



## **CITY OF LA PORTE DRAINAGE AND FLOODING COMMITTEE MEETING AGENDA**

Notice is hereby given of a meeting of the Drainage and Flooding Committee of the City Council of the City of La Porte, to be held March 14, 2022, in the City Hall Council Chamber, 604 West Fairmont Parkway, La Porte, Texas, beginning at 5:00 pm to consider the following items of business.

Remote participation is available, also. Attend via a screen using this link:

<https://us02web.zoom.us/j/82838921659?pwd=M2E3SE1PZnFHYld3SjVITnpCRHdBUT09>

Join by phone at 888 475 4499 or 877 853 5257. The meeting ID is 828 3892 1659. The passcode is 388576.

1. **CALL TO ORDER**
2. **CITIZEN COMMENT** *(Generally limited to five minutes per person; in accordance with state law, the time may be reduced if there is a high number of speakers or other considerations.)*
3. **STATUTORY AGENDA**
  - (a) Presentation, discussion, and possible action to approve the minutes of the February 14, 2022, meeting. [Councilperson Martin, Chair]
  - (b) Presentation, discussion, and possible action regarding status of 100 acre-foot detention pond project near the Pasadena Convention Center and Brookglen Subdivision, in connection with amended interlocal agreement between the City of La Porte and the City of Pasadena. [Lorenzo Wingate, Assistant Director of Public Works]
  - (c) Presentation, discussion, and possible action regarding the Harris County Flood Control District's (HCFCD) and Harris County Precinct 2's current and future plans related to flooding in the City of La Porte. [Lorenzo Wingate, Assistant Director of Public Works]
  - (d) Presentation, discussion, and possible action regarding the status of current drainage projects. [Lorenzo Wingate, Assistant Director of Public Works]
  - (e) Presentation, discussion, and possible action to provide administrative staff of the City with direction, if necessary, regarding additional drainage concerns. [Lorenzo Wingate, Assistant Director of Public Works]
4. **SET NEXT MEETING**
5. **COMMITTEE COMMENT** *Hear announcements concerning matters appearing on the agenda; items of community interest; and/or inquiries of staff regarding specific factual information or existing policy from the Committee members and City staff, for which no formal action will be discussed or taken.*
6. **ADJOURN**

If, during the course of the meeting and discussion of any items covered by this notice, the Drainage and Flooding Committee determines that a Closed or Executive Session of the Committee is required, then such closed meeting will be held as authorized by Texas Government Code, Chapter 551, Section 551.071 - consultation with counsel on legal matters; Section 551.072 - deliberation regarding purchase, exchange, lease or value of real property; Section 551.073 - deliberation regarding a prospective gift; Section 551.074 - personnel matters regarding the appointment, employment, evaluation, reassignment, duties, discipline, or dismissal of a public officer or employee; Section 551.076 - implementation of security personnel or devices; Section 551.087 - deliberation regarding economic development negotiation; Section 551.089 - deliberation regarding security devices or security audits, and/or other matters as authorized under the Texas Government Code. If a Closed or Executive Session is held in accordance with the Texas Government Code as set out above, the Drainage and Flooding Committee will reconvene in Open Session in order to take action, if necessary, on the items addressed during Executive Session.

**Persons with disabilities who plan to attend this meeting and who may need auxiliary aids or services are requested to contact the City Secretary's office (281-470-5019), two working days prior to the meeting for appropriate arrangements.**

Pursuant to Texas Government Code Sec. 551.127, on a regular, non-emergency basis, members may attend and participate in the meeting remotely by video conference. Should that occur, a quorum of the members will be physically present at the location noted above on this agenda.

**Councilmembers may attend in numbers constituting a quorum. This is a Drainage and Flooding Committee Meeting at which there will be no deliberation or formal action taken by City Council as a governmental body.**

#### **CERTIFICATE**

I, Lee Woodward, City Secretary, do hereby certify that a copy of the March 14, 2022, Drainage and Flooding Committee agenda was posted on the City Hall bulletin board, a place convenient and readily accessible to the general public at all times, and to the City's website, [www.LaPorteTX.gov](http://www.LaPorteTX.gov), in compliance with Chapter 551, Texas Government Code.

