MANDI WILLIAMS COUNCILPERSON

642021.



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 July 10, 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/83612181770?pwd=Y0JZOU54YzdUTFh4SEYvNVQvS1ZDUT09. Join by phone at 877-853-5257 or 888-475-4499. The meeting ID is 836 1218 1770 and the passcode is

- 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 meeting held on June 12, 2023. [Councilperson Jay Martin, Chair]
- (b) Presentation, discussion and possible action regarding the Preliminary Engineering Report for Brookglen Subdivision Storm Sewer Improvements. [Ray Mayo, Director of Public Works]
- (c) Presentation, discussion, and possible action regarding status of 100-acre-foot detention pond project near the Pasadena Convention Center and Brookglen Subdivision, as established in amended interlocal agreement between the City of La Porte and the City of Pasadena. [Ray Mayo, Director of Public Works]
- (d) 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. [Ray Mayo, Director of Public Works]
- (e) Presentation, discussion, and possible action regarding the status of current drainage projects. [Ray Mayo, Director of Public Works]
- (f) Presentation, discussion, and possible action to provide administrative staff of the City with direction, if necessary, regarding additional drainage concerns. [Ray Mayo, 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 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 July 10, 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	
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Gee Woodward

Lee Woodward, City Secretary

JAY MARTIN, CHAIRMAN COUNCILPERSON

MANDI WILLIAMS COUNCILPERSON



CHUCK ENGELKEN MAYOR PRO TEM

BILL BENTLEY, ALTERNATE COUNCILPERSON

MINUTES OF THE DRAINAGE AND FLOODING COMMITTEE MEETING JUNE 12, 2023

The Drainage and Flooding Committee of the City of La Porte met on Monday, June 12, 2023, at the City Hall Council Chambers, 604 West Fairmont Parkway, La Porte, Texas, at 5:00 p.m. to consider the following items of business:

Committee Members present: Jay Martin, Chuck Engelken, 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 - Chair Martin called the meeting to order at 5:00 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 meeting held on May 8, 2023. [Councilperson Jay Martin, Chair]

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

b. Presentation, discussion, and possible action on proposed updates to fill dirt permitting regulations contained in Chapter 86 'Development Regulations' of the La Porte Code of Ordinances. [Teresa Evans, Planning and Development Director]

Director Evans noted the items and actions staff has taken following the last consideration of the item. <u>Member Engelken moved to approve the changes to proposed Ordinance</u> 2023-3923 regarding fill dirt permitting regulations for Chapter 86 'Development Regulations' of the La Porte Code of Ordinances; the motion was seconded by Member Williams; the motion was adopted 3-0.

c. Presentation, discussion, and possible action regarding status of 100-acre-foot detention pond project near the Pasadena Convention Center and Brookglen Subdivision, as established in amended interlocal agreement between the City of La Porte and the City of Pasadena. [Ray Mayo, Director of Public Works]

Mr. Mayo indicated that IDS, the consultant for the City of Pasadena, notified City staff that the USACE made a determination on the detention site. The determination is that certain wetlands on the west side of the pipeline will be considered non-jurisdictional. With this information, Pasadena has indicated that they wish to expand the detention site to 150 acre-feet. Mr. Mayo said the engineer has been authorized to begin topographic survey on the expanded detention area, and noting there would be a presentation at the next Committee meeting.

d. 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. [Ray Mayo, Director of Public Works]

Mr. Mayo said the consultant had provided an updated F216 report, which is under review.

Harris County Flood Control District's Jonathan St. Romain said the environmental assessment has not been completed on the Brookglen north detention basin, which is necessary for federal funding, but he expected the project to be bid in early August and construction to begin on the north basin then. He also confirmed potential street closures would come before the Committee separately for each of the north and south basins and that HCFCD would not be pursuing the closure on Gladwyne. Member Engelken expressed concern about the poor quality of the mowing of the lots purchased by Harris County and his appreciation that Mr. St. Romain came out to the meeting. On F212, the channel from Broadway along Main to East B, Mr. St. Romain said they were in final design for that project.

e. Presentation, discussion, and possible action regarding the status of current drainage projects. [Ray Mayo, Director of Public Works]

Mr. Mayo note the preliminary engineering report was complete on the City's project in Brookglen and a summary would be presented at the next Committee meeting. He also noted engineers were looking at the issues for Sens at H Street and drainage on an undeveloped area adjacent to Battleview St.

f. Presentation, discussion, and possible action to provide administrative staff of the City with direction, if necessary, regarding additional drainage concerns. [Ray Mayo, Director of Public Works]

Member Williams shared her concern about the diversion of funds from the Valley View Project. Mr. Mayo noted the County evaluated the bridge and found it was not the drainage issue, thereby freeing up that money, and that HCFCD was also funding from a bond and other financial resources, so that they could possibly pay for up to 80% of the project.

4. SET NEXT MEETING

The next meeting was set for July 10, 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.

The Committee thanked Mr. Mayo and his staff for cleaning up the bar ditches along South Broadway.

ADJOURN – The meeting was adjourned without objection at 5:40 p.m.

Lee Woodward, City Secretary



REQUEST FOR DRAINAGE & FLOODING COMMITEE AGENDA ITEM

Agenda Date	Requested: Jul	y 10, 2023
Requested B	y: _ Ray Mayo, D	Director
Department:	Public Works	
Report	C Resolution	C Ordinance

Exhibits: Preliminary Engineering Report Brookglen Drainage Improvements Presentation

Appropriation						
Source of Funds:	N/A					
Account Number:	N/A					
Amount Budgeted:	N/A					
Amount Requested:	N/A					
Budgeted Item:	C Yes C No					

SUMMARY & RECOMMENDATION

The Brookglen subdivision is located within the Armand Bayou Watershed (HCFCD Unit No. B100-00-00). The Brookglen sub-division had significant FEMA flood insurance claims during a June 1981 storm, Tropical Storm Alison, and Hurricane Harvey, with over 100 structures inundated during each event. Post Tropical Storm Alison, the Harris County Flood Control District (HCFCD) began buying out structures within the neighborhood, to prevent future losses. 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.

The combination of various improvements recommended within the City-wide Drainage Study are aimed at reducing the flood risk within the Brookglen area. Several of the recommended improvements within the various studies have been constructed, each providing incremental flood risk reduction within the Brookglen subdivision. In continuation of the phased approach to mitigating the flood risks within the Brookglen subdivision, a number of additional drainage improvements are proposed to further reduce the flood risks within the area. Proposed projects include but are not limited to: two additional detention ponds on existing buyout lots; increased capacity within the local storm sewer system; and a 100-acre detention pond.

ACTION REQUIRED BY DRAINAGE AND FLOODING COMMITTEE Receive and analyze the report to provide Staff with direction, as necessary.

Approved for Drainage Committee Agenda

Corby D. Alexander, City Manager





AGENDA

- Project Background
- Previous Studies
- Current Projects
- Existing Conditions
- Proposed Alternatives
- Recommendations



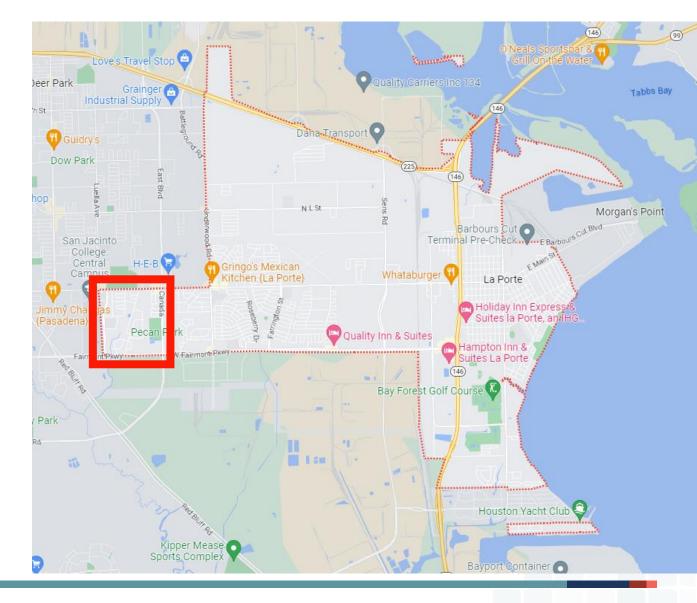
PROJECT SCOPE

- Evaluate existing system capacity and deficiencies utilizing InfoWorks 1D/2D model
- Develop improvement alternatives to reduce ponding within the neighborhood
- Develop Opinion of Probable Cost
- Prepare Impact Analysis Report



