

Resilience + Sustainability

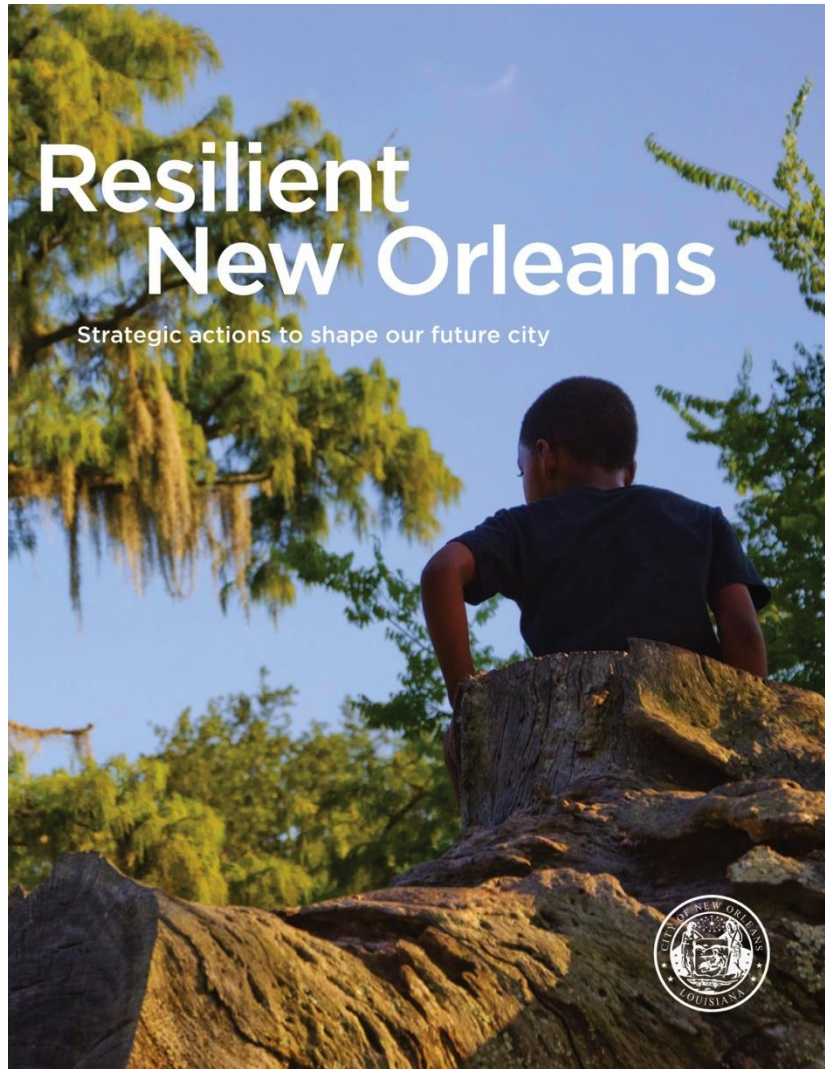
CITY OF NEW ORLEANS

Hagan-Lafitte Drainage Upgrades & Green Infrastructure Project

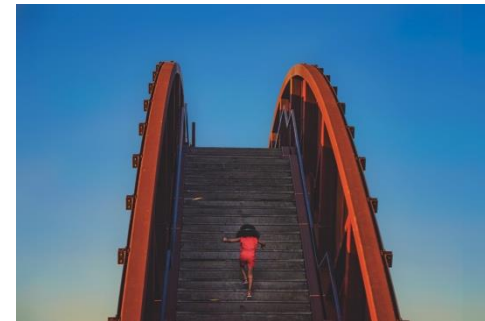
Tuesday, November 7, 2017

New Orleans City Resilience Strategy

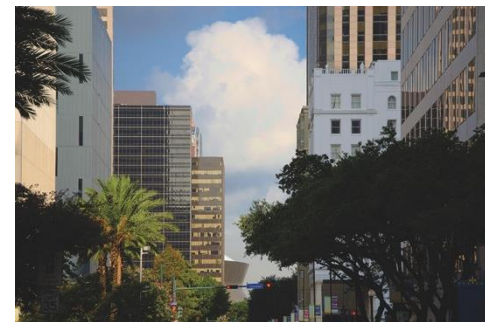
Released August, 2015



Adapt to Thrive



Connect to Opportunity



Transform City Systems

Gentilly Resilience District

Projects proposed in City's application to National Disaster Resilience Competition



