

St. Augustine, Florida Back Bay Coastal Storm Risk Management (CSRM) Feasibility Study

USACE PLANNING TEAM PRESENTATION
OCTOBER 2023



**PLEASE MUTE YOUR PHONE AND COMPUTER
TO AVOID BACKGROUND DISRUPTIONS.**

WE WILL START PROMPTLY AT 1:05

Presented by:

Jason Harrah, Senior Project Manager (Jacksonville District, USACE)

Marty Durkin, Planning Technical Lead (Jacksonville District, USACE)

Jessica Beach, Chief Resiliency Officer (City of St. Augustine)



CITY OF
ST AUGUSTINE
EST. 1565



AGENDA



BUILDING STRONG

- Opening Remarks
- Study Overview
- Overall Study Schedule & Budget
- Initial Array of Alternatives Being Considered
- Schedule Updates (90-Day Window)
- Discipline Specific Study Updates
- Upcoming Public Engagements
- Sponsor Remarks
- Agency Questions/Comments
- Public Comments
- Closing Remarks

House Resolution 2646 (June 21, 2000): St. Johns County, Florida

Resolved by the Committee on Transportation and Infrastructure of the United States House of Representatives, That in accordance with Section 110 of the River and Harbor Act of 1962, the Secretary of the Army, acting through the Chief of Engineers, is **requested to survey the shores of St. Johns County, Florida**, with particular reference to the advisability of providing beach erosion control works in the area north of St. Augustine Inlet, the shoreline in the vicinity of Matanzas Inlet, and adjacent shorelines, as may be necessary in the interest of **hurricane protection, storm damage reduction, beach erosion control, and other related purposes.**

Non-Federal Sponsor: City of St. Augustine (COSA)

POC: Jessica Beach, P.E., Chief Resilience Officer, jbeach@citystaug.com

Study Area

- Entire COSA Municipal Boundary
- 17 Distinct Neighborhoods
- 3 Separate Land Masses
- Interconnected Water Bodies

Objectives to be achieved within the City of St. Augustine over a 50-year period of analysis from 2035-2085 are to...

1. Manage risk of coastal flood damages.
2. Manage risk to health and life-safety.
3. Manage risk to cultural and natural resources.
4. Manage flooding impacts to the local economy.