BACKGROUND

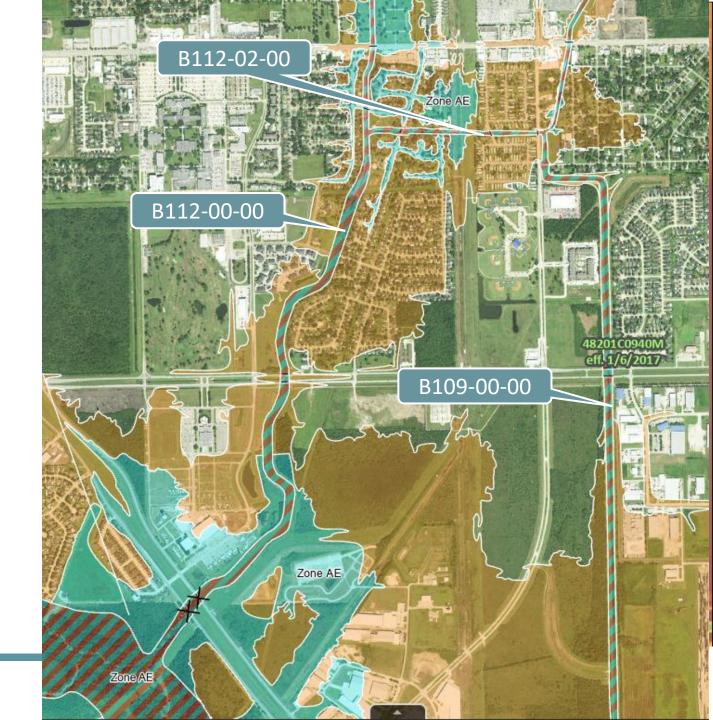
- West side of City of La Porte
- Mostly residential neighborhood
- Bounded by Fairmont Parkway and Canada St.



BACKGROUND

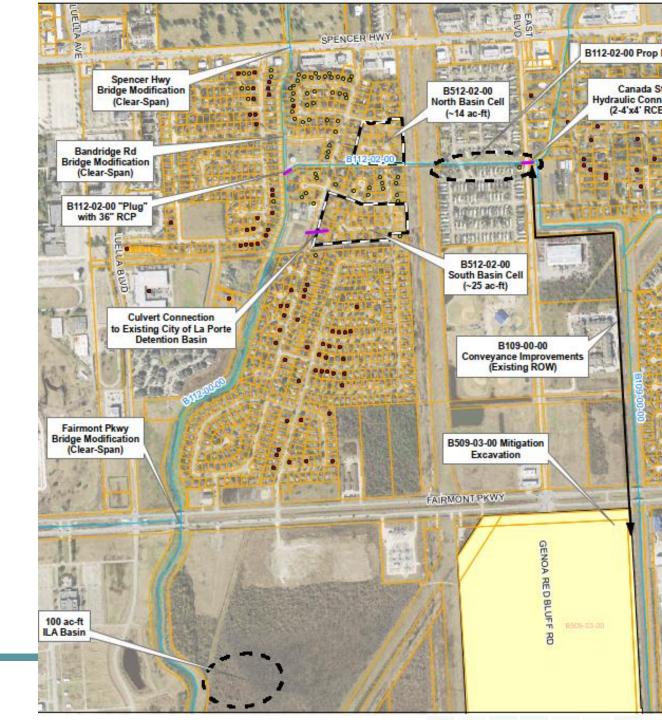
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- HCFCD Channels B112-00-00 (west) and B109-00-00 (east)
- Majority of area in the effective 500-year (0.2% AEP) floodplain
- Local storm sewer that outfalls into B112-00-00



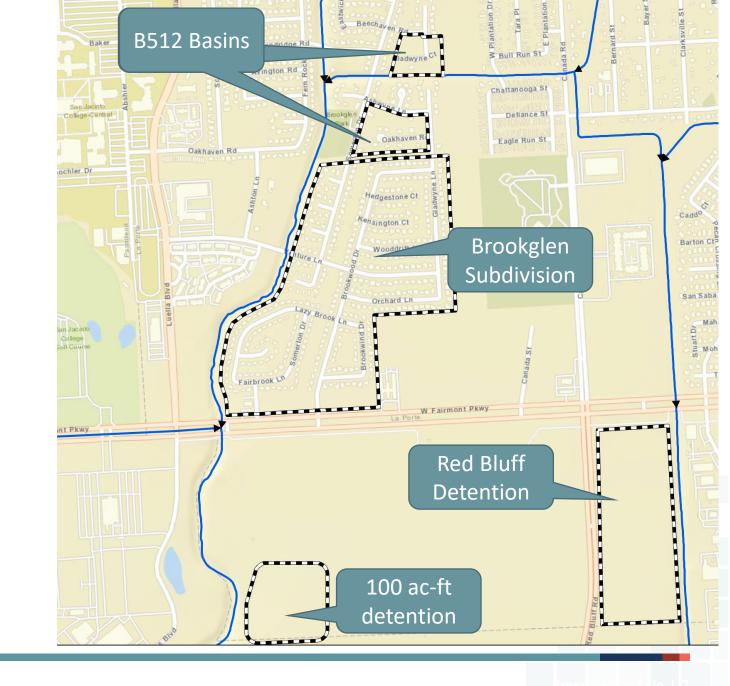
PREVIOUS STUDIES

- 2021 Watershed Study identified projects throughout Armand Bayou for improvement drainage
- Figure shows the recommendations from the study



ONGOING PROJECTS

- B512 Basins will reduce flows in B112-00-00 by providing mitigation storage
- Brookglen subdivision drainage improvements will provide additional storm sewer capacity for reduction in local ponding
- Genoa Red Bluff Detention provides mitigation capacity for reduced floodplain downstream of Brookglen on B109-00-00
- 100-acre foot detention pond reduces elevations in B112-00-00 at Fairmont and may mitigate Brookglen improvements



EXISTING CONDITIONS 2-YEAR RESULTS

- B112-00-00 is high but contained within the channel
- Ponding mostly caused by insufficient storm sewer capacity
- Ponding depths up to 1.4' near or at intersections
- Flooding is mostly contained within the ROW

A 2-year storm event correlates to approximately 5.3 inches within 24-hours

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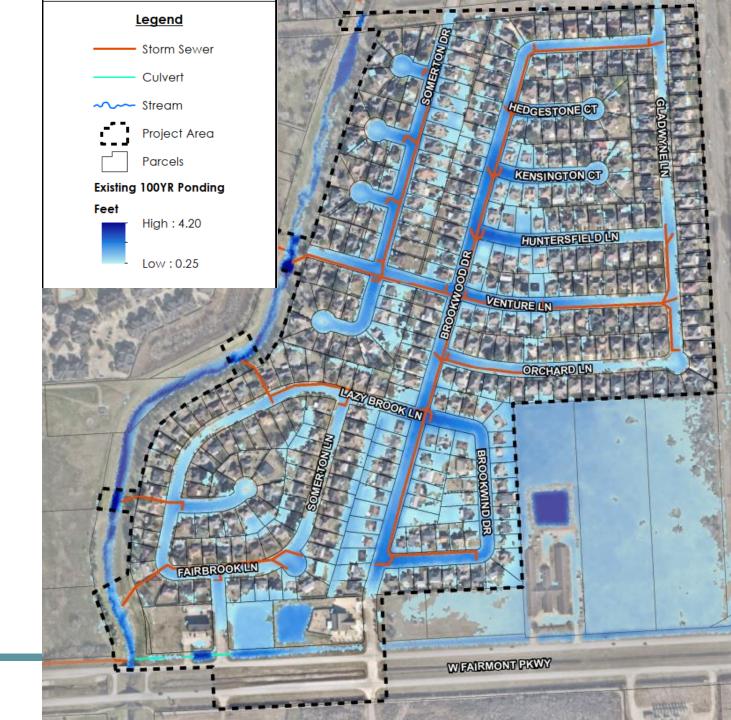


EXISTING CONDITIONS 100-YEAR RESULTS

- B112-00-00 is near bank full
- Ponding caused by insufficient storm sewer capacity in addition to the high channel tailwater
- Ponding depths up to 2.5' near or at intersections
- Flooding outside of ROW

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A 100-year storm event correlates to approximately 18 inches within 24-hours



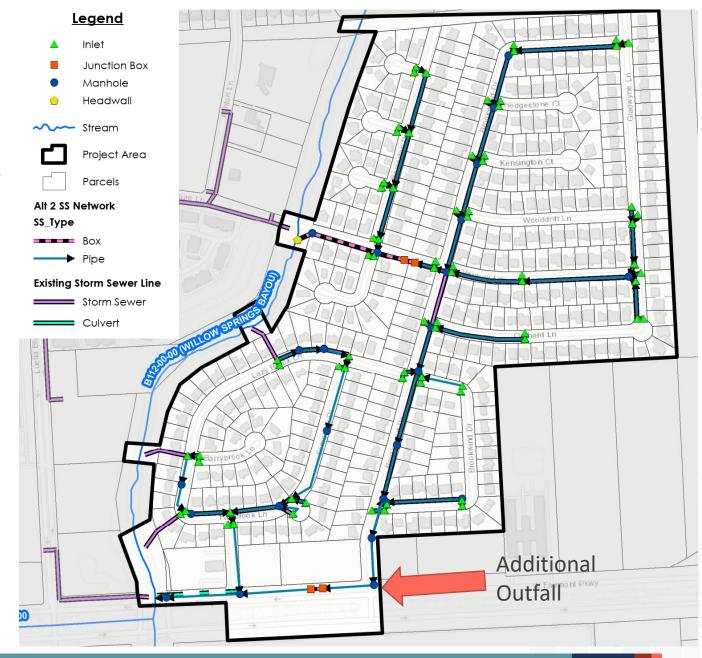
ALTERNATIVE 1 LAYOUT

- Upsized system to provide twice the capacity
- Outfalls abandoned along Lazy Brook Lane and replaced with an outfall a Fairmont Parkway
- Pipeline crossing conflict along Venture Lane
- 80 acre-feet of detention required
- \$15.7M O&P Cost (Polypropylene)
- \$17.2M O&P Cost (RCP)



