



CITY OF
ST AUGUSTINE
EST. 1565

CoSA City Commission

"Public Works Update"

August 12, 2019

Michael G. Cullum, P.E.

Director, Public Works





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Public Works Update Agenda

Key Projects Update

- Paving Program
- Wastewater Spill Report
- Lake Maria Sanchez Flood Mitigation
- S. Whitney & W. King Flood Mitigation
- Macaris Outfalls Resiliency Retrofit
- Water Treatment Plant RO Membrane Replacement

Project Overview

- CIP Overall Status Summary

Paving Program

Completed to date, FY 2019 *

Road Name	From	To	Length (linear feet)	Cost
Bravo St.	Sanford	Weeden	332	\$23,906.39
CedarSt	Riberia	Granada St.	731	\$31,943.46
CenterSt	US1	San Marco Ave.	618	\$31,363.73
Charlotte St.	Bridge St.	South St.	2,507	\$48,997.61
DeHavenSt	MLK	Washington St.	651	\$13,088.90
DeHavenSt	Riberia St.	MLK	744	\$16,298.82
DouglasAve	Hildreth Dr.	Macaris St.	1,516	\$30,511.26
Duero St.	MLK Ave.	Twine St.	264	\$29,094.00
Dumas St.	Bridge St.	St. Francis St.	579	\$13,806.14
EParkAv	Park Ave.	Dead End South	1,442	\$44,672.66
Grant St.	Picolata Road	Perpall St.	1,887	\$39,965.98
Keith St.	ML King Ave	Oneida St.	501	\$20,858.17
KingsFerry	Riberia St.	Washington St.	1,233	\$29,603.88
LincolnSt	Riberia St.	Washington St.	1,235	\$31,187.27
Lovett St.	Riberia St.	Washington St.	1,275	\$32,389.74
PacificSt	US1	San Marco Ave.	658	\$15,064.72
PomarSt	Riberia St.	ML King Ave	681	\$13,352.55
RaineyAve	E. Park Ave.	Macaris St.	658	\$14,513.16
SanMarcoAv	Picolata Ave.	US1	2,792	\$132,507.37
StBenedict	St. Francis St.	DeHaven St.	331	\$17,630.98
WeedenSt	Bravo St.	Bridge St.	319	\$15,841.05
WeedenSt	Bridge St.	DeHaven St.	868	\$15,841.05
Miles Paved to Date, FY 2019:			4.13	\$529,931.52

* Includes paving combined in utility improvement projects.

Planned Remaining, FY 2019 **

Road Name	From	To	Length (linear feet)	Cost
Blanco St	Cerro St.	South St.	1,072	\$33,875.20
Cerro St.	Riberia St.	Oneida St.	996	\$28,319.92
DeSoto Pl.	Granada St	ML King Ave	721	\$22,783.60
Duero St.	MLK Ave.	Riberia St.	447	\$12,712.68
Duero St.	Oneida St.	MLK Ave	503	\$14,305.32
MacarisSt	San Marco Ave	Rainey Ave	1,725	\$57,232.34
MLKingAve	DeHaven St.	Cerro St.	2,513	\$91,322.42
Moore St.	Riberia St.	ML King Ave	703	\$19,979.10
SanfordSt	Bridge St.	Cedar St.	511	\$15,347.73
School St.	Pomar St.	Kings Ferry Way	162	\$5,120.78
SouthSt	Riberia St.	ML King Ave.	452	\$16,425.68
StFrancisS	Weeden St.	Park	1,228	\$27,478.59
Twine St.	Lovett St.	Cerro St.	1,559	\$49,270.72
Miles Remaining, Planned by end of FY 2019:			2.38	\$394,174.08

** Utility work to be completed prior to paving.

Summary

Previously Paved 2014 – 2017:	12.8 miles
* Paved FY 2018:	6.4 miles (actual)
* Completed to date, FY 2019:	4.13 miles (actual)
Total Miles Paved to Date:	23.33 miles (actual)
** Planned Remaining, FY 2019:	2.38 miles (estimate)
Total Miles Including Forecast Through End of Fiscal Year:	25.71 miles