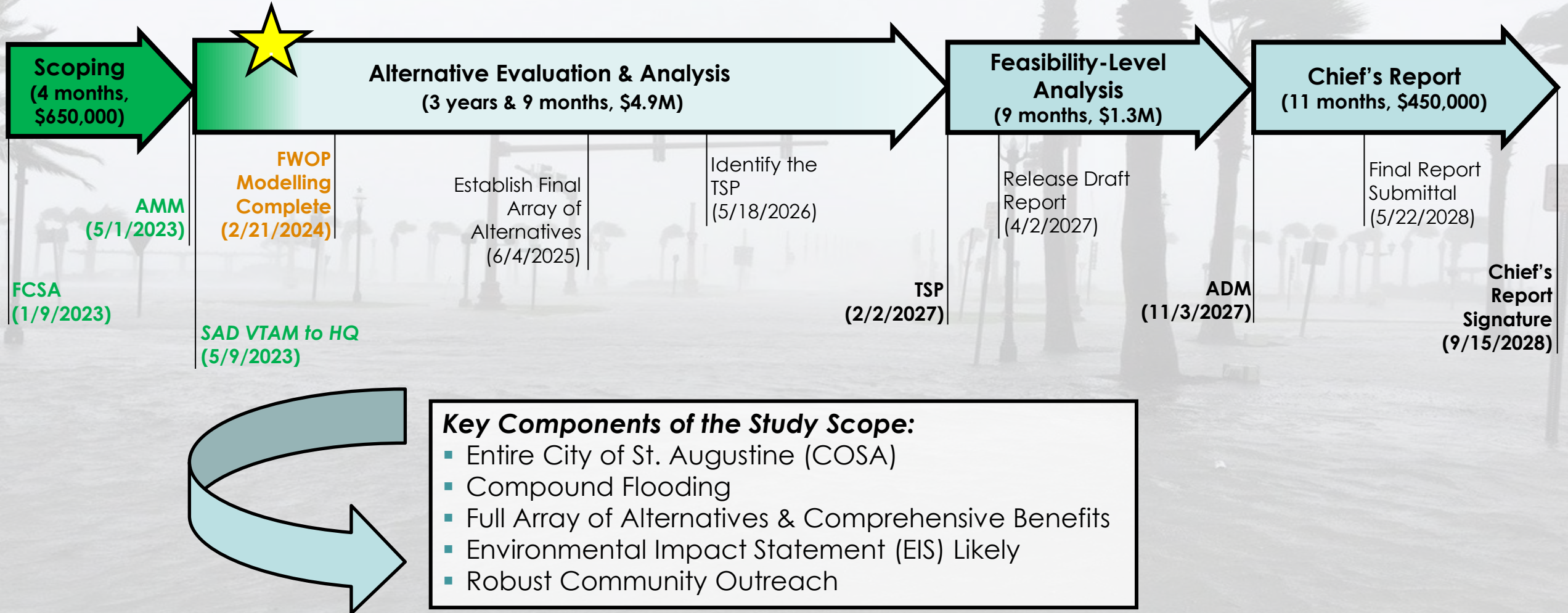
STUDY SCHEDULE & BUDGET

★ We Are Here

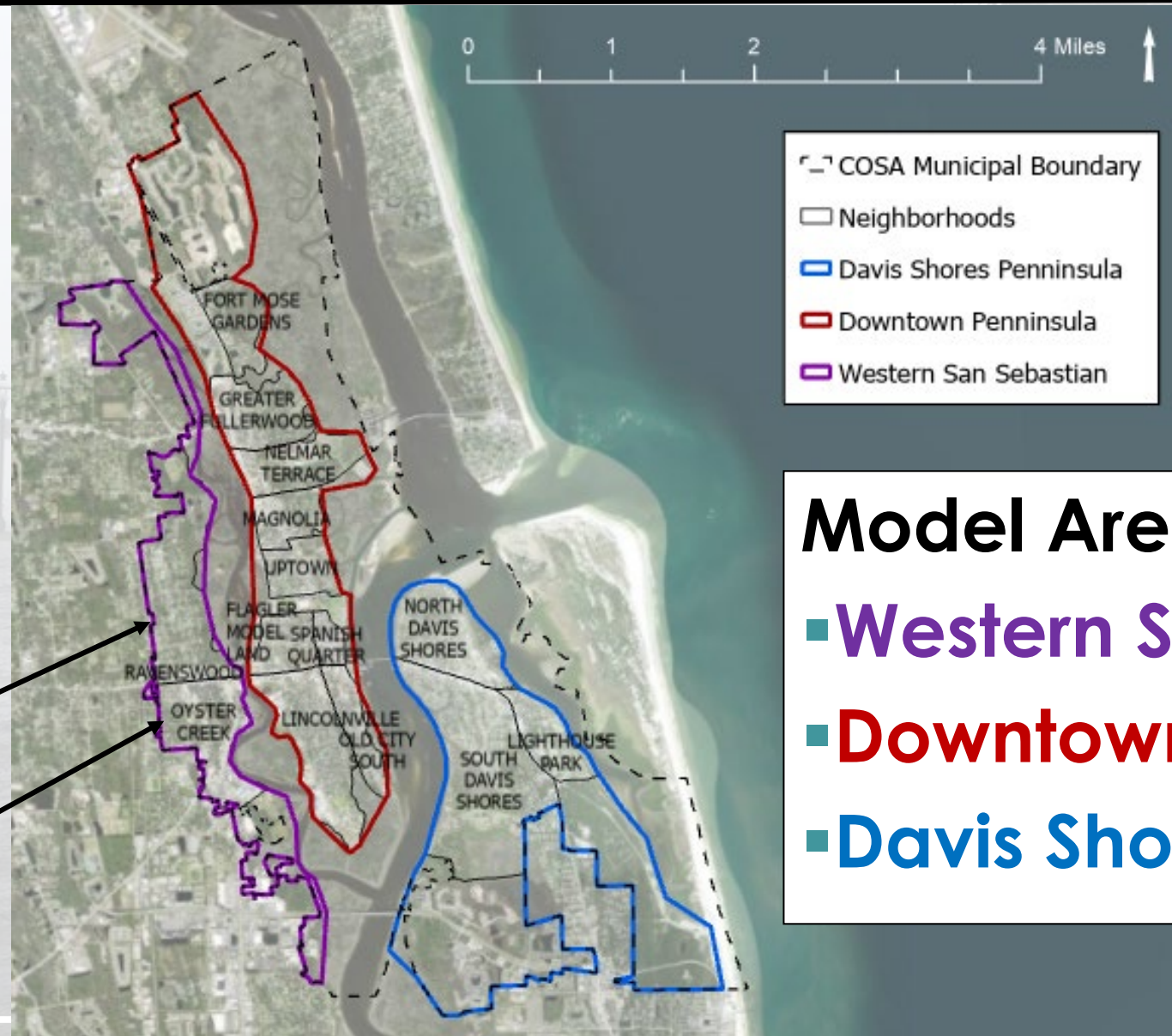


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Schedule & Budget Overview: **5 years & 9 months, \$7.3M, Cost Share ~50% Fed, 50% Sponsor**



STUDY MODEL REACHES



Model Areas

- Western San Sebastian
- Downtown Peninsula
- Davis Shores Peninsula

Environmental
Justice (EJ)
Communities

Measure Function → Initial Array of Alternatives

Wall/Levee/Dune features stop flooding at the back bay shoreline.

