250,000	\$ -	\$ 75,000,000	Specific benefits will be established when the project is initiated in the 3rd quartile.
San Jacinto River	Community Input	CI-019	G103-00-00	Investigations of Potential Detention Sites Around Glendale Dredge Site in Partnership with the City of Houston	1	\$ 50,000	\$ 50,000	\$ -	\$ 100,000	Specific benefits will be established when the project is initiated in the 3rd quartile.
San Jacinto River	Community Input	CI-028	G103-00-00	Design and Construction of Additional Gates on Lake Houston in Partnership with the City of Houston	1, 2, & 4	\$ 20,000,000	\$ 50,000,000	\$ -	\$ 70,000,000	Design and construction of additional gates which could enhance the operation of Lake Houston for reduction of flood risk along the San Jacinto River. Project will be led by the City of Houston.
San Jacinto River	Community Input	CI-60	G112-00-00	Planning, Right-Of-Way, Design and Construction of Conveyance Improvements along Panther Creek	1 & 2	\$ 10,000,000	\$ -	\$ -	\$ 10,000,000	A project could reduce the risk of flooding for more than 300 structures in an Atlas 14 1% rainfall event.
San Jacinto River	Community Input	CI-61	G103-00-00	East Fork, West Fork and Lake Houston Dredging	1, 2, & 4	\$ 10,000,000	\$ 40,000,000	\$ -	\$ 50,000,000	Specific benefits will be established when the project is initiated in the 4th quartile.
San Jacinto River	Local	F-111	G103-00-00	Planning, Right-Of-Way Acquisition, Design and Construction of General Drainage Improvements East of Lake Houston	2	\$ 10,000,000	\$ -	\$ -	\$ 10,000,000	Specific benefits will be established when the project is initiated in the 3rd quartile.
San Jacinto River	Local	F-14	G103-00-00	Planning, Right-Of-Way Acquisition, Design and Construction of General Drainage Improvements Near Kingwood	4	\$ 10,000,000	\$ -	\$ -	\$ 10,000,000	The planning study identified 8 projects, with an estimated cost of more than \$140 million, which are not fully funded, could reduce the risk flooding for more than 450 homes from flooding during in an Atlas 14 1% rainfall event and could facilitate local drainage projects by others that could benefit for more than 800 additional structures. The recommended projects along the Kingwood Diversion Channel and Taylor Gully could reduce the risk of flooding for more than 400 structures in an Atlas 14 1% rainfall event.
San Jacinto River	Local	F-15	G103-00-00	Planning, Right-Of-Way Acquisition, Design and Construction of General Drainage Improvements Near Atascocita	2	\$ 10,000,000	\$ -	\$ -	\$ 10,000,000	Specific benefits will be established when the project is initiated in the 4th quartile.
Sims Bayou	Partnership	C-08	C118-00-00	Right-Of-Way Acquisition, Design, and Construction of Stormwater Detention Basin and Channel Conveyance Improvements along Salt Water Ditch	1	\$ 12,500,000	\$ 37,500,000	\$ -	\$ 50,000,000	The project could reduce the risk of flooding for over 1,900 structures near C118-00-00 in a pre-Atlas 1% rainfall event. Project will be coordinated with City of Houston.
Sims Bayou	Partnership	C-09	C147-00-00	Right-Of-Way Acquisition, Design, and Construction of South Post Oak Stormwater Detention Basin and Channel Conveyance Improvements along C147-00-00	1	\$ 4,542,500	\$ 13,627,500	\$ -	\$ 18,170,000	The project could reduce the risk of flooding for more than 150 homes in Harris County during a pre-Atlas 14 1% rainfall event.
Sims Bayou	Partnership	C-10	C506-01-00	Design and Construction of South Shaver Stormwater Detention Basin	2	\$ 3,750,000	\$ 11,250,000	\$ -	\$ 15,000,000	This project could reduce the risk of flooding for more than 440 structures in an Atlas 14 1% rainfall event. Project will be coordinated with City of Houston.
Sims Bayou	Community Input	CI-027	C106-00-00	Planning, Right-Of-Way Acquisition, Design, and Construction of Improvements for the Tributaries of C106-00-00	2	\$ 2,000,000	\$ -	\$ -	\$ 2,000,000	The project could reduce the risk of flooding for structures along tributaries of C106-00-00. Project will be coordinated with City of South Houston and City of Houston.
Sims Bayou	Community Input	CI-029	C102-00-00	Restore Channel Conveyance Capacity Along C102-00-00	2	\$ 15,000,000	\$ 15,000,000	\$ -	\$ 30,000,000	Partnership project with the City of Houston to restore conveyance along C102-00-00.
Sims Bayou	Community Input	CI-037	C146-00-00	Restore Channel Conveyance Capacity Along C146-00-00	1	\$ 15,000,000	\$ 15,000,000	\$ -	\$ 30,000,000	Specific benefits will be established when the project is initiated in the 4th quartile.
Sims Bayou	Local	F-92	C116-00-00	Planning, Right-Of-Way Acquisition, Design and Construction Along C116-00-00	1	\$ 10,000,000	\$ -	\$ -	\$ 10,000,000	Could reduce the risk of flooding and could facilitate local drainage projects by others. Project will be coordinated with City of Houston.
Sims Bayou	Local	F-93	C124-00-00	Planning, Right-Of-Way Acquisition, Design and Construction Along C124-00-00	1	\$ 10,000,000	\$ -	\$ -	\$ 10,000,000	Specific benefits will be established when the project is initiated in the 3rd quartile.
Sims Bayou	Local	F-94	C143-00-00	Planning, Right-Of-Way Acquisition, Design and Construction Along C143-00-00	1	\$ 10,000,000	\$ -	\$ -	\$ 10,000,000	Could reduce the risk of flooding and could facilitate future local drainage projects by others.
Sims Bayou	Local	F-95	C144-00-00	Planning, Right-Of-Way Acquisition, Design and Construction Along C144-00-00	1	\$ 10,000,000	\$ -	\$ -	\$ 10,000,000	Could reduce the risk of flooding and could improve local drainage issues for structures along the channel.
Spring Creek	Partnership	C-118	J100-00-00	Planning, Right-of-Way Acquisition, Design and Construction of a Reservoir along Spring Creek	3 & 4	\$ 12,500,000	\$ 12,500,000	\$ -	\$ 25,000,000	Specific benefits will be established when the project is initiated in the 3rd quartile.
Spring Creek	Local	F-119	J100-00-00	Right-of-Way Acquisition, Design and Construction of General Drainage Improvements along Spring Creek	3 & 4	\$ 10,000,000	\$ -	\$ -	\$ 10,000,000	The proposed project could remove the floodplain from up to 5 structures, could reduce the floodplain by more than 5 acres and could reduce the frequency and duration of flooding from up to a mile of roadway in an Atlas 14 1% rainfall event.
Spring Creek	Local	F-19	J100-00-00	Spring Creek Right-of-Way Acquisition and Floodplain Preservation	3 & 4	\$ 50,000,000	\$ -	\$ -	\$ 50,000,000	As of January 2021, the project has purchased 26 acres of floodplain property and more than 100 acres are in process of purchase. Additional acreage will be purchased as appropriate properties are identified.

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Spring Creek	Partnership	F-75	J100-00-00	Investigations of General Drainage Improvements along Spring Creek	3 & 4	\$ -	\$ 450,000	\$ -	\$ 450,000	The planning study identified 5 projects that could reduce the risk of flooding for more than 20 homes, could reduce the size of the floodplain by up to 100 acres and could reduce the frequency and duration of flooding from up to 6 miles of roadways in an Atlas 14 1% rainfall event. The recommended project , that is currently funded with Bond ID F-119, could reduce the risk of flooding for up to 5 homes, could reduce the size of the floodplain by more than 5 acres and could reduce the frequency and duration of flooding for up to 1 mile of roadway in an Atlas 14 1% rainfall event.
Vince Bayou	Local	F-104	I100-00-00	Right-of-Way Acquisition, Design and Construction of General Drainage Improvements in Vince Bayou Watershed	2	\$ 15,000,000	\$ -	\$ -	\$ 15,000,000	This project could reduce the risk of flooding for more than 50 structures and could reduce the frequency and duration of flooding for more than 5 miles roadway in an Atlas 14 1% rainfall event.
Vince Bayou	Partnership	F-78	I100-00-00	Investigations of General Drainage Improvements in Vince Bayou Watershed	2	\$ -	\$ 550,000	\$ -	\$ 550,000	The planning study identified 10 projects with estimated to cost of more than \$60 million, which are not fully funded, that could reduce the risk of flooding more than 150 structures and could reduce the frequency and duration of flooding for more than 19 miles of roadway in an Atlas 14 1% rainfall event. The recommended project for implementation (Bond ID F-104) could reduce the risk of flooding for more than 50 structures and could reduce the frequency and duration of flooding for more than 5 miles of roadway in an Atlas 14 1% rainfall event.
White Oak Bayou	Partnership	C-14	E100-00-00	Design and Construction of Corps of Engineers White Oak Bayou Section 211(f) Project	1 & 4	\$ -	\$ 45,000,000	\$ -	\$ 45,000,000	The pre-Atlas 1% rainfall event could be removed from up to 1,500 structures as part of the federal project.
White Oak Bayou	Partnership	C-15	E500-00-00	Design and Construction of Arbor Oaks Stormwater Detention Basin	1	\$ 2,500,000	\$ 10,800,000	\$ -	\$ 13,300,000	This stormwater detention basin compliments the federal project on White Oak Bayou which will reduce the risk of flooding for 1,800 structures in an Atlas 14 1% rainfall event. Project will be coordinated with City of Houston.
White Oak Bayou	Partnership	C-16	E500-00-00	Design and Construction of Woodland Trails Stormwater Detention Basin	4	\$ 7,750,000	\$ 48,660,000	\$ -	\$ 56,410,000	This stormwater detention basin compliments the federal project on White Oak Bayou which will reduce the risk of flooding for 1,800 structures in an Atlas 14 1% rainfall event.
White Oak Bayou	Partnership	C-39	E200-02-00	Right-of-Way Acquisition, Design and Construction of the North Canal	2	\$ 20,000,000	\$ 111,249,359	\$ -	\$ 131,249,359	Design and construction of this project will reduce the risk of flooding upstream and downstream of downtown Houston. Project will be led by City of Houston.
White Oak Bayou	Partnership	C-59	E500-21-00	Construction of Inwood Forest Stormwater Detention Basin	1	\$ 12,000,000	\$ 35,000,000	\$ -	\$ 47,000,000	Design and construction of this project will reduce the risk of flooding for over 130 structures and approximately 220 acres in a pre-Atlas 1% rainfall event. Project will be coordinated with City of Houston.
White Oak Bayou	Community Input	CI-010	E127-00-00	Partnership Project with Jersey Village on Right-of-Way Acquisition, Design, and Construction of General Drainage Improvements along E127-00-00	4	\$ 1,500,000	\$ 1,500,000	\$ -	\$ 3,000,000	Specific benefits will be established when the project is initiated in the 3rd quartile.
White Oak Bayou	Community Input	CI-011	E100-00-00	Partnership Project with the City of Houston for Feasibility Study of General Drainage Improvements around Hidden Lake Townhomes	4	\$ 175,000	\$ 175,000	\$ -	\$ 350,000	The planning study in partnership with the City of Houston will evaluate general drainage improvements that could reduce the risk of flooding for more than 80 homes in Hidden Lakes Townhomes in an Atlas 14 1% rainfall event.
White Oak Bayou	Community Input	CI-030	E106-00-00	Right-of-Way Acquisition, Design and Construction of General Drainage Improvements along Turkey Gully	4	\$ 10,000,000	\$ 30,000,000	\$ -	\$ 40,000,000	Specific benefits will be established when the project is initiated in the 3rd quartile.
White Oak Bayou	Community Input	CI-032	E500-00-00	Investigation of Additional Stormwater Detention Basins in the White Oak Bayou Watershed	Countywide	\$ 125,000	\$ 125,000	\$ -	\$ 250,000	Specific benefits will be established when the project is initiated in the 3rd quartile.
White Oak Bayou	Community Input	CI-033	E105-00-00	Partnership Project with City of Houston on Planning, Right-of-Way Acquisition, Design, and Construction of General Drainage Improvements along E105-00-00	4	\$ 1,000,000	\$ 1,000,000	\$ -	\$ 2,000,000	Planning, right of way acquisition, design and construction of this project could reduce the risk of flooding for homes along E105-00-00. Project will be coordinated with the City of Houston.
White Oak Bayou	Local	F-09	E101-00-00	Planning, Right-Of-Way Acquisition, Design and Construction of Little White Oak Bayou Channel Conveyance Improvements	1 & 2	\$ 30,000,000	\$ -	\$ -	\$ 30,000,000	Planning, right of way acquisition, design and construction of this project could reduce the risk of flooding for over 1,150 structures in a pre-Atlas 1% rainfall event.
White Oak Bayou	Local	F-10	E115-00-00	Right-Of-Way Acquisition, Design, and Construction of Channel Conveyance Improvements on Brickhouse Gully	4	\$ 35,000,000	\$ -	\$ -	\$ 35,000,000	Right of way acquisition, design and construction of this project could reduce the risk of flooding for over 1,300 structures in a pre-Atlas 1% rainfall event. Project will be coordinated with City of Houston.
Willow Creek	Local	F-106	M100-00-00	Right-of-Way Acquisition, Design and Construction of General Drainage Improvements in Willow Creek Watershed	3 & 4	\$ 15,000,000	\$ -	\$ -	\$ 15,000,000	Design and construction of projects to reduce the risk of flooding in the Willow Creek watershed for more than 170 structures in an Atlas 14 1% rainfall event.
Willow Creek	Local	F-36	M100-00-00	Willow Creek Right-of-Way Acquisition and Floodplain Preservation	3 & 4	\$ 30,000,000	\$ -	\$ -	\$ 30,000,000	As of January 2021, the project has purchased 67 acres of floodplain property and up to 40 acres are in process of purchase. Additional acreage will be purchased as appropriate properties are identified.
Willow Creek	Partnership	F-37	M124-00-00	Design and Construction of Channel Conveyance Improvements on M124-00-00 Downstream of SH 249	4	\$ 21,000,000	\$ 63,000,000	\$ -	\$ 84,000,000	This partnership project will reduce the risk of flooding affecting roadways near M124-00-00 including SH 249, FM 2920 and other local roads.

