

CAPITAL IMPROVEMENT PLAN FY2021 - FY2025

PROGRAM: DRAINAGE

Program Priority: **14**

PROJECT NAME: Magnolia Bayou Diversion Canal to Dickinson Bayou

CIP NUMBER:

CONTACT PERSON: Christopher Sims

PROJECT COST BY FISCAL YEAR

Project Cost	Previously Appropriated	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Future Years	Total
Planning/Design	1,000,000	3,000,000						\$4,000,000
Land			3,250,000					\$3,250,000
Construction				8,250,000				\$8,250,000
Equip/Furnishings								\$0
Total Cost	\$1,000,000	\$3,000,000	\$3,250,000	\$8,250,000	\$0	\$0	\$0	\$15,500,000

FUNDING SOURCE BY FISCAL YEAR

Funding Source	Previously Appropriated	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Future Years	Total
Prior Bonds								\$0
GO Bonds	1,000,000	3,000,000	3,250,000	8,250,000				\$15,500,000
Future Bonds								\$0
Potential Grant(s)								\$0
Park Dedication Fees								\$0
4B Funding								\$0
CRF Funds								\$0
Other: Cash								\$0
Total Funding	\$1,000,000	\$3,000,000	\$3,250,000	\$8,250,000	\$0	\$0	\$0	\$15,500,000

PROJECT DESCRIPTION

Divert 460 acres of drainage area from the Magnolia Bayou to Dickinson Bayou. A new detention pond approximately 500 ac-ft in size (minimum) would be constructed to limit water surface elevation increase to Dickinson Bayou.

Project would consist of a drainage study to determine limits of diversion area and if pond could be larger than the minimum 500 ac-ft to help with regional drainage in the City's southwest area. The study will also determine if a detention pond could be constructed within the Magnolia Bayou boundary to provide a similar water surface elevation drop without having to divert water from one watershed to another. Once the study is completed, the project would move into the final design and land acquisition phases. It is anticipated that the new detention pond would be located in League City, south of FM 517 adjacent to Dickinson Bayou. With land acquired and the design finalized, the Bidding and Construction Phase would take place.

Environmental permitting is a critical path due to USACE involvement and should be started as early as possible. The USACE could permit this work under a Nationwide Permit or a Standard Individual Permit. A NWP is typically a 6 month process but a SIP is typically a 2 year process.

PROJECT JUSTIFICATION

The Magnolia Bayou and Borden's Gully watersheds experience repetitive flood loss and street flooding during storm events that exceed a 1% event. The Bay Colony area is approximately 1,885.2 acres and is comprised of 2 large Master Planned Developments (Bay Colony Development and Bay Colony West Development). This diversion project is looking to reduce the Magnolia Bayou water surface elevation in the greater Bay Colony area by a minimum of 6" creating additional capacity in the bayou and reducing the potential for structural inundation during weather events exceeding 1%.

ADDITIONAL CONSIDERATIONS

	YES	NO	Recurring M&O Costs	Amount
Is the project necessary under State/Federal Mandate, contractual obligation, or City Code?		NO	Personnel/Benefits (50xx)	\$0
			Supplies (51xx)	\$0
Will this project create future Capital Projects?		NO	Repairs/Maintenance (52xx)	\$0
Is your request in the current C I P ?	YES		Services (53xx)	\$0
If yes, has the cost of the project changed?	YES		TOTAL	\$0