Parks & Playgrounds



Vacant Lots



Streets & Corridors



Open Spaces



Home & Property Improvements



CITY OF NEW ORLEANS DRAINAGE UPGRADE PROJECT LOCATIONS

City of New Orleans Department of Public Works: September 2017



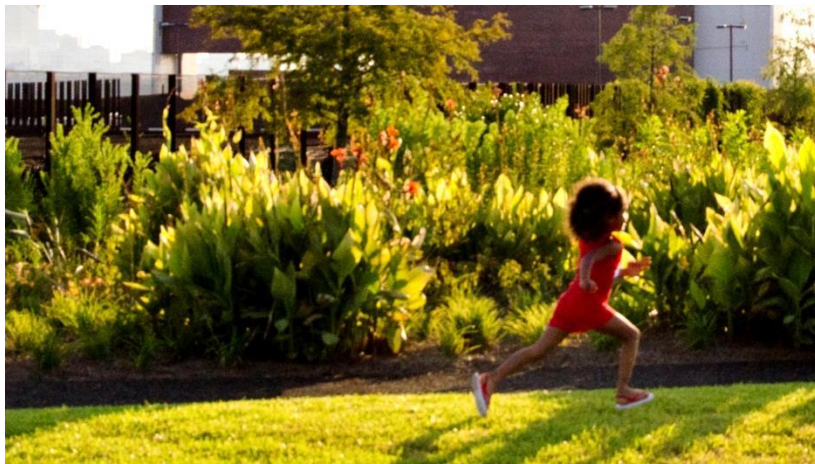
Benefits of the Projects



Reduced risk of flooding and subsidence



Neighborhood beautification & economic development



Recreation & health



Environmental awareness

Hagan-Lafitte Drainage Upgrades and Green Infrastructure Project



Community Meeting
November 7, 2017



Presentation Agenda

1. Project Overview and Progress
2. Grey Infrastructure
3. Green Infrastructure (GI)
4. Easton Park Underground Detention
5. Results
6. Discussion

Project Overview

- Purpose – reduce flooding in Hagan-Lafitte neighborhood
- HMGP funded \$5.35 Million for construction
- Design is Complete
- Construction Scheduled for March or April 2018