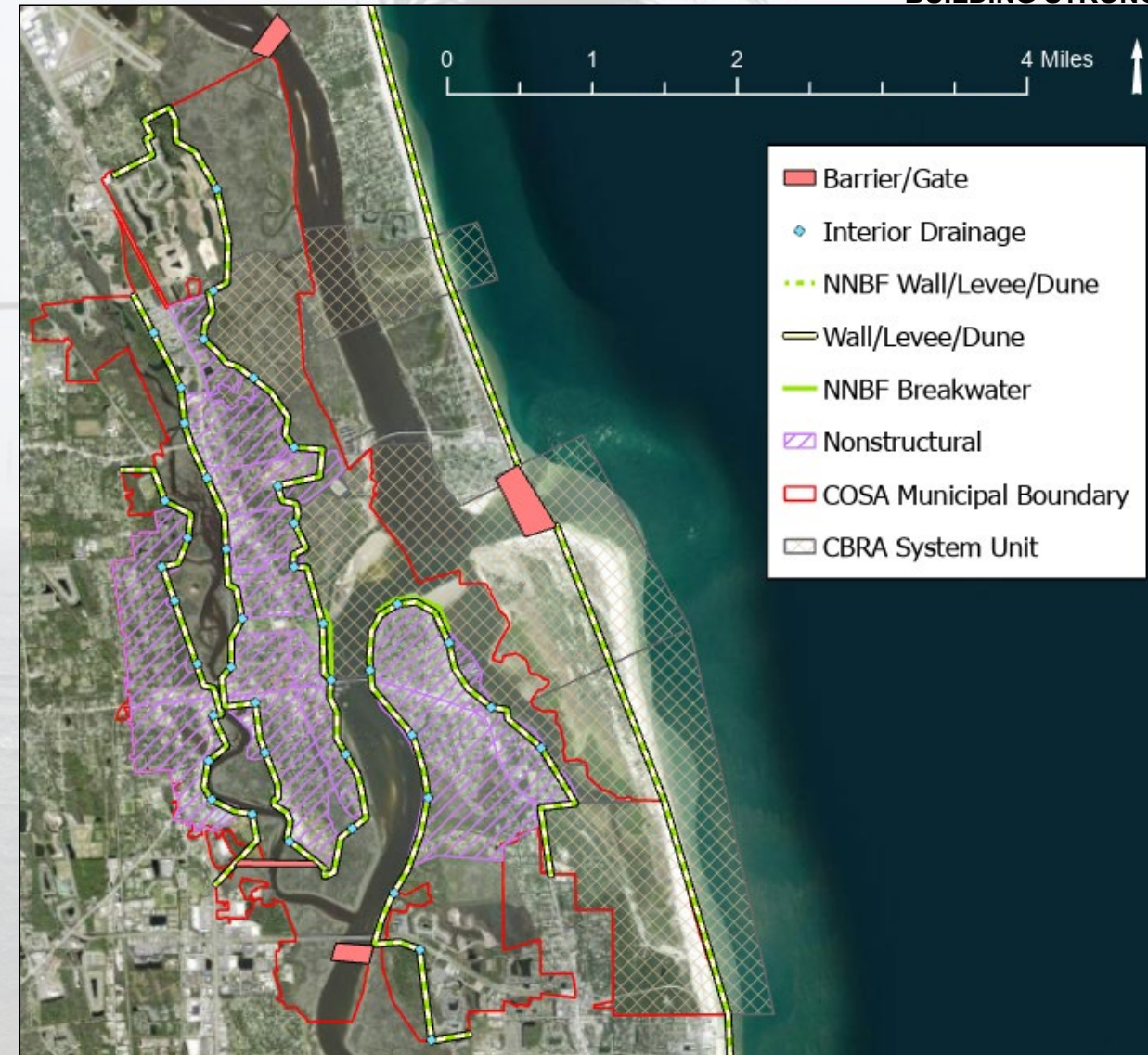
Surge Barrier/Gate features stop flooding before it gets into the back bay waters.

Interior Drainage features get flooding out of upland areas.

