



**CITY OF ST. AUGUSTINE CITY COMMISSION
SPECIAL MEETING AGENDA**

MONDAY, OCTOBER 25, 2021

3:00 P.M.

ALCAZAR ROOM

-
1. Call to Order.
Roll Call.
 2. General Public Comments.
 3. Overview of the City's Resilience Program and Strategy. (*J. Beach, Chief Resilience Officer and R. Franklin, Public Works Director*).
 4. Review of City's Projects List and Priorities for Commission Input and Discussion. (*J. Beach, Chief Resilience Officer and R. Franklin, Public Works Director*).
 5. Utility and Public Works Quarterly Update. (*R. Franklin, Public Works Director and T. Grant, Utilities Director*).
 6. Additional General Public Comments Time Permitting.
 7. Adjourn.

NOTICES: In accordance with Florida Statute 286.0105: "If any person decides to appeal any decision made by the City Commission with respect to any matter considered at this scheduled meeting or hearing, the person will need a record of the proceedings, and for such purpose the person may need to ensure that a verbatim record of the proceedings is made, which record includes the testimony and evidence upon which the appeal is to be based." In accordance with the Americans with Disabilities Act, persons needing a special accommodation to participate in this proceeding should contact the individual or agency sending notice not later than seven days prior to the proceeding at the address given on the notice. Telephone (904) 825-1007; 1-800-955-8771 (TDB) or 1-800-955-8770 (V), via Florida Relay Service. Please note that one or more members of the City Commission or its appointed boards or committees may attend this meeting and participate, however they may not engage in a discussion or debate amongst themselves on any issue that will likely come before their respective elected or appointed body. The materials prepared and presented are part of the City's ongoing Florida Public Records and Government in the Sunshine compliance and are not intended to be relied upon or to reach investors or the trading markets.



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City Commission

Resilience Workshop

October 25, 2021

Jessica L. Beach, P.E.

Chief Resilience Officer

Reuben C. Franklin, Jr., P.E.

Director, Public Works





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Resilience Workshop - Agenda

❖ Overview of the City's Resilience Program and Strategy.

- ✓ Current relevant policies
- ✓ Planning efforts

❖ Review of City's Projects List and Priorities for Commission Input and Discussion.

- ✓ Summary project list
- ✓ Funding of projects
- ✓ Moving forward

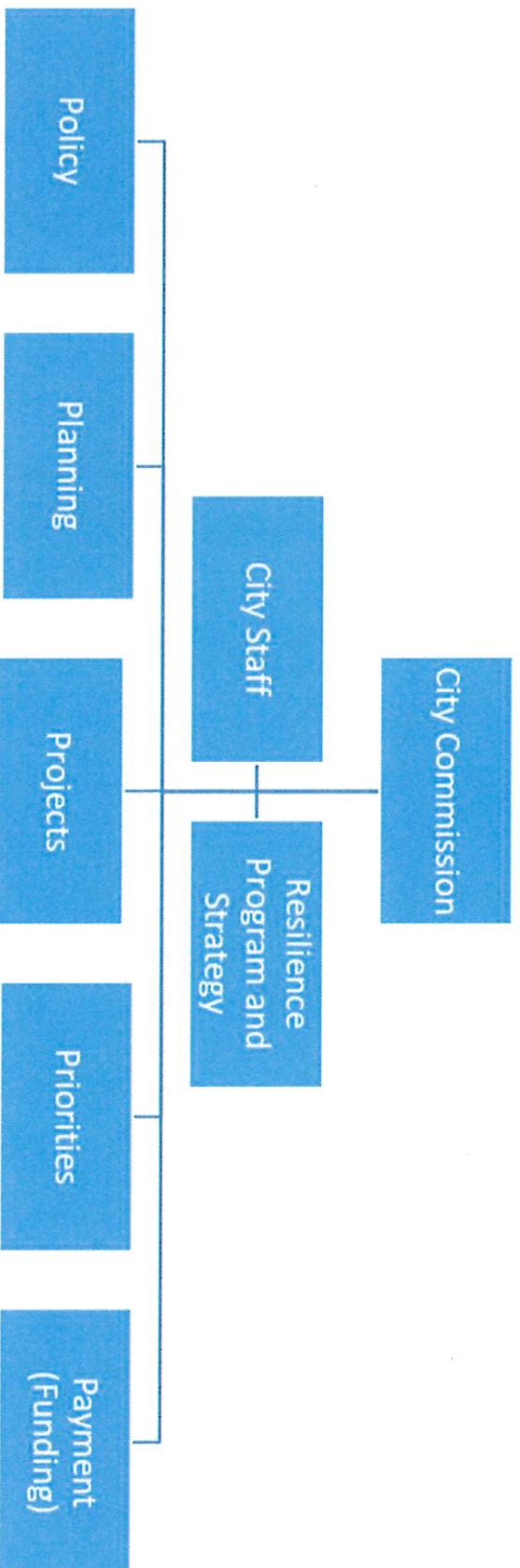
❖ Public Works and Utilities Quarterly Update



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Resilience Workshop – Program Overview

Program Outline





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Resilience Workshop – Policy

❖ **Comprehensive Plan 2040** - adopted July 2020, effective September 2020

- **Resilience is woven throughout**
- **Conservation and Coastal Management Element (CCCM) – Perils of Flood and Sea Level Rise (SLR)**
- **Infrastructure Element – Goal 6 – Perils of Flood and Sustainability**



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Resilience Workshop – Policy

❖ CCM Element

- ✓ **Policy 1.2.4** – update stormwater master plan within two (2) years...
- ✓ **Policy 2.10.8** – develop strategies...
- ✓ **Objective 2.16** – implement adaptation strategies and engineering solutions...
- ✓ **Objective 2.18** – utilize the FDEO Coastal Vulnerability Assessment and the 2017 Adaptation Plan for St. Augustine...