** 2018 Bond Funds are the Harris County voter approved \$2.5 billion bonds to finance flood reduction project over the life of the program*
*** Partner Funds are any potential Partner funds that can be either stand alone or leveraged contributions using 2018 Bond or District Funds*
**** District Funds are Flood Control District funds not derived from the 2018 Bond that may be used to supplement program financials*

LEGEND	Quartile Rank & Start Date		Project Status			
	3rd Quartile 11/20	4th Quartile 7/21	Active	Completed	New Project	Consolidated

2018 BOND PROJECTS
March 2021 Update

Last Revision - 3/19/2021

WATERSHED	TYPE	BOND ID	UNIT ID	TITLE	PRECINCT	* ESTIMATED 2018 BOND FUNDS (BF)	** ESTIMATED PARTNER FUNDS (PF)	***ESTIMATED DISTRICT FUNDS (DF)	TOTAL ESTIMATE (BF+PF+DF)	DESCRIPTION OF BENEFITS / NOTES
Willow Creek	Local	F-38	M528-01-00	Design and Construction of Cypress Rosehill Stormwater Detention Basin	4	\$1,100,000	\$-	\$-	\$1,100,000	Providing joint-benefits of mitigating impacts of roadway construction and could reduce the risk of flooding for homes in the surrounding area. Projects could include, but not limited to, detention, sediment control, vegetation management, and other flood risk management projects.
Willow Creek	Partnership	F-71	M100-00-00	Investigations of General Drainage Improvements in Willow Creek Watershed	3 & 4	\$-	\$800,000	\$-	\$800,000	The planning study identified improvement projects, costing more than \$260 million which is not funded, that could reduce the risk of flooding for more than 400 structures, could reduce the size of the floodplain by up to 250 acres and could reduce the frequency and duration of flooding for more than 4 miles of roadway in an Atlas 14 1% rainfall event. The recommended project, that is currently funded, could reduce the risk of flooding for more than 200 structures, could reduce the size of the floodplain by more than 200 acres and could reduce the frequency and duration of flooding for up to 4 miles in an Atlas 14 1% rainfall event.
Countywide	Community Input	CI-026	Z100-00-00	Investigation of City of Houston Properties for Conversion to Stormwater Detention Basins	Countywide	\$250,000	\$250,000	\$-	\$500,000	Design and construction of stormwater detention basins on various City of Houston properties could reduce the risk of flooding in the area. Specific benefits will be determined as individual projects are initiated. Projects include detention, sediment control, vegetation management and other flood risk management projects.
Countywide	Local	Z-01	Z100-00-00	Countywide Floodplain Preservation and Right of Way Acquisition	Countywide	\$50,000,000	\$-	\$-	\$50,000,000	Right of way acquisition along various channels in Harris County in support of District projects and preserve channel conveyance and / or restore natural rainfall events in areas subject to frequent flooding.
Countywide	Partnership	Z-02	Z100-00-00	Partnership Projects with Municipalities, Authorities, and Other Districts in Harris County	Countywide	\$175,000,000	\$17,359,452	\$-	\$192,359,452	Jointly funded projects to address flooding with multi-jurisdictional projects. Specific project benefits will be determined as projects are initiated.
Countywide	Partnership	Z-03	Z100-00-00	Countywide Ongoing Planning	Countywide	\$9,500,000	\$2,400,000	\$-	\$11,900,000	Ongoing efforts to identify future projects and work efforts to reduce flooding in Harris County watersheds.
Countywide	Local	Z-04	Z100-00-00	Partnership Projects with the Harris County Engineering Department	Countywide	\$100,000,000	\$-	\$-	\$100,000,000	Jointly funded projects that could reduce the risk of flooding in conjunction with Harris County Engineering Department projects.
Countywide	Local	Z-05	Z100-00-00	Advanced Emerging Technologies for Flood Damage Reduction	Countywide	\$25,000,000	\$-	\$-	\$25,000,000	Investigations of new methods to reduce the risk of flooding and associated damages in Harris County. This can include the use of native vegetation to stabilize channel banks and reduce erosion.
Countywide	Local	Z-06	Z100-00-00	Bond Administration	Countywide	\$10,000,000	\$-	\$-	\$10,000,000	Bond administration with legal and financial professional services
Countywide	Local	Z-07	Z100-00-00	Contingency	Countywide	\$8,116,506	\$-	\$-	\$8,116,506	Contingency funds reduced to bring balance of the total 2018 Bond Funding to the \$2.5 billion limit.
Countywide	Partnership	Z-08	Z100-00-00	Preliminary Engineering for Large Diameter Tunnels for Stormwater Conveyance	Countywide	\$20,000,000	\$2,820,000	\$-	\$22,820,000	Preliminary engineering for implementation of large diameter tunnels to reduce the risk of flooding across Harris County.
Countywide	Partnership	Z-09	Z100-00-00	Upgrades and Expansion of the Harris County Flood Warning System	Countywide	\$1,250,000	\$1,310,019	\$-	\$2,560,019	Improving existing flood monitoring systems to provide near-real time information on flooding in Harris County for emergency managers, public officials, first responders, and the public.
Countywide	Partnership	Z-10	Z100-00-00	Maapnext - Harris County Floodplain Mapping Updates	Countywide	\$12,500,000	\$12,800,000	\$3,000,000	\$28,300,000	The project will provide more accurate information on the risks of flooding in Harris County including a web-based flood education tool. Draft maps for public review are scheduled for release in the first quarter of 2022.
Countywide	Local	Z-11	Z100-00-00	Countywide Communications Relating to 2018 Bond and CIP Projects	Countywide	\$10,000,000	\$-	\$-	\$10,000,000	Providing transparency with countywide and watershed level communications by engaging with the public about 2018 Bond projects.
Countywide	Buyout	Z-Buyout	Z100-00-00	Federal Grant-Funded Volunteer Home Buyouts	Countywide	\$144,125,000	\$387,300,000	\$-	\$531,425,000	As of January 2021, 625 properties (about 180 acres) have been purchased and more than 600 properties (more than 100 acres) are in the process of purchase.
Countywide	Storm Repair	Z-StormRep	Z100-00-00	Countywide Storm Repairs in Harris County	Countywide	\$20,070,000	\$76,200,500	\$5,500,000	\$101,770,500	Completion to date of nearly 800 damaged sites within Harris County resulting from Hurricane Harvey. Continued efforts under this project for the repairs of erosion and infrastructure in Harris County.
Countywide	Subdivision Drainage Improvement	Z-Subdiv	Z100-00-00	Harris County Engineering Department Countywide Subdivision Drainage Improvement Projects	Countywide	\$115,233,750	\$376,345,151	\$-	\$491,578,901	Design and construction of these projects could reduce the risk of flooding for over 45,300 homes during a pre-Atlas 14 1% rainfall event.
						\$2,500,000,000	\$2,396,457,904	\$60,581,618	\$4,957,039,522	

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LEGEND	Quartile Rank & Start Date		Project Status			
	3rd Quartile 11/20	4th Quartile 7/21	Active	Completed	New Project	Consolidated

