



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 January 9, 2023, 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. Attend via a screen using the link

<https://us02web.zoom.us/j/82478450075?pwd=RkNZNjNSczYyb2NSM3B3eFVYcnVKUT09>.

Join by phone at 888-475-4499 or 877-853-5257. The meeting ID is 824 7845 0075 and the passcode is 857930.

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 Drainage and Flooding Committee regular meeting held on November 14, 2022. [Councilperson Jay Martin, Chair]
 - (b) Presentation, discussion, and possible action regarding status of 100-acre-foot detention pond project near the Pasadena Convention Center and Brookglens Subdivision as established in 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 January 9, 2023, 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, in compliance with Chapter 551, Texas Government Code.

DATE OF
POSTING
TIME OF
POSTING
TAKEN DOWN

Lee Woodward

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 NOVEMBER 14, 2022

The Drainage and Flooding Committee of the City of La Porte met on Monday, November 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: Chuck Engelken, Jay Martin, Mandi Williams

Committee Members attending remotely: None

Committee Members absent: Bill Bentley (alternate)

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

CALL TO ORDER – Chairman Martin called the meeting to order at 5:32 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 comments.

3. STATUTORY AGENDA

- a. Presentation, discussion, and possible action to approve the minutes of the Drainage and Flooding Committee regular meeting held on October 10, 2022. [Jay Martin, Chair]**

Member Engelken moved to approve the minutes; the motion was seconded by Member Williams; the motion was adopted, 3-0.

- b. Presentation, discussion, and possible action regarding the status 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]**

Ray Mayo, Director of Public Works, said the U.S. Army Corps of Engineers was reviewing a wetlands delineation report prepared by the City of Pasadena. Member Engelken asked that every tool at the City's disposal be used to keep the project moving. Mr. Mayo said there had not been any submission to Planning from HCFCD on the proposed street closures around a south retention basin in Brookglen.

- 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. Mayo said the projects were being discussed regularly with HCFCD.

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

Mr. Mayo said the 7th Street project was wrapping up and that it was hoped the Coupland bid would be out the week after Thanksgiving.

- 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]**

There were no further concerns.

4. SET NEXT MEETING

The next meeting was set for January 9, 2023.

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.*

There were no comments.

ADJOURN – The meeting was adjourned without objection at 5:44 p.m.

Lee Woodward, City Secretary



REQUEST FOR DRAINAGE & FLOODING COMMITTEE AGENDA ITEM

Agenda Date Requested: January 09, 2023
Requested By: Lorenzo Wingate, Asst. Director
Department: Public Works
☒ Report ☐ Resolution ☐ Ordinance

Exhibits:

| Appropriation | |
|-------------------|--|
| Source of Funds: | <u>N/A</u> |
| Account Number: | <u>N/A</u> |
| Amount Budgeted: | <u>N/A</u> |
| Amount Requested: | <u>N/A</u> |
| Budgeted Item: | <input type="radio"/> Yes <input type="radio"/> No |

SUMMARY & RECOMMENDATION

The City of Pasadena is preparing a wetlands delineation report to be submitted to the USACE as part of an Approved Jurisdictional Determination (AJD) request. The AJD was submitted to the USACE on October 5th, and the USACE is expected to respond within 120 days. The drainage impact analysis was submitted to HCFCD in mid-October. Further project efforts are on-hold, pending the USACE determination and HCFCD review of the drainage impact analysis.

ACTION REQUIRED BY DRAINAGE AND FLOODING COMMITTEE

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

Approved for Drainage Committee Agenda

Corby D. Alexander, City Manager

Date



REQUEST FOR DRAINAGE & FLOODING COMMITTEE AGENDA ITEM

Agenda Date Requested: January 09, 2023

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

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 be present to discuss the status of HCFCD projects.