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Resilience Workshop – Policy

❖ CCM Element

- ✓ **Policy 2.18.1** – utilize a 20–40-year municipal planning timeframe...
- ✓ **Policy 2.18.2** – utilize a 50–80-year timeframe for infrastructure...
- ✓ **Policy 2.18.3** – utilize 1.5 feet of SLR for initial project scoping...



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Resilience Workshop – Policy

❖ Infrastructure Element

- ✓ **Policy 6.1.1** – USACOE Back Bay Feasibility Study...
- ✓ **Policy 6.2.1** – nuisance flooding + 1.5 ft SLR
- ✓ **Policy 6.2.2** – tide check valve capital program continue
- ✓ **Policy 6.2.3** – 1% annual chance, two-step process, 7.0 ft NAVD88 + future adaptability
- ✓ **Policy 6.2.4** – continue to fund SWTR/UTL/PAV



Resilience Workshop – Planning

- **Stormwater Master Plan Update (2013)**
- **Community Resilience Initiative – Pilot Project (2016 – 2017)**
 - ❑ Coastal Vulnerability Assessment
 - ❑ Strategic Adaptation Plan
- **Historic Preservation Master Plan (2018)**
- **Resilient Heritage in the Nation's Oldest City (2020)**
- **Comprehensive Plan 2040 (2020)**
- **Septic Tank Vulnerability Assessment (2021)**
- **South Davis Shore Resilience Master Plan (2021)**
- **Stormwater Outfall Resiliency Master Plan (2021-2022)**



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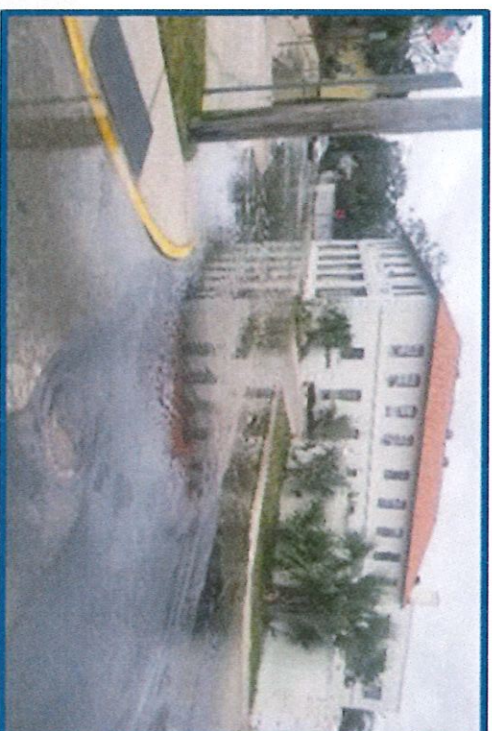
Resilience Workshop – Planning

Coastal Vulnerability Assessment

➤ Evaluated total area flooded, roads, bridges, buildings, 2,550 historic and archeological resources, water and wastewater plants, groundwater supply

➤ 3 Scenarios:

- Mean Higher High Water – daily inundation about 2' NAVD88
- Nuisance Flooding – 12-17 times per year, 3.75' NAVD88
- 1% annual chance flood event – 26% chance in 30 years, 6-10' NAVD88





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Resilience Workshop – Planning

Strategic Adaptation Plan:

