



AGENDA MEMORANDUM

Action Item for the TIRZ #2 Board Meeting of April 8, 2025

DATE: April 8, 2024

TO: Peter Zanoni, City Manager

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Discussion and possible action to add a Sea Gate Study to the TIRZ #2 Project Plan

CAPTION:

Discussion and possible action to approve the Sea Gate Study Project for the Padre Island Canal System, evaluating the feasibility of a replacement Sea Gate, in an amount not to exceed \$250,000 from the Tax Increment Reinvestment Zone #2 (TIRZ #2) fund and amend the FY 2025 budget.

SUMMARY:

After completion of the Don Patricio Bridge and the interconnection of the PIPOA canal system with Lake Padre and Packery Channel, concerns have been raised about potential infrastructure damage from erosion. Staff organized a meeting with board members from PIPOA, Ashlar Development (Whitecap), Partlow Properties (Lake Padre) and Tim Lange (Lake Padre) to discuss erosion concerns. During the meeting, staff agreed to request a proposal from HDR to study the potential for a mechanical sea gate somewhere in the canal system. The proposal is still being developed but staff would like to take advantage of the April 8, 2025 TIRZ#2 meeting to review the addition of a sea gate study to the budget.

BACKGROUND AND PURPOSE:

In addition to increased navigation connectivity, another benefit sought from the Don Patricio Bridge and the interconnection of the canal systems was greater water circulation. That enhanced

circulation improves the water quality and habitat. A potential downside, however, is that increased water velocity creates greater potential for scour. That is the phenomenon where the tractive forces of moving water displace soil particles. This can produce scour holes that potentially threaten adjacent infrastructure. A mechanical sea gate is a potential alternative to help slow canal flow velocities during moderate surge events.

HDR is preparing a proposal to study a potential sea gate. The study will analyze potential benefits, identify appropriate design types, identify siting alternatives, and estimate probable construction cost. The proposal for the study will be finalized by the end of April.

This action will authorize the addition of a project to the TIRZ#2 budget with an FY 2025 budget of an amount not to exceed \$250,000 to study the potential for a sea gate in the North Padre Island Canal System.

PROJECT TIMELINE:

The projected schedule reflects City Council approval of the CIP & budget amendment in May and study completion by December 2025.

ALTERNATIVES:

Not approving the project & amending the budget could delay implementing additional scour protection measures for the North Padre Island canal system.

FISCAL IMPACT:

The fiscal impact is an amount not to exceed \$250,000 from the TIRZ #2 fund.

FUNDING DETAIL:

Fund:	1111-Reinvestment Zone Two (Island)
Organization/Activity:	11305-TIF02 Activities
Mission Element:	57
Account:	530000

RECOMMENDATION:

Staff approving the project & amending the budget to include a study for a scour protection sea gate in the North Padre Island canal system.

LIST OF SUPPORTING DOCUMENTS:

N/A