



## 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 September 9, 2019, in the City Hall Council Chambers, 604 West Fairmont Parkway, La Porte, Texas, beginning at 5:00 pm to consider the following items of business.

1. **Call to order**
2. **STATUTORY AGENDA**
  - (a) Approve minutes of the meeting held on August 12, 2019. [Jay Martin, Chairman]
  - (b) Receive report from Harris County Flood Control District regarding current and future plans relating to flooding in the City of La Porte. [Lorenzo Wingate, P.E., C.F.M., City Engineer]
  - (c) Presentation, discussion, and possible action regarding the status of current drainage projects. [Lorenzo Wingate, P.E., C.F.M., City Engineer]
  - (d) Presentation, discussion, and possible action regarding additional drainage concerns and providing staff with direction. [Lorenzo Wingate, P.E., C.F.M., City Engineer]
3. **Set date for next Drainage and Flooding Committee Meeting**
4. **Committee Member Comments** *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.*
5. **Adjournment**

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.**

**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 September 9, 2019, 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, City Secretary

JAY MARTIN  
Chairman

DANNY EARP  
Vice-Chairman



CHUCK ENGELKEN  
Member

STEVE GILLETT  
Alternate Member

## MINUTES OF DRAINAGE AND FLOODING COMMITTEE MEETING AUGUST 12, 2019

The Drainage and Flooding Committee of the City of La Porte met on Monday, August 12, 2019, 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, Danny Earp, Chuck Engelken (*Alternate Steve Gillett was attended until it was ascertained that all members were present*)

Committee Members absent: None

Council-appointed officers present: Jason Weeks, Assistant City Manager; Lee Woodward, City Secretary

1. **Call to Order** - Chairman Martin called the meeting to order at 5:01 p.m.
2. **Consent Agenda** (*Approval of Consent Agenda items authorizes each to be implemented in accordance with staff recommendations provided. An item may be removed from the consent agenda and added to the Statutory Agenda for full discussion upon request by a member of the Committee present at this meeting.*)

**(a) Approve the minutes of the meeting held on July 8, 2019. [Jay Martin, Chairman]**

Committee member Engelken moved to approve the minutes of the meeting held on July 8, 2019; the motion was unanimously adopted, 3-0.

**3. Staff Reports**

**(a) Receive report from Harris County Flood Control District regarding current and future plans relating to flooding in the City of La Porte. [Lorenzo Wingate, City Engineer]**

Lorenzo Wingate, City Engineer, said the 2015 grant allocation of \$325,000 for the Northside Drainage Project (including item 5 on the project list, 6<sup>th</sup> to Madison) had had the notice to proceed issued for it and that the Harris County 2017 allocation for \$3,472,757.00 for the same project was confirmed and that work would proceed in phases.

Jeremy Ratcliff and Milton Raman of the Harris County Flood Control District (HCFCD), discussed projects listed. Specifically addressing the Brookglen area, Mr. Ratcliff noted HCFCD had met with Pasadena and Deer Park to attempt to serve more residents together, adding that allocations were still expected in January 2020. Mr. Wingate agreed to follow up with the City of Pasadena on the 100 acre feet of drainage owed to the City of La Porte. Member Earp asked that it be reported on at the next meeting. Member Engelken asked that it be determined who had been responsible to follow up when the agreement was made; status on the current buyout program; and which properties are in the next funding cycle (to be bought out).

Mr. Ratcliff agreed to review Little Cedar Bayou to see what maintenance could be done along the waterway. Chair Martin asked for follow up on that.

Mr. Rahman, Flood Mitigation Director for HC Precinct 2 Commissioner Garcia, provided background on the prior Sens Road project along Spencer Highway. Member Earp noted flooding following the Sens Road development was still flowing into residents' yards and was worse than previously and asked that detention be reviewed. Mr. Raman agreed to look at the pond and report at the next meeting.

