CAPITAL IMPROVEMENT PLAN FY2024 - FY2028

PROGRAM: DRAINAGE Program Priority:

PROJECT NAME: Landing Subdivision Drainage Improvements

CIP NUMBER: DR2105

CONTACT PERSON: Christopher Sims

PROJECT COST BY FISCAL YEAR								
Project Cost	Previously Appropriated	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	Future Years	Total
Planning/Design	77,305							\$77,305
Land								\$0
Construction	599,500							\$599,500
Equip/Furnishings								\$0
Total Cost	\$676,805	\$0	\$0	\$0	\$0	\$0	\$0	\$676,805
FUNDING SOURCE BY FISCAL YEAR								
Funding Source	Previously Appropriated	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	Future Years	Total
Prior Bonds								\$0
GO Bonds	474,996							\$474,996
Future Bonds								\$0
Potential Grant(s)	201,809							\$201,809
Park Dedication Fees								\$0
4B Funding								\$0
CRF Funds								\$0
Other								\$0
Total Funding	\$676,805	\$0	\$0	\$0	\$0	\$0	\$0	\$676,805

PROJECT DESCRIPTION

- 1) FY2021: Design overland flow swales (1% flow minus existing pipe capacity) for extreme events (exceeding the 1% event volume). Swales expected to be a mix of earthen and paver types.
- 2) FY2022: Purchase existing easements in full for Drainage ROW at 6 locations (average 15' wide strips).
- 3) FY2023: Construction of proposed swales within the Landing Subdivision

CDBG-DR funds are available (Landing falls within Low-to-Moderate Income Zone).

PROJECT JUSTIFICATION

The Landing Subdivision drains directly to the Landing Ditch through 8 storm sewer outfalls. The outfall easements do not have defined swales and coupled with existing fences and heavy vegetation the sheet flow is, at a minimum, partially blocked through the easements. As currently graded, the existing drainage easements do not have sufficient capacity to carry the extreme event's sheet flow from the streets to Landing Ditch. This factor, combined with blockage of the drainage easements by fences and/or vegetation, causes excessive ponding in the street during an extreme event rainfall.

This project would purchase up to 6 of the existing easements as ROW. At all locations, swales will be constructed which will require the removal and replacement of the existing fence between 2 lots inside the easement/ROW. Drainage obstructions will be permanently removed, and the existing storm sewer manhole cover elevation adjusted as needed.

ADDITIONAL CONSIDERATIONS									
YES NO Recurring M&O Costs Amount									
Is the project necessary under State/Federal Mandate,	NO		Personnel/Benefits (50xx)	\$0					
contractual obligation, or City Code?		NO	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					

CAPITAL IMPROVEMENT PLAN FY2024 - FY2028

PROGRAM: DRAINAGE Program Priority: 1

PROJECT NAME: Newport & Ellis Landing Subdivision Drainage Improvements

CIP NUMBER: DR2104

CONTACT PERSON: Christopher Sims

PROJECT COST BY FISCAL YEAR									
PROJECT COST BY FISCAL YEAR									
Project Cost	Previously Appropriated	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	Future Years	Total	
Planning/Design	96,480							\$96,480	
Land	99,800							\$99,800	
Construction		797,500						\$797,500	
Equip/Furnishings								\$0	
Total Cost	\$196,280	\$797,500	\$0	\$0	\$0	\$0	\$0	\$993,780	
	FUNDING SOURCE BY FISCAL YEAR								
Funding Source	Previously Appropriated	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	Future Years	Total	
Prior Bonds								\$0	
GO Bonds								\$0	
Future Bonds								\$0	
Potential Grant(s)	196,280	797,500						\$993,780	
Park Dedication Fees								\$0	
4B Funding								\$0	
CRF Funds								\$0	
Other								\$0	
Total Funding	\$196,280	\$797,500	\$0	\$0	\$0	\$0	\$0	\$993,780	

PROJECT DESCRIPTION

- 1) FY2021: Design overland flow swales (1% flow minus existing pipe capacity) for extreme events (exceeding the 1% event volume). Swales expected to be a mix of earthen and paver types.
- 2) FY2023: Purchase existing easements in full for Drainage ROW at 9 locations (average 15' wide strips).
- 3) FY2024: Construction of proposed swales within the Newport Subdivision

CDBG-DR funds (Newport w/i Low-to-Moderate Income Zone) will be used for construction up to the \$6.9 million.

