



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 April 8, 2019, in the City Hall Council Chambers, 604 W. Fairmont Parkway, La Porte, Texas, beginning at 5:00 pm to consider the following items of business.

1. **Call to order**
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 February 25, 2019. [Lee Woodward, City Secretary]
3. **Staff Reports**
 - (a) Receive a 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 and Don Pennell, Public Works Director]
 - (b) Receive a report regarding the status of the Texas GLO CDBG-DR 2015 Floods and Storms (DR-4223 and DR-4245) Allocation. [Lorenzo Wingate, City Engineer and Don Pennell, Public Works Director]
 - (c) Discussion regarding Harris County's Method of Distribution (MOD) for the Community Development Block Grant-Disaster Recovery (CDGB-DR) Round 1 Funds for Hurricane Harvey. [Lorenzo Wingate, City Engineer and Don Pennell, Public Works Director]
 - (d) Discussion regarding Texas Department of Emergency Management (TDEM) Hurricane Harvey DR-4332 Section 404 Hazard Mitigation Grant Program (HMGP) Funding. [Lorenzo Wingate, City Engineer and Don Pennell, Public Works Director]
 - (e) Presentation, discussion, and possible action regarding the status of current drainage projects. [Lorenzo Wingate, City Engineer and Don Pennell, Public Works Director]
 - (f) Presentation, discussion, and possible action regarding additional drainage concerns and providing staff with direction. [Lorenzo Wingate, City Engineer and Don Pennell, Public Works Director]
4. **Set date for next Drainage and Flooding Committee Meeting. [Lorenzo Wingate, City Engineer and Don Pennell, Public Works Director]**

5. 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.

6. 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 April 8, 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, 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

JOHN ZEMANEK
Alternate Member

MINUTES OF DRAINAGE AND FLOODING COMMITTEE MEETING HELD FEBRUARY 25, 2019

The Drainage and Flooding Committee of the City of La Porte met on **Monday, February 25, 2019**, at the City Hall Council Chambers, 604 West Fairmont Parkway, La Porte, Texas, at **4:30 p.m.** to consider the following items of business:

Committee Members present: Jay Martin, Danny Earp, Chuck Engelken (*arrived at 4:34 p.m., following minutes approval*), John Zemanek (*did not vote following the arrival of Member Engelken*)

Committee Members absent: None

Council-appointed officers present: Corby Alexander, City Manager; Lee Woodward, City Secretary

1. **Call to Order** - Chairman Martin called the meeting to order at 4:30 p.m.
2. **Authorizations**
 - (a) **Consider approval or other action regarding minutes of the Drainage and Flooding Committee Meeting held on January 14, 2019. [Lee Woodward, City Secretary]**
Committee member Zemanek moved to approve the minutes of the Drainage and Flooding Committee Meeting held on January 14, 2019; the motion was unanimously adopted.
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 and Don Pennell, Public Works Director]**

Committee members and the City Manager discussed a desire to meet with the new County Judge and/or the Commissioner to be sure La Porte's needs continued to be properly prioritized.
 - (b) **Discussion regarding status of current drainage projects. [Lorenzo Wingate, City Engineer and Don Pennell, Public Works Director]**

At the Committee's request, Mr. Wingate agreed to provide more status information on reports.
 - (c) **Discussion regarding Texas Department of Emergency Management (TDEM) Hurricane Harvey DR-4332 Section 404 Hazard Mitigation Grant Program (HMGP) funding. [Lorenzo Wingate, City Engineer and Don Pennell, Public Works Director]**
 - (d) **Discussion regarding additional drainage concerns and provide staff with direction. [Lorenzo Wingate, City Engineer and Don Pennell, Public Works Director]**
4. **Set date for next Drainage and Flooding Committee Meeting**
The next meeting date was set for March 11, 2019, if Harris County Flood Control representatives were able to attend, but April 8, 2019, if not, expected to be held at 5:00 p.m.
5. **Committee Comments**
No comments were offered.
6. **ADJOURN** – The meeting was adjourned without objection at 4:51 p.m.

Lee Woodward, City Secretary

REQUEST FOR DRAINAGE COMMITTEE AGENDA ITEM

Agenda Date Requested: <u>April 8, 2019</u>
Requested By: <u>Lorenzo Wingate</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:

SUMMARY & RECOMMENDATION

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

ACTION REQUIRED

Receive report.