**(b) Presentation, discussion, and possible action regarding the status of current drainage projects. [Lorenzo Wingate, City Engineer]**

Lorenzo Wingate, City Engineer, noted that TDEM has listed five of the City's eight projects (Brookglen; Bayside Terrace; Lomax/F101-03-00; Little Cedar Bayou Park, F216 Phase III; and Battleground Estates) as "alternates" (as opposed to "primary" or to not being considered at all) and funding possibilities will not be known for a time, as long as perhaps a year, as allocations and re-allocations are made. Mr. Wingate agreed to find out if TDEM had ranked the "alternate" projects and said the other projects on the list were under construction in some part. Member Engelken asked that the spreadsheets henceforward include columns for percentage complete, whether the projects were on or off track, and which department(s) were responsible for each.

**(c) Presentation, discussion, and possible action regarding additional drainage concerns and provide staff with direction. [Lorenzo Wingate, City Engineer]**

Lorenzo Wingate, City Engineer, noted street flooding on Roseberry in even a very insignificant rain event that recently occurred on July 22, categorizing it as "nuisance flooding" that dispersed very quickly but worth review for alleviation, such as at Carlow at Roseberry. The Committee consented to further evaluation of the Roseberry drainage system to determine any necessity for potential improvements.

**3. Set date for next Drainage and Flooding Committee Meeting**

The next meeting date was set for September 9, at 5:00 p.m.

**4. Committee Comments**

**ADJOURN** – The meeting was adjourned without objection at 5:46 p.m.

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Lee Woodward, City Secretary



## REQUEST FOR DRAINAGE & FLOODING COMMITTEE AGENDA ITEM

Agenda Date Requested: <u>September 9, 2019</u>
Requested By: <u>Lorenzo Wingate, P.E.</u>
Department: <u>Public Works</u>
<input checked="" type="radio"/> Report <input type="radio"/> Resolution <input type="radio"/> Ordinance

Appropriation	
Source of Funds:	_____
Account Number:	_____
Amount Budgeted:	_____
Amount Requested:	_____
Budgeted Item:	<input type="radio"/> Yes <input type="radio"/> No

**Exhibits:** HCFCD Drainage Network Map

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### SUMMARY

Receive report regarding Harris County Flood Control District current and future plans relating to flooding in the City of La Porte.

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### RECOMMENDED MOTION

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**Approved for Drainage Committee Agenda**

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

\_\_\_\_\_  
Date





## REQUEST FOR DRAINAGE & FLOODING COMMITTEE AGENDA ITEM

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**Exhibits:** Project Map  
Project update chart  
Harris County Drainage Network Map

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### SUMMARY

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

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### RECOMMENDED MOTION

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Approved for Drainage Committee Agenda