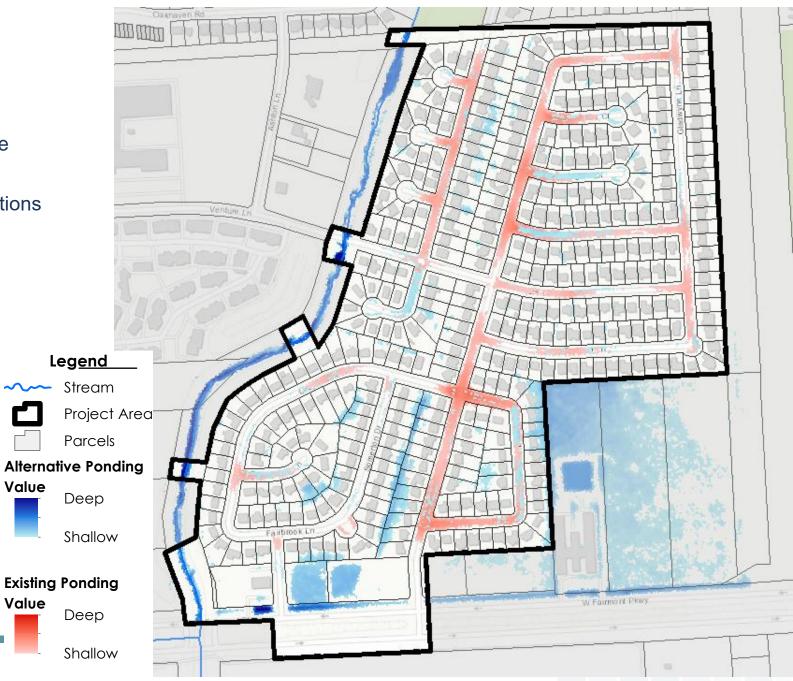
ALTERNATIVE 2 LAYOUT

- Upsized system to provide twice the capacity
- Outfalls abandoned along Lazy Brook Lane and replaced with an outfall a Fairmont Parkway
- Pipeline crossing along Venture Lane & Fairmont Parkway
- 80 acre-feet of detention required
- \$17.2M O&P Cost (Polypropylene)
- \$18.6M O&P Cost (RCP)



ALTERNATIVE 1 2-YEAR RESULTS

- Significant ponding reduction throughout the entire neighborhood
- Depth reduction up to 1.4' at major intersections
- 10.7-mile reduction of road inundation
- Ponding contained in City ROW
- Achieves 2-YR Level Of Service



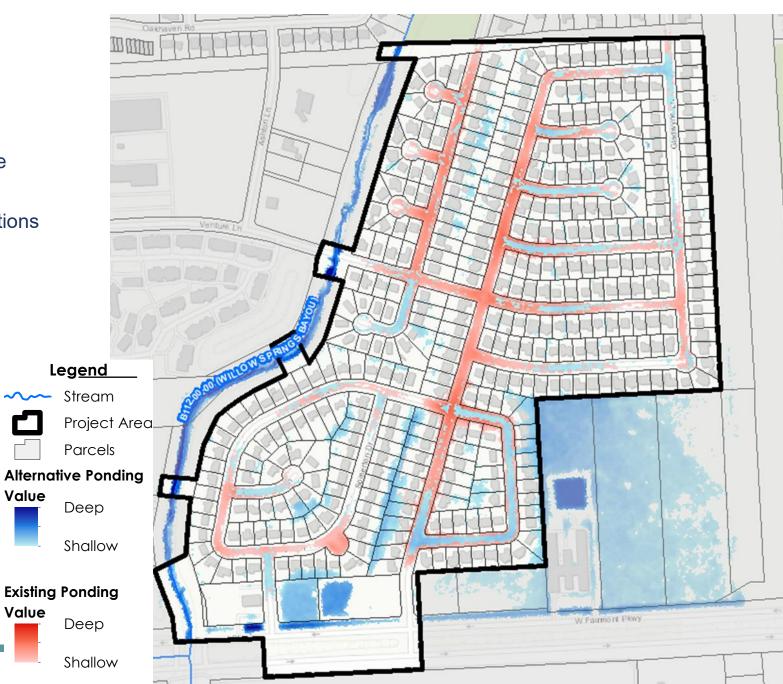
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ALTERNATIVE 1 10-YEAR RESULTS

- Significant ponding reduction throughout the entire neighborhood
- Depth reduction up to 1.7' at major intersections
- 10.4-mile reduction of road inundation
- Ponding contained in City ROW
- Achieves 10-YR Level Of Service
- Ponding persists behind the backlots of the homes along Brookwood (South)



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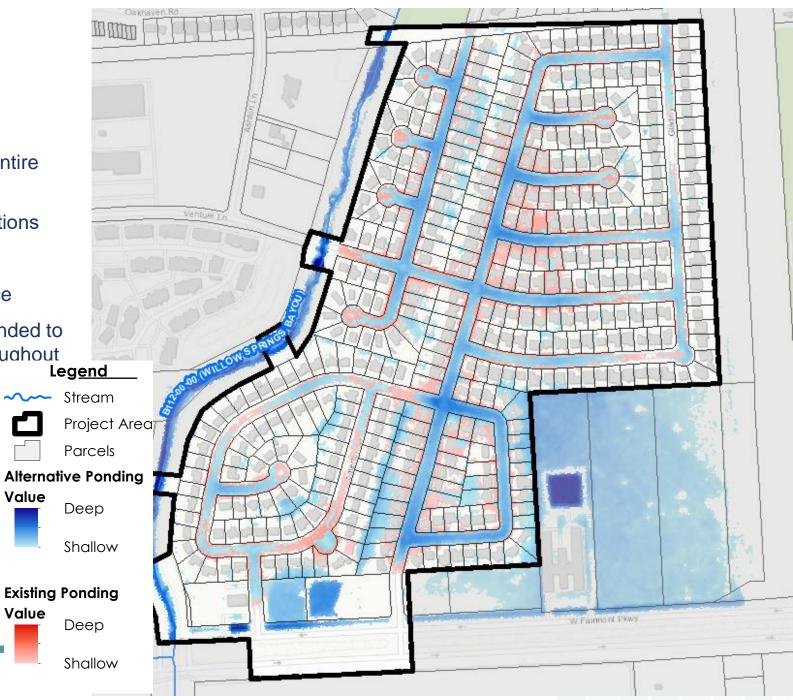


ALTERNATIVE 1 100-YEAR RESULTS

- Significant ponding persist throughout the entire neighborhood
- Depth reduction up to 0.7' at major intersections
- 1.5-mile reduction of road inundation
- Does not achieve a 100-YR Level Of Service
- Improvements to B112-00-00 are recommended to provide additional reduction in ponding throughout the neighborhood

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MITIGATION

- Mitigation provided by La Porte Interlocal Detention Pond
- 100 acre-feet of available detention capacity
- 80 acre-feet of detention required



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CANADA ST CONNECTION

- Redirecting flow along B112-02-00 (Willow Springs Tributary) to B109-00-00
- Proposed improvements include:
 - Plugging the confluence of B112-00-00 and B112-02-00 with a 36-inch CMP
 - Re-grading B112-02-00 to flow east to B109-00-00
 - Connecting B112-02-00 to B109-00-00 along Canada St.
 - Detention south of Genoa Red Bluff

36" CMP Plug	Flow Re-Direction	36" RCP or 4'x4' RCB Connection
	A REAL PROPERTY OF A READ REAL PROPERTY OF A REAL P	9-00-00
		ovements
	Red Bluff Detention	

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CANADA ST CONNECTION RESULTS

- 36-inch RCP Culvert connection
 - Reduces water surface elevations along B112-00-00 by 0.04'
 - Impacts elevations along B109-00-00 by 0.21'
 - 400 acre-feet of detention required to mitigate increases along B109-00-00
- 4-foot by 4-foot RCB connection
 - Reduces water surface elevations along B112-00-00 by 0.5'
 - Impacts elevations along B109-00-00 by 0.21'
 - 370 acre-feet of detention required to mitigate increases along B109-00-00
 - Channel Improvements are also required