2018 Bond Project List March 2021 Update
2018 Bond Project List Comparison - Version May 2020 to Version March 2021

Change Notes

\$	(107,662,152)	Added District Funding to Projects
\$	-	Total Delta

			Current as Approved by Court				
Bond ID	Type	Watershed	Precinct	Bond	Partner	District	Total
C-36	Partnership	Addicks Reservoir	3	\$ 1,000,000	\$ 9,000,000	-	\$ 10,000,000
C-37	Partnership	Addicks Reservoir	4	\$ 500,000	\$ 2,500,000	-	\$ 3,000,000
C-38	Partnership	Addicks Reservoir	4	\$ 3,750,000	\$ 11,250,000	-	\$ 15,000,000
C-40	Partnership	Addicks Reservoir	Countywide	\$ -	\$ 6,000,000	-	\$ 6,000,000
C-46	Partnership	Addicks Reservoir	3	\$ 1,600,000	\$ 14,400,000	-	\$ 16,000,000
C-47	Partnership	Addicks Reservoir	3	\$ 1,500,000	\$ 13,500,000	-	\$ 15,000,000
C-48	Partnership	Addicks Reservoir	3	\$ 9,400,000	\$ 84,600,000	-	\$ 94,000,000
C-52	Local	Addicks Reservoir	3	\$ 10,000,000	\$ -	-	\$ 10,000,000
F-112	Local	Addicks Reservoir	3 & 4	\$ 20,000,000	\$ -	-	\$ 20,000,000
F-53	Local	Addicks Reservoir	3	\$ 40,000,000	\$ -	-	\$ 40,000,000
F-54	Local	Addicks Reservoir	3	\$ 10,000,000	\$ -	-	\$ 10,000,000
F-55	Local	Addicks Reservoir	3	\$ 25,000,000	\$ -	-	\$ 25,000,000
F-56	Local	Addicks Reservoir	4	\$ 15,000,000	\$ -	-	\$ 15,000,000
F-83	Local	Addicks Reservoir	3	\$ 21,000,000	\$ -	-	\$ 21,000,000
F-84	Local	Addicks Reservoir	3	\$ 5,000,000	\$ -	-	\$ 5,000,000
C-06	Partnership	Armand Bayou	2	\$ 2,000,000	\$ 5,700,000	-	\$ 7,700,000
C-07	Partnership	Armand Bayou	2	\$ 3,750,000	\$ 11,250,000	-	\$ 15,000,000
C-44	Partnership	Armand Bayou	2	\$ 2,000,000	\$ 2,000,000	-	\$ 4,000,000
CI-021	Community Input	Armand Bayou	2	\$ 250,000	\$ -	-	\$ 250,000
CI-023	Community Input	Armand Bayou	2	\$ 6,000,000	\$ -	-	\$ 6,000,000
F-72	Local	Armand Bayou	2	\$ 2,000,000	\$ -	-	\$ 2,000,000
F-96	Partnership	Armand Bayou	2	\$ -	\$ 950,000	-	\$ 950,000
F-99	Local	Armand Bayou	2	\$ 10,000,000	\$ -	-	\$ 10,000,000
C-53	Local	Barker Reservoir	3	\$ 10,000,000	\$ -	-	\$ 10,000,000
F-52	Local	Barker Reservoir	3	\$ 20,000,000	\$ -	-	\$ 20,000,000
C-11	Partnership	Brays Bayou	1, 2, & 3	\$ -	\$ 75,000,000	-	\$ 75,000,000
C-12	Partnership	Brays Bayou	3	\$ 4,500,000	\$ 14,510,000	\$ 340,000	\$ 19,350,000
C-13	Partnership	Brays Bayou	3	\$ 7,500,000	\$ 22,500,000	-	\$ 30,000,000
CI-025	Community Input	Brays Bayou	1, 2, & 3	\$ 200,000	\$ -	-	\$ 200,000
CI-034	Community Input	Brays Bayou	1	\$ 250,000	\$ -	-	\$ 250,000
CI-038	Community Input	Brays Bayou	3	\$ 15,000,000	\$ 15,000,000	-	\$ 30,000,000
F-07	Local	Brays Bayou	1	\$ 32,500,000	\$ -	-	\$ 32,500,000
F-08	Local	Brays Bayou	1	\$ 30,500,000	\$ -	-	\$ 30,500,000
CI-009	Community Input	Buffalo Bayou	3	\$ 15,000,000	\$ 15,000,000	-	\$ 30,000,000
CI-016	Community Input	Buffalo Bayou	Countywide	\$ 371,420	\$ -	-	\$ 371,420
CI-017	Community Input	Buffalo Bayou	Countywide	\$ 30,000,000	\$ -	-	\$ 30,000,000
CI-018	Community Input	Buffalo Bayou	3	\$ 2,000,000	\$ -	-	\$ 2,000,000
CI-024	Community Input	Buffalo Bayou	Countywide	\$ 200,000	\$ -	-	\$ 200,000
F-58	Local	Buffalo Bayou	3	\$ 10,000,000	\$ -	-	\$ 10,000,000
F-59	Local	Buffalo Bayou	3	\$ -	\$ -	-	\$ -
F-79	Local	Buffalo Bayou	3	\$ 10,000,000	\$ -	-	\$ 10,000,000
F-80	Local	Buffalo Bayou	3	\$ 10,000,000	\$ -	-	\$ 10,000,000
F-81	Local	Buffalo Bayou	3	\$ 20,000,000	\$ -	-	\$ 20,000,000
F-82	Local	Buffalo Bayou	2	\$ 2,000,000	\$ -	\$ 3,000,000	\$ 5,000,000
F-124	Local	Carpenters Bayou	2	\$ 500,000	\$ -	-	\$ 500,000
F-123	Local	Cedar Bayou	2	\$ 9,200,000	\$ -	-	\$ 9,200,000
F-41	Local	Cedar Bayou	2	\$ 19,000,000	\$ -	-	\$ 19,000,000
F-42	Local	Cedar Bayou	2	\$ 33,000,000	\$ -	-	\$ 33,000,000
F-43	Local	Cedar Bayou	2	\$ 20,000,000	\$ -	-	\$ 20,000,000
F-44	Local	Cedar Bayou	2	\$ 18,000,000	\$ -	-	\$ 18,000,000
F-45	Local	Cedar Bayou	2	\$ 22,000,000	\$ -	-	\$ 22,000,000
F-46	Local	Cedar Bayou	2	\$ 22,900,000	\$ -	-	\$ 22,900,000
F-47	Local	Cedar Bayou	2	\$ 19,900,000	\$ -	-	\$ 19,900,000
F-48	Local	Cedar Bayou	2	\$ 1,000,000	\$ -	-	\$ 1,000,000
F-69	Local	Cedar Bayou	2	\$ 10,500,000	\$ -	-	\$ 10,500,000
F-70	Local	Cedar Bayou	2	\$ 74,000,000	\$ -	-	\$ 74,000,000
C-03	Partnership	Clear Creek	1	\$ 70,000,000	\$ 166,352,000	\$ 101,000,000	\$ 337,352,000
C-05	Local	Clear Creek	1	\$ 11,387,500	\$ -	\$ 7,112,500	\$ 18,500,000
CI-001	Community Input	Clear Creek	1 & 2	\$ 25,000,000	\$ -	-	\$ 25,000,000
CI-003	Community Input	Clear Creek	1 & 2	\$ 500,000	\$ 500,000	-	\$ 1,000,000
CI-013	Community Input	Clear Creek	2	\$ 5,000,000	\$ -	-	\$ 5,000,000
CI-039	Community Input	Clear Creek	2	\$ 93,324	\$ -	-	\$ 93,324
CI-62	Community Input	Clear Creek	1	\$ 5,000,000	\$ 15,000,000	-	\$ 20,000,000
F-01	Local	Clear Creek	1	\$ 2,500,000	\$ -	-	\$ 2,500,000

Revised						
Precinct	Bond		Partner	District		Total
3	\$	1,000,000	\$	9,000,000	- \$	10,000,000
4	\$	500,000	\$	2,500,000	- \$	3,000,000
4	\$	3,750,000	\$	11,250,000	- \$	15,000,000
Countywide	\$	-	\$	6,000,000	- \$	6,000,000
3	\$	1,600,000	\$	14,400,000	- \$	16,000,000
3	\$	1,500,000	\$	13,500,000	- \$	15,000,000
3	\$	9,400,000	\$	84,600,000	- \$	94,000,000
3	\$	10,000,000	\$	-	- \$	10,000,000
3	\$	20,000,000	\$	-	- \$	20,000,000
3	\$	40,000,000	\$	-	- \$	40,000,000
3	\$	10,000,000	\$	-	- \$	10,000,000
3	\$	25,000,000	\$	-	- \$	25,000,000
4	\$	15,000,000	\$	-	- \$	15,000,000
3	\$	21,000,000	\$	-	- \$	21,000,000
3	\$	5,000,000	\$	-	- \$	5,000,000
2	\$	2,000,000	\$	5,700,000	- \$	7,700,000
2	\$	3,750,000	\$	11,250,000	- \$	15,000,000
2	\$	2,000,000	\$	2,000,000	- \$	4,000,000
2	\$	250,000	\$	-	- \$	250,000
2	\$	6,000,000	\$	-	- \$	6,000,000
2	\$	2,000,000	\$	-	- \$	2,000,000
2	\$	-	\$	950,000	\$ 140,000	\$ 1,090,000
2	\$	10,000,000	\$	-	- \$	10,000,000
3	\$	10,000,000	\$	-	- \$	10,000,000
3	\$	20,000,000	\$	-	- \$	20,000,000
1, 2, & 3	\$	-	\$	75,000,000	\$ 1,500,000	\$ 76,500,000
3	\$	4,500,000	\$	14,510,000	- \$	19,010,000
3	\$	7,500,000	\$	22,500,000	- \$	30,000,000
1, 2, & 3	\$	200,000	\$	-	- \$	200,000
3	\$	250,000	\$	-	- \$	250,000
3	\$	15,000,000	\$	15,000,000	- \$	30,000,000
1 & 3	\$	32,500,000	\$	-	- \$	32,500,000
1	\$	30,500,000	\$	-	- \$	30,500,000
3	\$	15,000,000	\$	15,000,000	- \$	30,000,000
Countywide	\$	371,420	\$	-	- \$	371,420
Countywide	\$	30,000,000	\$	-	- \$	30,000,000
3	\$	2,000,000	\$	-	- \$	2,000,000
Countywide	\$	200,000	\$	-	- \$	200,000
3	\$	10,000,000	\$	-	- \$	10,000,000
3	\$	-	\$	-	- \$	-
3	\$	10,000,000	\$	-	- \$	10,000,000
3	\$	10,000,000	\$	-	- \$	10,000,000
3	\$	20,000,000	\$	-	- \$	20,000,000
2	\$	2,000,000	\$	-	2,665,700	\$ 4,665,700
2	\$	500,000	\$	-	- \$	500,000
2	\$	9,200,000	\$	-	- \$	9,200,000
2	\$	19,000,000	\$	-	- \$	19,000,000
2	\$	33,000,000	\$	-	- \$	33,000,000
2	\$	20,000,000	\$	-	- \$	20,000,000
2	\$	18,000,000	\$	-	- \$	18,000,000
2	\$	22,000,000	\$	-	- \$	22,000,000
2	\$	22,900,000	\$	-	- \$	22,900,000
2	\$	19,900,000	\$	-	- \$	19,900,000
2	\$	1,000,000	\$	-	- \$	1,000,000
2	\$	10,500,000	\$	-	- \$	10,500,000
2	\$	74,000,000	\$	-	- \$	74,000,000
1	\$	70,000,000	\$	166,352,000	- \$	236,352,000
1	\$	11,387,500	\$	-	7,112,500	\$ 18,500,000
1 & 2	\$	25,000,000	\$	-	- \$	25,000,000
1 & 2	\$	500,000	\$	500,000	- \$	1,000,000
2	\$	5,000,000	\$	-	- \$	5,000,000
2	\$	93,324	\$	-	- \$	93,324
1	\$	5,000,000	\$	15,000,000	- \$	20,000,000
1	\$	2,500,000	\$	-	- \$	2,500,000