DATE OF

POSTING

TIME OF

POSTING

TAKEN DOWN

\_\_\_\_\_

*Lee Woodward*

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Lee Woodward, City Secretary

JAY MARTIN, CHAIRMAN  
MAYOR PRO TEM

MANDI WILLIAMS  
COUNCILPERSON



CHUCK ENGELKEN  
COUNCILPERSON

BILL BENTLEY, ALTERNATE  
COUNCILPERSON

## MINUTES OF THE DRAINAGE AND FLOODING COMMITTEE MEETING FEBRUARY 14, 2022

The Drainage and Flooding Committee of the City of La Porte met on Monday, February 14, 2022, at the City Hall Council Chambers, 604 West Fairmont Parkway, La Porte, Texas, at 5:30 p.m. to consider the following items of business:

**Committee Members present:** Jay Martin, Chuck Engelken

**Committee Members attending remotely:** None

**Committee Members absent:** Mandi Williams, Bill Bentley (alternate)

**Council-appointed officers present:** Corby Alexander, City Manager; Lee Woodward, City Secretary; Clark T. Askins, Assistant City Attorney

**CALL TO ORDER** – Chairman Martin called the meeting to order at 5:30 p.m.

- 2. CITIZEN COMMENT** *(Generally limited to five minutes per person, in accordance with state law, the time may be reduced if there is a high number of speakers or other considerations.)*

There were no citizen comments.

### **3. STATUTORY AGENDA**

- a. Presentation, discussion, and possible action to approve the minutes of the January 10, 2022, meeting. [Councilperson Martin, Chairman]**

Member Engelken moved to approve the minutes; the motion was seconded by Chair Martin; the motion was adopted, 2-0.

- b. Presentation, discussion, and possible action regarding status of 100 acre-foot detention pond project near the Pasadena Convention Center and Brookglen Subdivision, in connection with amended interlocal agreement between the City of La Porte and the City of Pasadena. [Lorenzo Wingate, Assistant Director of Public Works]**

Mr. Wingate said engineering work has begun.

- c. Presentation, discussion, and possible action regarding the Harris County Flood Control District's (HCFCD) and Harris County Precinct 2's current and future plans related to flooding in the City of La Porte. [Lorenzo Wingate, Assistant Director of Public Works]**

Mr. Wingate said HCFCD was expected for the March meeting and will provide project updates.

- d. Presentation, discussion, and possible action regarding the status of current drainage projects. [Lorenzo Wingate, Assistant Director of Public Works]**

*There was no discussion for this item.*

- e. **Presentation, discussion, and possible action to provide administrative staff of the City with direction, if necessary, regarding additional drainage concerns. [Lorenzo Wingate]**

Mr. Wingate said the City met with the developer on rough conceptual plans for the Dutko property. He explained that the developer does have the option to submit plans concurrently to the City and Harris County. The City Manager confirmed that the City is the final approval authority.

Chair Martin requested that Taylor Bayou be placed on the HCFCD schedule for clearing out, especially along the west branch near Shady River. Mr. Wingate noted that he would confirm the existence of an HCFCD easement on the west branch of Taylor Bayou, and coordinate with HCFCD to facilitate the request.

**4. SET NEXT MEETING** - The next meeting date was set for March 14, 2022, at 5 p.m.

**5. COMMITTEE COMMENT** – *Hear announcements concerning matters appearing on the agenda; items of community interest; and/or inquiries of staff regarding specific factual information or existing policy from the Committee members and City staff, for which no formal action will be discussed or taken.*

Members had no comments.

**ADJOURN** – The meeting was adjourned without objection at 5:41 p.m.

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Lee Woodward, City Secretary



## REQUEST FOR DRAINAGE & FLOODING COMMITTEE AGENDA ITEM

Agenda Date Requested: March 14, 2022

Requested By: Lorenzo Wingate, Asst. Director

Department: Public Works

☒ Report    ☐ Resolution    ☐ Ordinance

**Exhibits:**

### Appropriation

Source of Funds: N/A

Account Number: N/A

Amount Budgeted: N/A

Amount Requested: N/A

Budgeted Item:    ☐ Yes    ☐ No

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### SUMMARY & RECOMMENDATION

Kickoff meeting with staff from Pasadena, La Porte and the design consultant was held on January 6th. Preliminary engineering phase has been initiated. Preliminary engineering, design and bidding is expected to be completed by late third quarter 2022, with construction expected to begin in fourth quarter 2022.