Channel	Crossing	36" Culvert	4'x4' Culvert
B112-00-00	Bandridge	-0.02'	-0.47′
B112-00-00	Fairmont	-0.03'	-0.56′
B109-00-00	Canada	-0.11′	-0.93′
B109-00-00	Fairmont	-0.32′	-0.11′

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RECOMMENDATIONS

- Alternative 1 is recommended for implementation within two phases
- Phase 1 includes majority of storm sewer and roadways
 - \$10.6 Million
- Phase 2 (hatched) includes Lazy Brook & Gladwyne Ln
 - \$5.1 Million
- Implementation of channel and mitigation improvements so the Canada Street connection can be constructed



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REQUEST FOR DRAINAGE & FLOODING COMMITEE AGENDA ITEM

Appropriation						
Source of Funds:	N/A					
Account Number:	N/A					
Amount Budgeted:	N/A					
Amount Requested:	N/A					
Budgeted Item:	C Yes C No					

SUMMARY & RECOMMENDATION

The City of Pasadena prepared a wetlands delineation report and submitted it to the USACE as part of an Approved Jurisdictional Determination (AJD) request on October 5, 2022. The USACE's response was received, and it was determined that the forested wetlands on the west side of the pipeline corridor will not be jurisdictional. This allows for construction of a variation of Option 4 proposed by Hallf, which could increase the pond capacity to 150 acre-feet. A re-start meeting was conducted on June 9th, 2023, to authorize Hallf to proceed with design for the revised Option 4 configuration.

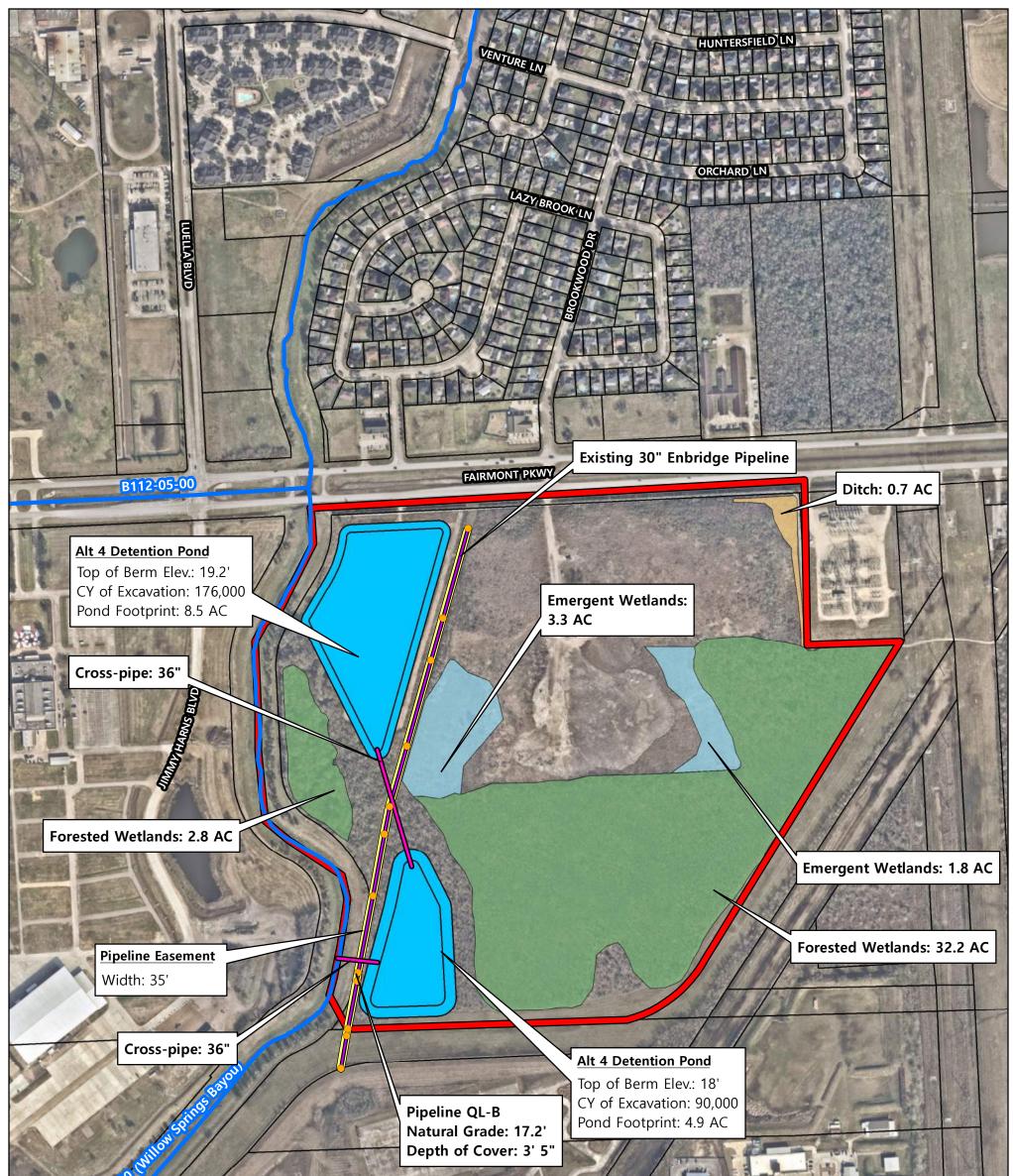
ACTION REQUIRED BY DRAINAGE AND FLOODING COMMITTEE