	Added/(Reduced) with Revision							
	Bond	Partner	District	Total				
	\$	- \$	\$ 36,921,957	\$ (107,662,152)				
	Difference							
Precinct	Bond	Partner	District	Total	Change		Notes	
Remained 3	\$	- \$	- \$	- \$	-	No Change	No Change	
Remained 4	\$	- \$	- \$	- \$	-	No Change	No Change	
Remained 4	\$	- \$	- \$	- \$	-	No Change	No Change	
Remained Countywide	\$	- \$	- \$	- \$	-	No Change	No Change	
Remained 3	\$	- \$	- \$	- \$	-	Unit ID	Changed the Unit ID to correspond to the correct Unit for the basin construction.	
Remained 3	\$	- \$	- \$	- \$	-	No Change	No Change	
Remained 3	\$	- \$	- \$	- \$	-	No Change	No Change	
Remained 3	\$	- \$	- \$	- \$	-	No Change	No Change	
Was 3 & 4 Now 3	\$	- \$	- \$	- \$	-	Precinct	Corrected the Precinct data from 3 & 4 to 3.	
Remained 3	\$	- \$	- \$	- \$	-	No Change	No Change	
Remained 3	\$	- \$	- \$	- \$	-	No Change	No Change	
Remained 3	\$	- \$	- \$	- \$	-	No Change	No Change	
Remained 4	\$	- \$	- \$	- \$	-	No Change	No Change	
Remained 3	\$	- \$	- \$	- \$	-	No Change	No Change	
Remained 3	\$	- \$	- \$	- \$	-	No Change	No Change	
Remained 2	\$	- \$	- \$	- \$	-	Unit ID	Changed the Unit ID to correspond to the correct Unit for the basin construction.	
Remained 2	\$	- \$	- \$	- \$	-	No Change	No Change	
Remained 2	\$	- \$	- \$	- \$	-	No Change	No Change	
Remained 2	\$	- \$	- \$	- \$	-	No Change	No Change	
Remained 2	\$	- \$	- \$	- \$	-	No Change	No Change	
Remained 2	\$	- \$	- \$	140,000	\$ 140,000	Funding	Updated Total Estimates and District Funding Estimates to reflect the increase of budget due to higher cost of the planning study.	
Remained 2	\$	- \$	- \$	- \$	-	No Change	No Change	
Remained 3	\$	- \$	- \$	- \$	-	No Change	No Change	
Remained 3	\$	- \$	- \$	- \$	-	No Change	No Change	
Remained 1, 2, & 3	\$	- \$	- \$	1,500,000	\$ 1,500,000	Funding	Updated Total Estimates and District Funding Estimates to reflect the increase of budget due to additional scope.	
Remained 3	\$	- \$	- \$	(340,000)	\$ (340,000)	Funding	Updated Total Estimates and District Funding Estimates to reflect the decrease to stay within the original budget.	
Remained 3	\$	- \$	- \$	- \$	-	No Change	No Change	
Remained 1, 2, & 3	\$	- \$	- \$	- \$	-	No Change	No Change	
Was 1 Now 3	\$	- \$	- \$	- \$	-	Precinct	Corrected the Precinct data from 1 to 3.	
Remained 3	\$	- \$	- \$	- \$	-	No Change	No Change	
Was 1 Now 1 & 3	\$	- \$	- \$	- \$	-	Precinct	Corrected the Precinct data from 1 to 1 & 3.	
Remained 1	\$	- \$	- \$	- \$	-	No Change	No Change	
Remained 3	\$	- \$	- \$	- \$	-	No Change	No Change	
Remained Countywide	\$	- \$	- \$	- \$	-	No Change	No Change	
Remained Countywide	\$	- \$	- \$	- \$	-	No Change	No Change	
Remained 3	\$	- \$	- \$	- \$	-	No Change	No Change	
Remained Countywide	\$	- \$	- \$	- \$	-	No Change	No Change	
Remained 3	\$	- \$	- \$	- \$	-	No Change	No Change	
Remained 3	\$	- \$	- \$	- \$	-	No Change	No Change	
Remained 3	\$	- \$	- \$	- \$	-	No Change	No Change	
Remained 3	\$	- \$	- \$	- \$	-	No Change	No Change	
Remained 3	\$	- \$	- \$	- \$	-	No Change	No Change	
Remained 2	\$	- \$	- \$	(334,300)	\$ (334,300)	Funding	Updated Total Estimates and District Funding Estimates to reflect the increase of budget due to additional scope.	
Remained 2	\$	- \$	- \$	- \$	-	No Change	No Change	
Remained 2	\$	- \$	- \$	- \$	-	No Change	No Change	
Remained 2	\$	- \$	- \$	- \$	-	Title	Changed title to more accurately depict location of the project.	
Remained 2	\$	- \$	- \$	- \$	-	No Change	No Change	
Remained 2	\$	- \$	- \$	- \$	-	No Change	No Change	
Remained 2	\$	- \$	- \$	- \$	-	No Change	No Change	
Remained 2	\$	- \$	- \$	- \$	-	No Change	No Change	
Remained 2	\$	- \$	- \$	- \$	-	No Change	No Change	
Remained 2	\$	- \$	- \$	- \$	-	No Change	No Change	
Remained 2	\$	- \$	- \$	- \$	-	No Change	No Change	
Remained 2	\$	- \$	- \$	- \$	-	No Change	No Change	
Remained 1	\$	- \$	- \$	(101,000,000)	\$ (101,000,000)	Funding	Updated Total Estimates and District Funding Estimates to reflect the decrease to stay within the original budget.	
Remained 1	\$	- \$	- \$	- \$	-	Title	Changed the title to reflect removing Dagg Rd and naming the basin Christia V. Adair Stormwater Detention Basin.	
Remained 1 & 2	\$	- \$	- \$	- \$	-	No Change	No Change	
Remained 1 & 2	\$	- \$	- \$	- \$	-	No Change	No Change	
Remained 2	\$	- \$	- \$	- \$	-	Description	Corrected the location of the project to City of Shoreacres instead of City of Seabrook.	
Remained 2	\$	- \$	- \$	- \$	-	No Change	No Change	
Remained 1	\$	- \$	- \$	- \$	-	Title	Changed the title to reflect removing Dixie Farm Rd and naming the basin Friendswood Stormwater Detention Basin.	
Remained 1	\$	- \$	- \$	- \$	-	No Change	No Change	

2018 Bond Project List March 2021 Update
2018 Bond Project List Comparison - Version May 2020 to Version March 2021

Bond ID	Type	Watershed	Current as Approved by Court				
			Precinct	Bond	Partner	District	Total
F-02	Local	Clear Creek	1	\$ 6,100,000	\$ -	-	\$ 6,100,000
F-76	Local	Clear Creek	1 & 2	\$ 6,000,000	\$ -	-	\$ 6,650,000
CI-012	Community Input	Cypress Creek	3 & 4	\$ 60,000,000	\$ -	-	\$ 60,000,000
CI-020	Community Input	Cypress Creek	3 & 4	\$ -	\$ -	-	-
CI-035	Community Input	Cypress Creek	3 & 4	\$ 600,000	\$ -	305,740	\$ 905,740
CI-36	Community Input	Cypress Creek	3	\$ -	\$ -	-	-
F-20	Local	Cypress Creek	3 & 4	\$ 100,000,000	\$ -	-	\$ 100,000,000
F-21	Local	Cypress Creek	4	\$ -	\$ -	4,097,425	\$ 4,097,425
F-22	Local	Cypress Creek	4	\$ 2,200,000	\$ -	1,200,000	\$ 3,400,000
F-23	Local	Cypress Creek	3	\$ 3,000,000	\$ -	5,500,000	\$ 8,500,000
F-24	Local	Cypress Creek	3	\$ 9,300,000	\$ -	-	\$ 9,300,000
F-88	Local	Cypress Creek	1, 3, & 4	\$ 25,000,000	\$ 15,381,940	-	\$ 40,381,940
C-57	Partnership	Galveston Bay	2	\$ 8,000,000	\$ 2,000,000	-	\$ 10,000,000
C-58	Partnership	Galveston Bay	2	\$ 16,000,000	\$ 4,000,000	-	\$ 20,000,000
F-101	Partnership	Galveston Bay	2	\$ -	\$ 450,000	-	\$ 450,000
F-98	Local	Galveston Bay	2	\$ 4,000,000	\$ -	-	\$ 4,000,000
F-109	Local	Goose Creek	2	\$ 5,000,000	\$ -	-	\$ 5,000,000
F-120	Local	Goose Creek	2	\$ 25,000,000	\$ -	-	\$ 25,000,000
F-121	Partnership	Goose Creek	2	\$ -	\$ 550,000	-	\$ 550,000
F-39	Partnership	Goose Creek	2	\$ -	\$ 450,000	-	\$ 450,000
C-20	Partnership	Greens Bayou	1 & 2	\$ 2,000,000	\$ 18,000,000	-	\$ 20,000,000
C-31	Partnership	Greens Bayou	4	\$ 800,000	\$ 7,200,000	-	\$ 8,000,000
C-32	Local	Greens Bayou	4	\$ 1,500,000	\$ -	15,500,000	\$ 17,000,000
C-33	Partnership	Greens Bayou	1	\$ 1,510,000	\$ 13,590,000	1,700,000	\$ 16,800,000
C-34	Partnership	Greens Bayou	2	\$ 1,600,000	\$ 25,000,000	-	\$ 26,600,000
C-43	Partnership	Greens Bayou	2	\$ -	\$ 5,000,000	-	\$ 5,000,000
CI-022	Community Input	Greens Bayou	1	\$ 3,000,000	\$ -	-	\$ 3,000,000
F-40	Local	Greens Bayou	1	\$ 5,000,000	\$ -	-	\$ 5,000,000
C-01	Partnership	Halls Bayou	2	\$ -	\$ 975,853	56,229	\$ 1,032,082
C-23	Partnership	Halls Bayou	1	\$ 2,500,000	\$ 22,500,000	-	\$ 25,000,000
C-24	Partnership	Halls Bayou	1	\$ 1,200,000	\$ 10,800,000	-	\$ 12,000,000
C-25	Partnership	Halls Bayou	2	\$ 5,400,000	\$ 14,636,050	-	\$ 20,036,050
C-26	Partnership	Halls Bayou	1	\$ 2,800,000	\$ 25,200,000	-	\$ 28,000,000
C-28	Partnership	Halls Bayou	2	\$ 2,400,000	\$ 21,600,000	-	\$ 24,000,000
C-30	Partnership	Halls Bayou	1	\$ 1,200,000	\$ 10,800,000	-	\$ 12,000,000
C-35	Partnership	Halls Bayou	2	\$ 800,000	\$ 6,384,960	623,207	\$ 7,808,167
C-41	Partnership	Halls Bayou	1, 2, & 4	\$ 3,460,000	\$ 151,500,000	-	\$ 154,960,000
CI-006	Community Input	Halls Bayou	1	\$ 5,000,000	\$ 5,000,000	-	\$ 10,000,000
F-122	Local	Halls Bayou	1, 2, & 4	\$ 48,040,000	\$ -	-	\$ 48,040,000
C-18	Partnership	Hunting Bayou	1	\$ -	\$ 65,000,000	-	\$ 65,000,000
CI-031	Community Input	Hunting Bayou	1 & 2	\$ 500,000	\$ -	-	\$ 500,000
CI-59	Community Input	Hunting Bayou	2	\$ 10,000,000	\$ -	-	\$ 10,000,000
F-17	Local	Hunting Bayou	1 & 2	\$ 10,000,000	\$ -	-	\$ 10,000,000
F-107	Local	Jackson Bayou	2	\$ 10,000,000	\$ -	-	\$ 10,000,000
F-73	Partnership	Jackson Bayou	2	\$ -	\$ 450,000	-	\$ 450,000
F-26	Partnership	Little Cypress Creek	3	\$ 32,075,000	\$ 19,303,586	-	\$ 51,378,586
F-27	Partnership	Little Cypress Creek	3	\$ 9,250,000	\$ 1,548,475	-	\$ 10,798,475
F-28	Local	Little Cypress Creek	4	\$ 11,000,000	\$ -	-	\$ 11,000,000
F-29	Local	Little Cypress Creek	3	\$ 15,900,000	\$ -	-	\$ 15,900,000
F-30	Local	Little Cypress Creek	3	\$ 16,000,000	\$ -	-	\$ 16,000,000
F-31	Local	Little Cypress Creek	3	\$ 10,600,000	\$ -	-	\$ 10,600,000
F-32	Local	Little Cypress Creek	3	\$ 11,800,000	\$ -	-	\$ 11,800,000
F-33	Local	Little Cypress Creek	3	\$ 3,700,000	\$ -	600,000	\$ 4,300,000
F-34	Local	Little Cypress Creek	3	\$ 13,000,000	\$ -	-	\$ 13,000,000
F-35	Local	Little Cypress Creek	3	\$ 3,850,000	\$ -	650,000	\$ 4,500,000
F-89	Local	Little Cypress Creek	3 & 4	\$ 16,750,000	\$ -	-	\$ 16,750,000
F-108	Local	Luce Bayou	2	\$ 10,000,000	\$ -	-	\$ 10,000,000
F-51	Local	Luce Bayou	2	\$ 10,000,000	\$ -	-	\$ 10,000,000
F-85	Partnership	Luce Bayou	2	\$ -	\$ 450,000	-	\$ 450,000
C-17	Partnership	San Jacinto River	1, 2, & 4	\$ 625,000	\$ 2,708,208	-	\$ 3,333,208
C-50	Partnership	San Jacinto River	1, 2, & 4	\$ 18,750,000	\$ 56,250,000	-	\$ 75,000,000
CI-019	Community Input	San Jacinto River	1	\$ 50,000	\$ 50,000	-	\$ 100,000
CI-028	Community Input	San Jacinto River	1, 2, & 4	\$ 20,000,000	\$ 50,000,000	-	\$ 70,000,000
CI-60	Community Input	San Jacinto River	2	\$ 10,000,000	\$ -	-	\$ 10,000,000
CI-61	Community Input	San Jacinto River	1, 2, & 4	\$ 10,000,000	\$ 40,000,000	-	\$ 50,000,000
F-110	Local	Luce Bayou	2	\$ 10,000,000	\$ -	-	\$ 10,000,000
F-111	Local	San Jacinto River	2	\$ 10,000,000	\$ -	-	\$ 10,000,000
F-14	Local	San Jacinto River	4	\$ 10,000,000	\$ -	-	\$ 10,000,000