Nonstructural features reduce flood risk without directly effecting flooding processes.

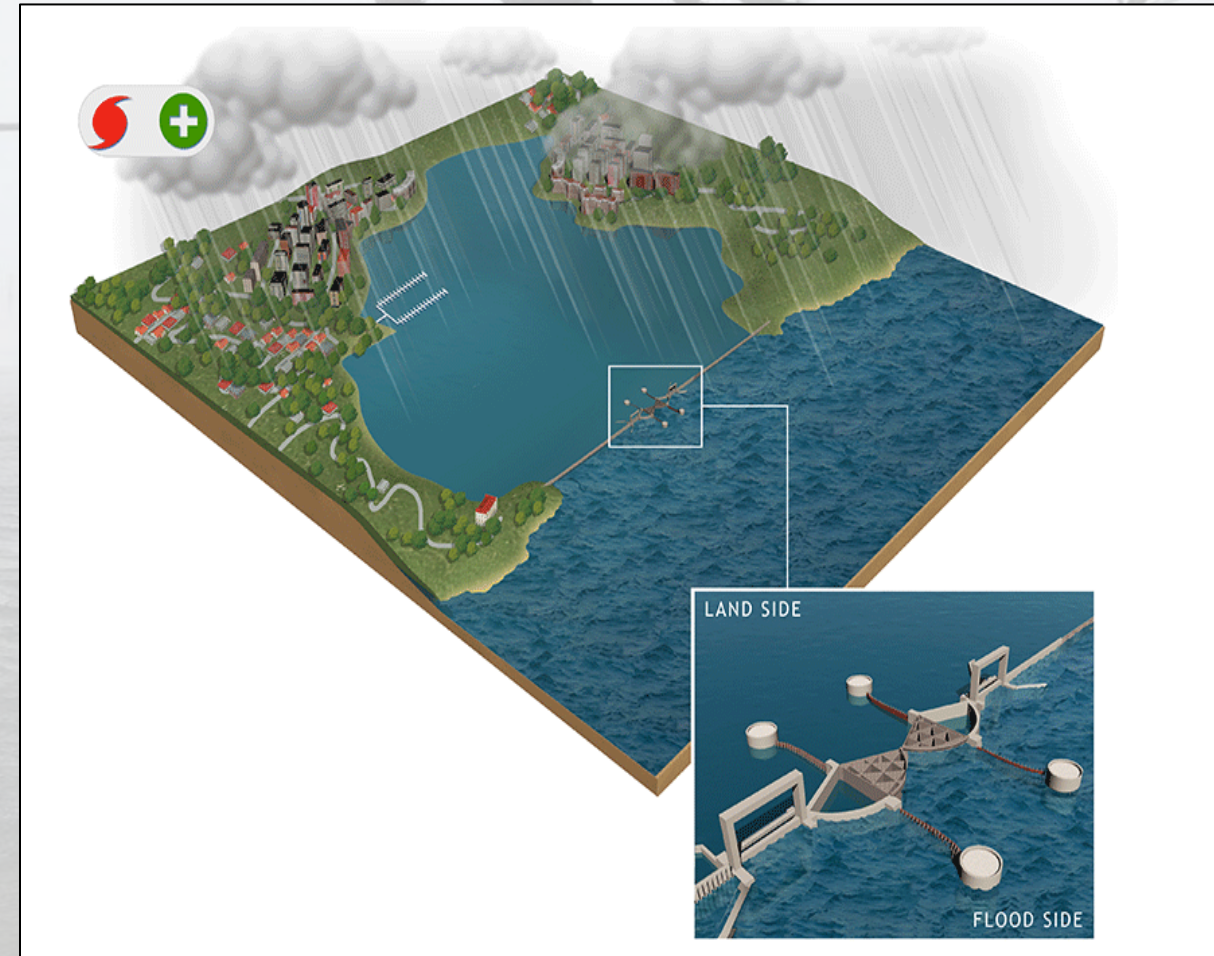
Breakwaters/NNBFS can reduce wave energy before it gets to the back bay shoreline.