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### ACTION REQUIRED BY DRAINAGE AND FLOODING COMMITTEE

**Receive report, and provide staff with direction, as necessary.**

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**Approved for Drainage Committee Agenda**

\_\_\_\_\_  
Corby D. Alexander, City Manager

\_\_\_\_\_  
Date



## REQUEST FOR DRAINAGE & FLOODING COMMITTEE AGENDA ITEM

Agenda Date Requested: March 14, 2022

Requested By: Lorenzo Wingate, Asst. Director

Department: Public Works

☒ Report   ☐ Resolution   ☐ Ordinance

**Exhibits:** HCFCD Memo Update; F216 Boundary Map

### Appropriation

Source of Funds: N/A

Account Number: N/A

Amount Budgeted: N/A

Amount Requested: N/A

Budgeted Item:   ☐ Yes   ☐ No

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### SUMMARY & RECOMMENDATION

Receive report regarding Harris County Flood Control District's (HCFCD) and Harris County Precinct 2's current and future plans related to flooding in the City of La Porte.

- HCFCD staff is expected to participate to provide update.

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### ACTION REQUIRED BY DRAINAGE AND FLOODING COMMITTEE

Receive report, and provide Staff with direction, as necessary.

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Approved for Drainage Committee Agenda

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Corby D. Alexander, City Manager

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Date

# MEMORANDUM

**DATE:** February 16, 2022

**TO:** Lorenzo Wingate P.E., C.F.M.  
Assistant Director of Public Works

**FROM:** Jeremy Ratcliff  
Precinct Coordinator

**RE:** City of La Porte Drainage Committee Meeting (March 13, 2022)

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## **1. B512-00-00-00-E001 Tributary and Conveyance Improvements on Brookglen area**

### **Detention Basin Update**

- Expecting 50% design submittal at the end of March.
- Working to submit street closure permit to City of La Porte this month.

### **Demo Update**

- Four properties are scheduled for demolition. Funding request has been submitted so I would expect a time frame of 2-4 months. I 'm working with our staff to get this date pushed up. Once I have an exact date, I will share it with you and the HOA Board. I plan on being out at the site myself when the homes are demolished.
- We plan to board up the Brookglen homes next week to prevent vandalism

## **2. B112-00-00-G001 Brookglen Subdivision Drainage Improvements**

- Project cost \$11M (HCFCD partnering at 50%)
- ILA was approved on **Jan 25<sup>th</sup> CC**
- Next Step: Schedule Monthly Progress meeting and request contribution.

## **3. F101-06-00-E002 Partnership Project with La Porte to reduce flooding**

- Updated PER is underway ,30% Design drawings have been completed
- Non- Intrusive survey letters sent to adjacent property owners
- Next step: Final PER is in comment review, SUE effort underway to address pipeline issues

**4. F212-00-00-C001 Channel Conveyance Improvements** -This project stems from the Galveston Bay Watershed Planning study and consists of three components.

- Channel Deepening &/or widening from N. Broadway Street to N. Utah Street,
- Conversion of an open channel segment to a closed conduit using dual 8ft by 5ft concrete boxes between N. Utah Street and Main Street,
- The replacement of an existing 66" concrete pipe with a dual 8ft by 5ft concrete box culvert toward the outfall into the open channel section of F212.
- **The project is currently in the Design Phase and scheduled to begin construction in the early 2023.**