Project Location



Project Area

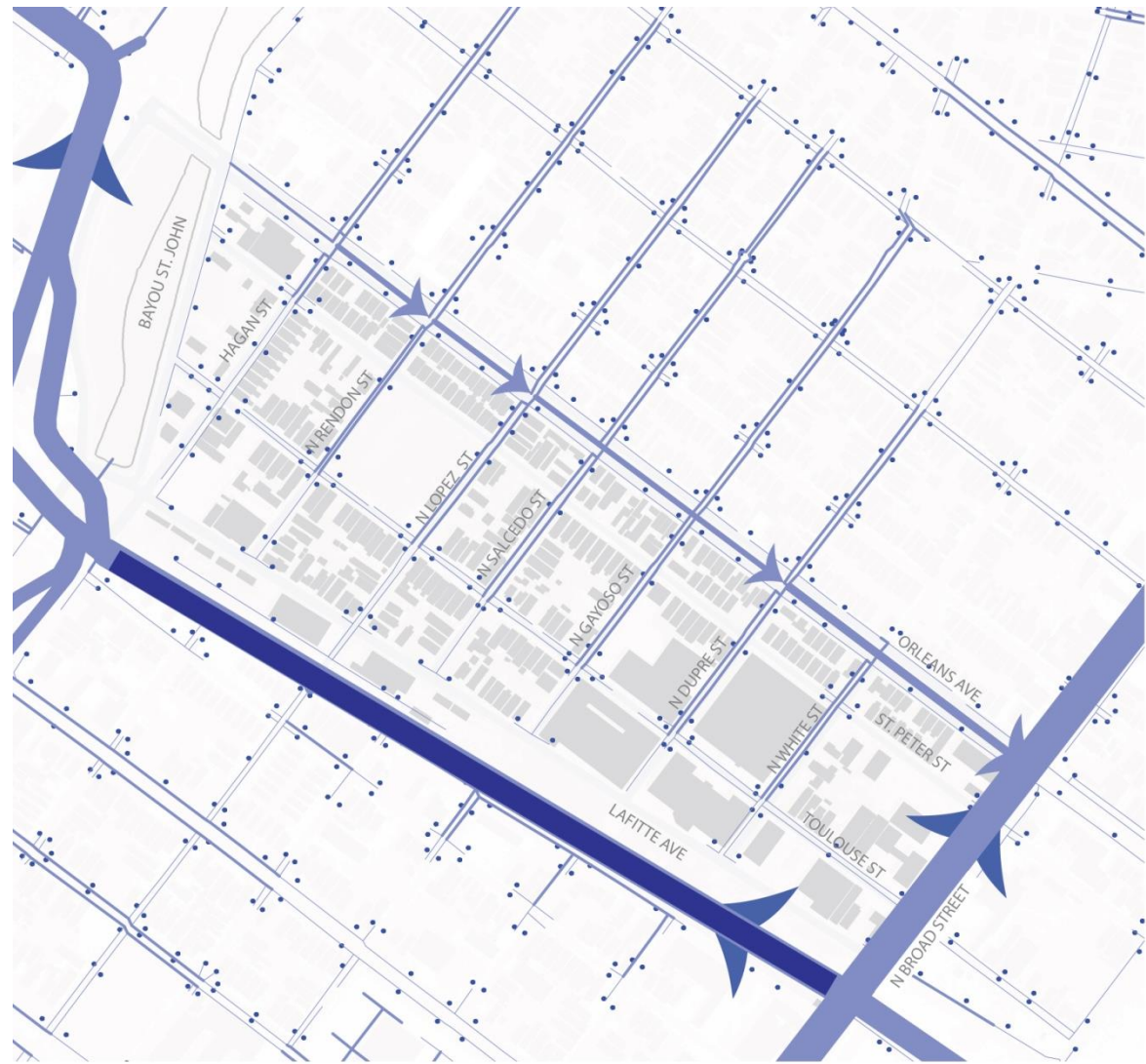


Project Goals –Neighborhood Resiliency

- Increase drainage – Reduce Flooding
- Utilize Green Infrastructure to slow, retain, and absorb storm water
- Beautification with green areas
- Replenish groundwater
- Store rainwater underground