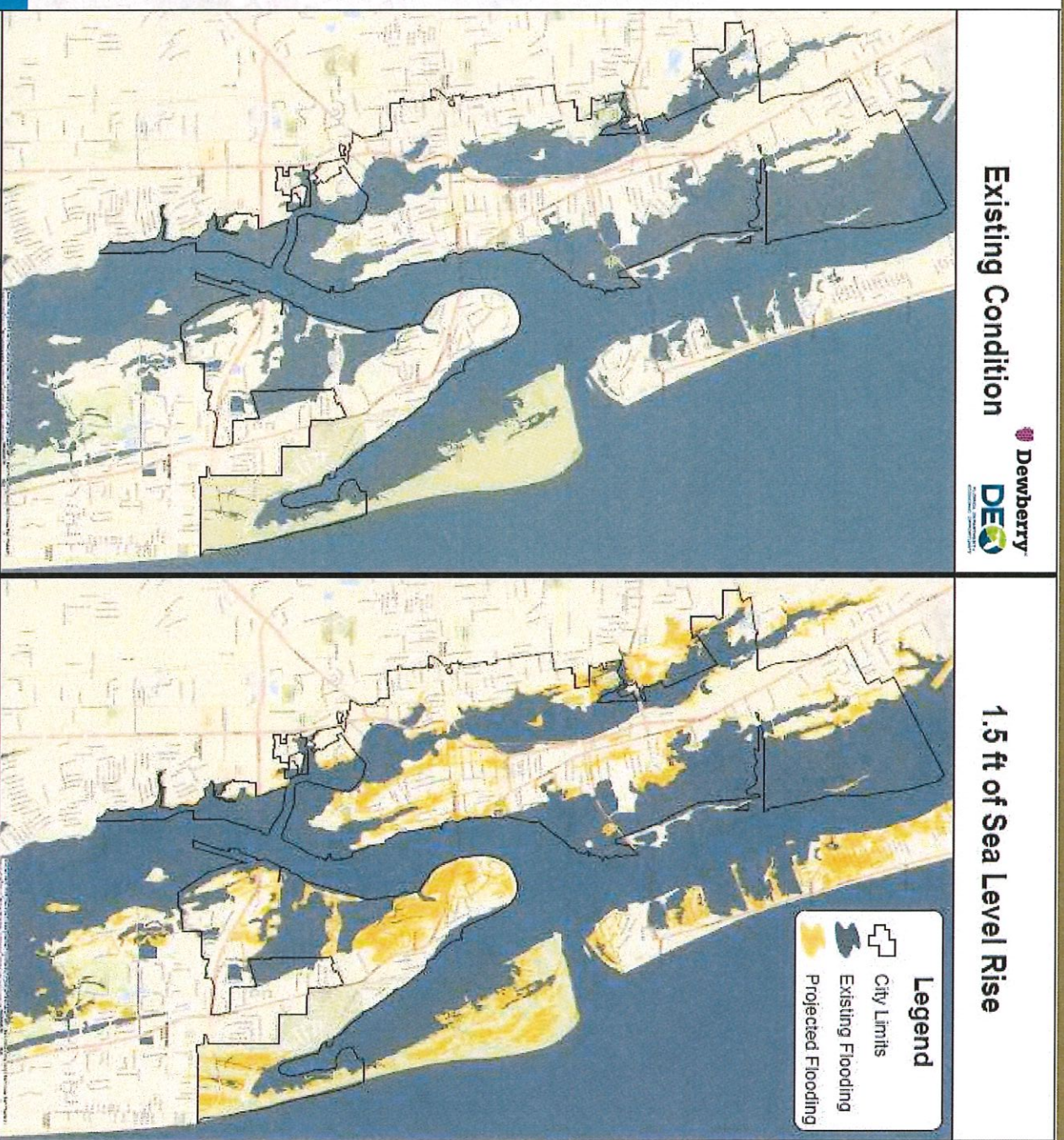
- ✓ Educate the public about SLR & policy responses
- ✓ Develop baseline budgets
- ✓ Adopt policies that limit spending in areas where retreat or re-design are more effective
- ✓ Base decisions on FEMA's updated FIRMs
- ✓ Install LID/Green infrastructure
- ✓ Targeted upgrades to City's stormwater system
- ✓ WWTP options
- ✓ FDOT roadway improvements for resiliency
- ✓ Historic Preservation Comprehensive Plan



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Resilience Workshop – Planning

Existing and Future Conditions – Nuisance Flooding (maps from the Coastal Vulnerability Assessment)



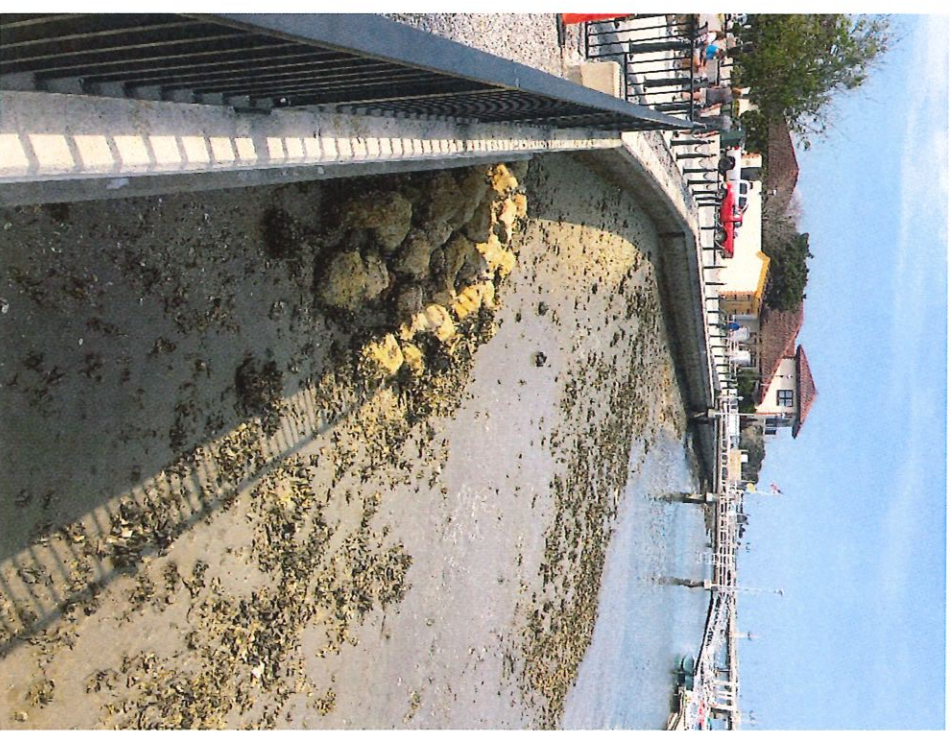


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Resilience Workshop – Projects