**5. A104-12-01 Bayside Terrace Partnership Project**

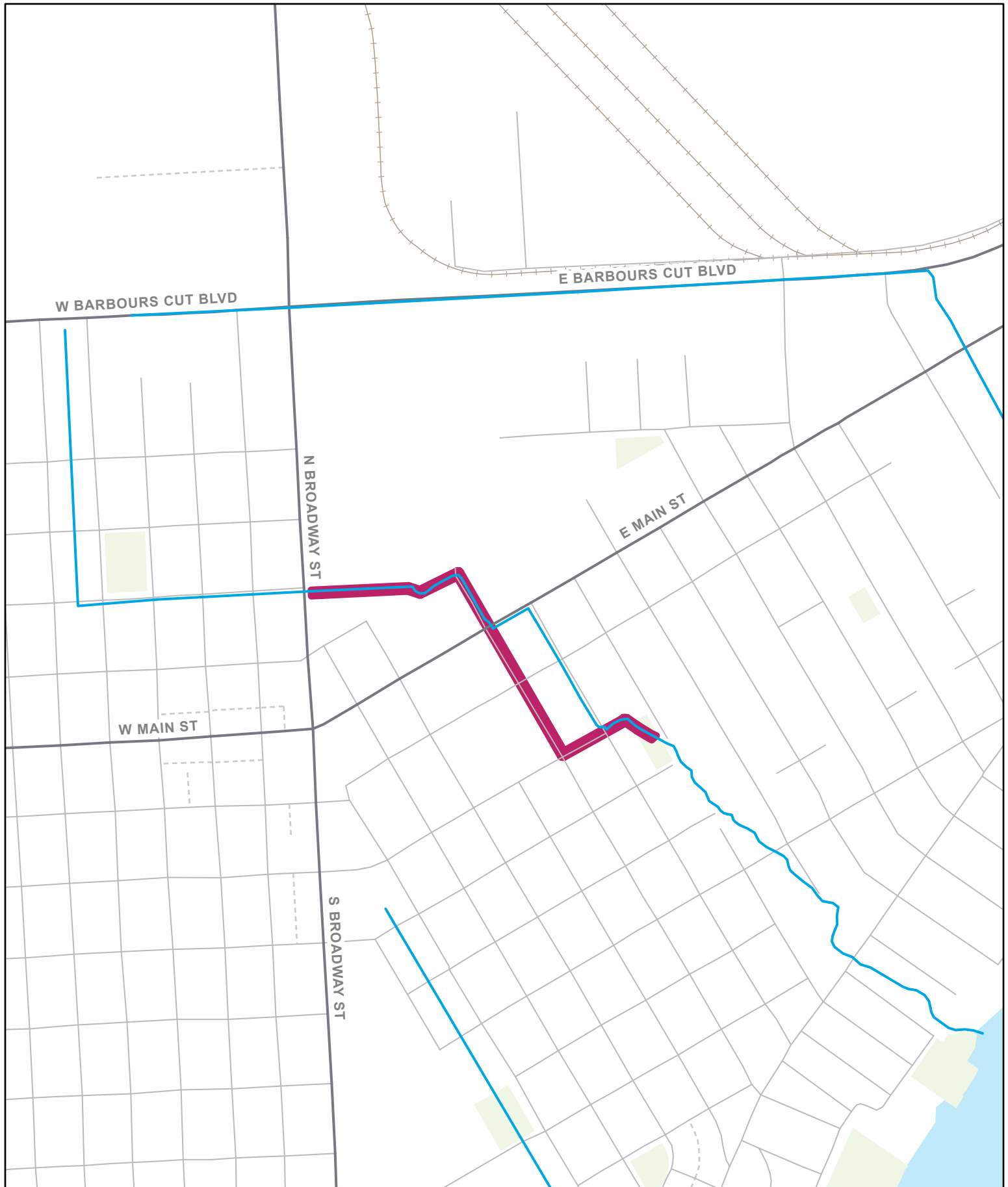
- ILA Approved in CC Oct 26<sup>th</sup>
- HCFCD contribution \$2.8M
- PER is complete and project is in design

**6. City of La Porte Maintenance Request for Little Cedar Bayou F216**

The District's clearing operations on F216-00-00 in the area of interest consists of the following work and limits.

- This channel clearing was completed in December 2021.
- We completed this with UFL under V214 before the end of the year. Spent \$13,033.29. Work limits from LR 3280 to LR 5325. So basically, from an obviously tidal section of the channel (footbridge just d/s of wave pool) up to almost S. 8<sup>th</sup> St. where we pick up mowing again.







## REQUEST FOR DRAINAGE & FLOODING COMMITTEE AGENDA ITEM

Agenda Date Requested: March 14, 2022

Requested By: Lorenzo Wingate, Asst. Director

Department: Public Works

☒ Report   ☐ Resolution   ☐ Ordinance

**Exhibits:** Project map; Project update chart and Harris County Drainage Network Map

### Appropriation

Source of Funds: N/A

Account Number: N/A

Amount Budgeted: N/A

Amount Requested: N/A

Budgeted Item:   ☐ Yes   ☐ No

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### SUMMARY & RECOMMENDATION

Refer to attached exhibit(s) for updates on various drainage projects throughout the City.

