

CAPITAL IMPROVEMENT PLAN FY2024 - FY2028

PROGRAM: DRAINAGE

Program Priority:

PROJECT NAME: Rustic Oaks Subdivision Drainage Improvements

CIP NUMBER: DR2003

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	78,205							\$78,205
Land	180,000							\$180,000
Construction	330,000							\$330,000
Equip/Furnishings								\$0
Total Cost	\$588,205	\$0	\$0	\$0	\$0	\$0	\$0	\$588,205

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	588,205							\$588,205
Future Bonds								\$0
Potential Grant(s)								\$0
Park Dedication Fees								\$0
4B Funding								\$0
CRF Funds								\$0
Other: Cash								\$0
Total Funding	\$588,205	\$0	\$0	\$0	\$0	\$0	\$0	\$588,205

PROJECT DESCRIPTION

The project will consist of a drainage study and HEC-RAS Model of Magnolia Creek & Cedar Gully 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 Mag. Creek & Cedar Gully.

The project includes the installation of grass, concrete and gravel paver overflow swales at 8 of the 9 existing drainage easement sites within the subdivision. It is anticipated that at least 3 of the easements would be better suited as a Drainage ROW (See post-Harvey "Landing, Rustic Oaks and Countryside Drainage" PER). The sites may require slope paving along Magnolia Creek & Cedar Gully to prevent long term erosion of Landing Ditch banks.

Project is dependent on support/consensus of the neighborhood.

PROJECT JUSTIFICATION

The Rustic Oaks Subdivision drains directly into Magnolia Creek and Cedar Gully through 9 drainage outfalls in 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 a 1% exceedance event's sheet flow from the streets to Magnolia Creek & Cedar Gully. This factor, combined with blockage of the drainage easements by fences and/or vegetation, causes excessive ponding in the street during a 1% exceedance event.

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