Approved for Drainage Committee Agenda

Corby D. Alexander, City Manager

Date

REQUEST FOR DRAINAGE COMMITTEE AGENDA ITEM

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Budgeted Item:	<input type="radio"/> Yes <input type="radio"/> No

Exhibits: Project Area Map

SUMMARY & RECOMMENDATION

Texas GLO CDBG-DR 2015 Floods and Storms (DR-4223 and DR-4245) Allocation of \$325,775.30

The GLO-CDR has allocated \$325,775.30 to the City of La Porte through Harris County's initial MOD and MOD Amendments No. 1 and 2 from the 2015 Floods CDBG-DR funds. To access the funding allocated to the City of La Porte, GLO requires submission of a Non-Housing Project Application detailing the City's proposed non-housing projects to repair or mitigate damage that occurred during the Presidentially-declared Federal Emergency Management Agency (FEMA) 4223-DR-TX (2015 Memorial Day) and FEMA 4245-DR-TX (2015 Halloween) disasters.

Additionally, to qualify an application activity under the CDBG-DR requirements, the project must principally benefit those of low and moderate income areas, and consist of projects that fail to function during the declaration period.

Staff submitted the application to the GLO on August 27, 2018, for drainage improvements in the Northside Neighborhood within the Little Cedar Bayou (F216) Watershed and the City was awarded funding, effective March 9, 2019, with a termination date of August 5, 2021. Staff is currently coordinating within consultants to begin the preliminary engineering phase.

ACTION REQUIRED

Receive report.

Approved for Drainage Committee Agenda

Corby D. Alexander, City Manager

Date

PROJECT AREA MAP



PROJECT AREA

146

© 2018 Google

REQUEST FOR DRAINAGE COMMITTEE AGENDA ITEM

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Budgeted Item:	<input type="radio"/> Yes <input type="radio"/> No

Exhibits:

SUMMARY & RECOMMENDATION

Hurricane Harvey Community Development Block Grant Disaster Recovery (CDBG-DR) Harris County Method of Distribution (MOD)

The application is in the review process that will soon be finalized. Projects then will be submitted in an upcoming set of projects to GLO using their application format.

Tentative Timeline

- ✓ ~~August 20, 2018~~ - Notice of Intent to participate in MOD due.
- ✓ ~~September 2018~~ - Complete local MOD for Court approval (9/25/18) and submission to GLO
- ✓ ~~September-October 2018~~ - MOD cities conduct public meeting
- ✓ ~~Mid-September 2018~~ - Release CDBG-DR Infrastructure Application/RFP
- ✓ ~~Mid-October 2018~~ - CDBG-DR Infrastructure Application Due Date (*Staff submitted application*)
- **November 2018** - Harris County completes CDBG-DR Infrastructure projects submission packet and releases for 14-day public comment period and 2 public hearings
- **December 4, 2018** - CDBG-DR Infrastructure projects submission packet submitted to Court for approval and resolution to submit
- **January 2019** - GLO executes CDBG-DR Infrastructure contract with Harris County

ACTION REQUIRED

Discussion regarding Harris County's Method of Distribution (MOD) for the Community Development Block Grant-Disaster Recovery (CDGB-DR) Round 1 funds for Hurricane Harvey.

Approved for Drainage Committee Agenda

Corby D. Alexander, City Manager

Date

REQUEST FOR DRAINAGE COMMITTEE AGENDA ITEM

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Budgeted Item:	<input type="radio"/> Yes <input type="radio"/> No

Exhibits: TDEM Application Status

SUMMARY & RECOMMENDATION

Texas Department of Emergency Management (TDEM) Hurricane Harvey DR-4332 Section 404 Hazard Mitigation Grant Program (HMGP) funding

As of December 30, 2018, staff had submitted eight (8) applications to TDEM for grant funding for three generator projects and five (5) drainage improvement projects. The cost share requirement for the HMGP Program is 75% federal, 25% local. Proposed generator sites are the 25th Street Water Plant; Lift Station 40; and the Parks and Recreation Building. Proposed drainage improvement projects are: Battleground Estates; Bayside Terrace; Brookglen; F101-06-00; Little Cedar Bayou (F216-00-00) Phase III. TDEM has request additional information for all applications. Staff is preparing responses to TDEM's RFI's.