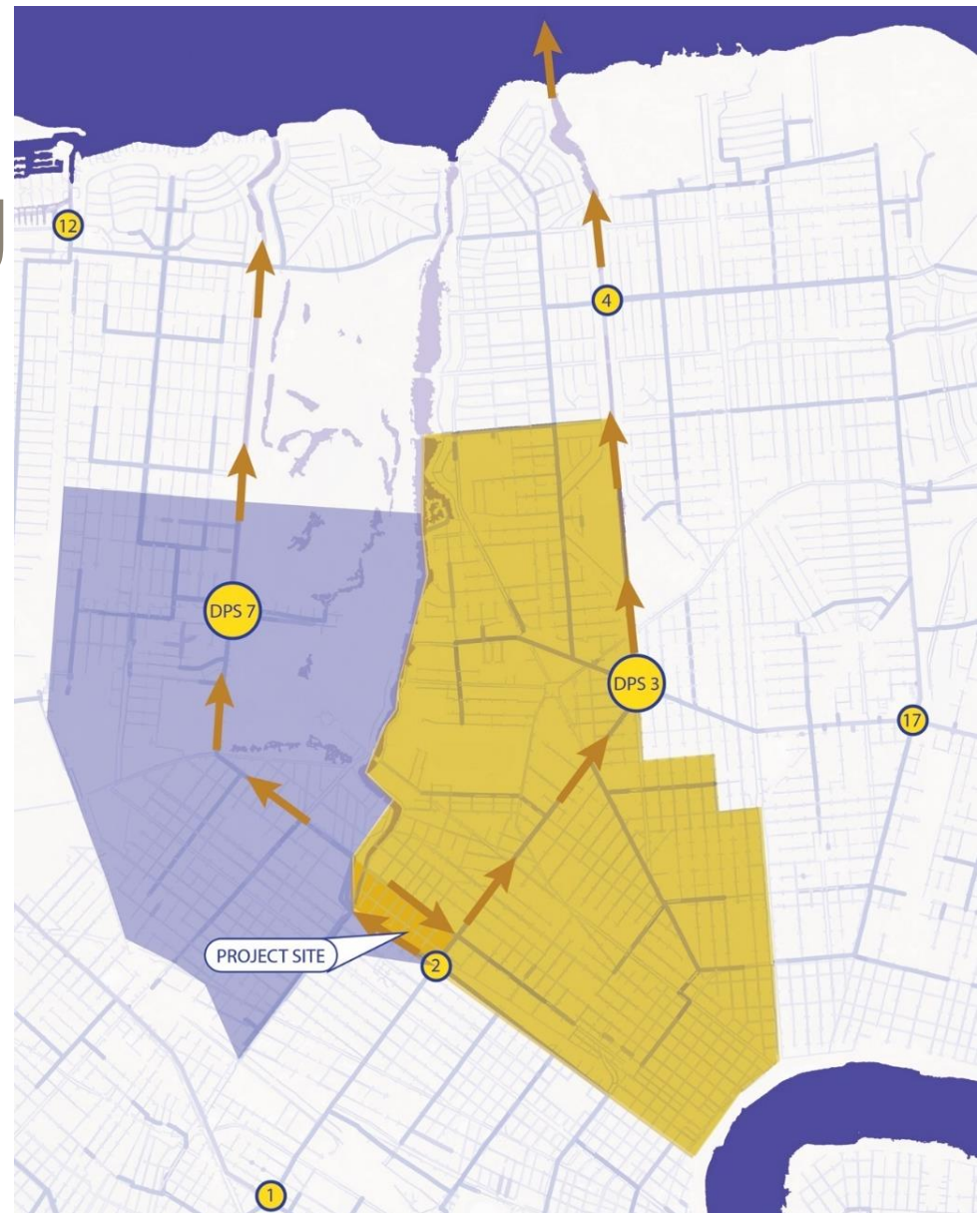
Existing Drainage Conditions

- Site drains to Orleans Avenue and then to N. Broad Street
- Low area



Existing Pump Station Routing

- Pump Station 3 drainage basin
- Tail end of the system



Proposed Solutions

Mix of **green** and **grey** infrastructure

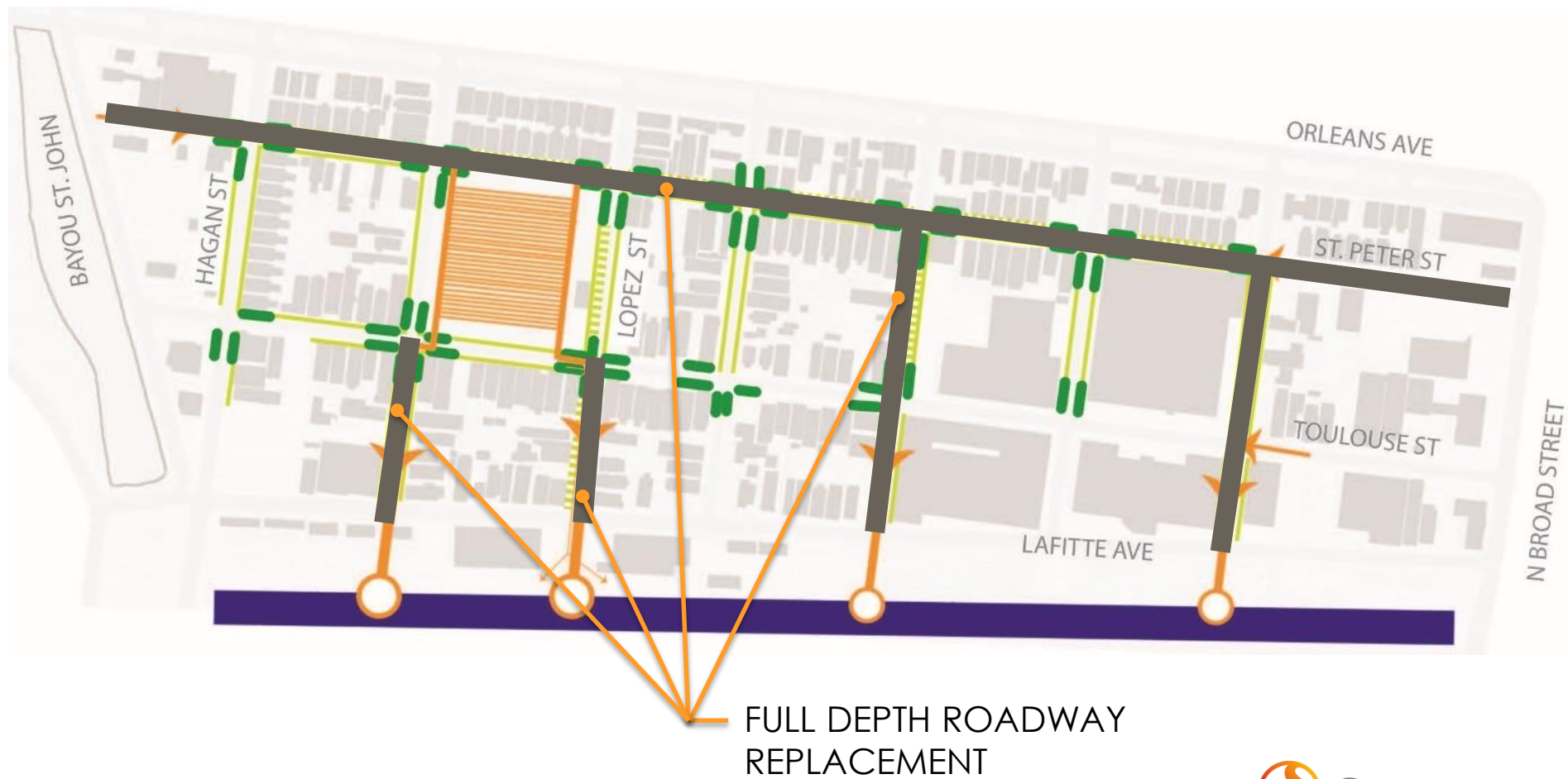
- Rain Gardens
- Pervious Sidewalk
- Increased Pipes
- Redirect flow to St. Louis Canal
- Rain storage at Easton Park