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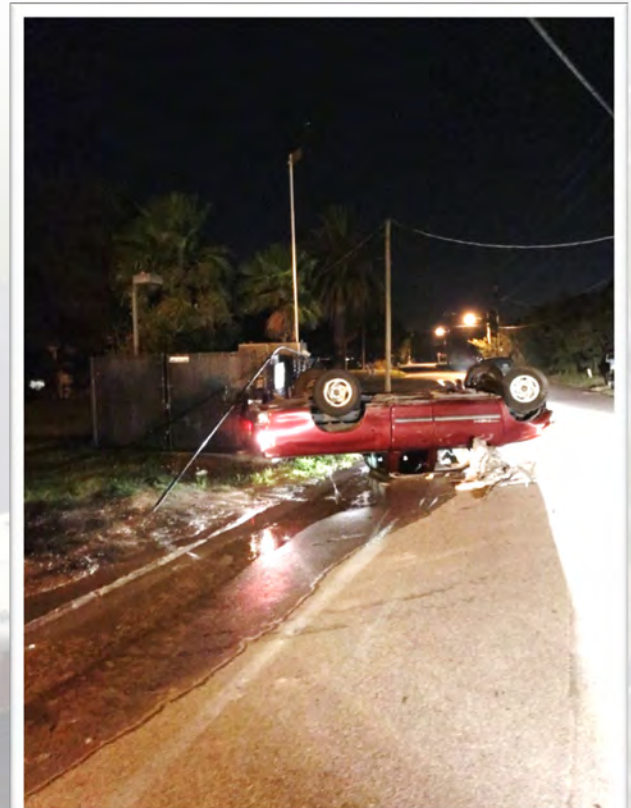
Wastewater Spill Report

Location: Coquina Avenue - Lift Station 52

- ❖ Event Date: June 20, 2019
- ❖ Cause: Vehicle struck City's lift station
- ❖ Spill Volume:
10,154 Gallons
(8,400 gallons
recovered;
1,754 gallons
released)
- ❖ Status: Lift station
has been repaired.
League of Cities
Insurance is
covering claim.