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### ACTION REQUIRED BY DRAINAGE AND FLOODING COMMITTEE

**Receive report, and provide staff with direction, as necessary.**

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**Approved for Drainage Committee Agenda**

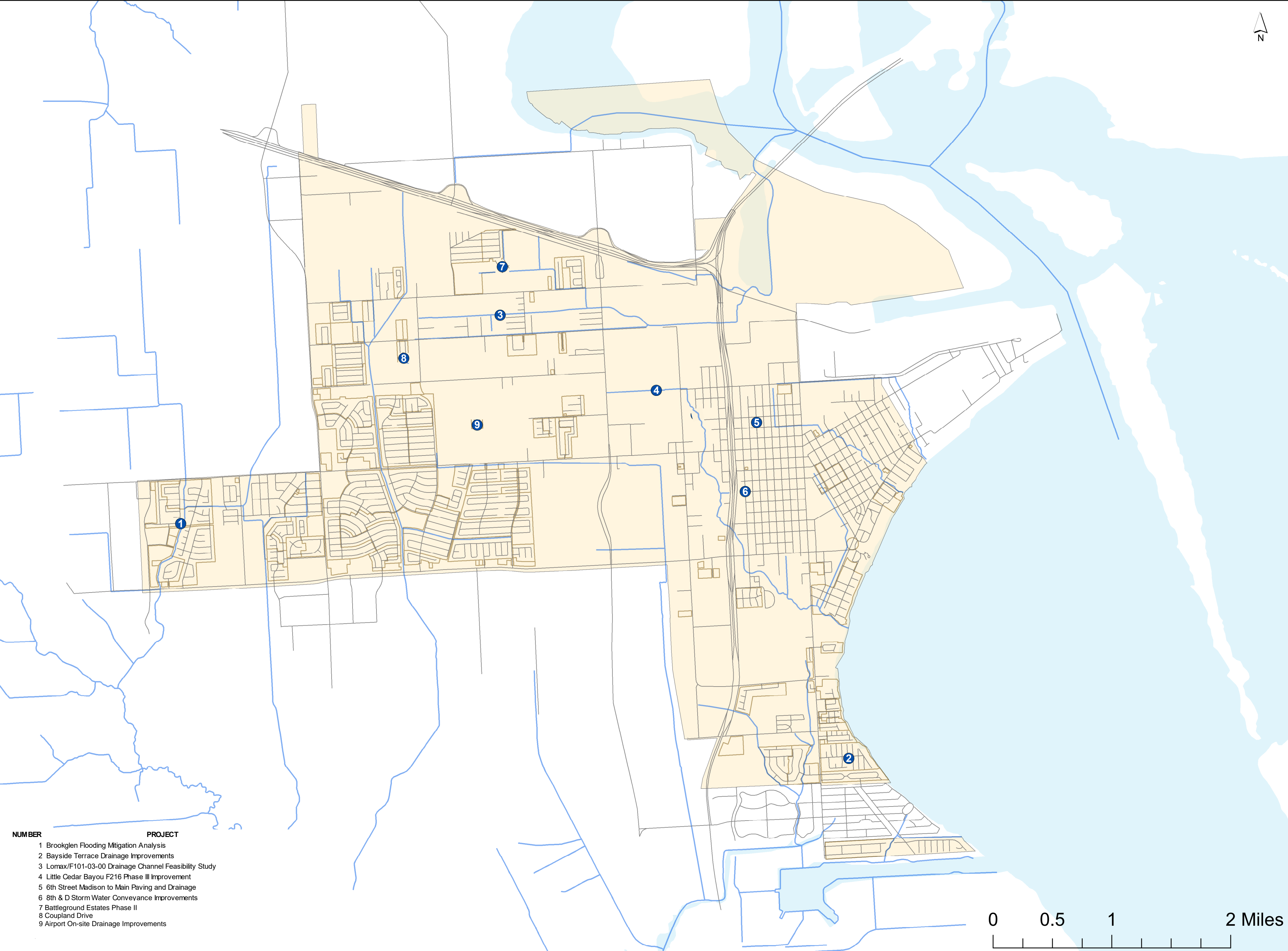
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**Corby D. Alexander, City Manager**