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

\_\_\_\_\_  
Date

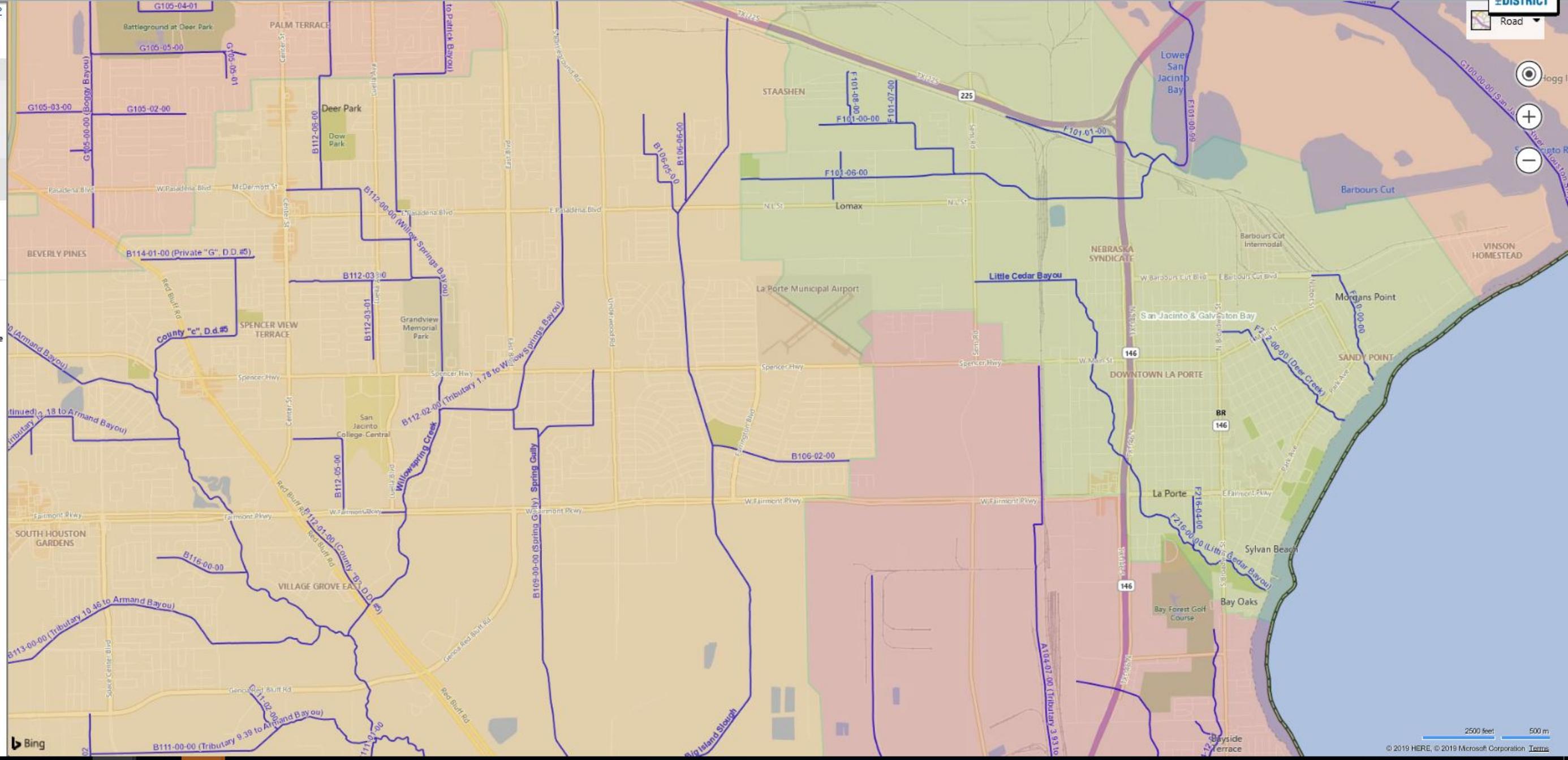
**ADDRESS SEARCH** [HELP](#)  
Street Address, City, State, Zip Code    
e.g. 9900 Northwest Fwy., Houston, TX 77002

**MAP VIEW OPTIONS - Select One**

- Mapped Floodplains
  - Floodway
  - 1% (100-year) Floodplain
  - 0.2% (500-year) Floodplain
  - 1% (100-year) Coastal Floodplain
- Watersheds (color-coded)
- Ponding
- Channels (Bayous and Creeks)
  - Open Channels
  - Enclosed Channels
- Harris County Boundary

[Reset to County-Level View](#) [Disclaimer](#)