❖ Current Active Projects

- ✓ FEMA 13 Lift Stations Rehabilitation - **under construction** (www.CityStAug.com/FEMA13)
- ✓ Lake Maria Sanchez Flood Mitigation and Drainage Improvement Project (HMPG) – **proceeding with design** (www.CityStAug.com/LakeMariaSanchez)
- ✓ Avenida Menendez Flood Barrier (HMGF) – Phase 1 @ **90%**
- ✓ South Whitney West King Street Flood Mitigation (HMGF) – **design complete**, seeking funding for non-federal match before moving to construction
- ✓ FEMA Flood Mitigation Assistance (FMA) Program for elevating of structures – **applications to be submitted this year**





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Resilience Workshop – Projects

Proposed - Citywide Stormwater Resilience Master Plan Update

- **Modeled** after the **City of Miami's** Master Plan
- **Build upon** the work completed in South Davis Shores
- **Integrate** all studies done to date
- Re-evaluate using the **latest data and projections for SLR**, climatic patterns, groundwater levels, rainfall patterns, saltwater intrusion etc.
- Identify opportunities for improving **water quality**
- Identify resilient **natural and built coastal features** and **infrastructure strategies**
- Consider **cost-benefit analysis** for identified strategies
- Provide a **“road map”** for capital improvement projects



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Resilience Workshop – Priorities

❖ Resilient Planning & Study Needs – refer to handout



Resilience Workshop – Priorities

❖ Resilient Projects Needs – refer to handout



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Resilience Workshop – Payment (Funding)

❖ **Funding - State – Resilient Florida – new from the State Legislature – s. 380.093, F.S. - Planning and implementation/adaption grants available annually**

- **Projects Identified as Eligible to Proceed For Further Submission/Review:**

- South Whitney and West King Street Flood Mitigation and Drainage Improvements
- Lake Maria Sanchez Flood Mitigation and Drainage Improvements
- South Davis Shores Flood Mitigation and Drainage Improvements
- City Wide Tidal Backflow Prevention Improvements
- Groundwater Monitoring Network for SLR
- Flood Mitigation and Drainage Improvements for the Court Theophelia Neighborhood
- Inlet Drive Shoreline Resiliency ~~th~~ Improvements



Resilience Workshop – Moving Forward

- ❖ **Input and Questions from the Commission**
- ❖ **Future workshops to the Commission on specific topics**
- ❖ **Time permitting – allow for public comment**



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Public Works and Utilities Quarterly Update – Separate Presentation



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Back up slides to main presentation



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Resilience Workshop – Policy

✓ **Comp Plan 2040**, adopted July 2020, effective September 2020

- ❑ Resilience is woven throughout the Comp Plan
- ❑ Conservation and Coastal Management Element (CCM)
 - **Natural Resources – Surface Water, Policy 1.2.4** - The City shall update its Stormwater Master Plan within (2) years of adoption of this comprehensive plan...
 - **Development in Coastal High Hazard Area (CHHA), Policy 2.10.8** - The City recognizes sea-level rise as a potential coastal hazard, and shall with St. Johns County, state and regional entities as appropriate to develop strategies for responding to sea level rise (SLR)...
 - **Perils of Flood and Sea Level Rise**
 - Objective 2.16 - The City will implement adaptation strategies and engineering solutions for areas vulnerable to coastal flooding, tidal events, storm surge, flash floods, stormwater runoff, saltwater intrusion and other impacts related to climate change or exacerbated by SLR, with the intent to increase the City's comprehensive adaptability and resiliency capabilities



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Resilience Workshop – Policy

❖ Policy – continued – **Comp Plan 2040**, adopted July 2020, effective September 2020

❑ CCM - **Perils of Flood and Sea Level Rise**

- **Objective 2.18** - The City will utilize the FDEO Coastal Vulnerability Assessment (CVA) and the 2017 Adaptation Plan for St. Augustine...to identify portions of the community most vulnerable to the effects of current and future coastal flooding hazards
- **Policy 2.18.1** - As outlined in the FDEO CVA, the City will utilize a 20-40 year (2035-2055) municipal planning timeframe for Comprehensive Planning purposes and the basis for evaluation of all adaptation strategies
- **Policy 2.18.2** - As outlined in the FDEO CVA, the City will utilize a 50-80 year (2065-2085) timeframe for long term awareness related to utility infrastructure, transportation and residential structural lifecycles. This timeframe will allow for the evaluation of the cost-effectiveness of additional protection for adaptable resilience strategies
- **Policy 2.18.3** - The City will utilize 1.5 feet of SLR for initial project scoping to predict needed engineering solutions and to identify vulnerabilities and projections of vulnerable areas based on the data and analysis