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**Date**

# The City of La Porte Drainage Projects 2019



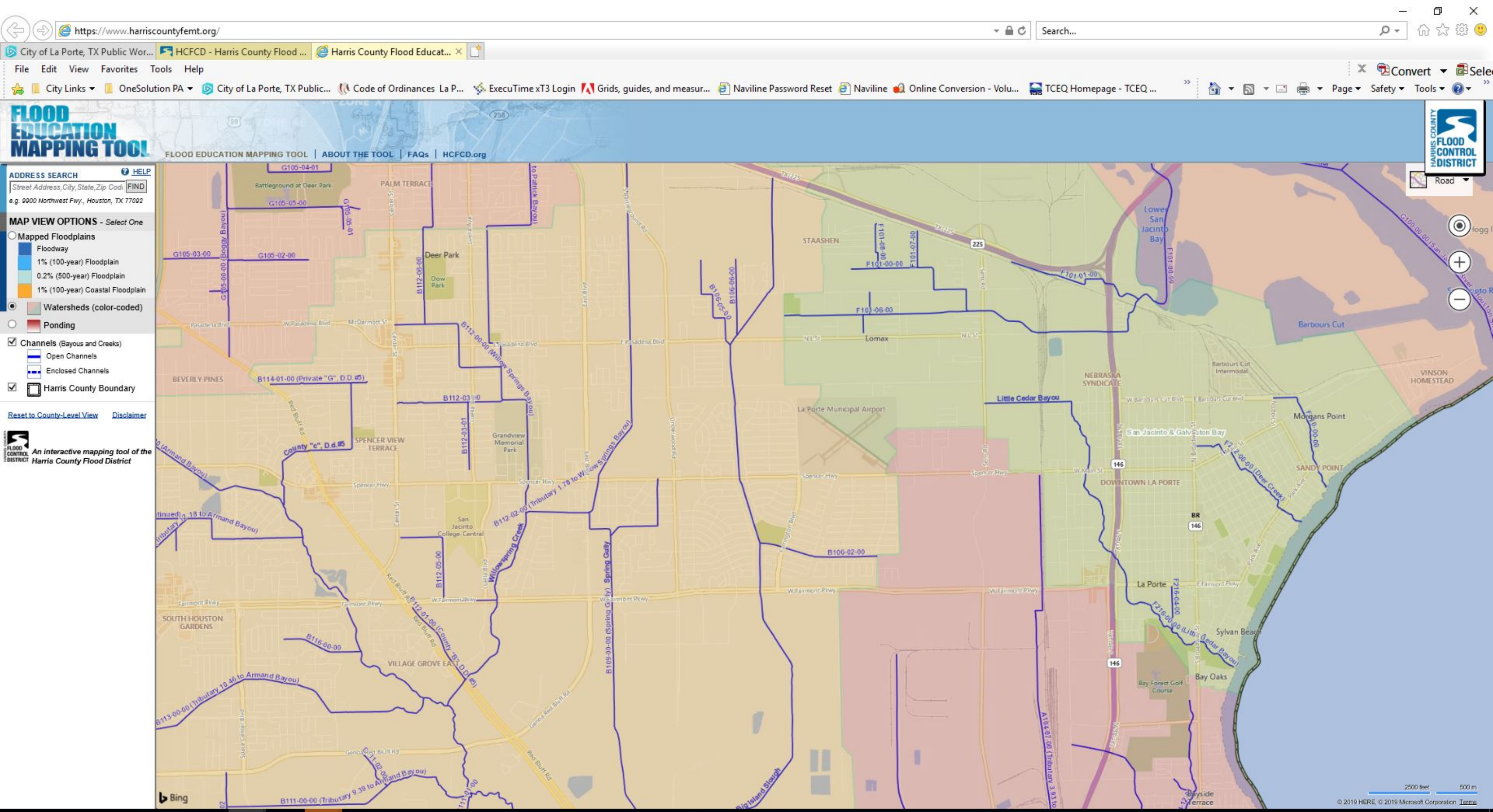
# DRAINAGE PROJECTS

\*Estimated completion date references total project completion.

\*\*% complete references percent completion of current project phase.