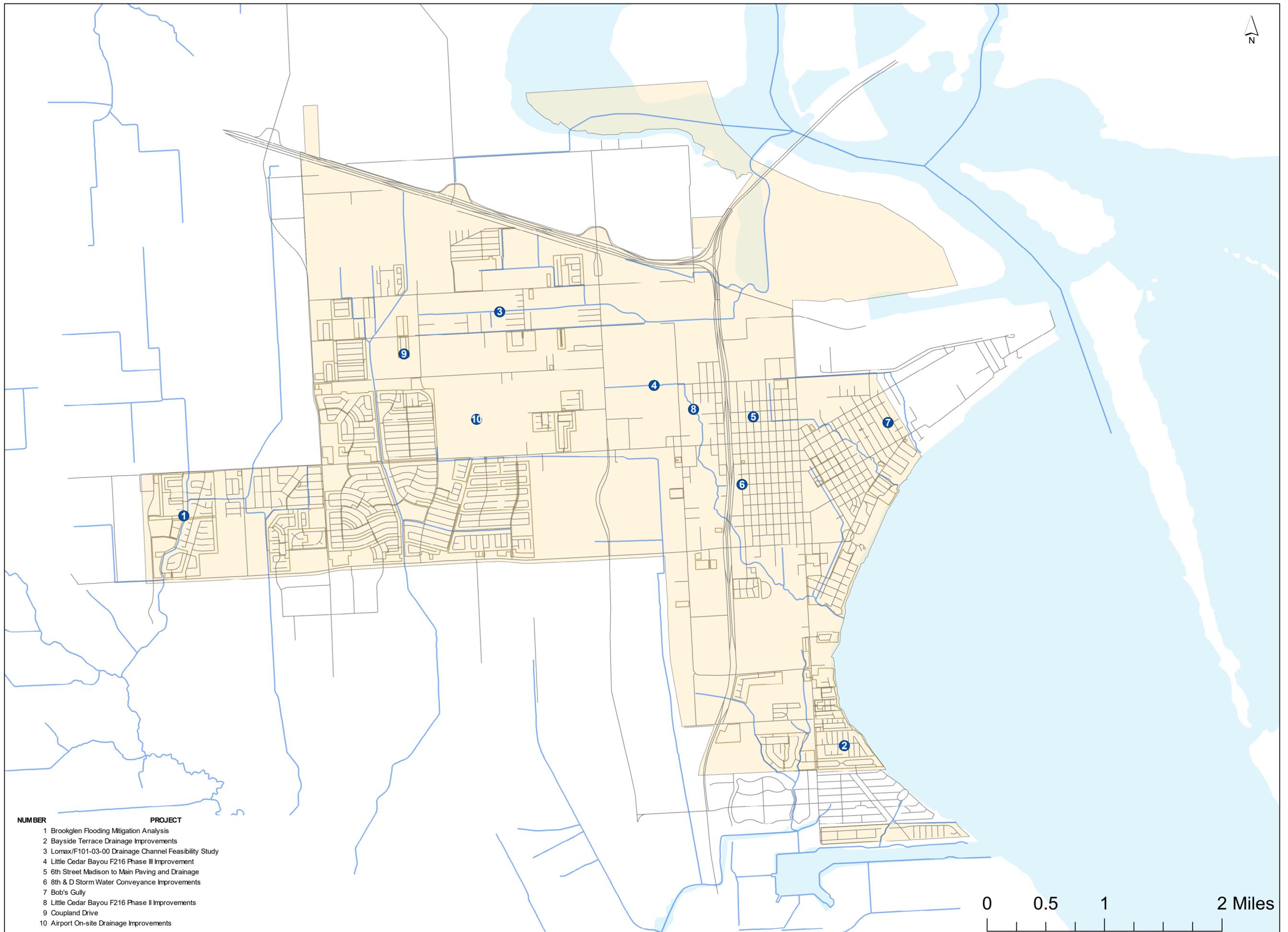
 An interactive mapping tool of the Harris County Flood District