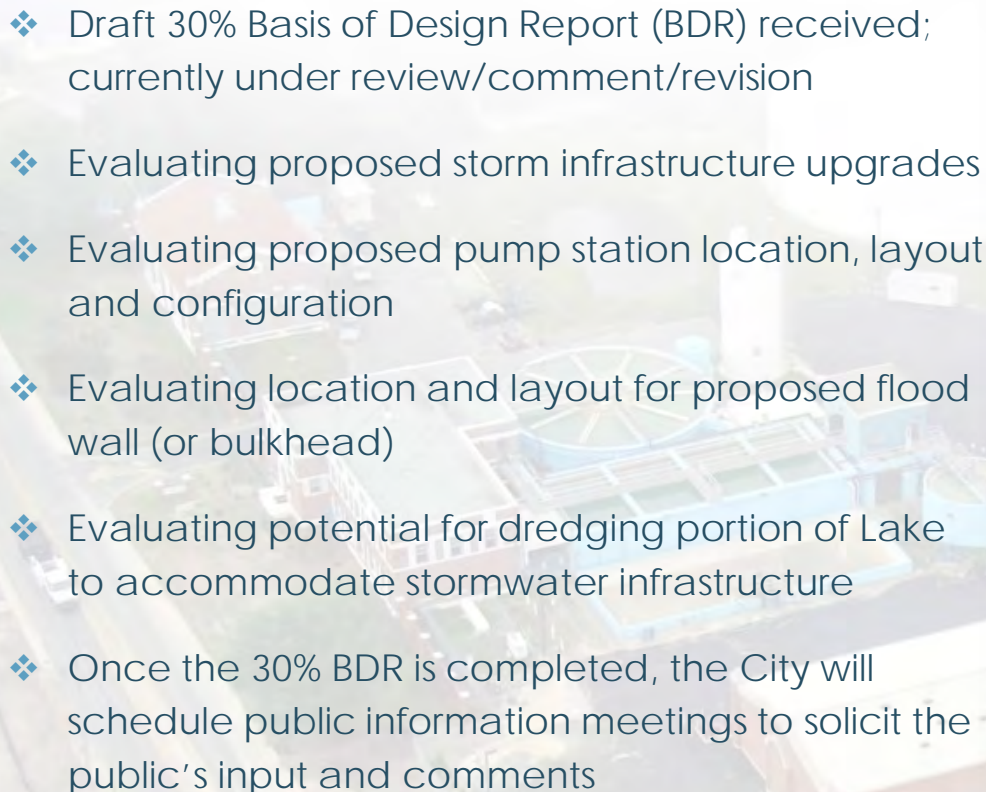
Location: Solano Avenue

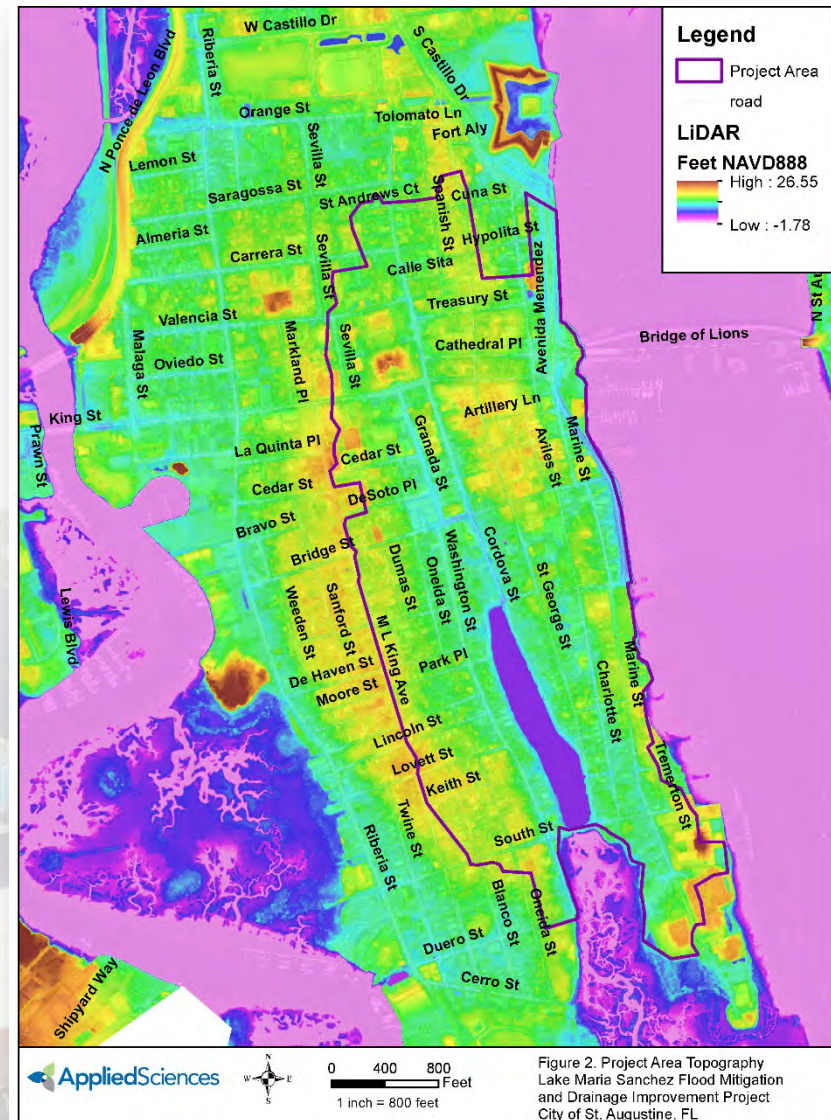
- ❖ Event Date: March 2, 2019
- ❖ Cause: Utility pole installation
damaged gravity sewer main
- ❖ Spill Volume: 13,700 gallons
(500 gallons recovered;
13,200 gallons released)
- ❖ Status: Sewer main has been
repaired. Currently
negotiating with the franchise
utility subcontractor.