NO.	PROJECT	PROJECT MANAGER	DESCRIPTION	PROJECT PHASE (Feasibility/Preliminary Design/Final Design/Bidding/Construction)	Status	Anticipated Construction Cost	Potential Grant Funding	Potential COLP Cost Share	COLP Budgeted Amount	Estimated Completion Date	% Complete (Phase)	On Schedule
1	Brookglen Flooding Mitigation Analysis	HCFCF / Public Works	The 2009 City-wide Drainage Study identifies the Brookglen subdivision as an area with significant drainage/flooding problems, attributed to a mixture of inadequate sewerage and insufficient channel capacity within the B112-00-00 Channel. Compounded improvements recommended within the City-wide Drainage Study could reduce the flood risk within the Brookglen area. This analysis would expand upon the recommendations provided within 2009 study.	HCFCF (NCRS) - Preliminary Design; COLP Pending	HCFCF expects 50% plans for detention basin(s) by the end of March. HCFCF anticipates submitting street closure permit, by mid-March, for ROW within the subdivision adjacent to buyout lots. Four properties are scheduled for demo within the next 2-4 months. Buyout properties are expected to be boarded up during the week of March 1st.	\$11,400,010.00	GLO - \$4,000,000; Pct 2 Partnership - \$2,900,023.28; ARPA - TBD;	Harris County - 24%; GLO - 33%; COLP - 42;	COLP - \$2,500,000	NCRS - March 2022; Bond - TBD; COLP - TBD	NCRS - 35%; COLP - 0%	NCRS - Yes Bond - No COLP - TBD
2	Bayside Terrace Drainage Improvements	Public Works	Approximately 800 linear feet of RCP pipe, ranging in size from 15" to 24", exists within the Bayside Terrace Subdivision, which has not been properly maintained due to access issues attributed to limited access to infrastructure, provided within a five foot utility easement. Portions of Hamilton Street and Fondren Street utilize this system to convey stormwater to its outfall point of Galveston Bay. The system fails to function properly, causing flooding within the adjacent portion(s) of the subdivision. A proposed drainage study would discuss feasibility of rerouting this flow from the 800 feet of RCP, towards Bayside Dr. and utilizing the existing system within Bayside Dr. to convey the storm water within the existing system.	Final Design	Consultant is currently revising the roadway design to reduce the impact to existing landscaping. 100% bid-ready submittal is anticipated for staff review in mid-March. Staff has prepared assessment document to be forwarded to Bayside Terrace Civic Club for review and approval, prior to presenting to Council for approval.	\$6,947,215.00	Pct 2 Partnership - \$2,982,496	Harris County - \$2,982,496; COLP - \$4,356,041	\$5,405,000.00	March 2022	95%	Yes
3	Lomax/F101-03-00 Drainage Channel Improvements	HCFCF	Harris County Flood Control Districts (HCFCF) F101-06-00 Channel system conveys storm water runoff from the Lomax area and ultimately outfalls into Lower San Jacinto Bay. The downstream section of the channel has been improved to ultimate capacity. An existing pipeline corridor, containing several pipelines located at depths ranging from approximately 2' to 16', cross the channel, limiting the depth of potential channel improvements. Moderate/heavy rain events, compounded with backwater conditions from this section of the channel, contributes to wide-spread flooding within the Lomax Area.	Final Design	PER was finalized in and presented to Harris County Commissioners' in late May. Final design has been initiated. Potential for ARPA funds to be utilized to supplement project funding.	\$3,400,000.00	HCFCF Bond; ARPA - TBD	50/50	\$950,000.00	January 2023	10%	Yes
4	Little Cedar Bayou F216 Phase III Improvements	HCFCF / Public Works	Phase I and Phase II Improvements to Little Cedar Bayou, from Hwy 146 to Madison, have either been completed or are currently awarded for construction. Phase I and Phase II improvements include, but are not limited to, excavating and disposing off-site soil as required for the new channel alignment, clearing and grubbing, demolition of existing structures, erosion control, and site restoration for approximately 5,533 LF of channel.  Approximately 4,680 LF of channel remains unimproved upstream, with those improvements slated to be included within this project, to be considered Phase III. Survey data has been collected on this most upstream section. Routine maintenance of clearing overgrowth, trees, and obstructions; minor erosion control and slope stabilization; and desilting is planned to maintain existing conveyance capacity. Those maintenance operations are projected to begin late 4th quarter 2018 or early 1st quarter 2019 (calendar year).  The following Phase III mitigation action is proposed, as recommended within the Hydraulic Analysis for Little Cedar Bayou Watershed HCFCF Unit F216-00-00: lowering the flow line of the Bayou 1 - 2 feet, from W. Madison to Sens Rd. Current channel side slopes would be modified to achieve 3:1 side slopes from W Madison St to Sens Rd. An estimated 200,000 cubic yards are to be excavated from the channel. Over excavation is provided to yield sufficient storage volume in the pond after sitation.	Feasibility	Kick-off meeting held on February 1, 2022, to initiate Phase 3 modeling efforts. Modeling is expecting to be completed within 9-months.	TBD	HCFCF Bond - \$8,000,000; ARPA - TBD	\$2,000,000.00	\$3,055,232.00	Dec 2022	15%	Yes