ACTION REQUIRED

Consider the items presented and discussed and provide direction to staff.

Approved for Drainage Committee Agenda

Corby D. Alexander, City Manager

Date

HMGP GRANT APPLICATION STATUS UPDATE

Project Type	Application Title	Amount	Workflow Step	Days Since Step Change	On Hold	Last Action Reason	Submission Date	Days Since Submitted
Gen Water (G)	City of La Porte - 25th Street Water Plant Generator	\$425,000.00	5) SHMO Authorization	15	No		09-12-2018	190
Gen Water (G)	City of La Porte Lift Station Generator Project	\$235,000.00	3) State / SHMT Selection Review	24	Yes	Pending RFI Response	09-12-2018	190
Generator (I)	City of La Porte Parks/ Senior Center Generator	\$300,000.00	3) State / SHMT Selection Review	24	Yes	Pending response to RFI	09-13-2018	189
Structural Drainage (R)	City of La Porte - Brookglen Subdivision Drainage Improvements	\$4,000,021.50	4) Enter Project in NEMIS	20	No		11-07-2018	134
Structural Drainage (R)	City La Porte - Bayside Terrace Subdivision Drainage	\$2,200,000.00	2) Application Review	15	No	Additional Information Requested	12-07-2018	104
Structural Drainage (R)	City of La Porte - Battleground Estates Phase II Drainage Improvements	\$880,500.00	4) Enter Project in NEMIS	15	No		01-02-2019	78
Structural Drainage (R)	City of La Porte - F101-06-00 Pipeline Corridor Crossing	\$3,200,155.00	2) Application Review	15	No	Additional Information Requested	01-04-2019	76
Structural Drainage (R)	City of La Porte - Little Cedar Bayou Phasse III Improvements	\$2,500,000.00	4) Enter Project in NEMIS	15	No		01-04-2019	76

REQUEST FOR DRAINAGE COMMITTEE AGENDA ITEM

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Budgeted Item:	<input type="radio"/> Yes <input type="radio"/> No

Exhibits: Drainage Projects Update
Drainage Projects Map

SUMMARY & RECOMMENDATION

Refer to attached Exhibit(s) for updates on various drainage projects throughout the City. There are five (5) drainage improvement projects funded within the FY19 budget that staff submitted grant applicants for: Brookglen Drainage Improvements; Bayside Terrace Drainage Improvements; F101 Lomax Drainage Improvements; Battleground Estates Drainage Improvements; Little Cedar Bayou Phase III. These projects have been temporarily placed on hold until determination of grant award is received from the Texas Department of Emergency Management (TDEM).

Staff has submitted all necessary items for the initial grant applications; TDEM has request additional information for all five (5) submittals. Staff responded to the RFI for Brookglen on February 22, 2019 and is preparing responses for the remaining four (4) applications. Remaining responses are anticipated to be submitted by April 12, 2019. If awarded, the cost share for these projects is 75% Federal, 25% Local.