Resilience Workshop – Policy

- ❖ Policy – continued -**Comp Plan 2040**, adopted July 2020, effective September 2020
 - ❑ **Infrastructure Element – Goal 6 – Perils of Flood and Sustainability**
 - **Policy 6.1.1** - It is recommended that the City continue to pursue funding support from the USACOE for the Back Bay Feasibility Study
 - **Policy 6.2.1** - It is recommended that protection for nuisance flooding be for current conditions plus 1.5 feet of SLR
 - **Policy 6.2.2** - It is recommended that the tide check valve capital improvement programs continue to be funded at least at the current level
 - **Policy 6.2.3** - It is recommended that protection for the 1% or 100-year annual flood be a two-step process with the first step being protection to an elevation of 7.0 feet NAVD88, with adaptable designs capable of raising the structures for higher levels of protection when complete protect at the 7.0 feet elevation is achieved.
 - **Policy 6.2.4** - It is recommended that the City continue to fund Stormwater, Utility and Paving capital improvement program



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Resilience Workshop – Priorities

❖ **Resilience Planning Needs - refer to spreadsheet handout**

Resilience Planning & Study Needs Presented to the City Commission

Project Name	Project Description	Estimated Project Costs
Stormwater Resilience Master Plan	Update Stormwater Master Plan to incorporate Resilience citywide; phase 1 - expand upon South Davis Shores efforts then scale up to city wide	\$ 2,150,000.00
USACOE Backbay Feasibility Study	3 year study to evaluate flood mitigation options for the City; projects identified in the study would be eligible for Federal \$	\$ 3,000,000.00
Oyster Creek Resilience Plan Development -	Evaluate Oyster Creek Drainage Basin, multiple benefits/opportunities to address drainage/flooding, water quality issues, and incorporate mobility	\$ 150,000.00
Citywide Seawall Ordinance	Evaluate the feasibility of establishing a seawall ordinance to address the locations vulnerable to storm surge	\$ 50,000.00
Educate Prospective Home Buyers & Real Estate Professionals About Floodplains & Base Floor Elevations	Set up a program and/or workshop to educate targeted audience	\$ 50,000.00
Feasibility Study for Lake Maria Sanchez Dredging and Water Quality Improvements	Feasibility study to determine options for Lake	\$ 75,000.00

Planning Needs Subtotal \$ 5,475,000.00



Resilience Workshop – Payment (Funding)

- ❖ Funding opportunity through the U.S. Department of Housing and Urban Development (HUD)
 - Program administered through the State by the Florida Department of Economic Opportunity (DEO) – General Infrastructure Program (GIP) – Round 2
 - \$175M for long-term mitigation efforts available

Description		Rebuild Florida Funding Request for Construction
Project Administration	Project administrative costs associated with administering the grant	\$ 992,683
Lake Maria Sanchez Drainage & Seawall Project	The project involves stormwater drainage and a new sea wall in an area south of King Street between the Intercoastal Waterway on the east and the San Sebastian River on the south and west.	\$ 18,860,981
TOTAL		\$ 19,853,664

Resilience Planning & Study Needs Presented to the City Commission

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Planning Needs Subtotal \$ 5,475,000.00

Resilience Projects Needs Presented to the City Commission

Project Name	Project Description	Project Status	Estimated Project Costs
Flood Mitigation Improvements to St. Augustine Sanitary Sewer Pumping Stations - FEMA 13	Elevate, flood proof 13 lift stations	Started construction FEMA PA Funded	\$ 13,800,000
Lake Maria Sanchez (\$500,001) - FEMA HMGP	FEMA funded project for flood mitigation and drainage improvements	Design (60%) FEMA HMGP Funded Seeking Addtl Grants	\$ 30,000,000
South Whitney/West King Improvements (SWWK) - FEMA HMGP	FEMA funded project for flood mitigation and drainage improvements	Design Complete FEMA HMGP Funded Seeking Addtl Grants	\$ 2,020,000
Aven Men SeaWall - Flood Barrier (HMGP)	Complete elevation gap of existing wall, HMGP awarded for Phase 1 Design	Design (90%) FEMA HMGP Funded Seeking Addtl Grants	\$ 1,087,000
City Wide - Backflow Prevention Improvements (TIDE)	Retrofit existing storm pipes with tide check valves (remaining City outfalls)	In Progress Seeking Addtl Grants	\$ 2,640,000
Elevation of repetitive flood loss property through FEMA FMA Program	Elevate properties that have repetively flooded and/or damaged	In Progress FEMA FMA Funded	\$ -
South Davis Shores - Mitigation Alternative #1	Identified in SDS Resiliency Master Plan - Pilot Area - strategies required to meet a 5-year LOS - storm infrastructure improvements (increase capacity), re-grading Coquina Ditch, upsize Coquina Ditch culverts + check valves	Concept Analysis Seeking Addtl Grants	\$ 700,000
South Davis Shores - Mitigation Alternative #2	Identified in SDS Resiliency Master Plan - Pilot Area - strategies required to meet a 100-year LOS - Alt #1, plus expanded infrastructure improvements (increase capacity), expanding Coquina Ditch (depth + width)	Concept Analysis Seeking Addtl Grants	\$ 1,610,000
South Davis Shores - Additional Mitigation Strategies - Smart Valves	Identified in SDS Resiliency Master Plan - alternative to the permanent inline check valves in the culverts to maintain tidal flow, except during certain storms/events (Coquina, Hermosa, Old Quarry)	Concept Analysis Seeking Addtl Grants	\$ 600,000
South Davis Shores - Additional Mitigation Strategies - Pump Station	Identified in SDS Resiliency Master Plan - strategies required in addition to Alt Mit #1 and #2, to meet higher surge conditions and SLR, will require pumping	Concept Analysis Seeking Addtl Grants	\$ 2,400,000
South Davis Shores - Additional Mitigation Strategies - Seawalls	Identified in SDS Resiliency Master Plan - strategies required in addition to Alt Mit #1 and #2, to meet higher surge conditions and SLR, approximately 9,050 LF of shoreline, install flood barrier to elevation 7.0 NAVD88	Concept Analysis Seeking Addtl Grants	\$ 18,500,000
South Davis Shores - Additional Mitigation Strategies -Design	Design, survey, geotech and permitting estimated costs for Additional Mitigation Strategies. Design costs for Mit Alt #1 and #2 were included in those costs.	Concept Analysis Seeking Addtl Grants	\$ 6,450,000