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

Approved for Drainage Committee Agenda

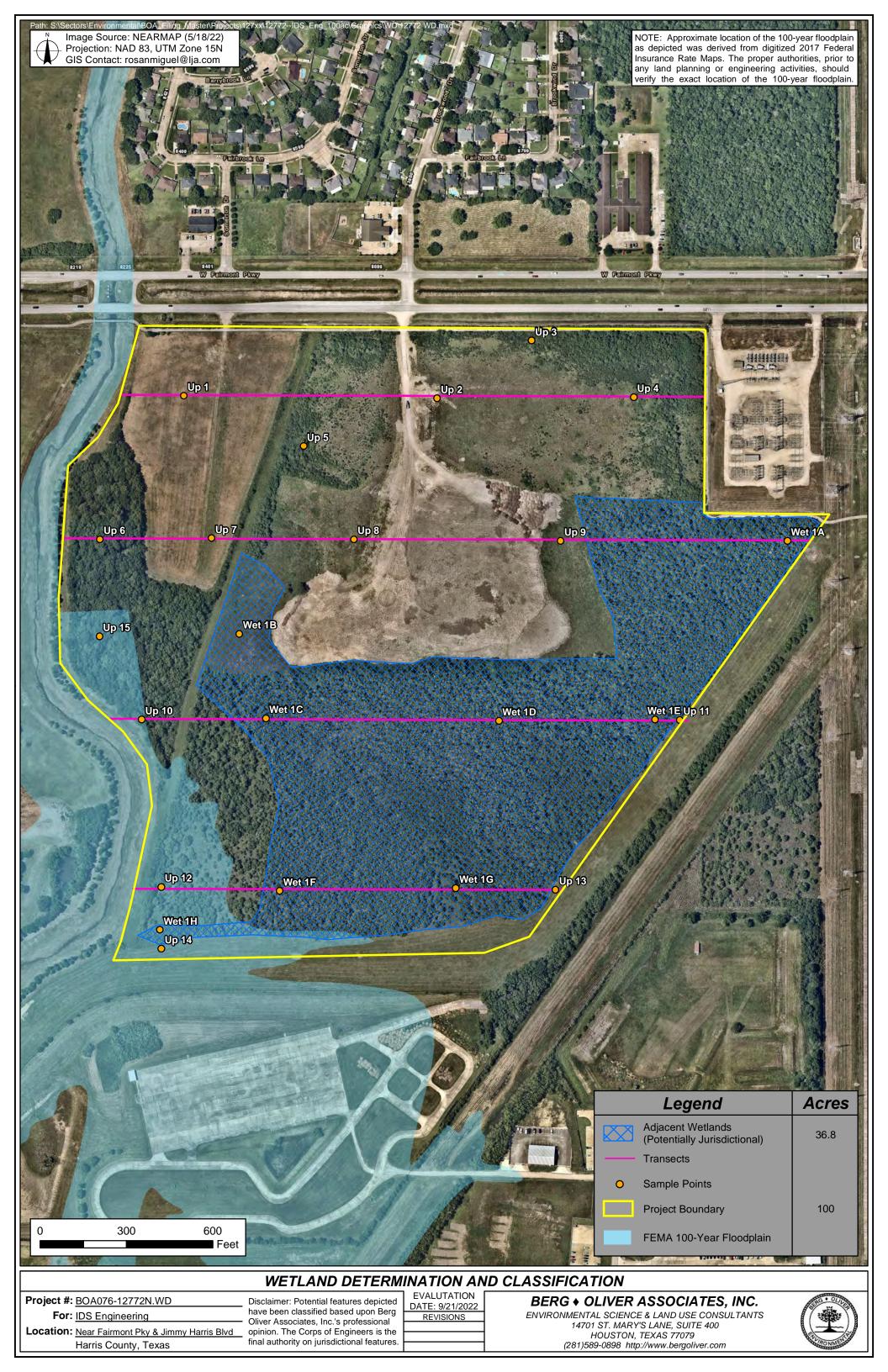
Corby D. Alexander, City Manager

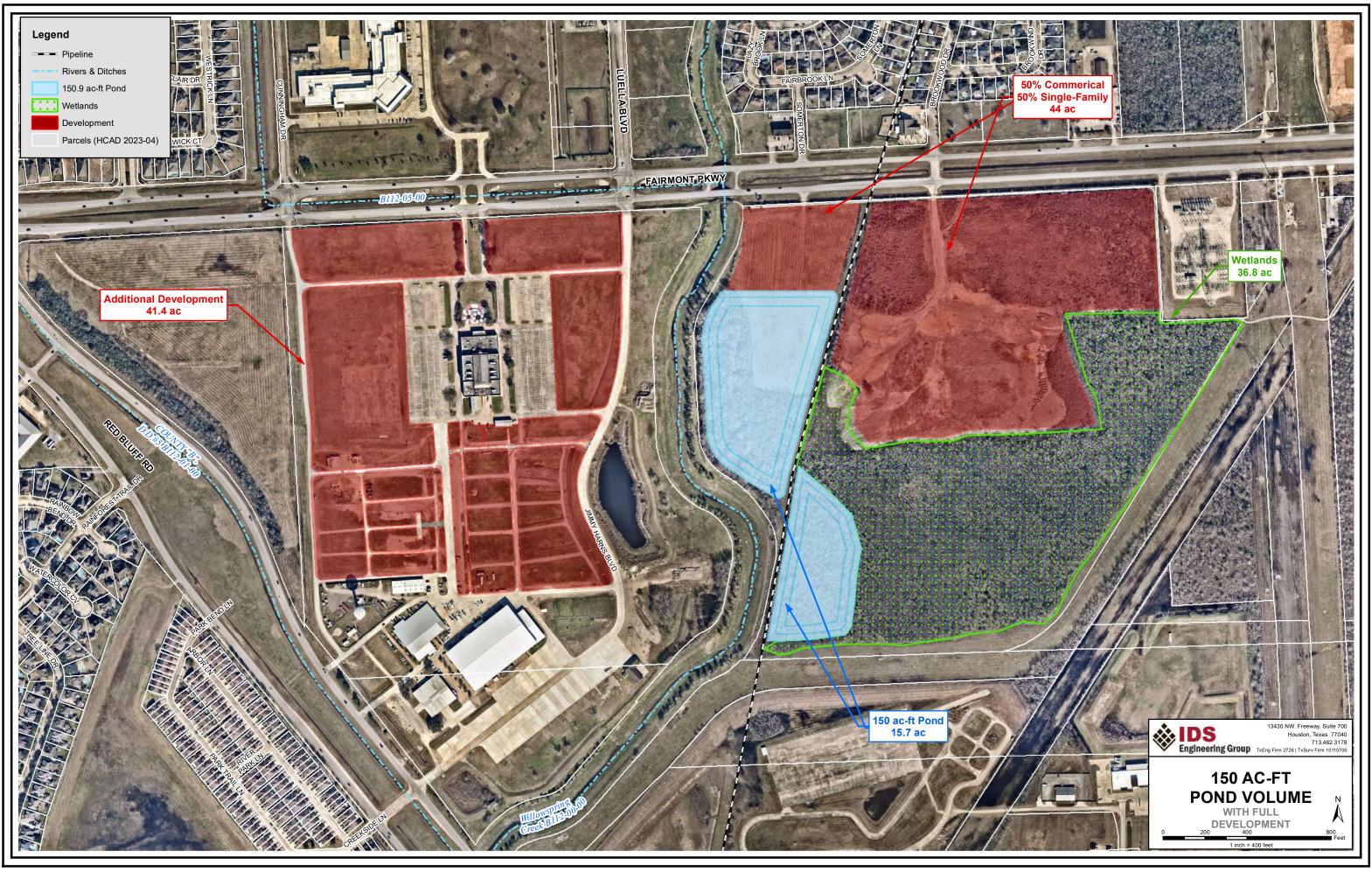
Date



entrance		Charles and the second se	H -
EGEND Pipeline Points Ditch	Notes: 1. NearMap 2022 2. Ponds footprint based on design		1,000
HCFCD Channels Emergent Wetland	with 100 ac-ft volume, 4:1 slopes, 30' berms and 1' of freeboard,	Feet	
Pond Outfall Forested Wetland	utilizing 2018 HGAC LIDAR.		
Pipeline Pipeline Easement	3. Wetland delineation is preliminary and subject USACE jurisdiction.	100 Acre-Foot Interlocal Detention Pond	Exhibit
Pond Location C Project Area		Pond Alternative #4	4
D R A F	-		

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REQUEST FOR DRAINAGE & FLOODING COMMITEE AGENDA ITEM

Agenda Date Requested: July 10, 2023 Requested By: <u>Ray Mayo, Director</u> Department: <u>Public Works</u> Report C Resolution C Ordinance

Exhibits:

Appropriation					
Source of Funds:	N/A				
Account Number:	N/A				
Amount Budgeted:	N/A				
Amount Requested:	N/A				
Budgeted Item:	O Yes O 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.

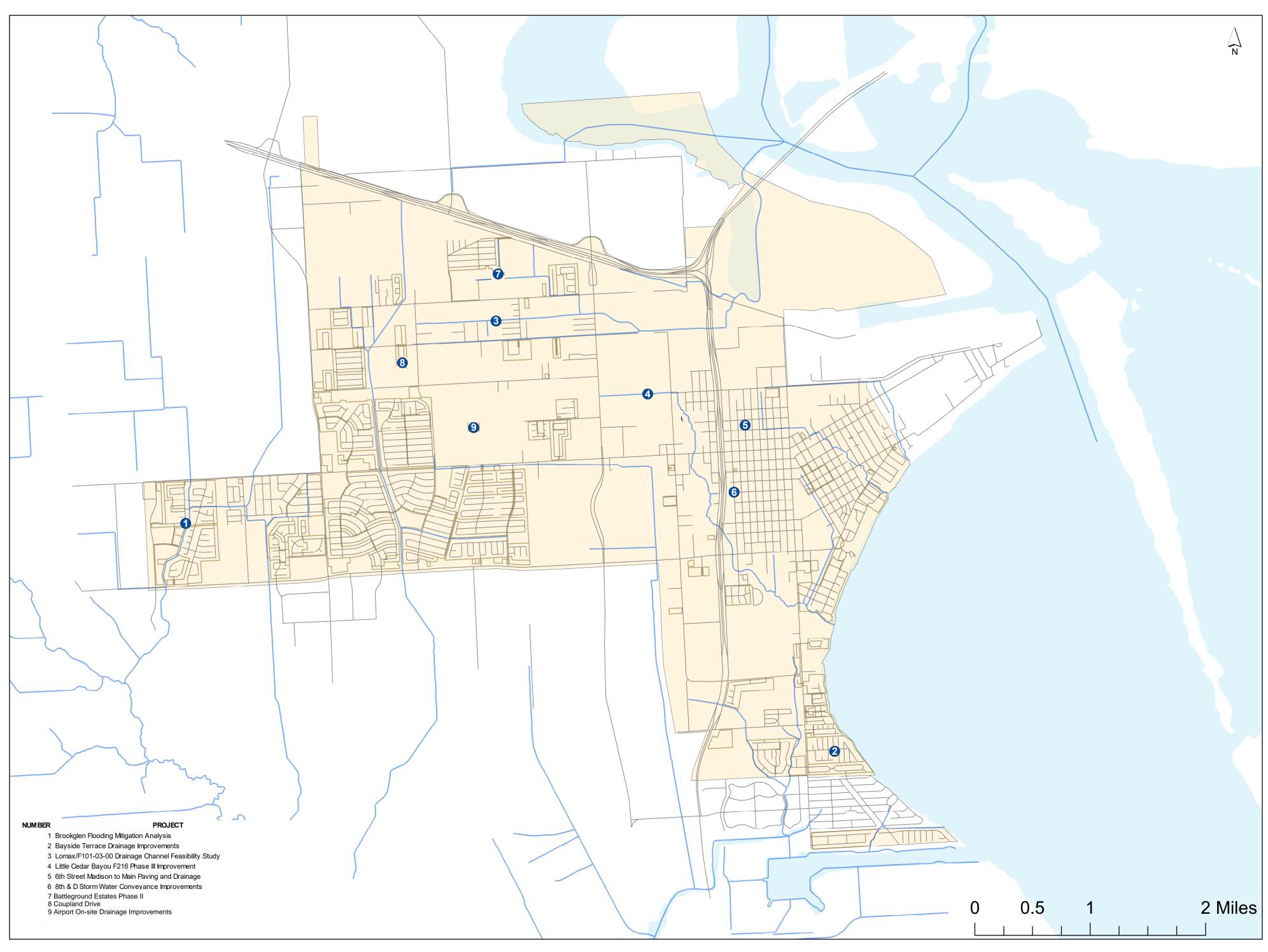
ACTION REQUIRED BY DRAINAGE AND FLOODING COMMITTEE Receive report, and provide Staff with direction, as necessary.