ACTION REQUIRED

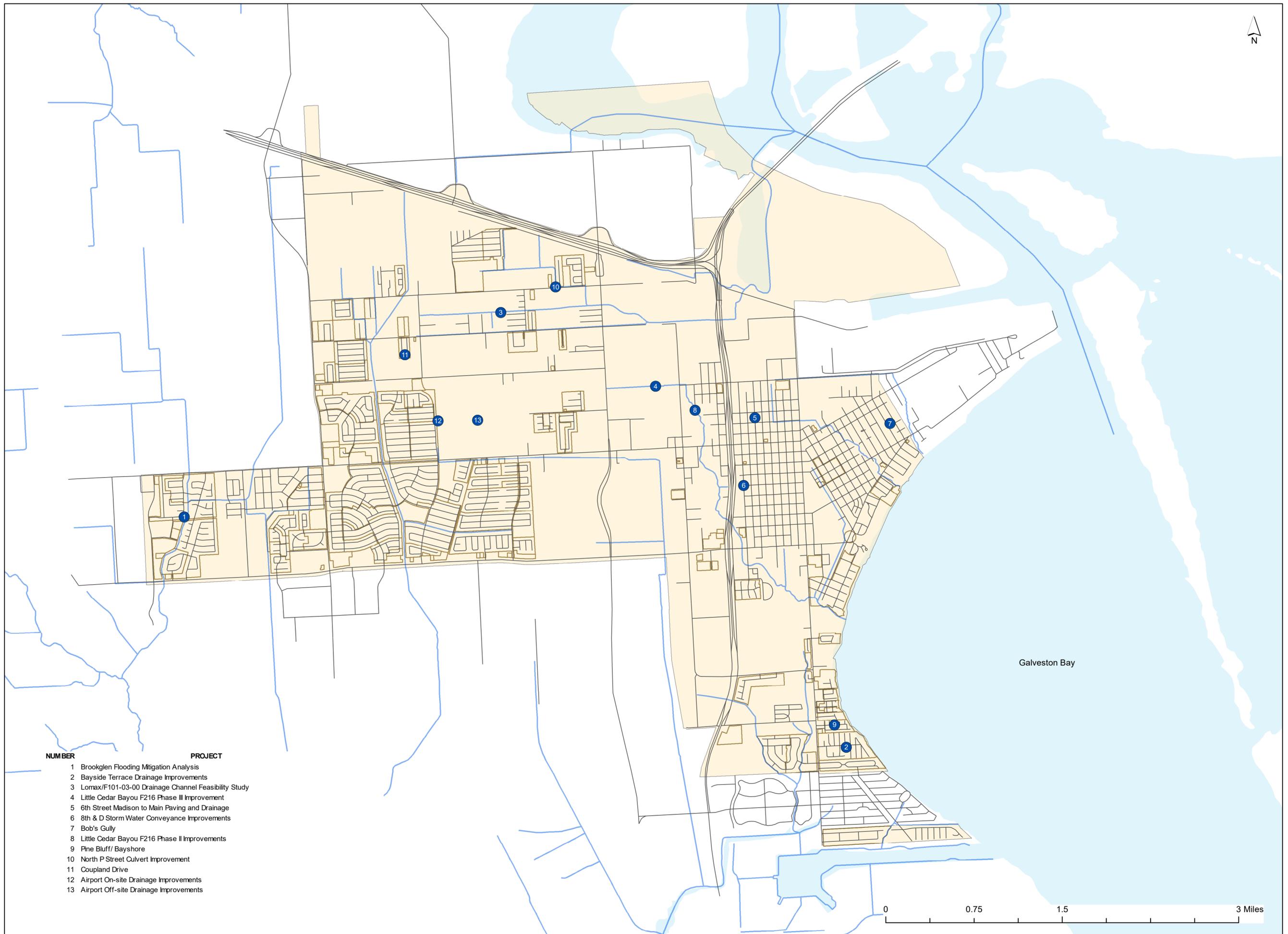
Consider the items presented and discussed and provide staff direction on how to proceed with drainage projects funded within FY19.

Approved for Drainage Committee Agenda

Corby D. Alexander, City Manager

Date

The City of La Porte Drainage Projects 2019



DRAINAGE PROJECTS

NO.	PROJECT	DESCRIPTION	Status
1	Brookglen Flooding Mitigation Analysis	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.	Staff working with HCFCD to develop regional solution. HCFCD currently working on Technical Update. Staff submitted HMGP grant application for supplemental funding on October 17, 2018. Application pending TDEM review.
2	Bayside Terrace Drainage Improvements	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 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.	Staff submitted HMGP grant application for supplemental funding on November 26, 2018. Application pending TDEM review.
3	Lomax/F101-03-00 Drainage Channel Improvements	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.	Staff submitted HMGP grant application for supplemental funding on November 26, 2018. Application pending TDEM review. Staff coordinating with HCFCD.
4	Little Cedar Bayou F216 Phase III Improvements	<p>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.</p> <p>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).</p> <p>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.</p>	Staff submitted HMGP grant application for supplemental funding on December 20, 2018. Application pending TDEM review. Staff coordinating with HCFCD.