Precinct	Bond	Revised			Total
		Partner	District		
1	\$ 6,100,000	\$ -	-	\$ -	\$ 6,100,000
1	\$ 6,000,000	\$ -	650,000	\$ -	\$ 6,650,000
3 & 4	\$ 60,000,000	\$ -	-	\$ -	\$ 60,000,000
3 & 4	\$ -	\$ -	-	\$ -	-
3 & 4	\$ 600,000	\$ -	122,864	\$ -	\$ 722,864
3	\$ -	\$ -	-	\$ -	-
3 & 4	\$ 100,000,000	\$ -	-	\$ -	\$ 100,000,000
4	\$ -	\$ -	-	\$ -	-
4	\$ 2,200,000	\$ -	1,200,000	\$ -	\$ 3,400,000
3	\$ 3,000,000	\$ -	5,225,554	\$ -	\$ 8,225,554
3	\$ 9,300,000	\$ -	-	\$ -	\$ 9,300,000
1, 3, & 4	\$ 25,000,000	\$ -	-	\$ -	\$ 25,000,000
2	\$ 8,000,000	\$ 2,000,000	-	\$ -	\$ 10,000,000
2	\$ 16,000,000	\$ 4,000,000	-	\$ -	\$ 20,000,000
2	\$ -	\$ 450,000	-	\$ -	\$ 450,000
2	\$ 4,000,000	\$ -	-	\$ -	\$ 4,000,000
2	\$ 5,000,000	\$ -	-	\$ -	\$ 5,000,000
2	\$ 25,000,000	\$ -	-	\$ -	\$ 25,000,000
2	\$ -	\$ 550,000	-	\$ -	\$ 550,000
2	\$ -	\$ 450,000	\$ 500,000	\$ -	\$ 950,000
1, 2, & 4	\$ 2,000,000	\$ 18,000,000	-	\$ -	\$ 20,000,000
4	\$ 800,000	\$ 7,200,000	-	\$ -	\$ 8,000,000
4	\$ 1,500,000	\$ -	15,500,000	\$ -	\$ 17,000,000
1	\$ 1,510,000	\$ 13,590,000	\$ 4,000,000	\$ -	\$ 19,100,000
2	\$ 1,600,000	\$ 25,092,428	\$ 12,000,000	\$ -	\$ 38,692,428
2	\$ -	\$ 5,000,000	-	\$ -	\$ 5,000,000
1	\$ 3,000,000	\$ -	-	\$ -	\$ 3,000,000
1	\$ 5,000,000	\$ -	-	\$ -	\$ 5,000,000
1 & 2	\$ -	\$ 975,853	-	\$ -	\$ 975,853
1	\$ 2,500,000	\$ 22,500,000	-	\$ -	\$ 25,000,000
1	\$ 1,200,000	\$ 10,800,000	-	\$ -	\$ 12,000,000
2	\$ 5,400,000	\$ 14,636,050	-	\$ -	\$ 20,036,050
1 & 2	\$ 2,800,000	\$ 25,200,000	-	\$ -	\$ 28,000,000
2	\$ 2,400,000	\$ 21,600,000	-	\$ -	\$ 24,000,000
1	\$ 1,200,000	\$ 10,800,000	-	\$ -	\$ 12,000,000
2	\$ 800,000	\$ 6,384,960	\$ 725,000	\$ -	\$ 7,909,960
1, 2, & 4	\$ 3,460,000	\$ 151,500,000	-	\$ -	\$ 154,960,000
1	\$ 5,000,000	\$ 5,000,000	-	\$ -	\$ 10,000,000
1, 2, & 4	\$ 48,040,000	\$ -	-	\$ -	\$ 48,040,000
1	\$ -	\$ 65,000,000	-	\$ -	\$ 65,000,000
1 & 2	\$ 500,000	\$ -	-	\$ -	\$ 500,000
2	\$ 10,000,000	\$ -	-	\$ -	\$ 10,000,000
1 & 2	\$ 10,000,000	\$ -	-	\$ -	\$ 10,000,000
2	\$ 10,000,000	\$ -	-	\$ -	\$ 10,000,000
2	\$ -	\$ 450,000	-	\$ -	\$ 450,000
3	\$ 32,075,000	\$ 19,303,586	-	\$ -	\$ 51,378,586
3	\$ 9,250,000	\$ 1,532,838	-	\$ -	\$ 10,782,838
4	\$ 11,000,000	\$ -	-	\$ -	\$ 11,000,000
3	\$ 15,900,000	\$ -	-	\$ -	\$ 15,900,000
3	\$ 16,000,000	\$ -	-	\$ -	\$ 16,000,000
3	\$ 10,600,000	\$ -	-	\$ -	\$ 10,600,000
3	\$ 11,800,000	\$ -	-	\$ -	\$ 11,800,000
3	\$ 3,700,000	\$ -	-	\$ -	\$ 3,700,000
3	\$ 13,000,000	\$ -	-	\$ -	\$ 13,000,000
3	\$ 3,850,000	\$ -	740,000	\$ -	\$ 4,590,000
3 & 4	\$ 16,750,000	\$ -	-	\$ -	\$ 16,750,000
2	\$ 10,000,000	\$ -	-	\$ -	\$ 10,000,000
2	\$ 10,000,000	\$ -	-	\$ -	\$ 10,000,000
2	\$ -	\$ 450,000	-	\$ -	\$ 450,000
1, 2, & 4	\$ 625,000	\$ 2,708,208	-	\$ -	\$ 3,333,208
1, 2, & 4	\$ 18,750,000	\$ 56,250,000	-	\$ -	\$ 75,000,000
1	\$ 50,000	\$ 50,000	-	\$ -	\$ 100,000
1, 2, & 4	\$ 20,000,000	\$ 50,000,000	-	\$ -	\$ 70,000,000
1 & 2	\$ 10,000,000	\$ -	-	\$ -	\$ 10,000,000
1, 2, & 4	\$ 10,000,000	\$ 40,000,000	-	\$ -	\$ 50,000,000
2	\$ 10,000,000	\$ -	-	\$ -	\$ 10,000,000
2	\$ 10,000,000	\$ -	-	\$ -	\$ 10,000,000
4	\$ 10,000,000	\$ -	-	\$ -	\$ 10,000,000

Precinct	Difference				Total	Change	Notes
	Bond	Partner	District				
Remained 1	\$ -	\$ -	\$ -	\$ -	-	No Change	No Change
Was 1 & 2 Now 1	\$ -	\$ -	\$ -	650,000	\$ 650,000	Funding	Updated Total Estimates and District Funding Estimates to reflect the increase of budget due to additional scope.
Remained 3 & 4	\$ -	\$ -	\$ -	\$ -	-	No Change	No Change
Remained 3 & 4	\$ -	\$ -	\$ -	\$ -	-	No Change	No Change
Remained 3 & 4	\$ -	\$ -	\$ -	(182,876)	(182,876)	Funding	Updated Total Estimates and District Funding Estimates to reflect the decrease in the final closeout costs.
Remained 3	\$ -	\$ -	\$ -	\$ -	-	No Change	No Change
Remained 3 & 4	\$ -	\$ -	\$ -	\$ -	-	No Change	No Change
Remained 4	\$ -	\$ -	\$ -	(4,097,425)	(4,097,425)	Funding	Updated Total Estimates and District Funding Estimates to reflect this project completion under the Capital Improvement Program.
Remained 4	\$ -	\$ -	\$ -	\$ -	-	No Change	No Change
Remained 3	\$ -	\$ -	\$ -	(274,446)	(274,446)	Funding	Updated Total Estimates and District Funding Estimates to reflect the latest in project budget needs.
Remained 3	\$ -	\$ -	\$ -	\$ -	-	No Change	No Change
Remained 1, 3, & 4	\$ -	\$ (15,381,940)	\$ -	\$ -	(15,381,940)	Funding	Removed Partner Estimate funding as the CDBG grant is in application phase for a project outside of the 2018 Bond Program.
Remained 2	\$ -	\$ -	\$ -	\$ -	-	No Change	No Change
Remained 2	\$ -	\$ -	\$ -	\$ -	-	No Change	No Change
Remained 2	\$ -	\$ -	\$ -	\$ -	-	No Change	No Change
Remained 2	\$ -	\$ -	\$ -	\$ -	-	No Change	No Change
Remained 2	\$ -	\$ -	\$ -	\$ -	-	No Change	No Change
Remained 2	\$ -	\$ -	\$ -	\$ -	-	No Change	No Change
Remained 2	\$ -	\$ -	\$ -	\$ -	-	No Change	No Change
Remained 2	\$ -	\$ -	\$ -	500,000	\$ 500,000	Funding	Updated Total Estimates and District Funding Estimates to reflect the increase of budget due to higher cost of the planning study.
Was 1 & 2 Now 1, 2, & 4	\$ -	\$ -	\$ -	\$ -	-	Precinct	Corrected the Precinct data from 1 & 2 to 1, 2, & 4.
Remained 4	\$ -	\$ -	\$ -	\$ -	-	No Change	No Change
Remained 4	\$ -	\$ -	\$ -	\$ -	-	No Change	No Change
Remained 1	\$ -	\$ -	\$ -	2,300,000	\$ 2,300,000	Funding	Updated Total Estimates and District Funding Estimates to reflect the increase of budget due to cost escalation.
Remained 2	\$ -	\$ 92,428	\$ 12,000,000	\$ 12,092,428	Funding		Updated the Partner Estimate to reflect secured NRCS and HUD (CDBG-DR) grants and the increase due to cost escalation.
Remained 2	\$ -	\$ -	\$ -	\$ -	-	No Change	No Change
Remained 1	\$ -	\$ -	\$ -	\$ -	-	No Change	No Change
Remained 1	\$ -	\$ -	\$ -	\$ -	-	No Change	No Change
Was 2 Now 1 & 2	\$ -	\$ -	\$ -	(56,229)	(56,229)	Funding	Updated Total Estimates and District Funding Estimates to reflect the decrease to stay within the original budget.
Remained 1	\$ -	\$ -	\$ -	\$ -	-	No Change	No Change
Remained 1	\$ -	\$ -	\$ -	\$ -	-	No Change	No Change
Remained 2	\$ -	\$ -	\$ -	\$ -	-	No Change	No Change
Was 1 Now 1 & 2	\$ -	\$ -	\$ -	\$ -	-	Precinct	Corrected the Precinct data from 1 to 1 & 2.
Remained 2	\$ -	\$ -	\$ -	\$ -	-	No Change	No Change
Remained 1	\$ -	\$ -	\$ -	\$ -	-	No Change	No Change
Remained 2	\$ -	\$ -	\$ -	101,793	\$ 101,793	Funding	Updated Total Estimates and District Funding Estimates to reflect the increase of budget due to cost escalation.
Remained 1, 2, & 4	\$ -	\$ -	\$ -	\$ -	-	No Change	No Change
Remained 1	\$ -	\$ -	\$ -	\$ -	-	No Change	No Change
Remained 1, 2, & 4	\$ -	\$ -	\$ -	\$ -	-	No Change	No Change
Remained 1	\$ -	\$ -	\$ -	\$ -	-	No Change	No Change
Remained 1 & 2	\$ -	\$ -	\$ -	\$ -	-	No Change	No Change
Remained 2	\$ -	\$ -	\$ -	\$ -	-	No Change	No Change
Remained 1 & 2	\$ -	\$ -	\$ -	\$ -	-	No Change	No Change
Remained 2	\$ -	\$ -	\$ -	\$ -	-	No Change	No Change
Remained 2	\$ -	\$ -	\$ -	\$ -	-	No Change	No Change
Remained 3	\$ -	\$ -	\$ -	\$ -	-	No Change	No Change
Remained 3	\$ -	\$ (15,637)	\$ -	\$ -	(15,637)	Funding	Updated Total Estimates and Partnership Estimates to reflect the partnership funding secured.
Remained 4	\$ -	\$ -	\$ -	\$ -	-	No Change	No Change
Remained 3	\$ -	\$ -	\$ -	\$ -	-	No Change	No Change
Remained 3	\$ -	\$ -	\$ -	\$ -	-	No Change	No Change
Remained 3	\$ -	\$ -	\$ -	\$ -	-	No Change	No Change
Remained 3	\$ -	\$ -	\$ -	\$ -	-	No Change	No Change
Remained 3	\$ -	\$ -	\$ -	(600,000)	(600,000)	Funding	Updated Total Estimates and District Funding Estimates to reflect the decrease to stay within the original budget.
Remained 3	\$ -	\$ -	\$ -	\$ -	-	No Change	No Change
Remained 3	\$ -	\$ -	\$ -	90,000	\$ 90,000	Funding	Updated Total Estimates and District Funding Estimates to reflect the increase of budget due to cost escalation.
Remained 3 & 4	\$ -	\$ -	\$ -	\$ -	-	No Change	No Change
Remained 2	\$ -	\$ -	\$ -	\$ -	-	No Change	No Change
Remained 2	\$ -	\$ -	\$ -	\$ -	-	No Change	No Change
Remained 2	\$ -	\$ -	\$ -	\$ -	-	No Change	No Change
Remained 2	\$ -	\$ -	\$ -	\$ -	-	No Change	No Change
Remained 1, 2, & 4	\$ -	\$ -	\$ -	\$ -	-	No Change	No Change
Remained 1, 2, & 4	\$ -	\$ -	\$ -	\$ -	-	No Change	No Change
Remained 1	\$ -	\$ -	\$ -	\$ -	-	No Change	No Change
Remained 1, 2, & 4	\$ -	\$ -	\$ -	\$ -	-	No Change	No Change
Was 2 Now 1 & 2	\$ -	\$ -	\$ -	\$ -	-	Precinct	Corrected the Precinct data from 2 to 1 & 2.
Remained 1, 2, & 4	\$ -	\$ -	\$ -	\$ -	-	No Change	No Change
Remained 2	\$ -	\$ -	\$ -	\$ -	-	No Change	No Change
Remained 2	\$ -	\$ -	\$ -	\$ -	-	No Change	No Change
Remained 4	\$ -	\$ -	\$ -	\$ -	-	No Change	No Change