0. No Action
1. Wall/Levee with Interior Drainage Features & Breakwaters/NNBFs
2. Storm Surge Barrier at Inlet(s)/IWW with Wall/Levee/Dune tiebacks
3. San Sebastian River Flood Gate with Wall/Levee & Interior Drainage Features & Breakwaters/NNBFs
4. All Nonstructural
5. Wall/Levee with Interior Drainage Features & Breakwaters/NNBFs & Nonstructural
6. Storm Surge Barrier at Inlet(s)/IWW with Wall/Levee/Dune tiebacks & Nonstructural



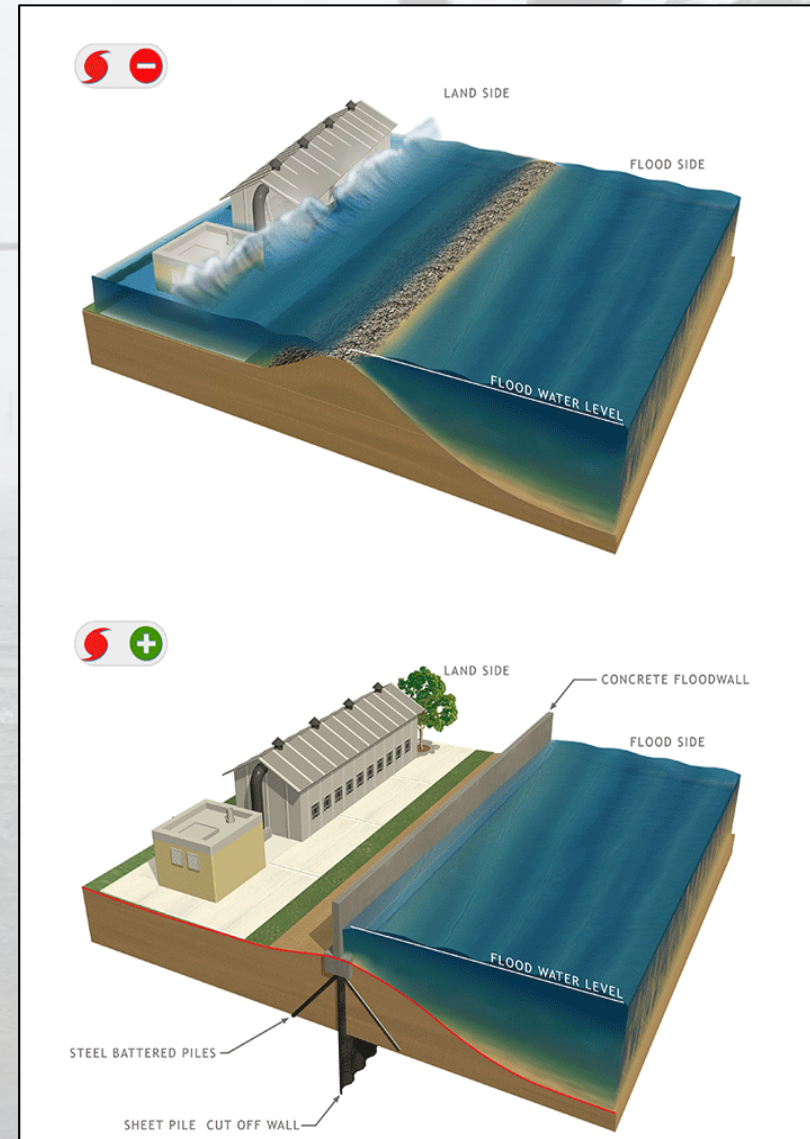
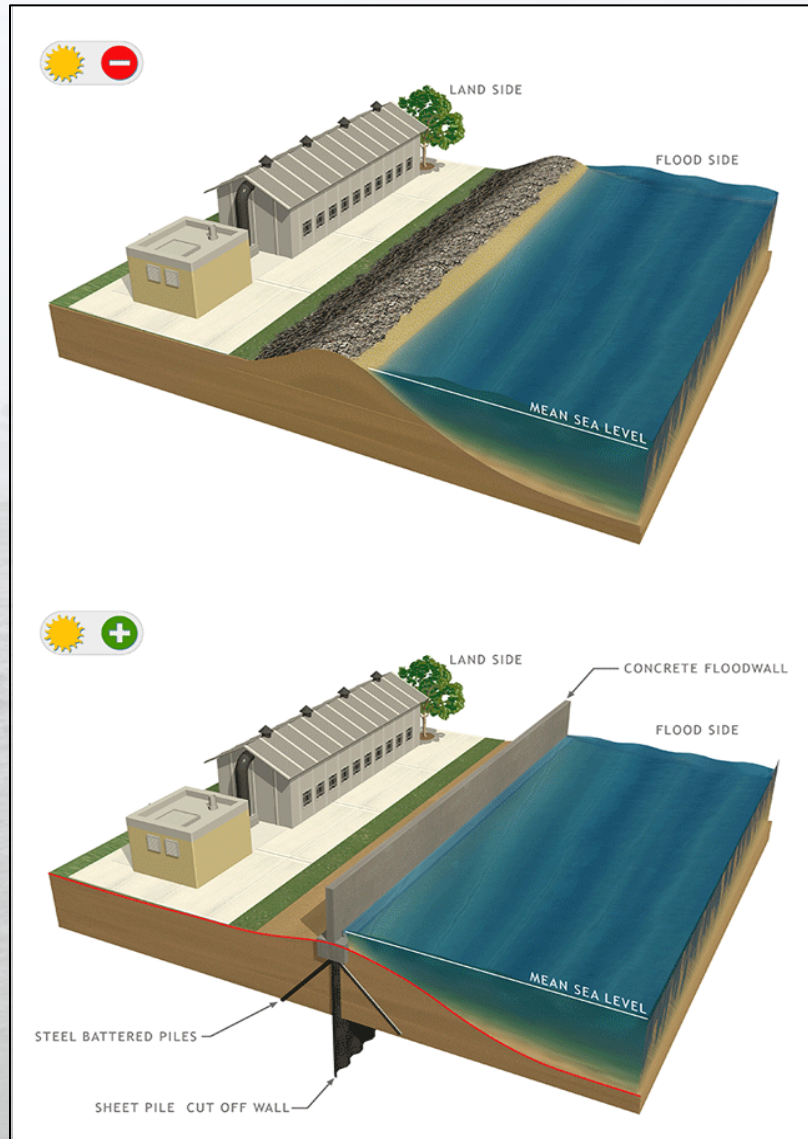
ALTERNATIVES EVALUATION