5	8th Street Madison to Main Paving and Drainage	Public Works	The segment of 8th St from W. Madison St to W. Main St is considered part of Old La Porte, which was generally noted in the City-Wide Drainage Study as not having sufficient storm sewer capacity due to undersized storm sewer, undersized storm inlets, or not enough storm inlets. RPS-Klotz provided an analysis of the existing storm sewer system and identified problem areas within the project limits. Additional analysis is required to determine most efficient improvement alternative.	Phase 1 - Complete; Phase 2 - Final Design	Phase 1 construction is complete. Staff reviewing 90% plans for Phase 2. Consultant is preparing drainage impact analysis, to be submitted to Harris County for review/approval.	Phase 1 - \$325,000; Phase 2 - \$3,400,000	Phase 1 - \$325,775.30; Phase 2 - \$3,472,757	\$125,000.00	\$1,140,000.00	Phase 1 - November 30, 2021; Phase 2 - August 2022	Phase 1 - 100%; Phase 2 - 75%	Phase 1 - Yes Phase 2 - Yes
6	8th & D Storm Water Conveyance Improvements	Public Works	The area generally bounded by 8th Street to the west, Main Street to the north, 5th Street to the east, and D Street to the south experiences flooding during heavy rain events due to undersized culverts within the area. Increasing culvert sizes within the area will provide additional conveyance capacity within the existing open ditch system.	Construction	This project has been incorporated into the 7th Street Rehabilitation Project. Construction activity began on September 13, 2021. Storm sewer related infrastructure is approximately 80% complete.	\$4,800,000.00	N/A	N/A	\$4,867,000.00	October 2022	15%	Yes
7	Battleground Estates Phase II	Public Works	A proposed conditions hydraulic model was developed during the preliminary design for the N P Street Culvert Improvement Project, which recommended replacing the upstream portion of the existing composite structure at N P Street, with structures matching the downstream portion of the composite structure. That project allows for full utilization of the structure's capacity, as well as protect the channel during rainfall events that produce higher amounts of runoff. Per the recommendations of the Phase I report, a more detailed Phase 2 engineering analysis of segments F101-00-00 and F101-08-00, that are upstream of N P Street, as well as an evaluation of the roadside ditch drainage conduits within Battleground Estates should be performed to identify necessary improvements to address structural flooding within the area. The more detailed study would evaluate the impacts of culverts located upstream of N P Street, along F-101-00-00 resulting from the 10-, 50-, and 100-year rain event. Channel improvements, and increasing culvert sizes to provide sufficient capacity within culverts along the roadside ditches are the anticipated mitigation efforts.	Feasibility	Staff has completed the review of responses to RFD. Staff has identified potential design consultant and anticipates initiating preliminary engineering phase in October. Potential for ARPA funds to be utilized to supplement project funding.	TBD	ARPA - TBD	50/50	\$215,000.00	August 2023	0%	No
8	Coupland Drive	Public Works	The proposed storm sewer improvements include re-sloping Coupland Drive to drain towards inlets located throughout the subdivision. The inlets will drain into proposed storm sewer ranging in size from 24" to 30" RCP. This storm sewer will then flow underneath the existing roadside ditch along L Street to a combined outfall with the existing roadside ditch to Big Island Slough. The proposed storm sewer underneath the existing ditch on L Street will be 42" RCP and the combined outfall will need to be a 60" RCP. These improvements will result in no net fill within the Big Island Slough 100-year floodplain. The proposed storm sewer was sized for the 5 year storm event, less the City of La Porte drainage criteria.	Final Design	Harris County has required the design to be updated to include Atlas 14 rainfall intensity. Design update expected complete. Bid phase to be integrated into Lomax LRT Station Project.	\$1,550,000.00	N/A	N/A	\$1,310,000.00	November 2022	100%	Yes







## REQUEST FOR DRAINAGE & FLOODING COMMITTEE AGENDA ITEM

Agenda Date Requested: March 14, 2022

Requested By: Lorenzo Wingate, Asst. Director

Department: Public Works

☒ Report    ☐ Resolution    ☐ Ordinance

### Appropriation

Source of Funds: N/A

Account Number: N/A

Amount Budgeted: N/A

Amount Requested: N/A

Budgeted Item:    ☐ Yes    ☐ No

Exhibits:

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### SUMMARY & RECOMMENDATION

Opportunity to discuss any drainage concerns not covered by previous items.

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### ACTION REQUIRED BY DRAINAGE AND FLOODING COMMITTEE

Receive report, and provide staff with direction, as necessary.

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Approved for Drainage Committee Agenda

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Corby D. Alexander, City Manager

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Date