2018 Bond Project List March 2021 Update
2018 Bond Project List Comparison - Version May 2020 to Version March 2021

			Current as Approved by Court						
Bond ID	Type	Watershed	Precinct	Bond		Partner		District	Total
F-15	Local	San Jacinto River	2	\$	10,000,000	\$	-	\$	10,000,000
C-08	Partnership	Sims Bayou	1	\$	12,500,000	\$	37,500,000	\$	50,000,000
C-09	Partnership	Sims Bayou	1	\$	4,542,500	\$	13,627,500	\$	18,170,000
C-10	Partnership	Sims Bayou	2	\$	3,750,000	\$	11,250,000	\$	15,000,000
CI-027	Community Input	Sims Bayou	2	\$	2,000,000	\$	-	\$	2,000,000
CI-029	Community Input	Sims Bayou	2	\$	15,000,000	\$	15,000,000	\$	30,000,000
CI-037	Community Input	Sims Bayou	1	\$	15,000,000	\$	15,000,000	\$	30,000,000
F-92	Local	Sims Bayou	1	\$	10,000,000	\$	-	\$	10,000,000
F-93	Local	Sims Bayou	1	\$	10,000,000	\$	-	\$	10,000,000
F-94	Local	Sims Bayou	1	\$	10,000,000	\$	-	\$	10,000,000
F-95	Local	Sims Bayou	1	\$	10,000,000	\$	-	\$	10,000,000
C-118	Partnership	Spring Creek	3 & 4	\$	12,500,000	\$	12,500,000	\$	25,000,000
F-119	Local	Spring Creek	3 & 4	\$	10,000,000	\$	-	\$	10,000,000
F-19	Local	Spring Creek	3 & 4	\$	50,000,000	\$	-	\$	50,000,000
F-75	Partnership	Spring Creek	3 & 4	\$	-	\$	450,000	\$	450,000
F-104	Local	Vince Bayou	2	\$	15,000,000	\$	-	\$	15,000,000
F-78	Partnership	Vince Bayou	2	\$	-	\$	550,000	\$	550,000
C-14	Partnership	White Oak Bayou	1 & 4	\$	-	\$	45,000,000	\$	45,000,000
C-15	Partnership	White Oak Bayou	1	\$	2,500,000	\$	10,800,000	\$	13,300,000
C-16	Partnership	White Oak Bayou	4	\$	7,750,000	\$	48,660,000	\$	56,410,000
C-39	Partnership	White Oak Bayou	2	\$	20,000,000	\$	80,000,000	\$	100,000,000
C-59	Partnership	White Oak Bayou	1	\$	12,000,000	\$	35,000,000	\$	47,000,000
CI-010	Community Input	White Oak Bayou	4	\$	1,500,000	\$	1,500,000	\$	3,000,000
CI-011	Community Input	White Oak Bayou	4	\$	175,000	\$	175,000	\$	350,000
CI-030	Community Input	White Oak Bayou	3 & 4	\$	10,000,000	\$	30,000,000	\$	40,000,000
CI-032	Community Input	White Oak Bayou	1, 2, & 3	\$	125,000	\$	125,000	\$	250,000
CI-033	Community Input	White Oak Bayou	4	\$	1,000,000	\$	1,000,000	\$	2,000,000
F-09	Local	White Oak Bayou	1 & 2	\$	30,000,000	\$	-	\$	30,000,000
F-10	Local	White Oak Bayou	4	\$	35,000,000	\$	-	\$	35,000,000
F-106	Local	Willow Creek	3 & 4	\$	15,000,000	\$	-	\$	15,000,000
F-36	Local	Willow Creek	3 & 4	\$	30,000,000	\$	-	\$	30,000,000
F-37	Partnership	Willow Creek	4	\$	21,000,000	\$	51,000,000	\$	72,000,000
F-38	Local	Willow Creek	4	\$	1,100,000	\$	-	\$	1,100,000
F-71	Partnership	Willow Creek	3 & 4	\$	-	\$	800,000	\$	800,000
CI-026	Community Input	zCountywide	Countywide	\$	250,000	\$	250,000	\$	500,000
Z-01	Local	zCountywide	Countywide	\$	50,000,000	\$	-	\$	50,000,000
Z-02	Partnership	zCountywide	Countywide	\$	175,000,000	\$	2,185,625	\$	177,185,625
Z-03	Partnership	zCountywide	Countywide	\$	9,500,000	\$	2,400,000	\$	11,900,000
Z-04	Local	zCountywide	Countywide	\$	100,000,000	\$	-	\$	100,000,000
Z-05	Local	zCountywide	Countywide	\$	25,000,000	\$	-	\$	25,000,000
Z-06	Local	zCountywide	Countywide	\$	10,000,000	\$	-	\$	10,000,000
Z-07	Local	zCountywide	Countywide	\$	8,116,506	\$	-	\$	8,116,506
Z-08	Partnership	zCountywide	Countywide	\$	20,000,000	\$	2,820,000	\$	22,820,000
Z-09	Partnership	zCountywide	Countywide	\$	1,250,000	\$	3,750,000	\$	5,000,000
Z-10	Partnership	zCountywide	Countywide	\$	12,500,000	\$	12,500,000	\$	25,000,000
Z-11	Local	zCountywide	Countywide	\$	10,000,000	\$	-	\$	10,000,000
Z-Buyout	Buyout	zCountywide	Countywide	\$	144,125,000	\$	422,000,000	\$	566,125,000
Z-StormRep	Storm Repair	zCountywide	Countywide	\$	20,070,000	\$	76,200,500	\$	26,558,669
Z-Subdiv	Subdivision Drainage Improvement	zCountywide	Countywide	\$	115,233,750	\$	345,701,250	\$	460,935,000

Revised						
Precinct	Bond		Partner	District		Total
2	\$	10,000,000	\$ -	\$	-	\$ 10,000,000
1	\$	12,500,000	\$ 37,500,000	\$	-	\$ 50,000,000
1	\$	4,542,500	\$ 13,627,500	\$	-	\$ 18,170,000
2	\$	3,750,000	\$ 11,250,000	\$	-	\$ 15,000,000
2	\$	2,000,000	\$ -	\$	-	\$ 2,000,000
2	\$	15,000,000	\$ 15,000,000	\$	-	\$ 30,000,000
1	\$	15,000,000	\$ 15,000,000	\$	-	\$ 30,000,000
1	\$	10,000,000	\$ -	\$	-	\$ 10,000,000
1	\$	10,000,000	\$ -	\$	-	\$ 10,000,000
1	\$	10,000,000	\$ -	\$	-	\$ 10,000,000
1 & 4	\$	10,000,000	\$ -	\$	-	\$ 10,000,000
3 & 4	\$	12,500,000	\$ 12,500,000	\$	-	\$ 25,000,000
3 & 4	\$	10,000,000	\$ -	\$	-	\$ 10,000,000
3 & 4	\$	50,000,000	\$ -	\$	-	\$ 50,000,000
3 & 4	\$	-	\$ 450,000	\$	-	\$ 450,000
2	\$	15,000,000	\$ -	\$	-	\$ 15,000,000
2	\$	-	\$ 550,000	\$	-	\$ 550,000
1 & 4	\$	-	\$ 45,000,000	\$	-	\$ 45,000,000
1	\$	2,500,000	\$ 10,800,000	\$	-	\$ 13,300,000
4	\$	7,750,000	\$ 48,660,000	\$	-	\$ 56,410,000
2	\$	20,000,000	\$ 111,249,359	\$	-	\$ 131,249,359
1	\$	12,000,000	\$ 35,000,000	\$	-	\$ 47,000,000
4	\$	1,500,000	\$ 1,500,000	\$	-	\$ 3,000,000
4	\$	175,000	\$ 175,000	\$	-	\$ 350,000
4	\$	10,000,000	\$ 30,000,000	\$	-	\$ 40,000,000
Countywide	\$	125,000	\$ 125,000	\$	-	\$ 250,000
4	\$	1,000,000	\$ 1,000,000	\$	-	\$ 2,000,000
1 & 2	\$	30,000,000	\$ -	\$	-	\$ 30,000,000
4	\$	35,000,000	\$ -	\$	-	\$ 35,000,000
3 & 4	\$	15,000,000	\$ -	\$	-	\$ 15,000,000
3 & 4	\$	30,000,000	\$ -	\$	-	\$ 30,000,000
4	\$	21,000,000	\$ 63,000,000	\$	-	\$ 84,000,000
4	\$	1,100,000	\$ -	\$	-	\$ 1,100,000
3 & 4	\$	-	\$ 800,000	\$	-	\$ 800,000
Countywide	\$	250,000	\$ 250,000	\$	-	\$ 500,000
Countywide	\$	50,000,000	\$ -	\$	-	\$ 50,000,000
Countywide	\$	175,000,000	\$ 17,359,452	\$	-	\$ 192,359,452
Countywide	\$	9,500,000	\$ 2,400,000	\$	-	\$ 11,900,000
Countywide	\$	100,000,000	\$ -	\$	-	\$ 100,000,000
Countywide	\$	25,000,000	\$ -	\$	-	\$ 25,000,000
Countywide	\$	10,000,000	\$ -	\$	-	\$ 10,000,000
Countywide	\$	8,116,506	\$ -	\$	-	\$ 8,116,506
Countywide	\$	20,000,000	\$ 2,820,000	\$	-	\$ 22,820,000
Countywide	\$	1,250,000	\$ 1,310,019	\$	-	\$ 2,560,019
Countywide	\$	12,500,000	\$ 12,800,000	\$ 3,000,000	\$	\$ 28,300,000
Countywide	\$	10,000,000	\$ -	\$	-	\$ 10,000,000
Countywide	\$	144,125,000	\$ 387,300,000	\$	-	\$ 531,425,000
Countywide	\$	20,070,000	\$ 76,200,500	\$ 5,500,000	\$	\$ 101,770,500
Countywide	\$	115,233,750	\$ 376,345,151	\$	-	\$ 491,578,901

	Difference				Total	Change	Notes	
	Precinct	Bond	Partner	District				
Remained 2	\$	-	\$	-	\$	-	No Change	No Change
Remained 1	\$	-	\$	-	\$	-	No Change	No Change
Remained 1	\$	-	\$	-	\$	-	No Change	No Change
Remained 2	\$	-	\$	-	\$	-	No Change	No Change
Remained 2	\$	-	\$	-	\$	-	No Change	No Change
Remained 2	\$	-	\$	-	\$	-	No Change	No Change
Remained 1	\$	-	\$	-	\$	-	No Change	No Change
Remained 1	\$	-	\$	-	\$	-	No Change	No Change
Remained 1	\$	-	\$	-	\$	-	No Change	No Change
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Remained 1	\$	-	\$	-	\$	-	No Change	No Change
Remained 1	\$	-	\$	-	\$	-	No Change	No Change
Remained 1	\$	-	\$					

2018 Bond Projects

Detail List of Changes

Version May 2020 to Version March 2021

Summary list of changes to the bond project list last updated on March 30, 2021 to Commissioners Court

- Removed the Consolidated Projects from the project list
- Updating Estimates based on Engineer's Estimates and/or Agreements with Partners.
- Updating the Type field to reflect status of Partner(s) involvement in the project.
- Addressed incorrect Precincts and/or Titles and updating Descriptions of Benefits.