Approved for Drainage Committee Agenda

Corby D. Alexander, City Manager

Date

The City of La Porte Drainage Projects 2019

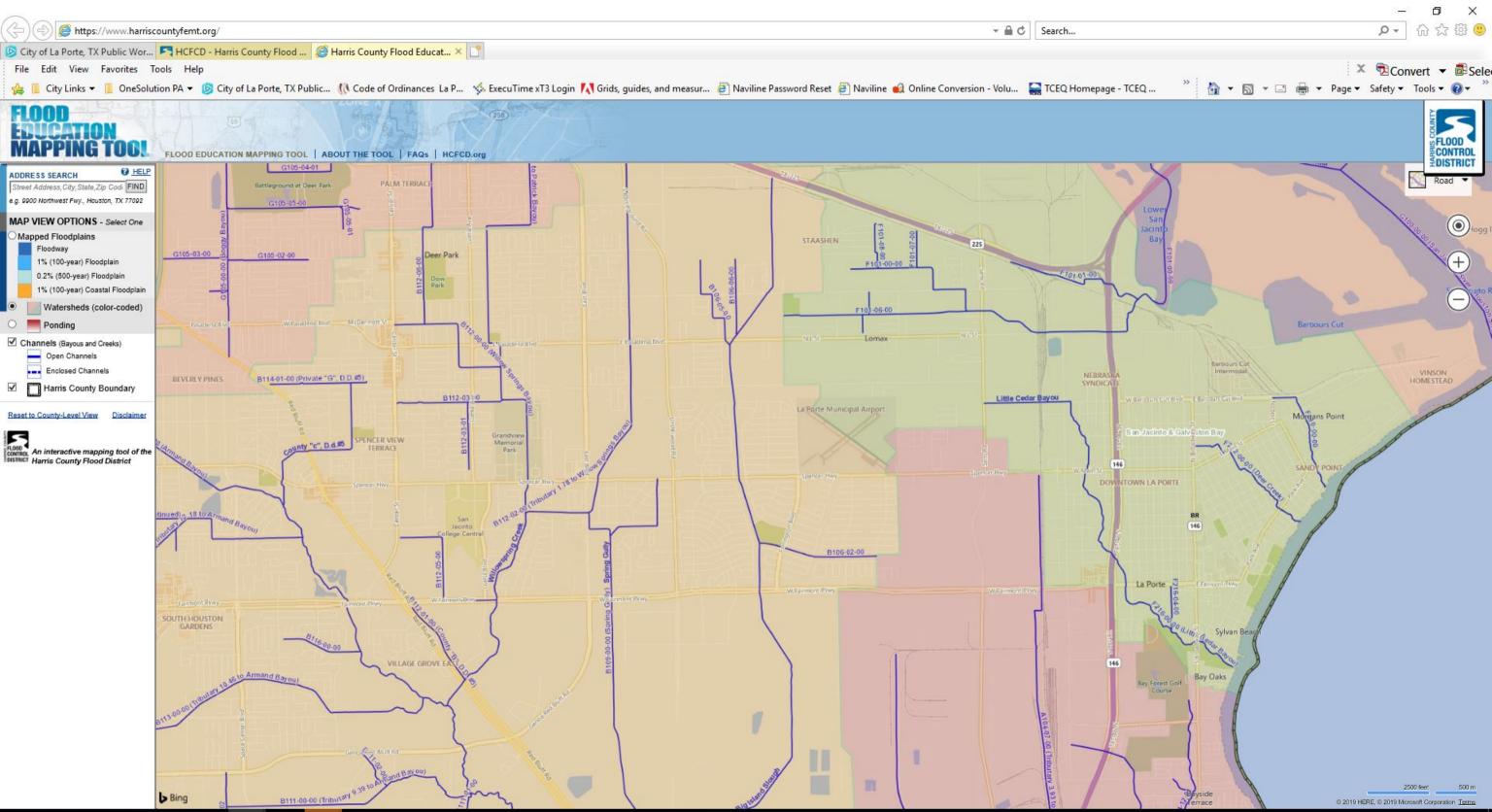


DRAINAGE PROJECTS

*Estimated completion date references total project completion.

	**% complete references	percent com	pletion of	current pro	ject phase
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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	HCFCD / Public Works	The 2000 City-wide Drainage Study Identifies the Brook glan subdivision as an area with significant drainage/floading problems, attributed to a moture of Inatogunate severages and instificent characterization of the several compounded improvements recommended within the B112-00-0 Channel. Compounded indentification of the several several several several several several several indentification of the several	HCFCD (NCRS) - Final Design; COLP - Feasibility/Preliminary Engineering	The existing conditions drainage model is being developed utilizing field, data and record drawings, preliminary modeling results results and the second drawings preliminary modeling results results. Staff is currently reveived the hinal drafter of the PER, received on April 24th. Final design is expected to begin upon completed by Alarch 4, 2024, The project is expected 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 - TDB	NCRS - 35%; COLP - 0%	NCRS - Yes Bond No COLP - TBD
2	Bayside Terrace Drainage Improvements	Public Works	Approximately 800 linear feed 7 RCP tope, ranging in tize from 15° to 24° exists within the Bayatie Terraces Subdivision, which has not been properly maintained due to access issues attributed to limited access to infrastructure, provided within a five foot ultilly easierent. Protrions of Hamilton Seet and Fonders Deste ultitze this system to convey stormwater to its outfail point of Galveston Bay. The system fish to function drainage study would clocuss facability of renduring this from the 300 feed of RCP. towards Bayaties Dr. and ultiting the existing system within Bayatide Dr. to convey the storm water within the existing system.	Bidding	Bid advertisements were published on April 6th and April 13th. A pre-bid conference was held on April 18, 2023. Bids are due on May 3rd.	\$8,821,834.36	Pct. 2 Partnership - \$2,982,496	Harris County - \$2,982,496; COLP - \$4,356,041	\$5,405,000.00	TBD	75%	Yes
3	Lomax/F101-03-00 Drainage Channel Improvements	HCFCD	Harris Courty Flood Control Districts (HCFCD) F101-68-00 Channel system conveys som water rundo from the Lonax area and ultrantety outfails into Lovers an Jacinto Bay. The downstream section of the channel has been improved to ultrante capacity. An existing popeline control, containing several joselines isocated at depths ranging from approximately 2 to 15°, cross the channel, limiting the depth of potential channel improvements. Moderahitemary rain events, compounded with backwater conditions from this section of the channel, contributes to wide-spread flooding within the Lonax 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	HCFCD Bond; ARPA - TBD	50/50	\$950,000.00	TBD	75%	No
4	Little Cedar Bayou F216 Phase III Improvements	HCFCD / Public Works	Phase I and Phase II Improvements to Little Coder Bayou, from Hay 144 to Maldion, have either been completed or are currently avanded for construction. Phase I and Phase II improvements include, but are not limited to, secarvating and disposing off-all phase II improvements include, but are not limited to, secarvating and applicing, declares of channel. Approximately 4,880 LF of channel remains unimproved upstream, with those improvements liablest coefficient of the secarvate the secarvate the secarvate channel. Secarvate the secarvate the secarvate the secarvate the secarvate channel. Secarvate the secarvate the secarvate the secarvate the secarvate channel. Secarvate the secarvate the secarvate the secarvate the secarvate secarvate the secarvate the secarvate the secarvate the secarvate the secarvate secarvate the secarvate the secarvate the secarvate the secarvate the secarvate maintenance operations are projected to begin late 40 quarter 2016 or early tist quarter 2019 (calinating ure). Waterhale MCCOU Inter 216-60-00. Inverting the flow line of the Bayou 1-1 24 et. from W. Madicino 15 Sen Rd. Current channel side secarvate 20,000 cube yates are to be excaved from the channel. Over excavations is being and the secarvate the secarvate throm the channel. Over excavations the secarvate 20,000 cube yates are to be excaved from the channel. Over excavations the secarition of the Bayou 1-1 24 et. from W. Madicino 15 Sen Rd. An estimated 20,000 cube yates are to be excaved from the channel. Over excavations the second barries are the secarvated from the channel. Over excavations are second barries and the second second second second second second second and second barries.	Feasibility	The feasibility of several project options are being evaluated. The consultant is evaluating an additional project alternative that was not previously considered. The draft of the preliminary engineering report will be delayed, to ald/w for the new alternative to be evaluated. Staff, consultant, and HCPCD, participate in bi-weekly project status meeting to discuss project progression.	TBD	HCFCD Bond - \$8,000,000; ARPA - TBD	\$2,000,000.00	\$3,055,232.00	TBD	60%	No
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 Od La Porte, which was generally noted in the City-Web Drainage Study as not having sufficient stom server capacity due to undersized stom server, undersized storm inlest. PR-Stott provided an analysis of the existing stom server system and identified problem areas within the project limits. Additional analysis is regulated to determine most efficient improvement atlemative.	Phase 2 - Final Design	Drainage Impact Analysis has been approved by HCFCD. Staff is coordinating with HCFCD for mitigation credits. USACE has acknowledged receipt of pre-construction note. The project solicitation packet has been prepared, but the advertisement is on hold, pending USACE approval.	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 cast, and D-Street to the south experiences floating during heavy rain events due to undersized outwarts within the area. Increasing cultert sizes within the area will provide additional conveyance capacity within the existing open dich system:	Completed	This · project · has · been · incorporated · into · the · 7th · Street Rehabilitation · Project · Construction · activity · began · on · September 13, 2021 · Storm sever related infrastructure is · 100% complete.	\$4,800,000.00	N/A	N/A	\$4,867,000.00	February 2023	100%	Yes
7	Battleground Estates Phase II	Public Works	A proposed conditions hydraulia: model was developed during the perlimiting design for the N P Street Querk Improvement Project, which recommended neglecing the upstream portion of the existing composite structure at N P Street, with structures making the downstream portion of the composite structure. That project allows for full utilization of the structure's capacity, as well as protect the channel carring matrial events among detailed Phase 2 segmenting analysis of segments P110-00-00 and P110-00-00. that are upstream of N P Street, as well as an evaluation of the roadside dtruct draining among detailed Phase 2 segmenting analysis of segments P110-00-00 and P110-00-00 that are upstream of N P Street, as well as an evaluation of the roadside dtruct draining and the structure is the provide sufficient capacity within culverts along F-110-00- 00 resulting from the 10-55, and 100-year rain event. Channel improvement, and increasing culvert sizes to provide sufficient capacity within culverts along the roadside driches are the anticipated mitigation of toffs.	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 stom sever improvements include re-stoping Coupland Drive to drain towards intells could throughout her subdrivism. The interval will drain into proposed stom sever ranging in size from 24 to 30° ROP. This storm sever will then flow undernead the existing readated drink along. Usnet to a combined outfail with the axisting readated drink to Big bland Slough. The proposed storm sever undernead the ROP. These improvements will read it to not fill within the Big bland Slough 100-year floodplant. The proposed storm sever was sized for the 5 year storm event, per the City of La Porte draining criteria.	Bidding	The bit exclusion extension of expension (3.6, as part of the Lonanx LH Static Consolidation Project. Bit were necessaria in December 2023, but exceeded the budgeted amount. The bit was exject by Council at the Janaay Oft meeling. Staff is working with the Texas Water Development Board (TXWDB) to determine the most appropriate approach to proceed with the Lonax LH Station Consolidation Project. Future advertisement of the Coupling Dire project will be contingent upon direction necessive from the TXWDB.	\$1,550,000.00	N/A	N/A	\$1,310,000.00	TBD	50%	Yes





