

# PROBLEMS, OPPORTUNITIES, OBJECTIVES, AND CONSTRAINTS

## PROBLEMS

- Risk of coastal storms and their damage mechanisms like beach erosion, wave action, and storm surge threaten damage to and loss of residential and commercial structures, critical infrastructure, environmental resources, and economic livelihood.
- Increasing flooding from rain events due to the higher groundwater elevations and higher tailwater elevations from sea level rise threaten properties and infrastructure.

## OPPORTUNITIES

- Reduce economic loss due to coastal flood damage.
- Restore natural coastline with environmental features that support coastal resiliency.
- Increase public facilities and access to recreation.
- Increase community understanding through communication about coastal resilience and protective measures.
- Incorporating natural and nature-based features into potential alternatives.

## OBJECTIVES

- Reduce risk and damage, economic loss, and environmental impacts due to wave attack and inundation due to storm surge in Collier County over a 50-year period of analysis.
- Reduce risk to life, health, and safety during coastal storms.
- Incorporate natural and nature based features to reduce flood damages and complement the recommended nonstructural and structural measures.

## CONSTRAINTS

- Avoid creating or exacerbating flooding within the project area, to other local municipalities, and to local military installations.
- Avoid flooding solutions for the study area that would induce increased flooding issues in locations outside of the study area.
- Avoid, minimize, or mitigate impacts to environmental and cultural resources.
- Avoid or minimize impacts to habitat for listed species.