Detailed list of changes to the bond project list published after the 2018 Bond Update accepted by Commissioners Court on May 19, 2020						Category of Update or Change				
Item	Watershed	Bond ID	Description	Change	ID and / or Title	Consolidation of Projects	Type and / or Funding	Precinct / Watershed	Other	
1	All	Multiple	Removed all "Consolidated" projects from the May 2020 Bond Project Update to show only active or completed bond projects.	N/A					x	
2	All	Multiple	Updated Benefits for Bond Projects for the March 2021 Bond Project Update.	Description					x	
3	Addicks Reservoir	C-46	Changed the Unit ID to correspond to the correct Unit for the basin construction.	Unit ID	x					
4	Addicks Reservoir	F-112	Corrected the Precinct data from 3 & 4 to 3.	Precinct				x		
5	Armand Bayou	C-06	Changed the Unit ID to correspond to the correct Unit for the basin construction.	Unit ID	x					
6	Armand Bayou	F-96	Updated Total Estimates and District Funding Estimates to reflect the increase of budget due to higher cost of the planning study.	Funding			x			
7	Brays Bayou	C-11	Updated Total Estimates and District Funding Estimates to reflect the increase of budget due to additional scope.	Funding			x			
8	Brays Bayou	C-12	Updated Total Estimates and District Funding Estimates to reflect the decrease to stay within the original budget.	Funding			x			
9	Brays Bayou	CI-034	Corrected the Precinct data from 1 to 3.	Precinct				x		
10	Brays Bayou	F-07	Corrected the Precinct data from 1 to 1 & 3.	Precinct				x		
11	Buffalo Bayou	F-82	Updated Total Estimates and District Funding Estimates to reflect the increase of budget due to additional scope.	Funding			x			
12	Cedar Bayou	F-41	Changed title to more accurately depict location of the project.	Title	x					
13	Clear Creek	C-03	Updated Total Estimates and District Funding Estimates to reflect the decrease to stay within the original budget.	Funding			x			
14	Clear Creek	C-05	Changed the title to reflect removing Dagg Rd and naming the basin Christia V. Adair Stormwater Detention Basin.	Title	x					
15	Clear Creek	CI-013	Corrected the location of the project to City of Shoreacres instead of City of Seabrook.	Description						
16	Clear Creek	CI-62	Changed the title to reflect removing Dixie Farm Rd and naming the basin Friendswood Stormwater Detention Basin.	Title	x					
17	Clear Creek	F-76	Updated Total Estimates and District Funding Estimates to reflect the increase of budget due to additional scope.	Funding			x			
18	Clear Creek	F-76	Corrected the Precinct data from 1 & 2 to 1.	Precinct				x		
19	Cypress Creek	CI-035	Updated Total Estimates and District Funding Estimates to reflect the decrease in the final closeout costs.	Funding			x			
20	Cypress Creek	F-21	Updated Total Estimates and District Funding Estimates to reflect this project completion under the Capital Improvement Program.	Funding			x			
21	Cypress Creek	F-23	Updated Total Estimates and District Funding Estimates to reflect the latest in project budget needs.	Funding			x			
22	Cypress Creek	F-88	Removed Partner Estimate funding as the CDBG grant is in application phase for a project outside of the 2018 Bond Program.	Funding			x			
23	Goose Creek	F-39	Updated Total Estimates and District Funding Estimates to reflect the increase of budget due to higher cost of the planning study.	Funding			x			
24	Greens Bayou	C-20	Corrected the Precinct data from 1 & 2 to 1, 2, & 4.	Precinct				x		
25	Greens Bayou	C-33	Updated Total Estimates and District Funding Estimates to reflect the increase of budget due to cost escalation.	Funding			x			

2018 Bond Projects

Detail List of Changes

Version May 2020 to Version March 2021

Item	Watershed	Bond ID	Description	Change	ID and / or Title	Consolidation of Projects	Type and / or Funding	Precinct / Watershed	Other
26	Greens Bayou	C-34	Updated the Partner Estimate to reflect secured NRCS and HUD (CDBG-DR) grants and the increase due to cost escalation.	Funding			x		
27	Halls Bayou	C-01	Updated Total Estimates and District Funding Estimates to reflect the decrease to stay within the original budget.	Funding			x		
28	Halls Bayou	C-01	Corrected the Precinct data from 2 to 1 & 2.	Precinct				x	
29	Halls Bayou	C-26	Corrected the Precinct data from 1 to 1 & 2.	Precinct				x	
30	Halls Bayou	C-35	Updated Total Estimates and District Funding Estimates to reflect the increase of budget due to cost escalation.	Funding			x		
31	Little Cypress Creek	F-27	Updated Total Estimates and Partnership Estimates to reflect the partnership funding secured.	Funding			x		
32	Little Cypress Creek	F-33	Updated Total Estimates and District Funding Estimates to reflect the decrease to stay within the original budget.	Funding			x		
33	Little Cypress Creek	F-35	Updated Total Estimates and District Funding Estimates to reflect the increase of budget due to cost escalation.	Funding			x		
34	San Jacinto River	CI-60	Corrected the Precinct data from 2 to 1 & 2.	Precinct				x	
35	White Oak Bayou	C-39	Updated the Estimates to reflect only the contribution from the District to the City of Houston for the North Canal project. The Partner Estimate was originally designated to show the total project estimate, but has been removed as to not show as a funding gap of unsecured partner funding.	Funding			x		
36	White Oak Bayou	CI-030	Corrected the Precinct data from 3 & 4 to Precinct 4 only.	Precinct				x	
37	White Oak Bayou	CI-032	Corrected the Precinct data from 1,2,& 3 to Countwide.	Precinct				x	
38	Willow Creek	F-37	Updated Total Estimates and Partnership Estimates to reflect the partnership funding secured.	Funding			x		
39	Countywide	Z-02	Updated Total Estimates, District Funding Estimates, and Partner Funding Estimates to reflect the latest in project budget needs and partnership updates.	Funding			x		
40	Countywide	Z-09	Updated Total Estimates and Partnership Estimates to reflect the partnership funding secured.	Funding			x		
41	Countywide	Z-10	Updated Total Estimates, District Funding Estimates, and Partner Funding Estimates to reflect the latest in project budget needs and partnership updates.	Funding			x		
42	Countywide	Z-Buyout	Updated the Partner Estimate funding amount to reflect the most recent activity.	Funding			x		
43	Countywide	Z-StormRep	Updated Total Estimates, District Funding Estimates, and Partner Funding Estimates to reflect the latest in project budget needs and partnership updates.	Funding			x		
44	Countywide	Z-Subdiv	Updated Total Estimates, District Funding Estimates, and Partner Funding Estimates to reflect the latest in project budget needs and partnership updates.	Funding			x		

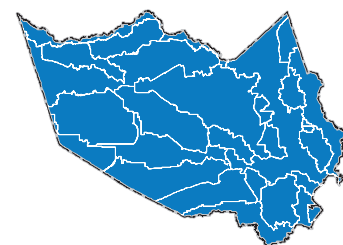
Hurricane Harvey Recovery Repair Program



MAJOR MAINTENANCE

PROJECT DESCRIPTION AND BENEFITS

The Harris County Flood Control District's Disaster Recovery Program, in partnership with the U.S. Department of Agriculture's Natural Resource Conservation Service (NRCS), repaired more than 800 damage sites within Harris County resulting from Hurricane Harvey and other previous extreme weather events. The program protects the channels from further damage, while also making the channels more resilient to future extreme weather events.



Start and End Dates

The engineering for the more than 800 repair project sites began in January 2018 with construction beginning in June 2019. The final construction project was substantially completed in October 2020.



Budget

Total program budget was more than \$125 million, of which the U.S. Department of Agriculture's Natural Resources Conservation Service (NRCS) will reimburse \$70 million.



Next Steps

Continue the Flood Control District's Disaster Recovery Program (including ongoing Tropical Storm Imelda repairs), which provides recovery and repair services to Flood Control District infrastructure when any natural disaster affects the region's channels.

Countywide Program

All Precincts

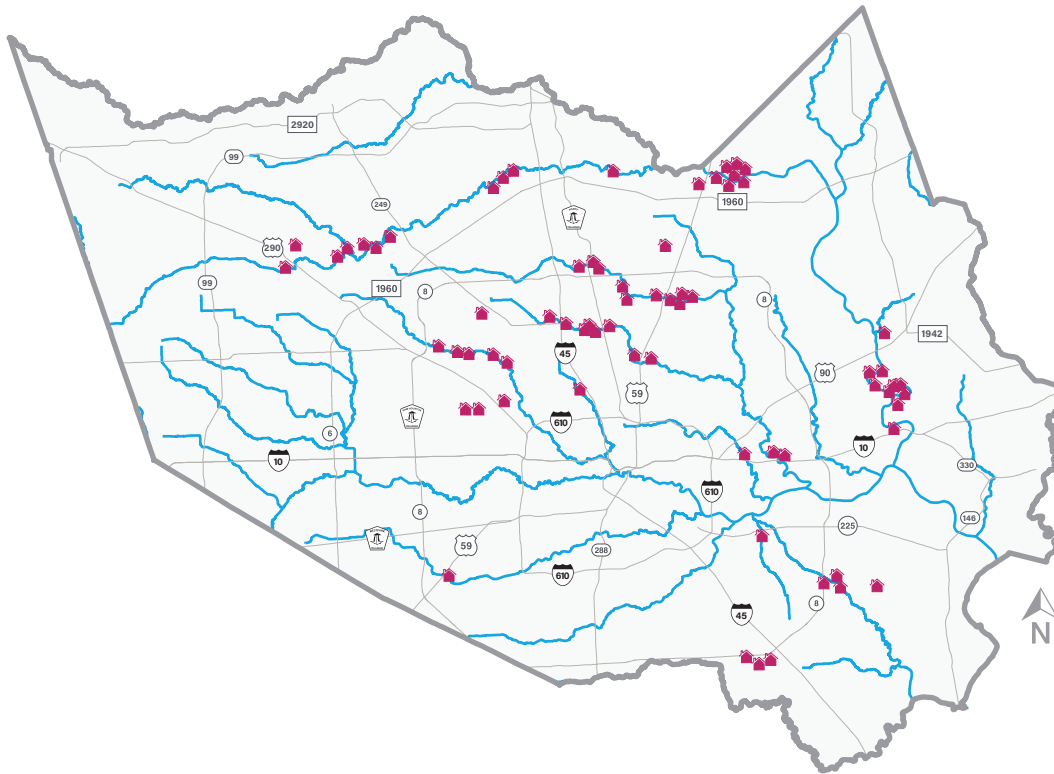
In partnership with:



United States Department of Agriculture
Natural Resources Conservation Service

hcfcd.org/Maintenance

Home Buyout Program Update



**OVER
70**

BUYOUT AREAS

Structures several feet deep in 100-yr Floodplain

**OVER
9000
PROPERTIES
IN THESE 70 AREAS**

**3000
PURCHASED
PROPERTIES**

**6000
REMAINING
PROPERTIES**

AFTER HARVEY

ABOUT
**1000 BUYOUT
VOLUNTEERS**
LOCATED IN BUYOUT AREAS

PROJECT DESCRIPTION

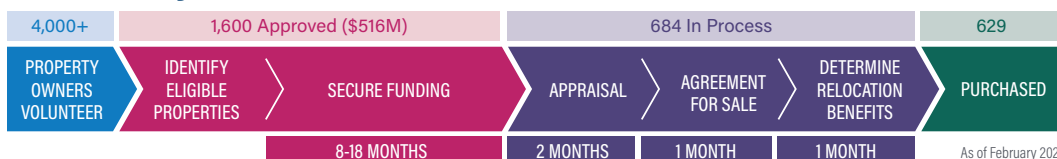
Home buyouts are used by the Flood Control District to reduce flood damages in areas several feet deep in the floodplain where structural projects (i.e. channel modifications or stormwater detention basins) to reduce flooding are not cost-effective and/or beneficial. These are homes that were simply built in the wrong place, prior to the knowledge we have today of the boundaries of our floodplains and prior to building regulations imposed by the city and county on land development.