Conversion of Septic to Sewer	Convert existing septic systems to sanitary sewer, program currently in place to plan and construct	Ongoing State Legislative Funding	\$	1,500,000
Flood Mitigation on King St (a.k.a. King Street Drainage-KSD)	FDOT King Street project to upgrade old/undersized storm system and COSA Cost Share (utility)	Design (90%)	\$	258,000
Flood Mitigation and Drainage Improvements of the Plaza de la Constitucion	Project identified in Resilient Heritage Study - flood mitigation and drainage improvements for the Plaza	Concept Analysis Seeking Add'l Grants	\$	4,645,000
South Dixie Highway Improvements (SDHI)	SDH roadway and drainage improvements, incorporate mobility	Conceptual Design (10%) Seeking Add'l Grants	\$	10,000,000
Lincolnville Drainage 3 (CDBG1)	Duero and Cerro Streets (utility + storm)	Design (60%)	\$	1,500,000
Drainage Improvements and Flood Mitigation for the Ct. Theophelia/Edna Neighborhood (COURT)	Neighborhood utility and drainage improvements, could be further evaluated with SWMPU	Conceptual Design (10%) Seeking Add'l Grants	\$	2,850,000
Flood Mitigation and Resiliency Improvements at Inlet Drive (a.k.a. Inlet Drive Shoreline Restoration)	Restore and/or elevate a portion of Inlet Dr shoreline	Conceptual Design (10%) Seeking Add'l Grants	\$	534,800
Groundwater Monitoring Network for Rates of Change to Sea Level Rise	Establish groundwater monitoring network to determine rates of change due to SLR, would factor into design for other infrastructure projects	Concept Analysis Seeking Add'l Grants	\$	150,000
Alcazar Hotel Floodproofing (flood wrap and flood gates) and landscaping (cisterns)	Project identified in Resilient Heritage Study - install flood proofing and mitigation measures to protect historic building; will also benefit from Lake Maria project	Concept Analysis Seeking Add'l Grants	\$	2,040,000
Lambias House Flood Mitigation and Resiliency	Project identified in Resilient Heritage Study - install flood proofing and mitigation measures to protect historic building; will also benefit from Lake Maria project	Concept Analysis Seeking Add'l Grants	\$	135,000

Project Needs Subtotal \$ 103,419,800.00



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City Commission

Public Works & Utilities

Quarterly Update

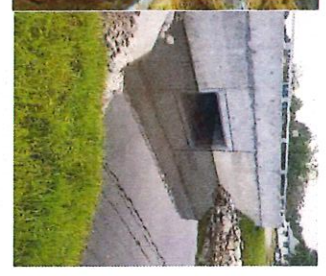
October 25, 2021

Todd J. Grant, P.G.

Director, Utilities

Reuben C. Franklin, Jr., P.E.

Director, Public Works





Public Works & Utilities CIP Agenda

- ❖ **FEMA 13 Lift Station Rehabilitation Project**
- ❖ **West Augustine Gravity Sewer Improvements**
- ❖ **Sustainability and Environmental Updates**
- ❖ **Capital Projects Overview and Status**



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FEMA 13 LIFT STATIONS REHABILITATION

- ❖ Construction Cost \$13.8M
- ❖ Start Construction Jan 2021
- ❖ Finish Construction Feb 2023
- ❖ Substantially Complete:
 - ❖ LS-23, LS-5
- ❖ Under construction
 - ❖ 4, 6, 21, 22, 24,
- ❖ Arricola Ave. Force Main
- ❖ Summer 2022





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West Augustine Gravity Sewer Improvements

West Augustine Sewer Master Plan

- ❖ Design underway

West 3rd Street Sewer Extension – Volusia to Duval

- ❖ Eliminates 20 Residential Septic Tanks

Septic-to-Sewer Program

- ❖ Proposal received for pkg 5, 7 connections
- ❖ Abandoned 57 septic systems to date