REQUEST FOR DRAINAGE & FLOODING COMMITEE AGENDA ITEM

Agenda Date Requested: <u>July 10, 2023</u> Requested By: <u>Ray Mayo, Director</u> Department: <u>Public Works</u> Report

Resolution

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:	O Yes O No				

SUMMARY & RECOMMENDATION

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

ACTION REQUIRED BY DRAINAGE AND FLOODING COMMITTEE

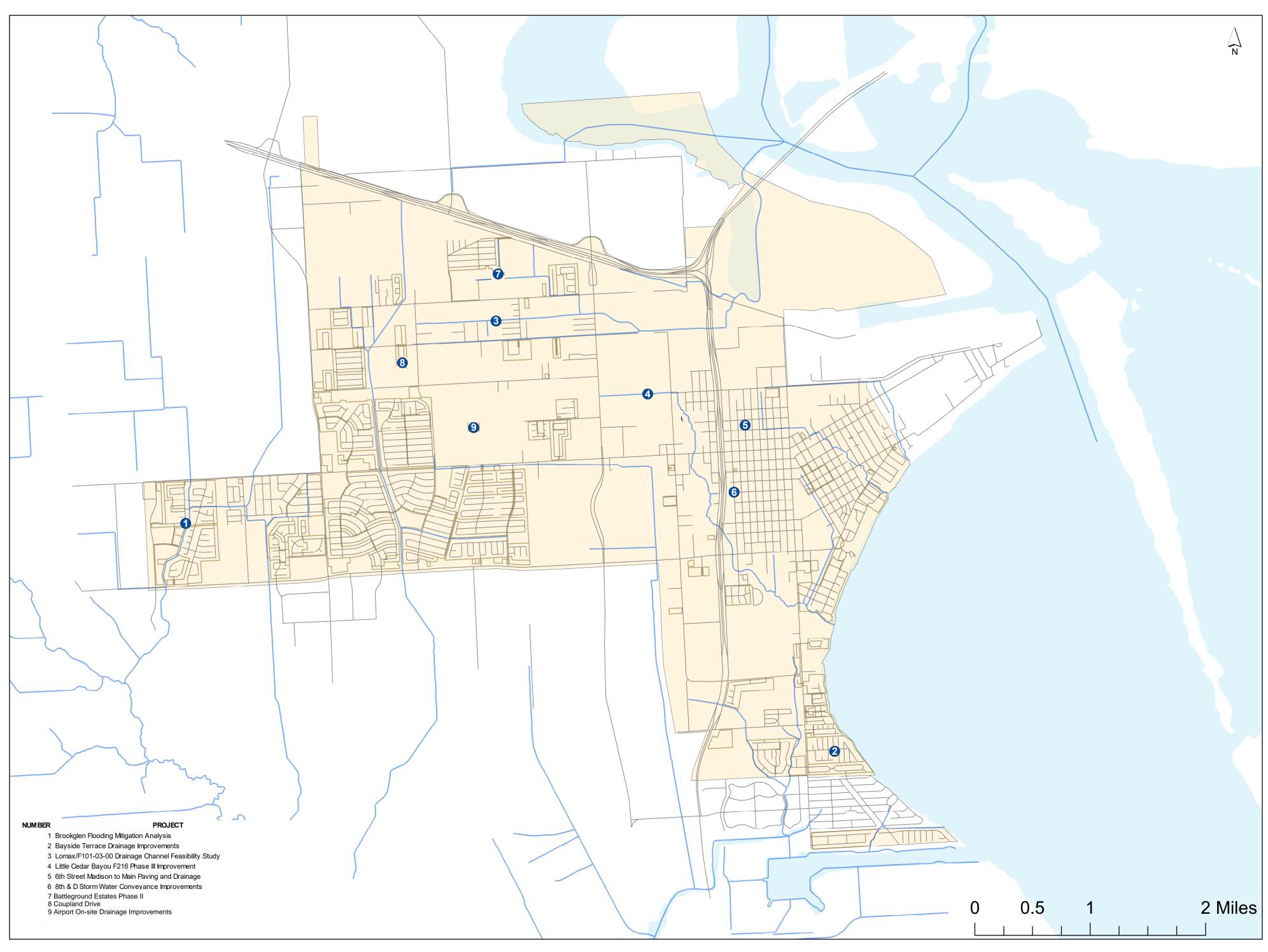
Receive report, and provide staff with direction, as necessary.