Project Status:

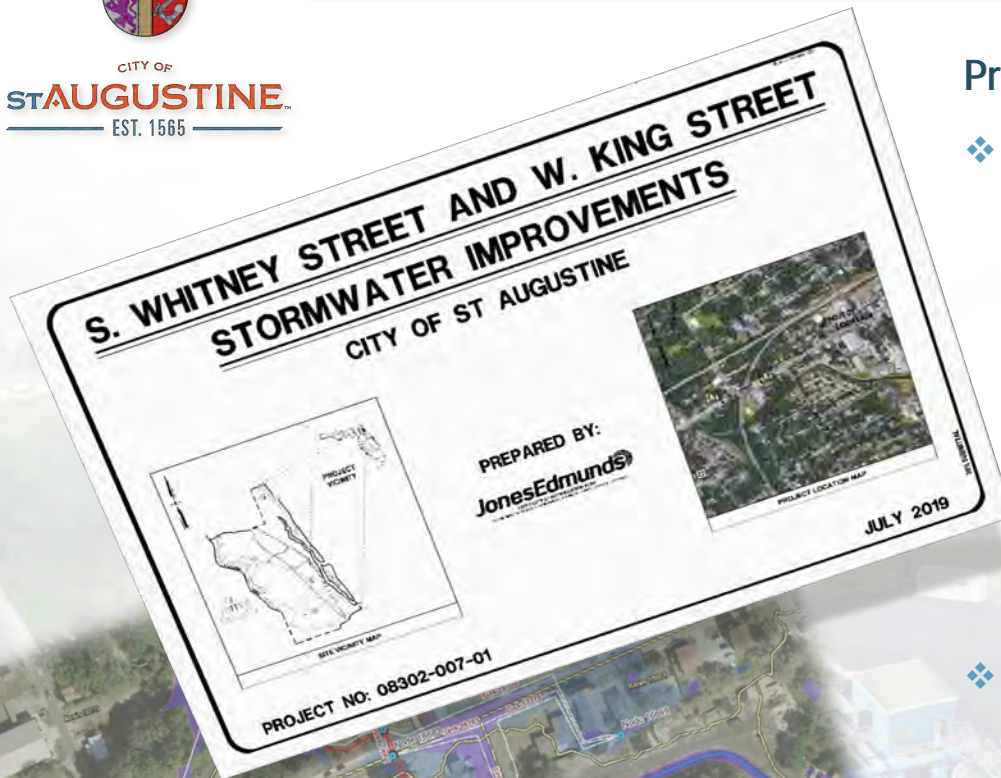
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- An aerial photograph of a city, likely Chicago, showing a large blue circular stormwater infrastructure project in the foreground. The project is surrounded by greenery and urban development. The background shows a city skyline with various buildings and streets. The image is used as a background for a presentation slide.
- ❖ Draft 30% Basis of Design Report (BDR) received; currently under review/comment/revision
 - ❖ Evaluating proposed storm infrastructure upgrades
 - ❖ Evaluating proposed pump station location, layout and configuration
 - ❖ Evaluating location and layout for proposed flood wall (or bulkhead)
 - ❖ Evaluating potential for dredging portion of Lake to accommodate stormwater infrastructure
 - ❖ Once the 30% BDR is completed, the City will schedule public information meetings to solicit the public's input and comments





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S. Whitney & W. King Flood Mitigation



Project Status:

- ❖ Jones Edmonds & Associates under contract for design work:
 - ❖ Field survey and subsurface geotechnical investigations
 - ❖ Stormwater computer modeling
 - ❖ Design of drainage improvements
 - ❖ Obtaining Environmental, road right-of-way permits and developing maintenance of traffic during construction of the improvements
- ❖ Survey, preliminary design and modeling are complete
- ❖ Design for the project is at 30%
- ❖ FEMA is cost sharing 75% of the project costs
- ❖ The City is cost sharing the remaining 25%

Macaris Outfalls Resiliency Retrofit

Project Complete! – Project Summary:

Task	Schedule	Comment
Design	Dec. 2017 – Nov. 2018	Included cost share application support
SJRWMD Cost Share Application	<ul style="list-style-type: none"> Submitted Application – February 2018 Application review and award – Feb. – Apr. 2018 Contract – October 2018 – September 2019 	33% Reimbursable Construction Costs up to \$60,747
30-inch Valve Install	Valve – 3 weeks Installation <u>Complete</u> – < 1 day	Self-performed install \$11,130* (*includes valve, labor, materials)
66-inch Valve Install	Valve – custom order – 3 months (12 weeks) Installation <u>Complete</u> – 1 week	Contractor install \$104,440* (*includes valve, labor, materials)





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Water Treatment Plant RO Membrane Replacement