ACTION REQUIRED BY DRAINAGE AND FLOODING COMMITTEE

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

Approved for Drainage Committee Agenda

Corby D. Alexander, City Manager

Date



REQUEST FOR DRAINAGE & FLOODING COMMITTEE AGENDA ITEM

Agenda Date Requested: January 09, 2023

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

SUMMARY & RECOMMENDATION

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

ACTION REQUIRED BY DRAINAGE AND FLOODING COMMITTEE

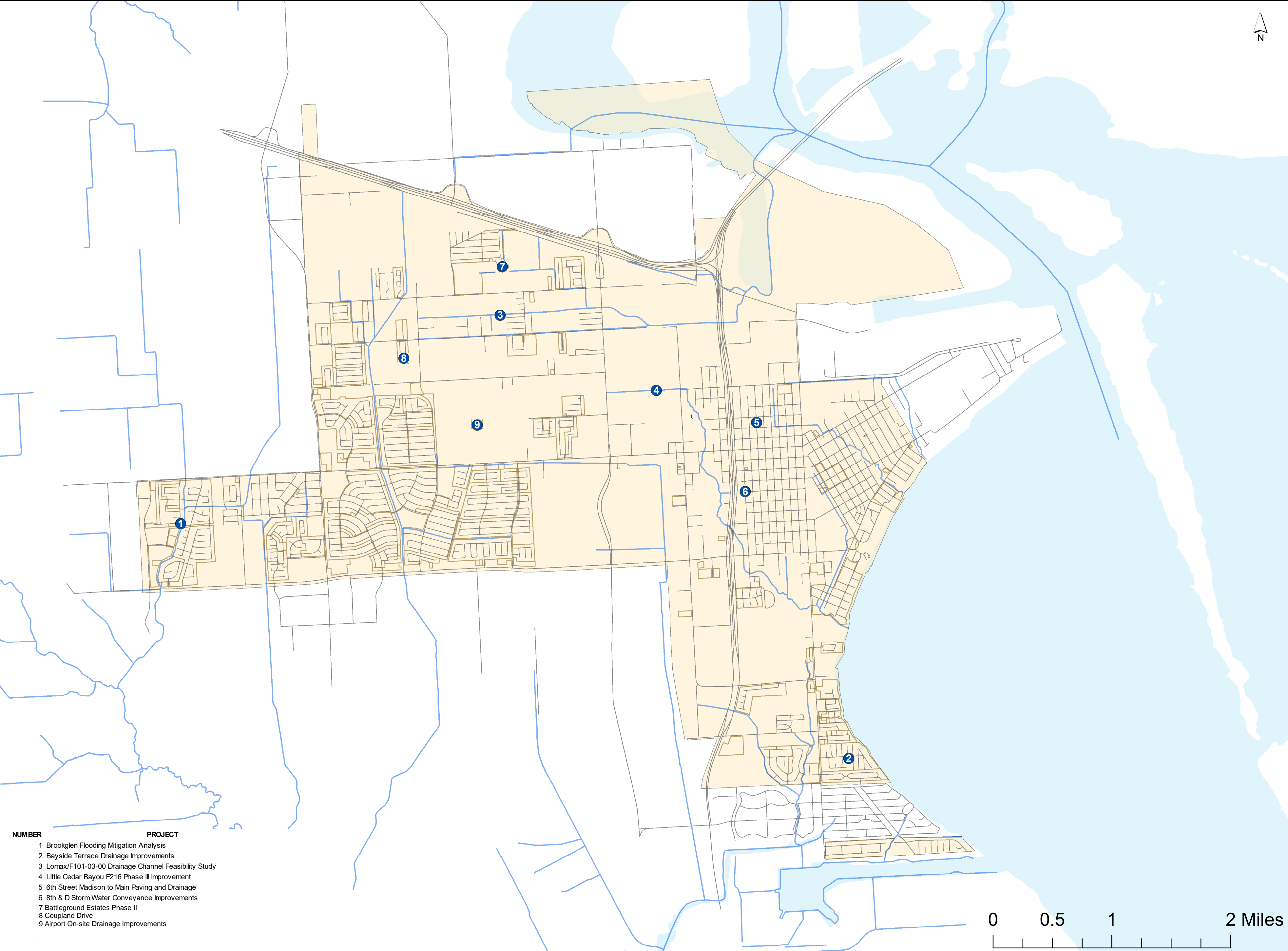
Receive report, and provide staff with direction, as necessary.