Grey Infrastructure



Pavement Replacement



Underground Storage

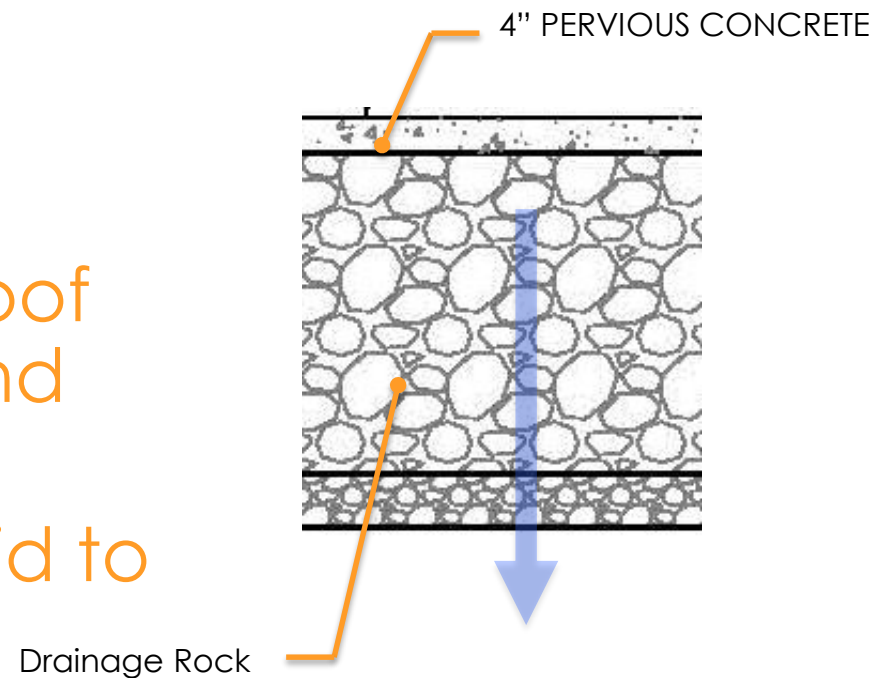


- Storage Volume to reduce flooding for the neighborhood
- 50 Year Design Life
- Park gains new turf
- Maximizes use of fields after storms

Green Infrastructure Pervious Sidewalks

Replace sidewalks with pervious concrete

- Already in use in Greenway Project
- Intercept flows from roof leaders, driveways, and yards
- Create a recharge grid to address subsidence