Pearl Street Gravity Sewer - Design

- ❖ Expanding gravity sewer from existing lift station

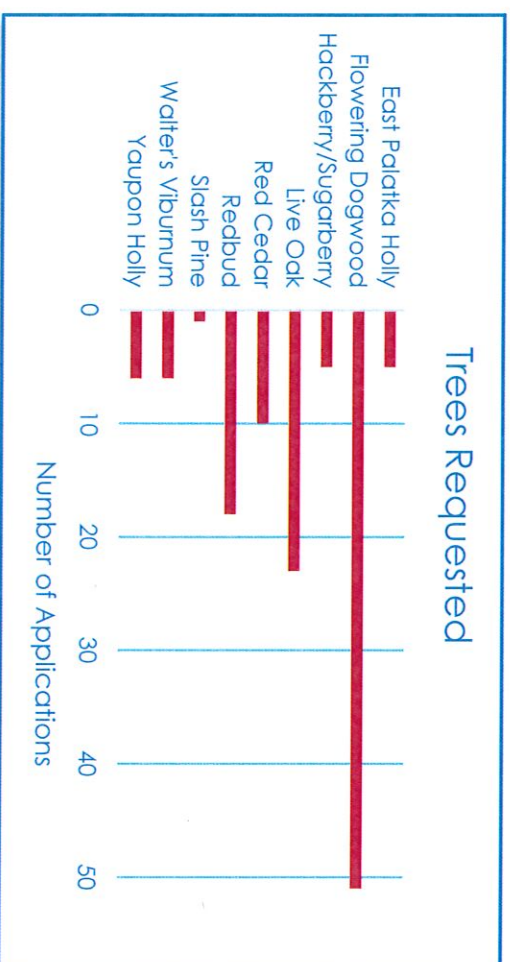




Sustainability Updates

❖ Tree Canopy Enhancement Program

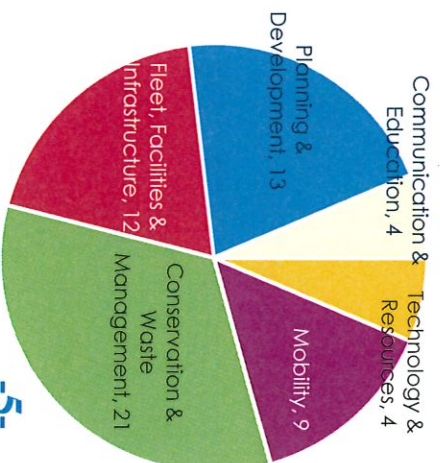
- ❖ 125 applications from residents within City limits
- ❖ Site assessments in progress
- ❖ Next step: final application review/selection



Current Projects & Initiatives

❖ Internal Sustainability Team

- ❖ 5 program area meetings held this quarter



❖ Upcoming Projects & Initiatives

- ❖ Residential compost bins
- ❖ ecoSTA green business recognition program



Environmental Programs Updates

❖ **Fats, Oils & Grease Program**

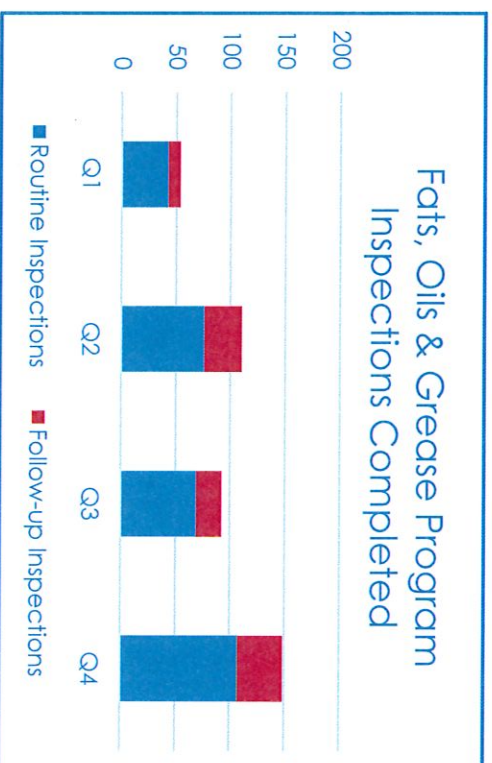
- ❖ 143 inspections completed this quarter
- ❖ 34 facilities out of compliance

❖ **Industrial Pretreatment Program**

- ❖ Annual inspections & sampling completed at 2 industrial permittees

❖ **Cross-Connection Control Program**

- ❖ 330 backflow testing notices sent to customers
- ❖ Received > 500 test reports



❖ **Illicit Discharge Detection & Elimination Program**

- ❖ Monthly & annual pollution prevention inspections completed at fleet & marina
- ❖ Approx. 100 proactive illicit discharge inspections completed