Approved for Drainage Committee Agenda

Corby D. Alexander, City Manager

Date

The City of La Porte Drainage Projects 2019

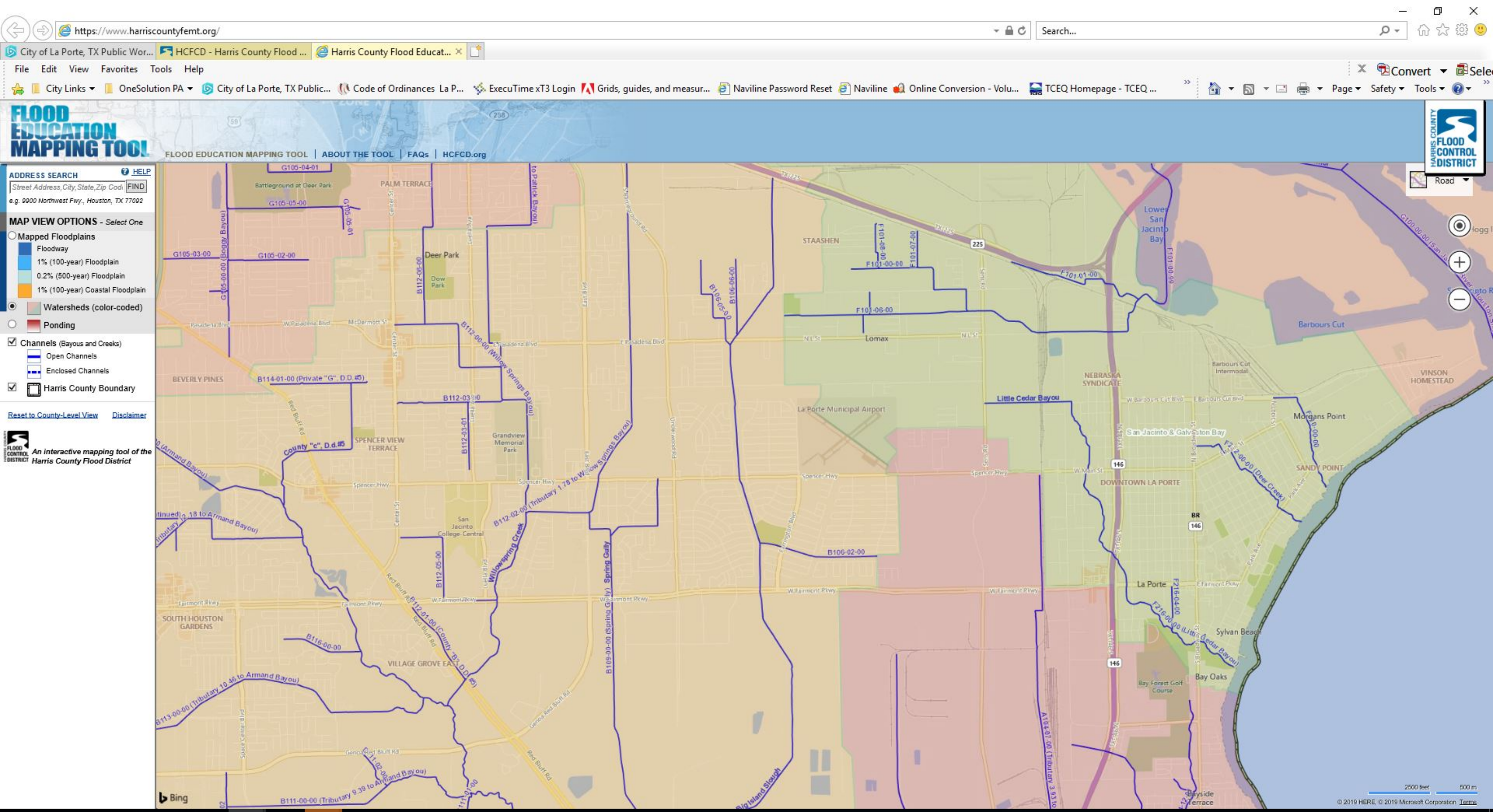


DRAINAGE PROJECTS

*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 | Brook glen Flooding Mitigation Analysis | HCFC / Public Works | The 2009 City-wide Drainage Study identifies the Brook glen 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 Brook glen area. This analysis would expand upon the recommendations provided within 2009 study. | HCFC (NCRS) - Final Design; COLP - Feasibility/Preliminary Engineering | The existing conditions drainage model is being developed utilizing field data and record drawings. preliminary modeling results indicate that the existing storm sewer is undersized for current rainfall conditions. Modeling continues through next month, while survey data is being obtained. Final design is expected to begin upon completion of preliminary engineering, with a target construction start date of March 4, 2024. The project is expected to be completed by June 30, 2025. | \$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 - \$4,275,000 | NCRS - TBD; 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 Fendren 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 flows 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. | Bidding | The project solicitation is expected to be advertised in mid-late January. Project award is targeted for March 2023, with construction expected to begin by mid-April 2023. | \$8,821,834.36 | Pct. 2 Partnership - \$2,982,496 | Harris County - \$2,982,496; COLP - \$4,356,041 | \$5,405,000.00 | TBD | 50% | Yes |
| 3 | Lomax/F101-03-00 Drainage Channel Improvements | HCFC | Harris County Flood Control District's (HCFC) 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 18", 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. | Feasibility | HCFCD extended the limits of the initial drainage study to include the area from Valleyview to Lomax School Road. New project limits are currently being evaluated by HCFCD to determine additional project options. | \$3,400,000.00 | HCFC Bond; ARPA - TBD | 50/50 | \$950,000.00 | TBD | 10% | No |