Rain Gardens

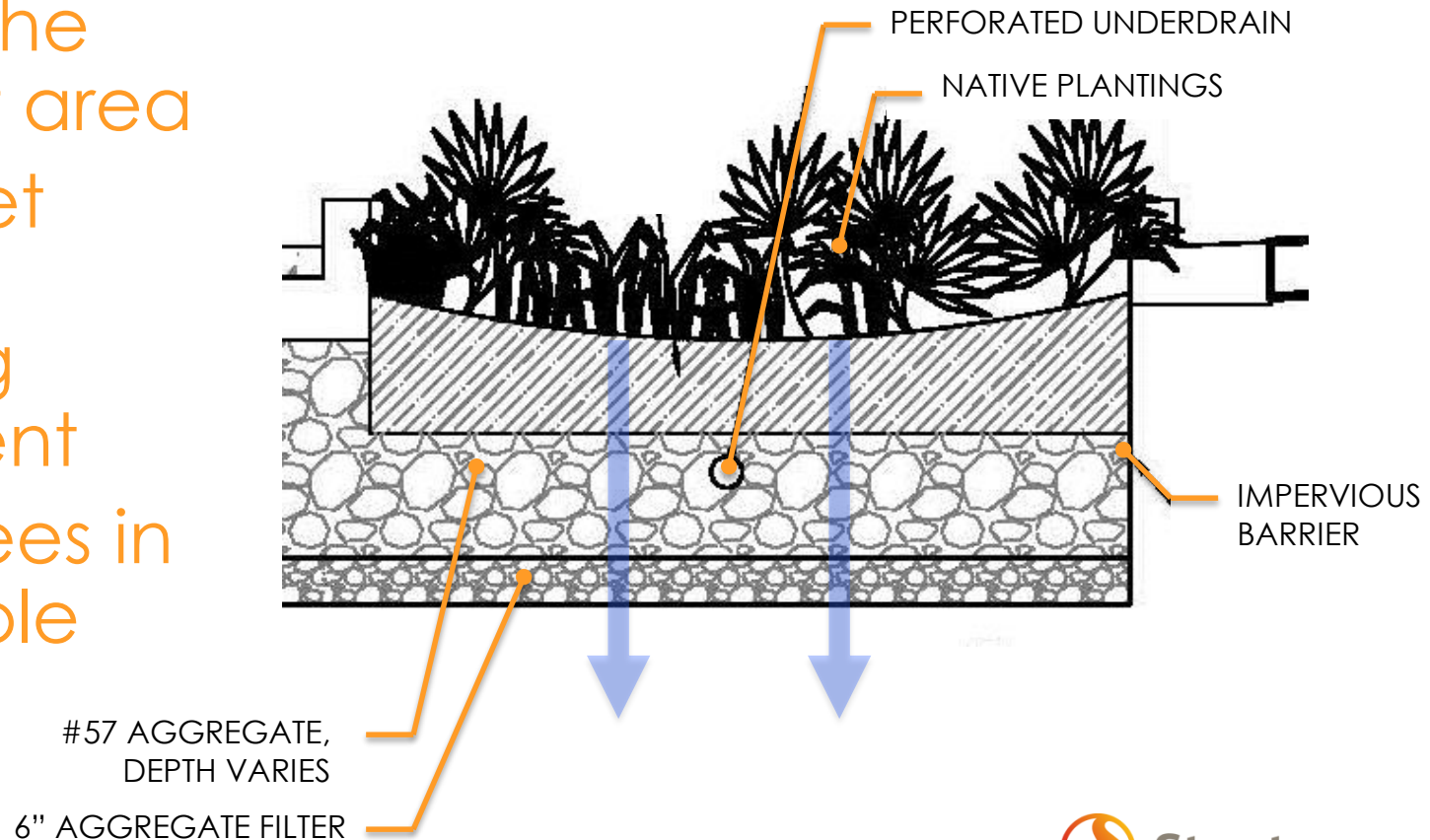


Rain Gardens



Rain Gardens

- Strategically within the project area
- As street corner parking deterrent
- Add trees in available spaces



Plant List

Native Plantings - Low Maintenance

- Tolerant of standing water & drought
- Shade out weeds
- Not messy or reedy
- Ideally flowering
- Evergreen