Alternative Example: Storm Surge Barriers



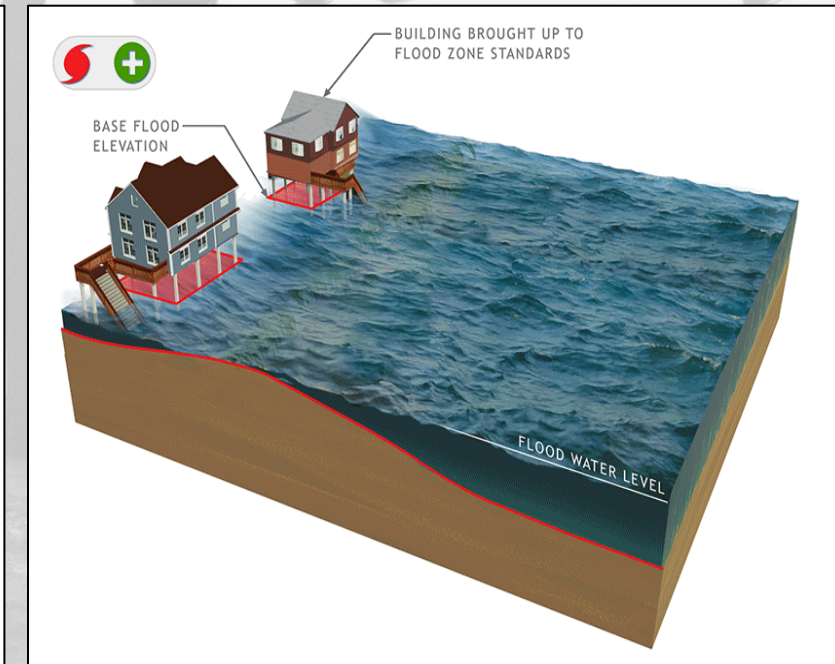
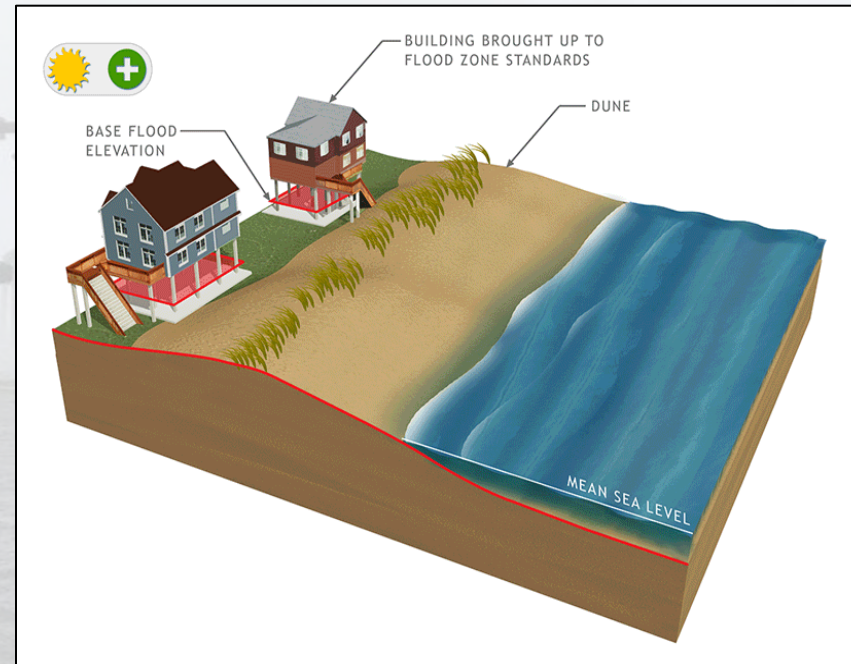
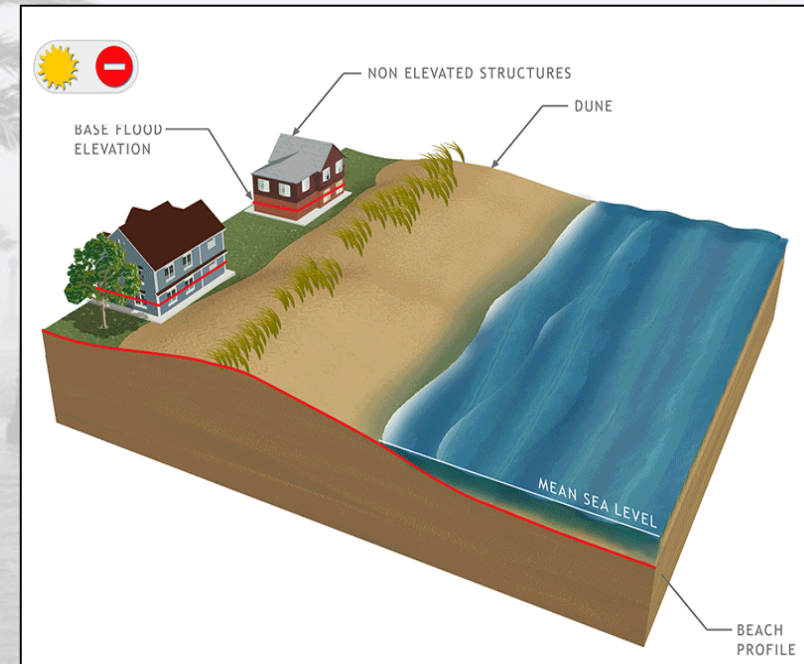
ALTERNATIVES EVALUATION