NO.	PROJECT	DESCRIPTION	Status
5	6th Street Madison to Main Paving and Drainage	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.	CDBG allocations are intended to be utilized to supplement this project's funding. Application for 2015 allocation is currently pending GLO review. Application for Harvey allocation is pending Harris County review.
6	8th & D Storm Water Conveyance Improvements	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.	Proposed improvements to be completed in phases in-house, contingent upon available funding.
7	Bob's Gully	Obtained drainage easement along East B Street ROW in Morgans Point from Boys and Girls Harbor. Coordinate with Harris County Flood Control & the Army Corp of Engineers to determine maintenance responsibilities.	Staff coordinating timing of channel analysis with HCFCD.
8	Little Cedar Bayou F216 Phase II Improvements	Improvements to Little Cedar Bayou, from Madison Street to 450 feet south of Spencer Highway. Work of the Contract includes, but is not limited to, excavating and disposing off-site approximately 25,984 CY of soil as required for the new channel alignment. Clearing and grubbing, demolition of existing structures, erosion control, and site restoration for approximately 7 acres and planting approximately 400 3-gallon trees. Construction contract awarded to Paskey.	Contractor has completed all preliminary site preparation. Construction delayed due to weather. Construction expected to resume March 2019.
9	Pine Bluff/ Bayshore	Pine Bluff Subdivision Improvements project includes the reconstruction of streets and storm facilities along Bay Shore Drive, Pine Bluff Street and the lettered streets (A thru F) within the Pine Bluff Subdivision. Construction contract awarded to Angel Bros.	All underground drainage improvements have been constructed. All of Pinebluff and F Street is complete. Paving and installation of inlets on "alphabet streets" and northside of Bayshore remains.
10	North P Street Culvert Improvement	Using the January 2009 City Wide Drainage Study prepared by Klotz Associates, Inc., Klotz Associates, Inc. provided a report in 2011 analyzing flooding in the Battleground Estates which indicated that flows within segments of the F101 Channel, north of N 'P' Street, rise to a level creating capacity limitations which produce frequent out of banks occurrences. The unimproved upstream channel flows into two forty-two inch (42") corrugated metal pipes (CMP), which feed into the improved two 8' x 10' reinforced concrete boxes downstream. LJA Engineering, Inc. provided Engineering Design Services for the recommended improvements of removing the two upstream forty-two inch (42") corrugated metal pipes and extending the dual 8' x 10' reinforced concrete boxes across N 'P' Street. Construction contract awarded to Paskey.	North P Culvert Extension project is 85% complete. Outstanding items include pouring concrete collar to tie in existing CMP with new CMP, removal of excavated material from site, and desilting new boxes.
11	Coupland Drive	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.	HDR preparing 30% design. Construction to be incorporated into Lomax Lift Station Consolidation Project.
12	Airport Off-site Drainage Improvements	Evaluation of the performance of airport drainage system at the west and north boundaries of the airport to address concerns that the airport drainage system may be overwhelmed, in extreme events, leading to stormwater flowing into neighborhoods adjacent to the airport.	Drainage report completed. Report identified on-site improvements anticipated to reduce off-site runoff.

NO.	PROJECT	DESCRIPTION	Status
13	Airport On-site Drainage Improvements	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 detention and increased capacity will be designed to mitigate the impact on Glen Meadows.	Drainage report completed. Final design expect mid-Feburary.

DRAINAGE PROJECTS

NO.	PROJECT	DESCRIPTION	Status	Potential Grant Funding	Estimated Completion Date
1	Brookglen Flooding Mitigation Analysis	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.	Staff working with HCFCD to develop regional solution. HCFCD currently working on Technical Update. Staff submitted HMGP grant application for supplemental funding on October 17, 2018. Staff submitted response to RFI on March 22, 2019.	\$4,000,021.50	March 2021
2	Bayside Terrace Drainage Improvements	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 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.	Staff submitted HMGP grant application for supplemental funding on November 26, 2018. Staff preparing response to RFI; anticipated to be submitted by April 12, 2019.	\$2,200,000.00	March 2021
3	Lomax/F101-03-00 Drainage Channel Improvements	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.	Staff submitted HMGP grant application for supplemental funding on November 26, 2018. Staff coordinating with HCFCD. Staff preparing response to RFI; anticipated to be submitted by April 12, 2019.	\$3,200,155.00	March 2021
4	Little Cedar Bayou F216 Phase III Improvements	<p>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.</p> <p>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).</p> <p>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.</p>	Staff submitted HMGP grant application for supplemental funding on December 20, 2018. Staff preparing response to RFI; anticipated to be submitted by April 12, 2019. Staff coordinating with HCFCD.	\$2,500,000.00	March 2021
5	6th Street Madison to Main Paving and Drainage	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.	CDBG allocations are intended to be utilized to supplement this project's funding. Application for 2015 allocation is currently pending GLO review. Executed contract with GLO effective March 9, 2019 through August 5, 2021.	\$325,775.30 & \$3,472,757.00	August 2021