Sweetbay
Magnolia



Bald
Cypress



Gulf
Muhly



Louisiana
Iris



Butterfly
Iris



Asian
Jasmine



Dwarf
Palmetto

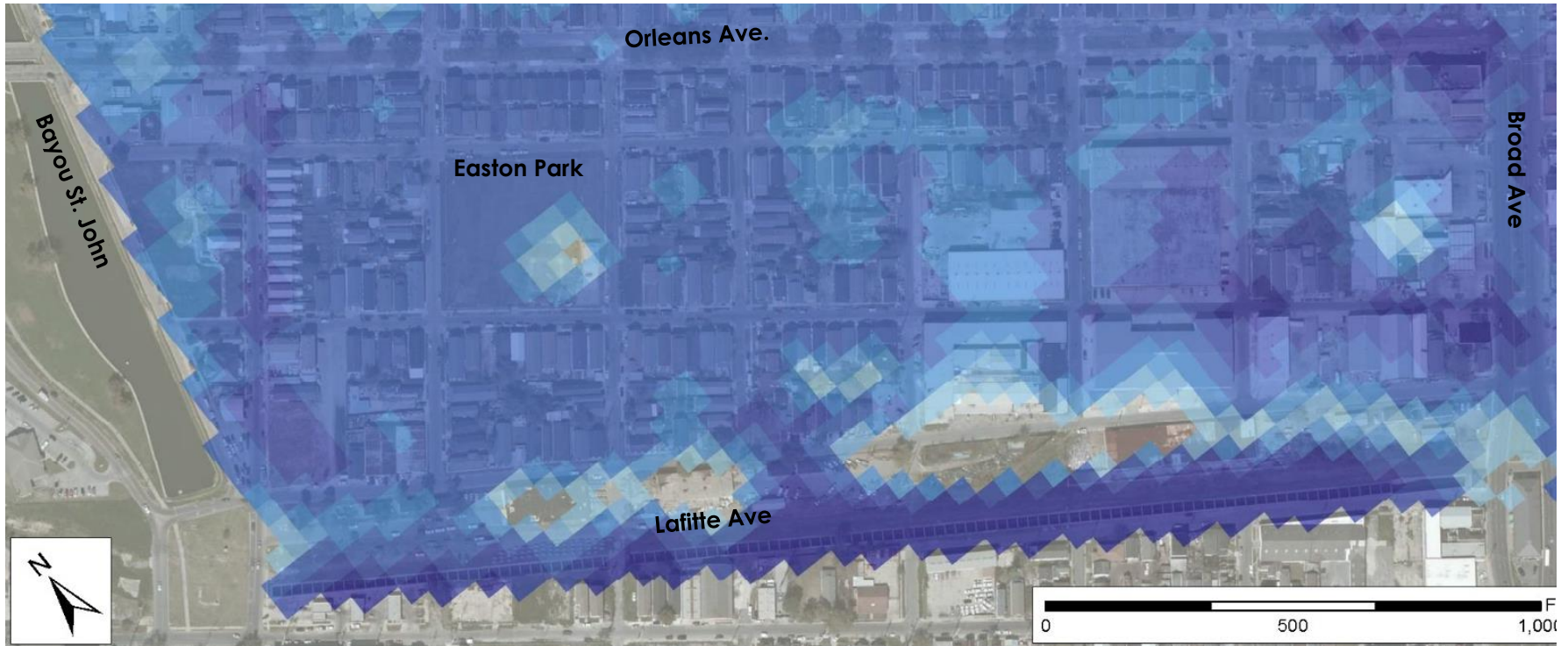


Stokes'
Aster



Turkey
Tangle
'Frog Foot'