**DRAINAGE PROJECTS**

NO.	PROJECT	PROJECT MANAGER	DESCRIPTION	PROJECT PHASE (Feasibility/Preliminary Design/Final Design/Bidding/Construction)	Status	Potential Grant Funding	Potential COLP Cost Share	COLP Budgeted Amount	Estimated Completion Date	% Complete	On Schedule
1	Brookglen Flooding Mitigation Analysis	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 8112-00-00 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.	Feasibility	Staff working with HCFCD to develop regional solution. HCFCD currently finalizing Technical Update. Staff submitted HMGP grant application for supplemental funding on October 17, 2018. Application pending TDEM selection. Awarded projects are anticipated to begin as early as January 2020.	\$4,000,021.50	\$1,000,005.38	\$275,000.00	March 2022	10%	No
2	Bayside Terrace Drainage Improvements	Public Works	Approximately 200 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 Forden 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 500 feet of RCP, towards Bayside Dr. and utilizing the existing system within Bayside Dr. to convey the storm water within the existing system.	Feasibility	Staff submitted HMGP grant application for supplemental funding on November 26, 2018. Application pending TDEM selection. Awarded projects are anticipated to begin as early as January 2020.	\$2,200,000.00	\$550,000.00	\$100,000.00	March 2022	0%	No
3	Lomax/F101-03-00 Drainage Channel Improvements	Public Works	Harris County Flood Control District's (HCFCD) 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	Staff submitted HMGP grant application for supplemental funding on November 26, 2018. Application pending TDEM selection. Awarded projects are anticipated to begin as early as January 2020. HCFCD finalizing Technical Update. Staff to receive status update from HCFCD on 7/3/19.	\$3,200,155.00	\$800,038.75	\$150,000.00	March 2022	10%	No
4	Little Cedar Bayou F216 Phase II Improvements	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 - 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 siltation and build-up in the pond bottom.	Feasibility	Staff submitted HMGP grant application for supplemental funding on December 20, 2018. Application pending TDEM selection. Awarded projects are anticipated to begin as early as January 2020.	\$2,500,000.00	\$625,000.00	\$825,000.00	March 2022	0%	No
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.	Feasibility	Executed contract with GLO effective March 9, 2019 through August 5, 2021. Staff currently negotiating scope of work for design phase services with engineering consultant. Agends request including recommendation to award preliminary engineering services contract has been prepared for July 8th Council meeting.	\$325,775.30 & \$3,472,757.00	\$125,000.00	\$1,140,000.00	August 2021	3%	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.	Preliminary Design	This project has been incorporated into the 7th Street Rehabilitation Project. Survey and PER authorized by council on June 10, 2019.	N/A	N/A	\$139,340 / \$1,850,000	June 2021	10%	Yes
7	Bob's Gully	Public Works	Obtained drainage easement along East B Street ROW in Morgan's Point from Boys and Girls Harbor. Coordinate with Harris County Flood Control & the Army Corp of Engineers to determine maintenance responsibilities. Consultant to provide technical memo analyzing channel capacity.	Feasibility	Notice to Proceed is expected to be issued the 1st week of July.	N/A	N/A	\$50,000.00	September 2019	50%	Yes
8	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 1 report, a more detailed Phase 2 engineering analysis of segments F101-00-00 and F101-06-00, 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 submitted HMGP grant application for supplemental funding on December 20, 2018. Project is on hold, awaiting supplemental grant funding.	\$880,500.00	\$220,125.00	\$65,000.00	August 2022	0%	No
9	Coupland Drive	Public Works	The proposed storm sewer improvements include re-aligning 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.	Preliminary Design	HDR is awaiting comments from TWDB before beginning 60% design. Construction to be incorporated into Lomax Lift Station Consolidation Project.	N/A	N/A	\$1,110,000.00	July 2022	30%	Yes
10	Airport On-site Drainage Improvements	Public Works	On-site and offsite study determined there is no impact from airport drainage run off to the area north(Lomax) of the airport. The study determined there is impact to the Glen Meadows Subdivision. Onsite deterioration and increased capacity will be designed to mitigate the impact on Glen Meadows.	Bidding	Design phase has been completed. Bid opening held August 29, 2019.	\$2,200,000.00	\$244,500.00	\$248,467.00	March 2020	0%	Yes

# The City of La Porte Drainage Projects 2019





## REQUEST FOR DRAINAGE & FLOODING COMMITTEE AGENDA ITEM

Agenda Date Requested: <u>September 9, 2019</u>
Requested By: <u>Lorenzo Wingate, P.E.</u>
Department: <u>Public Works</u>
<input checked="" type="radio"/> Report <input type="radio"/> Resolution <input type="radio"/> Ordinance

Appropriation	
Source of Funds:	_____
Account Number:	_____
Amount Budgeted:	_____
Amount Requested:	_____
Budgeted Item:	<input type="radio"/> Yes <input type="radio"/> No

**Exhibits:** Pasadena's Conditional Award Letter  
Proposed Project Exhibit

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### SUMMARY

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

- Update on La Porte/Pasadena Interlocal Agreement.