NO.	PROJECT	DESCRIPTION	Status	Potential Grant Funding	Estimated Completion Date
6	8th & D Storm Water Conveyance Improvements	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.	Proposed improvements to be completed in phases in-house, contingent upon available funding.	N/A	March 2025
7	Bob's Gully	Obtained drainage easement along East B Street ROW in Morgans Point from Boys and Girls Harbor. Coordinate with Harris County Flood Control & the Army Corp of Engineers to determine maintenance responsibilities.	Staff coordinating timing of channel analysis with HCFCD.	N/A	April 2020
8	Little Cedar Bayou F216 Phase II Improvements	Improvements to Little Cedar Bayou, from Madison Street to 450 feet south of Spencer Highway. Work of the Contract includes, but is not limited to, excavating and disposing off site approximately 25,984 CY of soil as required for the new channel alignment. Clearing and grubbing, demolition of existing structures, erosion control, and site restoration for approximately 7 acres and planting approximately 400 3-gallon trees. Construction contract awarded to Paskey.	Contractor has completed all preliminary site preparation. Construction expected to be completed by June 30, 2019.	\$1,337,422.22	June 2019
9	Pine Bluff/ Bayshore	Pine Bluff Subdivision Improvements project includes the reconstruction of streets and storm facilities along Bay Shore Drive, Pine Bluff Street and the lettered streets (A thru F) within the Pine Bluff Subdivision. Construction contract awarded to Angel Bros.	Project is substantially complete.	N/A	April 2019
10	North P Street Culvert Improvement	Using the January 2009 City Wide Drainage Study prepared by Klotz Associates, Inc., Klotz Associates, Inc. provided a report in 2011 analyzing flooding in the Battleground Estates which indicated that flows within segments of the F101 Channel, north of N 'P' Street, rise to a level creating capacity limitations which produce frequent out of banks occurrences. The unimproved upstream channel flows into two forty-two inch (42") corrugated metal pipes (CMP), which feed into the improved two 8' x 10' reinforced concrete boxes downstream. LJA Engineering, Inc. provided Engineering Design Services for the recommended improvements of removing the two upstream forty-two inch (42") corrugated metal pipes and extending the dual 8' x 10' reinforced concrete boxes across N 'P' Street. Construction contract awarded to Paskey.	North P Culvert Extension project is 85% complete. Outstanding items include pouring concrete collar to tie in existing CMP with new CMP, removal of excavated material from site, and desilting new boxes. Expected to be completed by April 30, 2019.	N/A	April 2019
11	Coupland Drive	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.	HDR is awaiting comments from TWDB before beginning 60% design. Construction to be incorporated into Lomax Lift Station Consolidation Project.	N/A	July 2022
12	Airport Off-site Drainage Improvements	Evaluation of the performance of airport drainage system at the west and north boundaries of the airport to address concerns that the airport drainage system may be overwhelmed, in extreme events, leading to stormwater flowing into neighborhoods adjacent to the airport.	Drainage report completed. Report identified on-site improvements anticipated to reduce off-site runoff.	N/A	December 2019
13	Airport On-site Drainage Improvements	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 detention and increased capacity will be designed to mitigate the impact on Glen Meadows.	Drainage report completed. Final design expect mid-February.	N/A	December 2019

REQUEST FOR DRAINAGE COMMITTEE AGENDA ITEM

Agenda Date Requested: April 8, 2019

Requested By: Lorenzo Wingate

Department: Public Works

Report Resolution Ordinance

Appropriation

Source of Funds: _____

Account Number: _____

Amount Budgeted: _____

Amount Requested: _____

Budgeted Item: Yes No

Exhibits:

SUMMARY & RECOMMENDATION

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

ACTION REQUIRED

Provide staff direction, as necessary.

Approved for Drainage Committee Agenda

Corby D. Alexander, City Manager

Date