CIP Overall Status Summary

Capital Improvement Projects – Through October 25, 2021

Project Scope Development	Conceptual Analysis & Studies	Preliminary Design	Final Design	Bidding Construction Contract	Construction Phase	Substantial Completion	Final Completion
Parking Pay Station Flood Proofing	St. Francis Street Utility Improvements	Lake Maria Sanchez Flood Mitigation	Sevilla St Roadway & Utility Improvements	City Marina Crosswalk* S. Whitney & W. King Flood Mitigation ⁽¹⁾	S. Orange Street Utility Adjustments (SJC)	Avenue D Utility Adjustments (SJC)	South Davis Shores Resiliency Master Plan
South Tank Potable Water Fill Line	San Sebastian WM HDD King Street	Avenida Menendez Seawall (HMGF) ⁽¹⁾	Duero & Cerro Utility and Storm Improvement	WTP Motor Control Center Replacement	I&I Gravity and Lateral Cleaning, Inspection and Rehabilitation	Lift Station 23 (in the Plaza – FEMA 13)	WWTP Motor Control Center Replacement
SCADA Master Plan	SB 64 Plan	City-wide TIDE Valve Master Planning	WWTP Headworks Rehabilitation	King Street Drainage (FDOT)	Automatic Meter Reading Phase 4	Lift Station 5 (FEMA 13)	I&I Clean and CCTV Sanitary Sewer Basins 1, 14, 49, 53, 54
Pearl Street FM Improvements	Lift Station 14 Replacement	W Augustine Gravity Sewer Master Plan	King Street Drainage (FDOT)	I&I Clean & Inspect Sanitary – 10 Basins	I&I Smoke Testing Sanitary – 16 Basins		I&I Clean and CCTV Sanitary Sewer Basins 30, 35, 43, 57, 58
I&I Prioritize Sanitary Sewer R&R Projects	Lift Station 8 Replacement	Inlet Drive Shoreline Restoration*	S. Holmes Utility Adjustments (SJC)	RO Concentrate Discharge	Hurricane Matthew FEMA 13 Lift Station Rehabilitation		2021 Paving Program
	Lift Station 41 Replacement	West 3rd Street Gravity Sewer Improvements	N. Rodriguez Street Utility Adj (SJC)	West Augustine Septic to Sewer Connections	I&I Sanitary Manhole Rehab Basin 52		
	Stormwater Master Plan Update Phase 2	Santa Rosa Utility Adjustments (SJC)	Downtown Improvement District Phase 2	I&I Manhole Inspections for Basins 16, 17 & 20	S. Orange Street Utility Adjustments (SJC)		
	Clean Water SRF Facilities Plan	SR 312 from 207 to Holmes Util Adj (FDOT)	Oyster Creek Force Main HDD (FDOT)		Articola Ave Force Main HDD Improvements		
		Stormwater CIPP Lining for Valves	I&I Sanitary Sewer Main & Lateral Rehab FY 2022				
		Pearl Street Gravity Sewer					

Key:
⁽¹⁾ Grant Dependent
⁽²⁾ Developer Dependent
^(*) Postponed
^(**) Phase Complete

CIP Overall Status Summary

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South Tank Potable Water Fill Line	San Sebastian WM HDD King Street	Avenida Mendez Seawall (HMG) ⁽¹⁾	Duero & Cerro Utility and Storm Improvement	WTP Motor Control Center Replacement	I&I Gravity and Lateral Cleaning, Inspection and Rehabilitation	Lift Station 23(FEMA 13)	WWTP Motor Control Center Replacement
SCADA Master Plan	Senate Bill 64 Plan	City-wide TIDE Valve Master Planning	WWTP Headworks Rehabilitation	I&I Clean & Inspect Sanitary – 10 Basins	Automatic Meter Reading Phase 4	Lift Station 5 (FEMA 13)	I&I Clean and CCTV Sanitary Sewer Basins 1, 14, 49, 53, 54
Pearl Street FM Improvements	Lift Station 14 Replacement	W Augustine Gravity Sewer Master Plan	King Street Drainage (FDOT)	RO Concentrate Discharge	I&I Smoke Testing Sanitary – 16 Basins		I&I Clean and CCTV Sanitary Sewer Basins 30, 35, 43, 57, 58
I&I Prioritize Sanitary Sewer R&R Projects	Lift Station 8 Replacement	Inlet Drive Shoreline Restoration*	S. Holmes Utility Adjustments (SJC)	West Augustine Septic to Sewer Connections	Hurricane Matthew FEMA 13 Lift Station Rehabilitation		2021 Paving Program
	Lift Station 41 Replacement	West 3rd Street Gravity Sewer Improvements	N. Rodriguez Street Utility Adj (SJC)	I&I Manhole Inspections for Basins 16, 17 & 20	I&I Sanitary Manhole Rehab Basin 52		
	Stormwater Master Plan Update Phase 2	Santa Rosa Utility Adjustments (SJC)	Downtown Improvement District Phase 2		S. Orange Street Utility Adjustments (SJC)		
	Clean Water SRF Facilities Plan	SR 312 from 207 to Holmes Util Adj (FDOT)	Oyster Creek Force Main HDD (FDOT)		Articola Ave Force Main HDD Improvements		
		Stormwater CIPP Lining for Valves	I&I Sanitary Sewer Main & Lateral Rehab FY 2022				
		Pearl Street Gravity Sewer					

Key:
⁽¹⁾ Grant Dependent
⁽²⁾ Developer Dependent
^(*) Postponed
^(**) Phase Complete
 Utilizing FY22 Funds
 Requiring Loans or Grants FY22



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Additional Questions and Commission Discussion