Countywide Program

All Precincts

[HCFCD.ORG/Buyouts](https://hcfcd.org/buyouts)

Active Buyouts



Current Status and Next Steps

Since Hurricane Harvey, the Flood Control District has purchased 629 properties (over 180 acres valued at more than \$132 million) and an additional 684 properties (over 160 acres) are in process for a buyout.

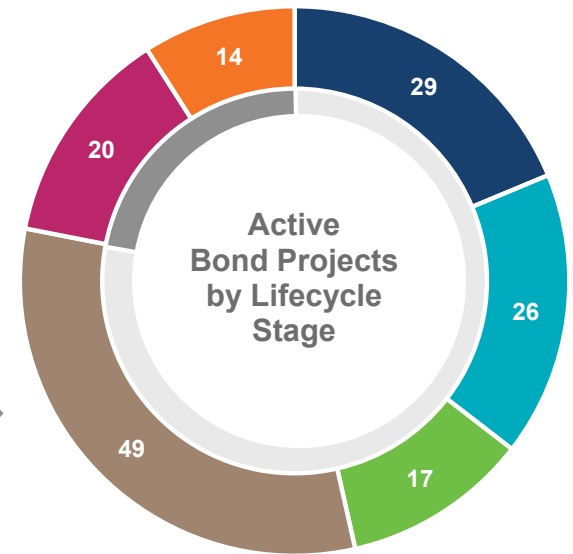
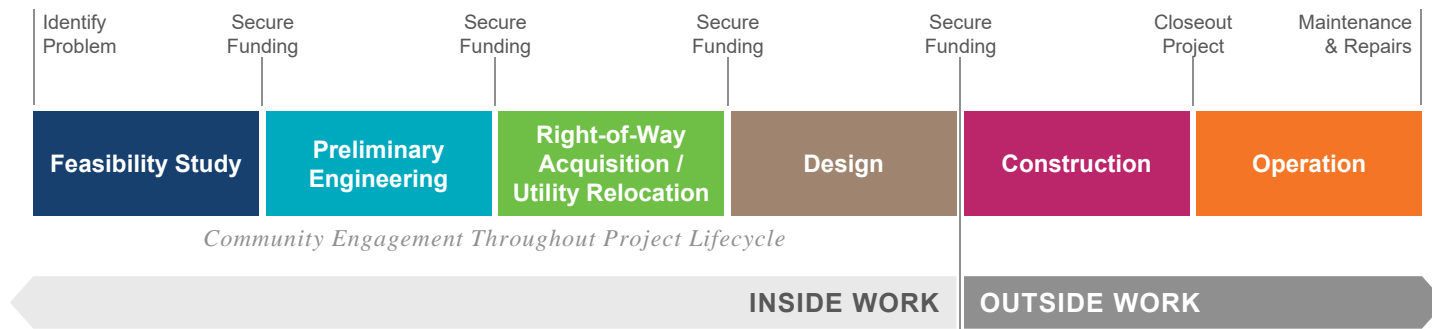
Bond Program Update

March 30, 2021



Bond Project Lifecycle

Bond Project Lifecycle



Bond Program Status: 88% of Projects Underway

- 160 out of 181 projects in the Bond Program are started
- 19 projects are complete
- Accepted grants totaling over \$960M, for a total project value of nearly \$1.3B
- Executed 326 engineering agreements totaling \$247M
- Awarded 39 construction agreements totaling \$296M
- Acquired nearly 340 properties at a value over \$208M for construction projects, floodplain preservation, and wetland mitigation banks
- Conducted 140 community engagement meetings with more than 11,413 attendees
- Completed nearly 630 home buyouts at a value over \$130M with over 680 additional in process for a buyout (since Hurricane Harvey)
- Completed over \$125M repair program to address damages to Flood Control District infrastructure caused by Hurricane Harvey
- 1,030 court actions associated with the Bond Program
- Authorized \$515,693,299 of Bond funds
- Spent \$358,286,287 – 14% of Bond funds spent so far
- Bond program is also funding:
 - Countywide floodplain mapping
 - Upgrades to the Flood Warning System
 - Community engagement and communications

Equity Report and MWBE Utilization

- The Harris County Flood Control District works to ensure all citizens in Harris County have an equal drainage level of service, helping strengthen communities and create opportunity.
- This is achieved when income, race, gender, age, national origin, disability, language access, creed, sexual orientation, economic status or other factors do not determine or predict the level of flooding risk for communities across our region.
- To achieve this goal, the Flood Control District has prioritized projects based on the Bond Program Prioritization Framework adopted by Commissioners Court in 2019.
- \$65.5M with certified MWBE / Historically Underutilized Businesses (HUB) firms for professional services
- 26.6% MWBE/HUB firm utilization
- Not tracking for construction currently, partnering with Harris County Department of Economic Equity and Opportunity to track

40% of projects **under construction** are in the Greens Bayou and Halls Bayou watersheds.

Bond Projects

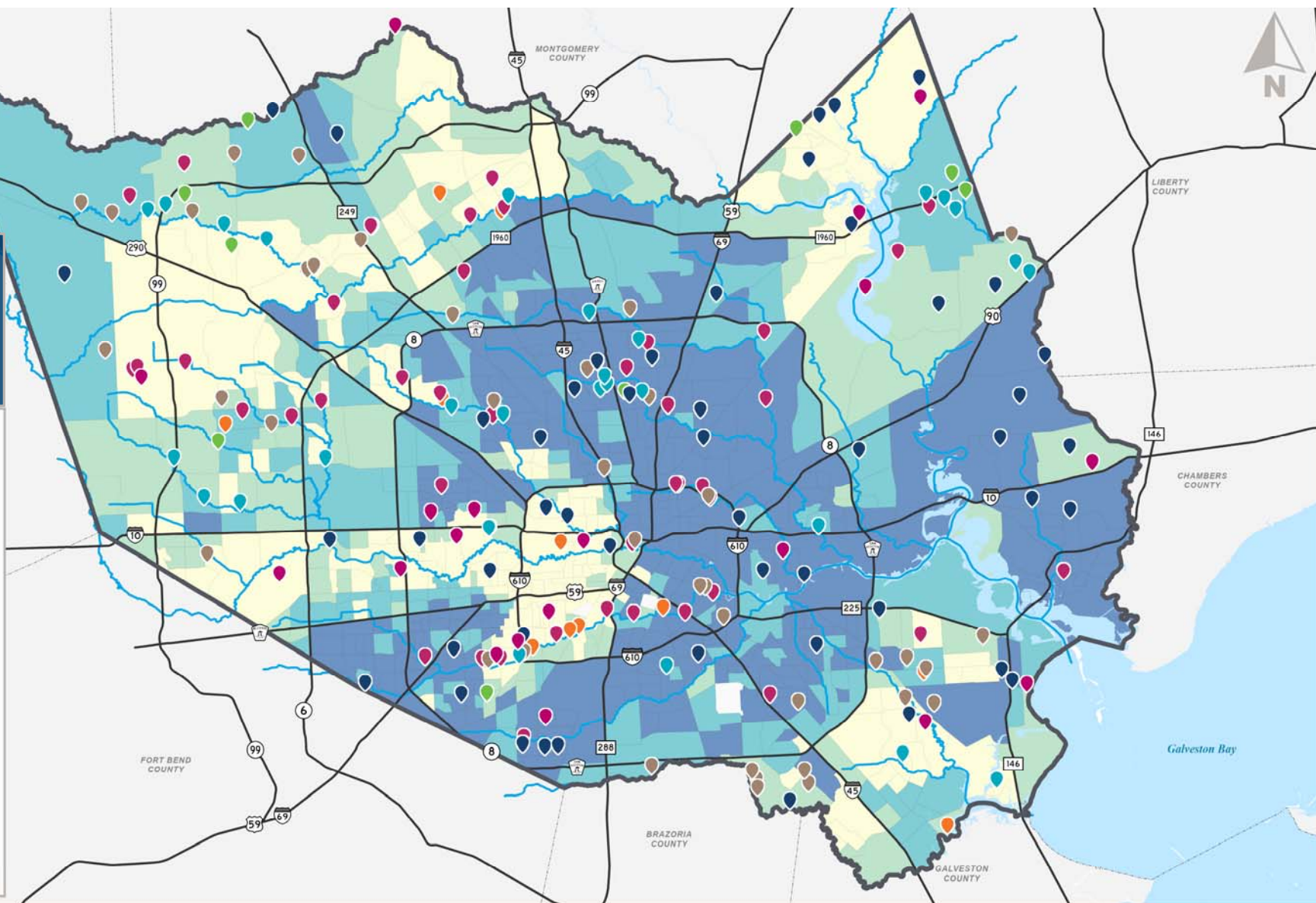
Stage

- Feasibility Study (50)
- Preliminary Engineering (29)
- Right-of-Way Acquisition / Utility Relocation (13)
- Design (39)
- Construction (53)
- Operation & Maintenance (14)
- Future (19)

SVI - Census Block Level (2016)

Overall Score

- 73 0.75 - 1.0 | Highest Vulnerability
- 46 0.50 - 0.75
- 46 0.25 - 0.50
- 52 0 - 0.25 | Lowest Vulnerability



Partnership Funding: **\$1.2B in Partnership Funds**

- While the bond was for \$2.5 billion, the estimated cost of every project in the bond tables as passed by Harris County voters is nearly \$5 billion.
- The Bond Program has always included partnership funding listed as the “Partner Share” in the original Bond Program
- \$960M in secured grants so far, plus more than \$240M in secured additional partnerships, including Road and Bridge bond funds
- Funding strategy update is scheduled for the June 29, 2021, Court meeting
- Bond funding is available to make progress on all projects
- Even if full construction funding isn’t available
 - Can make projects shovel-ready
 - Show commitment to funding partners
 - Can phase projects to obtain flood damage reduction benefits sooner
- Pursuing partnership funding will continue throughout the Bond Program and beyond

TO DATE
MORE THAN
\$2 Billion
IN APPLICATIONS
SUBMITTED

Aldine Westfield Stormwater Detention Basin

Project ID: P500-04-00 / Bond ID: C-33 / Greens Bayou / Precinct 1



Progress: Under construction, expected to be complete in April 2021

Benefit: Provides 407.3 million gallons of stormwater detention capacity

Little York and Hopper Stormwater Detention Basins

Project ID: P518-10-00 / Bond ID: C-35 / Halls Bayou / Precinct 2



Progress: Under construction, expected completion in April 2021

Benefit: Provides 70.6 million gallons of stormwater detention capacity

Lauder Stormwater Detention Basin

Project ID: P500-06-00 / Bond ID: C-34 / Greens Bayou / Precinct 2



Progress: Phase 1 under construction, expected completion in Dec. 2021

Benefit: Provides 391 million gallons of stormwater detention capacity

Hillcroft Bridge

D100-00-00-B033 / Bond ID: C-11 / Brays Bayou / Precinct 3



Progress: Completed Winter 2020

Benefit:

This bridge replacement is included in the Project Brays flood reduction program to widen the channel and reduce the risk of flooding. Project Brays is a federal and local partnership with the U.S Army Corps of Engineers that includes 21 miles of channel widening and deepening.

Cutten Stormwater Detention Basin

Project ID: P500-02-00 / Bond ID: C-32 / Greens Bayou / Precinct 4



Progress: Under construction, expected to be complete in June 2022

Benefit: Provides 282 million gallons of stormwater detention capacity

Thank You!

- County Judge, Commissioners, and their staff members
- Harris County Attorney's Office
- Harris County Auditor's Office
- Harris County Budget Management Department
- Harris County Community Services Department
- Harris County Engineering Department - Real Property Division
- Harris County Engineering Department - Recovery and Resiliency Division
- Harris County Purchasing Department
- Harris County Treasurer's Office

QUESTIONS?