Alternative Example: Floodwalls



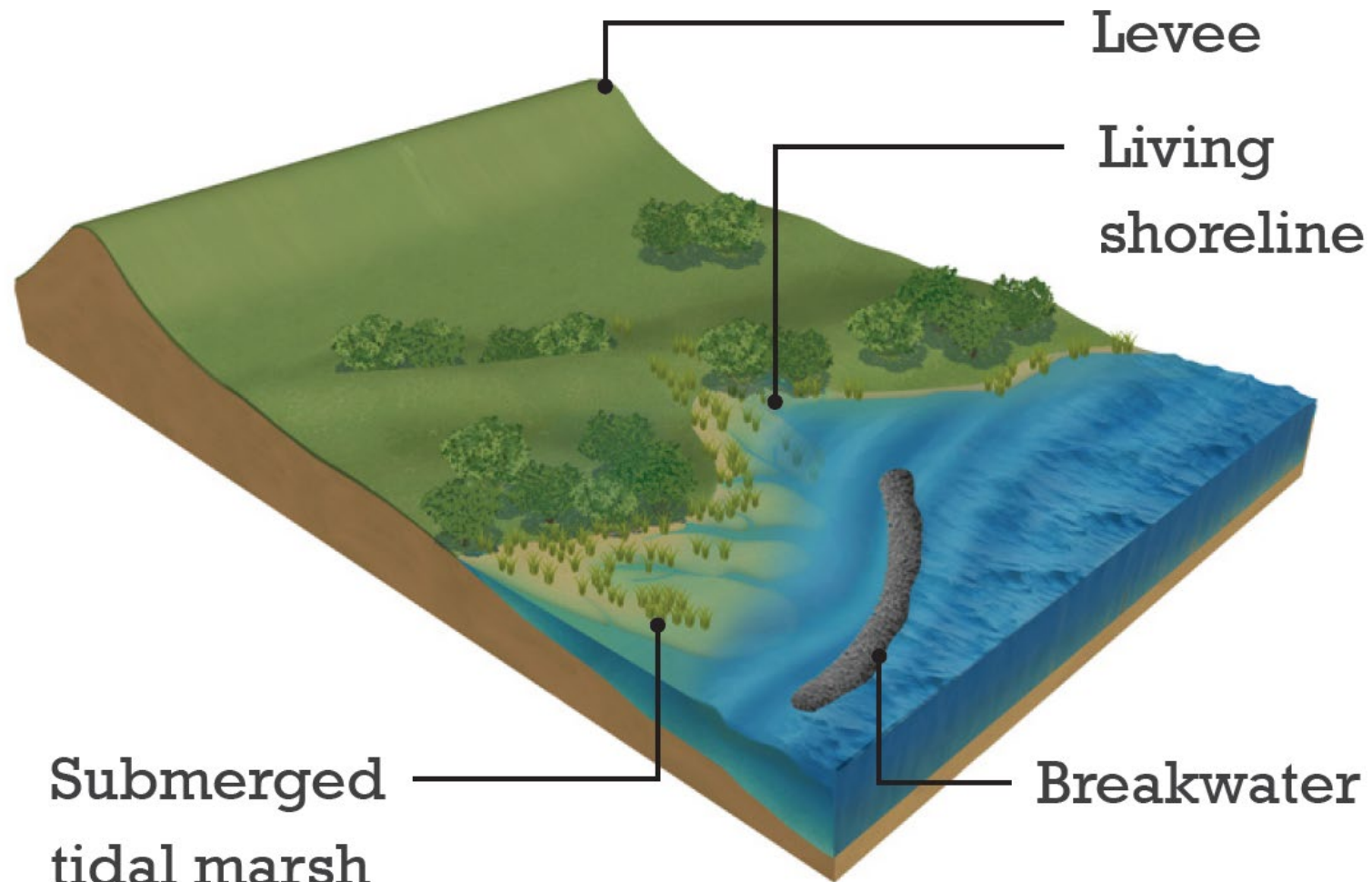
ALTERNATIVES EVALUATION

Alternative Example: Non-Structural (Elevating Structures, Floodproofing, Ring Walls, Acquisition/Relocation)



ALTERNATIVES EVALUATION

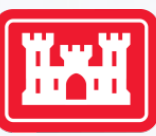
Alternative Example: Natural & Nature-Based Features





PATH FORWARD

KEY SCHEDULE ACTIVITIES - LOOK AHEAD



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Key Activities	Finish Date
FCSA Executed	1/9/2023
AMM Milestone Meeting	5/1/2023
Initial Flood Driver Screening (Scope Decision Point)	5/17/2023
End of FY23	9/30/2023
G2CRM FWOP Production Runs	2/21/2024
Establish Initial Array of Alternatives	8/21/2024
End of FY24	9/30/2024
G2CRM FWP Initial Alternatives Production Runs & Post Processing	5/15/2025
Establish Final Array of Alternatives (Scope Decision Point)	6/4/2025
G2CRM FWP Final Alternatives Production Runs & Post Processing	9/22/2025
End of FY25	9/30/2025
Identify National Economic Development (NED) Plan	12/22/2025
Identify Comprehensive Benefits Plan/Locally Preferred Plan (LPP)	3/17/2026
Identify the TSP	5/18/2026
End of FY26	9/30/2026
Exceptions/Waivers Approved by Assistant Secretary to the Army (ASA)	11/20/2026
TSP Milestone Meeting	2/2/2027
Release Draft Report for Concurrent Reviews	4/2/2027
End of FY27	9/30/2027
ADM Meeting	11/3/2027
Final Report Submittal Package to HQ	5/22/2028
Chief's Report Signature	9/15/2028





DISCIPLINE SPECIFIC UPDATES/ACTIONS



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- **Planning Technical Lead:** Marty Durkin
- **Engineering Technical Lead:** Patrick Snyder
- **Environmental Lead:** Darren Pecora
- **Economics Lead:** Vongmony Var
- **Cultural Resources Lead:** Zuzana Chovanec
- **Real Estate Lead:** Chris Bukolt
- **Office of Counsel:** Katie Gwin



UPCOMING PUBLIC ENGAGEMENT



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Dates	Events
October 4 th , 2023	Public Workshop (6:30 pm, 75 King Street- Alcazar Room)
October 19 th , 2023	Monthly Planning Webinar
November 16 th , 2023	Monthly Planning Webinar
December 21 st , 2023	Monthly Planning Webinar
January 18 th , 2024	Monthly Planning Webinar
February 15 th , 2024	Monthly Planning Webinar



PUBLIC OUTREACH (STUDY WEBSITE)



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St. Augustine Back Bay Study - V x +

experience.arcgis.com/experience/06bb9c98d9184bd9a374a244f6d27474/

_USACE Finance Mapping News USACE Google All Bookmarks

St. Augustine, FL Back Bay Coastal Study

Engineering Economics Environmental Cultural Resources Real Estate About

U.S. Army Corps of Engineers – Jacksonville District Main Website

Welcome to the St. Augustine, Florida Back Bay Coastal Storm Risk Management (CSRM) Web Experience Homepage

Upcoming Events: Our Next Public Meeting will be held on October 4th, 2023 at 6:30pm. < Prev Next >

This Web Experience Homepage is a visual representation of the ongoing St. Augustine CSRM Study. During the study, this page will be updated with the latest information to include meeting agendas, minutes, graphics, etc. to keep the public and agencies engaged as partners in developing a long term solution to flooding within the City of St. Augustine.

Page Contents

- Study Overview
- Plan Formulation
- Monthly Planning Meetings
- Interactive Map
- Public Meetings/Workshops
- News, Social Media, Helpful Links
- Scope, Schedule, and Budget
- Contact Information

For better viewing experience, please use Google Chrome or Mozilla Firefox browsers. Also, please use a PC to interact with the web experience homepage.