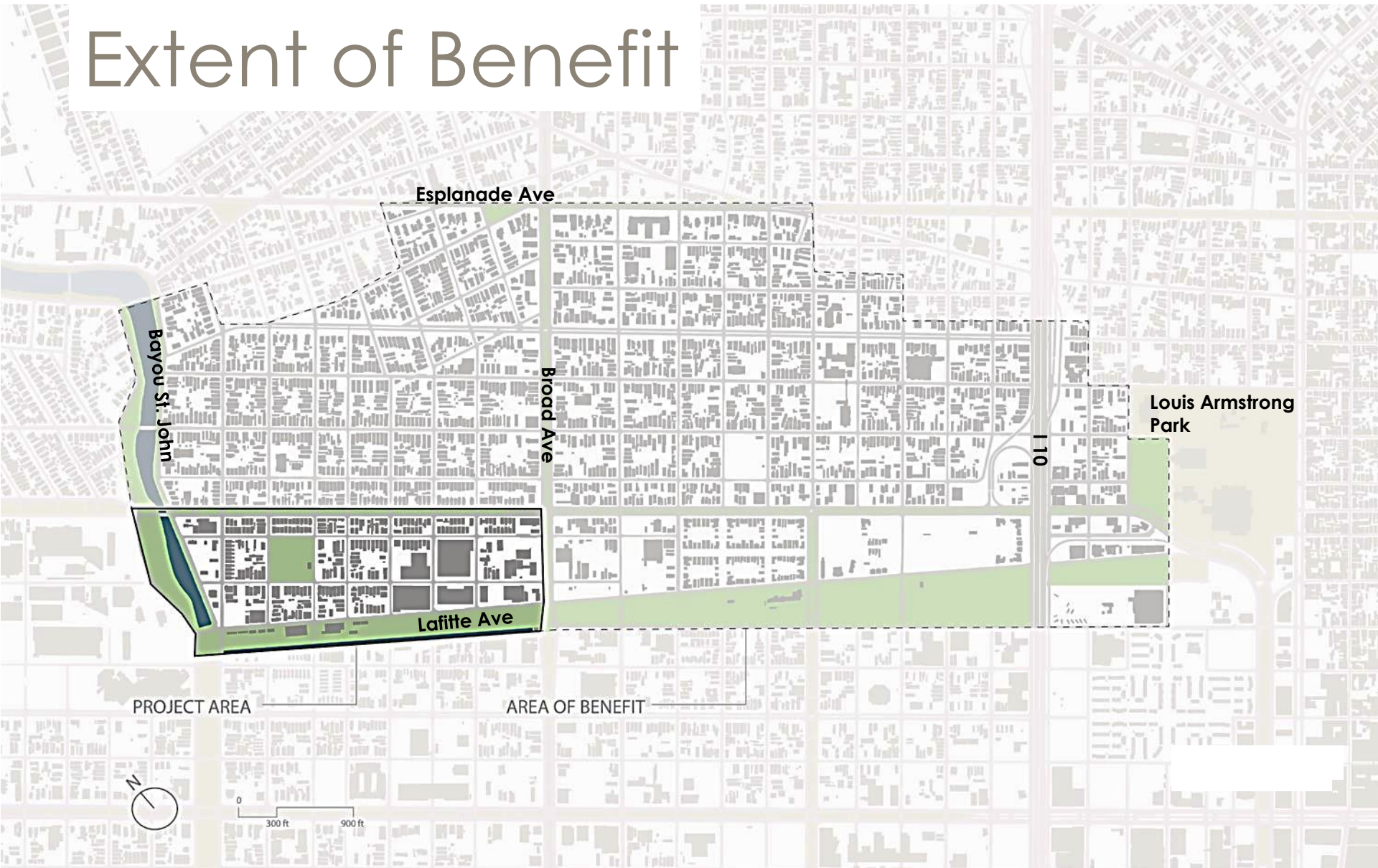
Existing Flooding Map – 2 year



Proposed Flooding Map – 2 year



Extent of Benefit



Extent of Benefit



Flood Reduction Levels

Color Key

- 2" to 6" Reduction
- 2" to 6" Reduction
- 6" to 12" Reduction
- 12" to 4' Reduction
- 12" to 4' Reduction

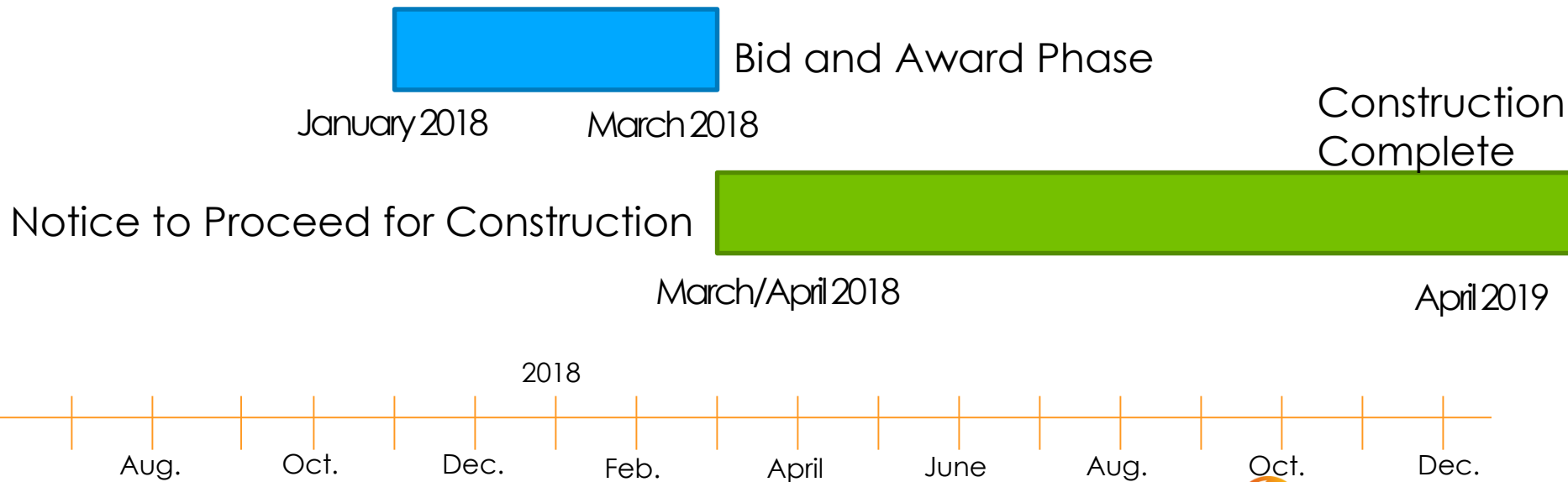
Next Steps

Bid Process through January 2018

Construction Start: March/April 2018

Estimated construction- Total - 12 Months

Includes 3 months at Easton Park



Discussion

Thank You!



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