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### RECOMMENDED MOTION

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**Approved for Drainage Committee Agenda**

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

\_\_\_\_\_  
Date



# HARRIS COUNTY, TEXAS

## COMMUNITY SERVICES DEPARTMENT

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**Daphne Lemelle**  
*Executive Director*

8410 Lantern Point Drive  
Houston, Texas 77054  
Tel (832) 927-4700  
Fax (713) 578-2090

August 8, 2019

Honorable Jeff Wagner  
Mayor  
City of Pasadena  
1149 Ellsworth Drive  
Pasadena, TX 77506

Attn: Mark Gardemal, P.E.

RE: 2017 CDBG-DR Harvey Round One Infrastructure  
Pasadena - Drainage Improvements for Armand Bayou Upper Reaches  
Project Number: D2017-045

Dear Mayor Wagner:

We are pleased to inform you that the above-referenced project has been approved for a conditional award in the amount of \$8,261,802.00 in Hurricane Harvey 2017 Community Development Block Grant - Disaster Recovery (CDBG-DR) Round One Funds. The City of Pasadena will use the funding for the proposed project to complete the following scope as approved by the Texas General Land Office (GLO):

Reduce flooding in the target area north of Fairmont Parkway by constructing an approximately eighteen thousand linear foot (18,000 LF) long overflow flood channel. Construction shall consist of excavating and regrading approximately five hundred thousand cubic yards (500,000 CY) of material, disposal of excavated material, installing approximately one thousand eight hundred linear feet (1,800 LF) of storm sewer by tunneling and manholes and completing associated site work and appurtenances.

The City of Pasadena has indicated in their proposal no leverage provided for this project. The total project cost is \$8,261,802.00.

This award is contingent upon the following:

1. Approval from the Harris County Commissioners Court regarding the execution of a contract with Harris County.
2. Approval from the U.S. Department of Housing and Urban Development (HUD) and the Texas General Land Office (GLO) regarding the project's Environmental Review Record (ERR) and Release of Funds.

Letter to Mayor Wagner  
August 8, 2019  
pg. 2

In addition to meeting the conditions indicated above, you are required to provide the following items before contract execution:

1. A written response on letterhead acknowledging your organization's acceptance of the conditional award by August 22, 2019.
2. Copies of all project-related subcontracts currently in effect or that will be in effect as of the start of your contract by August 22, 2019. Please note that proper procurement of services should be reviewed with Harris County before finalizing any contracts.
3. Submission of an updated design/construction timeline for the proposed project by August 22, 2019.

Non-receipt of these items will delay the contract development phase as well as funding of the project. Any awarded grant funds expended before contract execution and Commissioners Court approval will not be reimbursed. Also, please retain a copy of all information submitted for your records.

An assessment of preliminary mitigation conditions, part of the environmental review process, was performed for this project. At this time, preliminary mitigation conditions have been identified. The proposed project area includes one hundred and seventy-one (171) acres in the 100-year floodplain. A full environmental review is underway, which may identify needed mitigation measures that will be included in your contract.

All documentation should be sent to the attention of Ms. Anna Hinojosa, Program Analyst no later than August 22, 2019. If you have questions regarding the requested information, please contact Ms. Hinojosa at (832) 927-4801 or by email at [anna.hinojosa@csd.hctx.net](mailto:anna.hinojosa@csd.hctx.net).