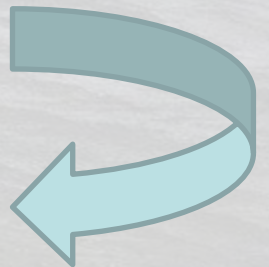
ArcGIS Experience Builder technology animates the complicated concepts considered by the design team by allowing users to:

- See the improvements and reduced flooding impacts from this study in the City of St. Augustine (COSA)
- Experience the various alternatives and recommended plan with detailed artistic graphics and renderings
- Examine Engineering, Economic, Cultural, and Key Environmental Features

STUDY OVERVIEW

Study Authority

This study is being conducted under the authority from the June 21, 2000, House Resolution 2646 that granted authority for a Coastal Storm Risk Management (CSRM) study in St. Johns County, Florida:
"Resolved by the Committee on Transportation and Infrastructure of the United States House



<https://experience.arcgis.com/experience/06bb9c98d9184bd9a374a244f6d27474/>




Trusted Partners Delivering Value Today for a Better Tomorrow



PUBLIC OUTREACH



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 U.S. Army Corps of Engineers, Jacksonville District  1 d · 




Join USACE Jacksonville and the City of St. Augustine Thursday, Sept. 21, from 1-2:30 p.m. for the monthly St. Augustine Back Bay Study planning meeting. Join online at <https://usace1.webex.com/meet/jason.s.harrah> or dial in at 1-844-800-2712; enter access code 199 927 9909 when prompted. @CityStAug

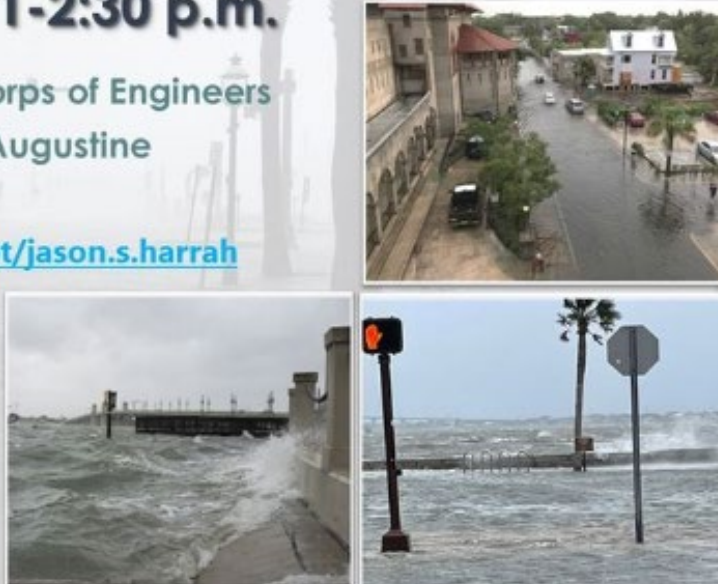
St. Augustine, Florida, Back Bay CSRM Feasibility Study Monthly Planning Webinar
Sept. 21, 2023, 1-2:30 p.m.

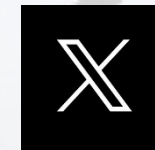
Presented by U.S. Army Corps of Engineers
and the City of St. Augustine

Join online
<https://usace1.webex.com/meet/jason.s.harrah>

Call in
Dial 1-844-800-2712
Enter access code 199 927 9909

  
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Submit Public Comment

US Army Corps of Engineers Jacksonville
District: St. Augustine Florida Back Bay
Feasibility Study

Scoping Meeting and Comment Period
Notice Letter for USACE St. Augustine
Back Bay Coastal Storm Risk Management
(CSRM) Feasibility Study (PDF)

[Home](#) > [Government](#) > [Resiliency](#) > [Planning/Studies](#) > Back Bay Feasibility Study with the Army Corps of Engineers

Back Bay Feasibility Study with the Army Corps of Engineers

The objectives of the study include (1) reduce flooding caused by coastal storms, extreme high tides, and future projected sea level rise in the study area; (2) explore opportunities to increase community resiliency from future coastal storms. Issues that are anticipated include concern for aesthetics, cultural resources, recreation, socioeconomic, environmental justice, wetlands, fish and wildlife resources, threatened and endangered species, and water quality. CSRM measures to be evaluated may include a combination of structural (i.e., tidal gates, seawalls, revetments, levees, drainage improvements, building elevation, etc.), non-structural (i.e., relocation, buyouts, etc.), and natural and nature-based features (i.e., living shorelines, vegetated features, oyster reefs, and maritime forests). Public Comments will be accepted throughout the life of the study.

Back Bay Signing Ceremony January 9th, 2023



Submit Public Comment



Email: BackBay@citystaug.com



**US Army Corps
of Engineers**®
Jacksonville District

[Jacksonville District Website](#)

[Monthly Project Delivery Team \(PDT\) Meetings](#)

Social Media

<https://www.instagram.com/citystaug/>
<https://www.facebook.com/citystaug>
<https://twitter.com/citystaug>



CLOSING REMARKS/QUESTIONS



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- **Sponsor Remarks**
- **Federal Agency Questions/Comments**
- **State Agency Questions/Comments**
- **Local Agency Questions/Comments**
- **Public Comments**