Approved for Drainage Committee Agenda

Corby D. Alexander, City Manager

Date

The City of La Porte Drainage Projects 2019

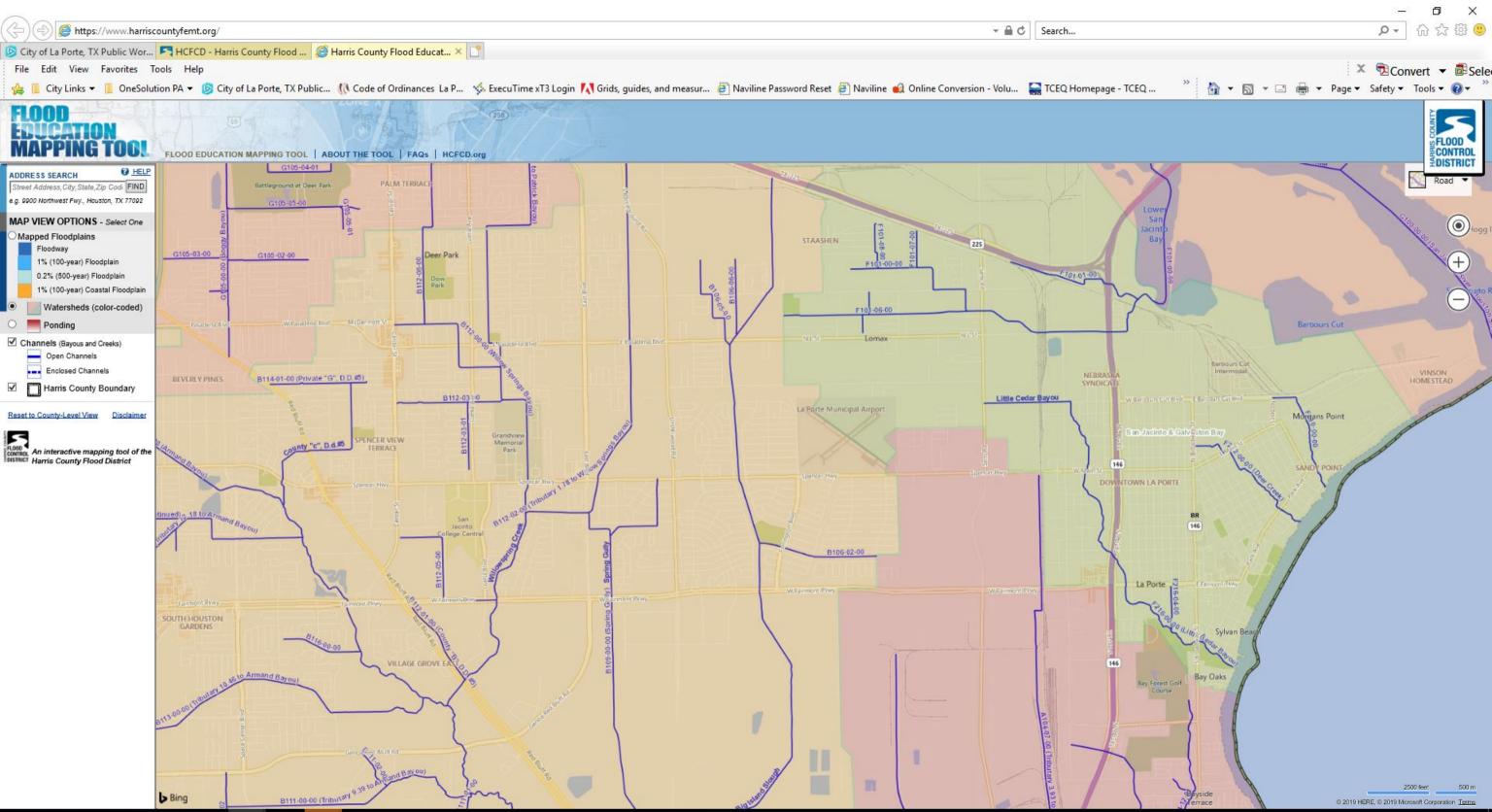


DRAINAGE PROJECTS

*Estimated completion date references total project completion.

	**% complete references	percent com	pletion of	current pro	ject phase
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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	HCFCD / Public Works	The 2000 Chywride Dminage Study Identifies the Brook glen subdivision as an area with significant drainage/floading problems, stiftolwide to a midure of Imadeutie sevenerge and Instificent charanel capacity within the B112-000 Charanel. Compounded improvements recommended within the City-wide Drainage Study could reduce the fload inter within the Brook glen area. This analysis would expand upon the recommendations provided within 2009 study.	HCFCD (NCRS) - Final Design; COLP - Feasibility/Preliminary Engineering	The existing conditions drainage model is being developed utilizing field, data and record drawings, preliminary modeling results results and the second drawings preliminary modeling results results. Staff is currently reveived the hinal drafter of the PER, received on April 24th. Final design is expected to begin upon completed by Alarch 4, 2024, The project is expected 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 - TDB	NCRS - 35%; COLP - 0%	NCRS - Yes Bond No COLP - TBD
2	Bayside Terrace Drainage Improvements	Public Works	Approximately 800 linear feed 7 RCP pipe, ranging in size from 15° to 24°, exists within the Bayaide Terrados Subdivision, which has not been properly maintained due to access issues attributed to limited access to infrastructure, provided within a five foot utility easiernet. Provinces of Hamitton Steet and Forders Deste utilize this system to convey stormwater to its outfail point of Galveston Bay. The system fiaits to function division of divisions of trainitions for reacting the system for annage study vound discuss feasability of reacting the Sings from the 800 feed of RCP, towards Bayaide DL: and utilizing the existing system within Bayaide Dr. to convey the storm water within the existing system.	Bidding	Bid advertisements were published on April 6th and April 13th. A pre-bid conference was held on April 18, 2023. Bids are due on May 3rd.	\$8,821,834.36	Pct. 2 Partnership - \$2,982,496	Harris County - \$2,982,496; COLP - \$4,356,041	\$5,405,000.00	TBD	75%	Yes
3	Lomax/F101-03-00 Drainage Channel Improvements	HCFCD	Herris Courty Flood Control Districts (HCFCD) F101-68-00 Channel system conveys storm water runof from the Lonax area and ultrately outfails into Lovers and Jackino Bay. The downstream section of the channel has been improved to ultrate capacity. An existing pipeline contoxic, containing several pipelines located at depths raining from approximately. Z to 15°, cross the channel, limiting the depth of potential channel improvements. Moderahlemsyr and events, compounded with backwater conditions from this section of the channel, contributes to wide-spread flooding within the Lonax 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	HCFCD Bond; ARPA - TBD	50/50	\$950,000.00	TBD	75%	No
4	Little Cedar Bayou F216 Phase III Improvements	HCFCD / Public Works	Phase 1 and Phase II Improvements to Lillie Cade Bayou, from Hwy 148 to Madion. There either been completed or are currently avaided for construction. Phase II and Phase II Improvements include, but are not limited to, secavating and disposing off-sele secting structures, erosion control, and site relations for approximable 5333 IF of channel. Approximately 4,880 LF of channel, remains unimproved upstream, with those monovolviation basener collected on the most baryout. So South Bayout channel. South Section 2014 Section	Feasibility	The feasibility of several project options are being evaluated. The consultant is evaluating an additional project alternative that was not previously considered. The draft of the preliminary engineering report will be delayed, to ald/w for the new alternative to be evaluated. Staff, consultant, and HCPCD, participate in bi-weekly project status meeting to discuss project progression.	TBD	HCFCD Bond - \$8,000,000; ARPA - TBD	\$2,000,000.00	\$3,055,232.00	TBD	60%	No
5	6th Street Madison to Main Paving and Drainage	Public Works	The segment of 6% S1 from W, Madison S1 to W. Main S1 is considered part of Old La Porte, which was generally noted in the Clp-Wide Drainage Study as not having sufficient storm server capacity due to undersized storm server, undersized storm inters, or not enough storm linels. RP-Shotz provided an analysis of the existing storm server system and identified problem areas within the project limits. Additional analysis is required to determine most efficient interprovement atternative.	Phase 2 - Final Design	Drainage Impact Analysis has been approved by HCFCD. Staff is coordinating with HCFCD for mitigation credits. USACE has acknowledged receipt of pre-construction note. The project solicitation packet has been prepared, but the advertisement is on hold, pending USACE approval.	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
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8	Coupland Drive	Public Works	The proposed stom sever improvements include re-stoping Coupland Drive to drain towards intels could throughout the subdivision. The interval will drain into proposed stom sever ranging in size from 24' to 30' ROP. This stom sever will then flow undernaam the existing randoid drait hang. Using the combined outfail with the existing randoids dish to Big stand Slough. The proposed stoms sever underneam the ROP. These improvements will result in one fill within the Big lained Slough 100-year floodplain. The proposed stoms sever was sized for the 5 year storm event, per the Crity of La Porte drainage orteria.	Bidding	The bit exclusion extension of expension (3.6, as part of the Lonanx LH Static Consolidation Project. Bit were necessaria in December 2023, but exceeded the budgeted amount. The bit was exject by Council at the Janaay Oft meeling. Staff is working with the Texas Water Development Board (TXWDB) to determine the most appropriate approach to proceed with the Lonax LH Station Consolidation Project. Future advertisement of the Coupling Dire project will be contingent upon direction necessive from the TXWDB.	\$1,550,000.00	N/A	N/A	\$1,310,000.00	TBD	50%	Yes





REQUEST FOR DRAINAGE & FLOODING COMMITEE AGENDA ITEM

Agenda Date Requested: <u>July 10, 2023</u> Requested By: <u>Ray Mayo, Director</u> Department: <u>Public Works</u>

Report C Resolution C Ordinance

Appropriation							
Source of Funds:	N/A						
Account Number:	N/A						
Amount Budgeted:	N/A						
Amount Requested:	N/A						
Budgeted Item:	C Yes C 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