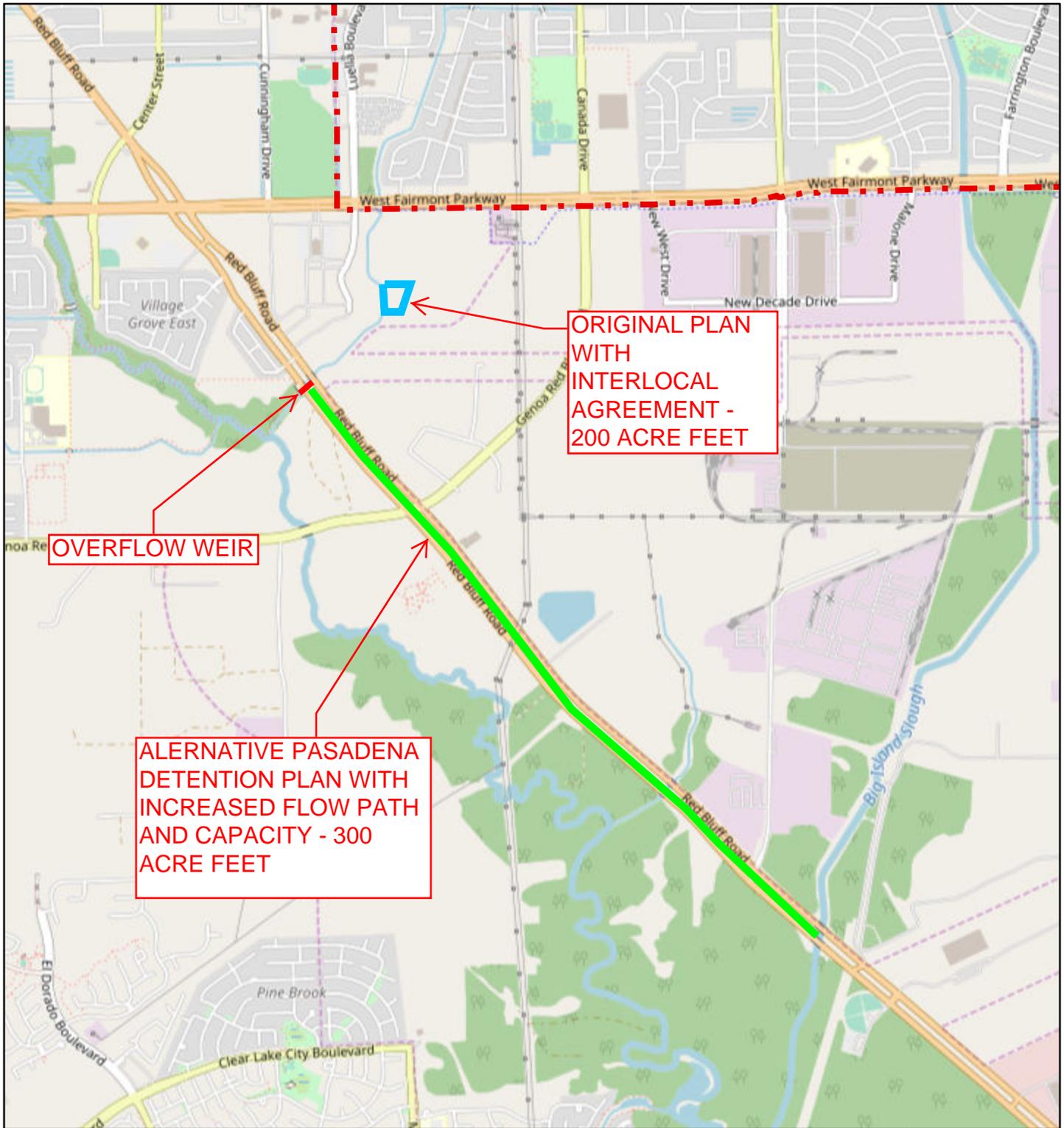
Sincerely,



Daphne Lemelle  
Executive Director

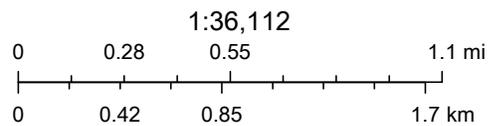
DL/MN/cl/jb/ah

# Web AppBuilder for ArcGIS



8/27/2019 6:04:13 PM

 Base Map Layer - City Limits



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