PROJECT JUSTIFICATION

The Newport Subdivision drains directly to the concrete lined Newport ditch through 14 storm sewer outfalls. The outfall easements do not have defined swales and coupled with existing fences and heavy vegetation the sheet flow is, at a minimum, partially blocked through the easements. As currently graded, the existing drainage easements do not have sufficient capacity to carry the extreme event's sheet flow from the streets to Newport Ditch. This factor, combined with blockage of the drainage easements by fences and/or vegetation, causes excessive ponding in the street during an extreme event rainfall.

This project would purchase up to 9 of the existing easements as ROW. At all locations, swales will be constructed which will require the removal and replacement of the existing fence between 2 lots inside the easement/ROW. Drainage obstructions will need to be permanently removed, and the existing storm sewer manhole cover elevation adjusted as needed.

ADDITIONAL CONSIDERATIONS									
YES NO Recurring M&O Costs Amount									
Is the project necessary under State/Federal Mandate,		NO	Personnel/Benefits (50xx)	\$0					
contractual obligation, or City Code?		NO	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					

CAPITAL IMPROVEMENT PLAN FY2024 - FY2028

PROGRAM: DRAINAGE Program Priority:

PROJECT NAME: Brittany Bay Subdivision Drainage Improvements

CIP NUMBER: DR2009

CONTACT PERSON: Christopher Sims

PROJECT COST BY FISCAL YEAR									
Project Cost	Previously Appropriated	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	Future Years	Total	
Planning/Design	113,610							\$113,610	
Land	50,000							\$50,000	
Construction	332,900							\$332,900	
Equip/Furnishings								\$0	
Total Cost	\$496.510	\$0	\$0	\$0	\$0	\$0	\$0	\$496.510	

FUNDING SOURCE BY FISCAL YEAR

Funding Source	Previously Appropriated	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	Future Years	Total
Prior Bonds								\$0
GO Bonds	354,759							\$354,759
Future Bonds								\$0
Potential Grant(s)	141,751							\$141,751
Park Dedication Fees								\$0
4B Funding								\$0
CRF Funds								\$0
Other: Cash								\$0
Total Funding	\$496,510	\$0	\$0	\$0	\$0	\$0	\$0	\$496,510

PROJECT DESCRIPTION

The project will consist of a drainage study and HEC-RAS Model of Landing Ditch to ensure all drainage areas feeding into the creek are accounted for and to ensure the improved flows from the proposed drainage improvements can discharge into the creek without negatively impacting downstream neighborhoods along Landing Ditch.

The project includes the installation of concrete and gravel paver overflow swales at 4 of the 5 existing drainage easement sites within the subdivision. It is anticipated that at least 2 of the easements would be better suited as a Drainage ROW (Sites A1 and A2 - See post-Harvey "Landing, Rustic Oaks and Countryside Drainage" PER). The sites may require slope paving along Landing Ditch to prevent long term erosion of Landing Ditch banks. Due to this, it is anticipated that a US Corp of Engineers Nationwide Permit could be required. If a USACE permit is needed, this will be the critical path for the project 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.

CDBG-DR Grant Funding eligible; A request for additional FEMA funds are underway due to increased anticipated construction costs.

PROJECT JUSTIFICATION

The Brittany Bay Subdivision drains directly into Landing Ditch through 4 drainage outfalls to the west of the subdivision and to a tributary of Landing Ditch through 1 outfall to the southeast of the subdivision. The easements do not have defined swales and coupled with existing fences and heavy vegetation the sheet flow is being at a minimum partially blocked through the easements. As currently graded, the existing drainage easements do not have sufficient capacity to carry the extreme event's sheet flow from the streets to Landing Ditch and its tributary. This factor, combined with blockage of the drainage easements by fences and/or vegetation, causes excessive ponding in the street during an extreme event rainfall.

ADDITIONAL CONSIDERATIONS									
YES NO Recurring M&O Costs Amount									
Is the project necessary under State/Federal Mandate,		NO	Personnel/Benefits (50xx)	\$0					
contractual obligation, or City Code?		NO	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					