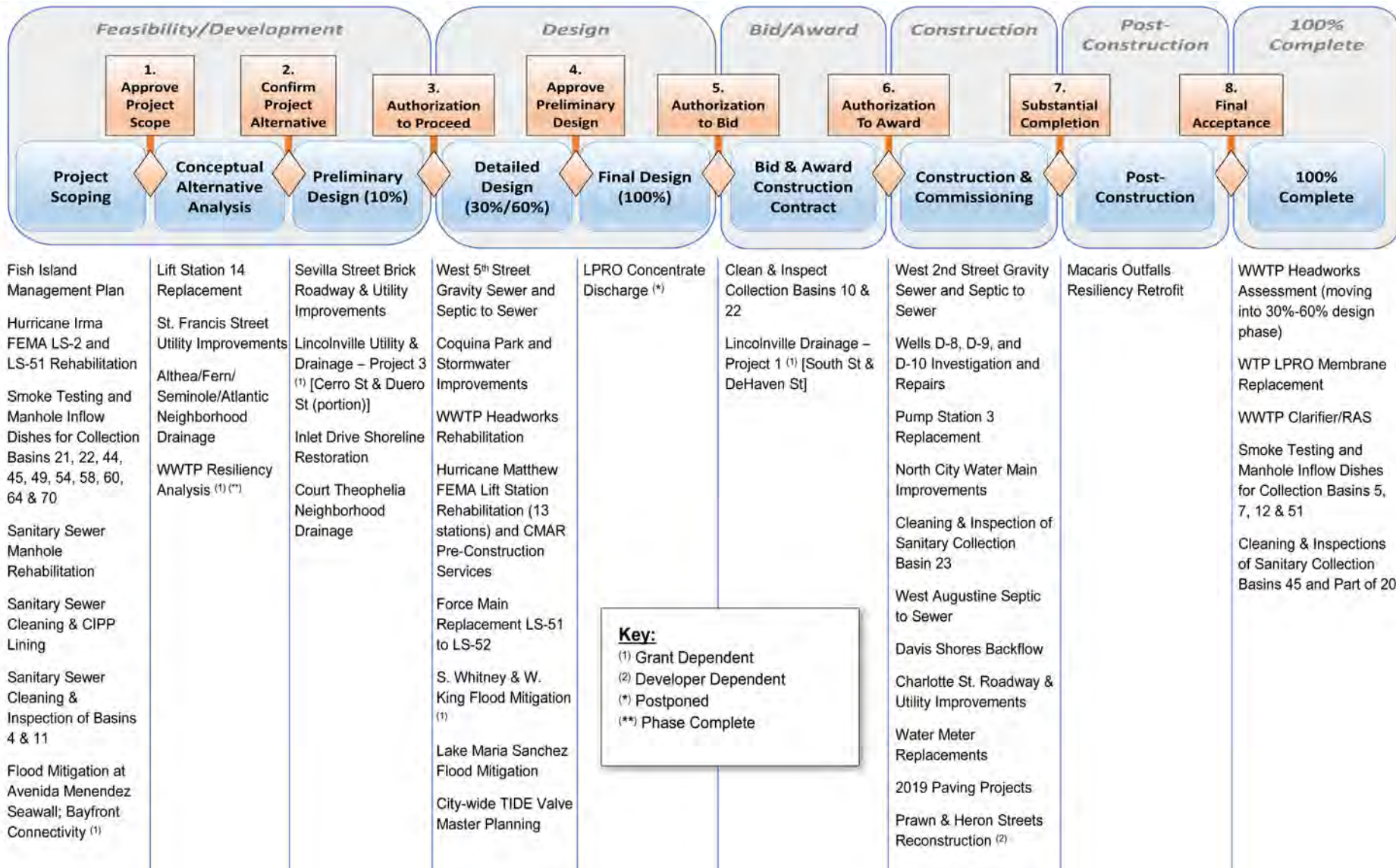
Project Complete! – Project Summary:

- ❖ Reduced Power Consumption!
 - ❖ Went from operating at 140 psi to 100 psi for each skid.
- ❖ Slightly more recovery – The old membranes were producing about 81%-85% recovery. The new membranes are recovering around 85%-86%.
- ❖ Better Flux rate - This is the rate at which water permeates the membrane.



CIP Overall Status Summary

Design-Bid-Build Active Projects – through August 12, 2019





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Additional Questions and Commission Discussion