| 4 | Little Cedar Bayou F216 Phase III Improvements | HCFC / 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 HCFCD Unit F216-00-00: lowering the flow line of the Bayou 1 - > 2feet, 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 siltation and build-up in the pond bottom. | Feasibility | The feasibility of several project options are being evaluated. A draft of the preliminary engineering report is expected by the end of January 2023. Staff, consultant, and HCFCD, participate in bi-weekly project status meeting to discuss project progression. | TBD | HCFC Bond - \$8,000,000; ARPA - TBD | \$2,000,000.00 | \$3,055,232.00 | TBD | 40% | Yes |
| 5 | 6th Street Madison to Main Paving and Drainage | Public Works | The segment of 6th 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 2 - Final Design | Design consultant is coordinating with CenterPoint Energy to address potential utility conflicts identified in the 90% plans. Drainage Impact Analysis is pending HCFCD approval. Staff is coordinating with HCFCD for mitigation credits. USACE has acknowledged receipt of pre-construction notice. Staff is awaiting further direction from HCFCD related to environmental clearances. | Phase 2 - \$3,400,000 | Phase 2 - \$3,472,757 | \$125,000.00 | \$1,140,000.00 | Phase 2 - TBD | Phase 2 - 90% | 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 100% complete. | \$4,800,000.00 | N/A | N/A | \$4,867,000.00 | December 2022 | 95% | 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 is re-considering utilization of ARPA funding on this project, as ARPA funding may be reallocated to higher priority projects. | 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, per the City of La Porte drainage criteria. | Bidding | The bid solicitation advertised on September 15th, as part of the Lomax Lift Station Consolidation Project. Bid were received in December 2023, but exceeded the budgeted amount. The bid will be presented to Council, at the January 9th meeting, with a staff recommendation to reject the bid. Staff expects to rebid the project in the 1st quarter of 2025. | \$1,550,000.00 | N/A | N/A | \$1,310,000.00 | TBD | 50% | Yes |





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Department: Public Works
☒ Report ☐ Resolution ☐ Ordinance

| Appropriation | |
|-------------------|--|
| Source of Funds: | <u>N/A</u> |
| Account Number: | <u>N/A</u> |
| Amount Budgeted: | <u>N/A</u> |
| Amount Requested: | <u>N/A</u> |
| Budgeted Item: | <input type="radio"/> Yes <input type="radio"/> No |

Exhibits:

SUMMARY & RECOMMENDATION

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

ACTION REQUIRED BY DRAINAGE AND FLOODING COMMITTEE

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

Approved for Drainage Committee Agenda

Corby D. Alexander, City Manager

Date