

ST ANTHONY GREEN STREETS

Resilience Design Review Committee 60% Design

November 19, 2019







Project Context

The St. Anthony Green Streets project is a neighborhood scale streets project within the Gentilly Resilience District. The GRD and this project are funded by HUD's National Disaster Resiliency Competition.

Project Area

The project area is bounded by the London Avenue Canal, Robert E Lee Boulevard, St. Anthony Street, and Mirabeau Avenue. The priority streets are Wildair Drive and Wingate Drive and priority green spaces are Gatto and Filmore Playgrounds.

Design Team

Batture, LLC Asakura Robinson Eustis Engineering Greenpoint Engineering Life City MIG | SvR Royal Engineers & Consultants Stantec









B A T T U R E ... Issue Date: 11/19/2019

Site Conditions

- Ground is 6' to 8' below sea level
- Streets in poor condition
- Street flooding
- Lack of vegetation due to levee failure
- Drainage Pump Station 4 is directly adjacent to the neighborhood
- Several structures below base flood elevation, though there has been a significant amount of rebuilding in recent years

Project Goals

- Reduce Flooding
- Improve neighborhood recreation
- Create a model for resilient streets and parks across the city
- Engage with residents and encourage them to be involved in the design process
- Reduce heat island effect and promote recreation to increase the health of the neighborhood.
- Reduce subsidence

Open Space or Vacant Lots New Construction in past four years Structures Below Base Flood Elevation



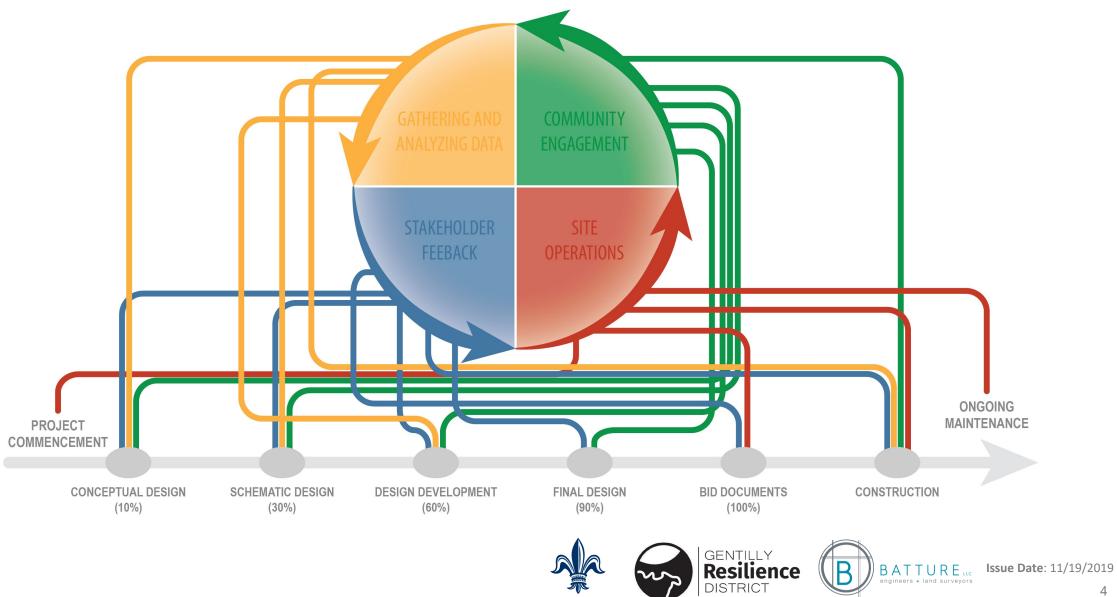






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Design Process



CITY OF NEW ORLEANS

Community Driven Design Process

We strongly believe that we must meet the community members where they are comfortable, with means that will inspire their curiosity and imagination. We are implementing a three pronged community engagement approach: learning, visioning, and stewardship.

Previous Engagement Events

11 Conceptual Design Phase Events (2018)

Multi-day Schematic Design Phase Event (March 2019)































Design Development Engagement Events

8/15/2019 – Mock-up of street section on Wingate Drive showing what the street-side rain gardens could potentially look like 8/17/2019 – Community Workshop on Placemaking and Design











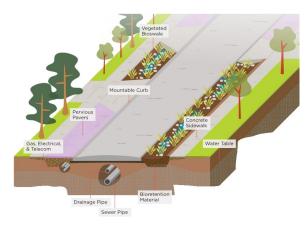


Design Development Engagement Events

8/22/2019 - Mock-up of street section on Wildair Drive, showing the proposed width of the street and the street-side rain gardens

8/24/2019 - Community Workshop on Maintenance and Stewardship



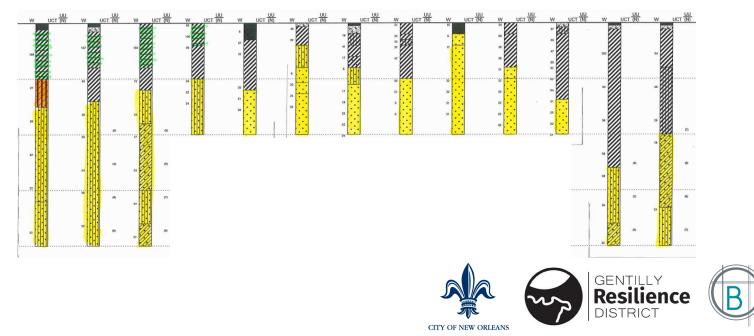




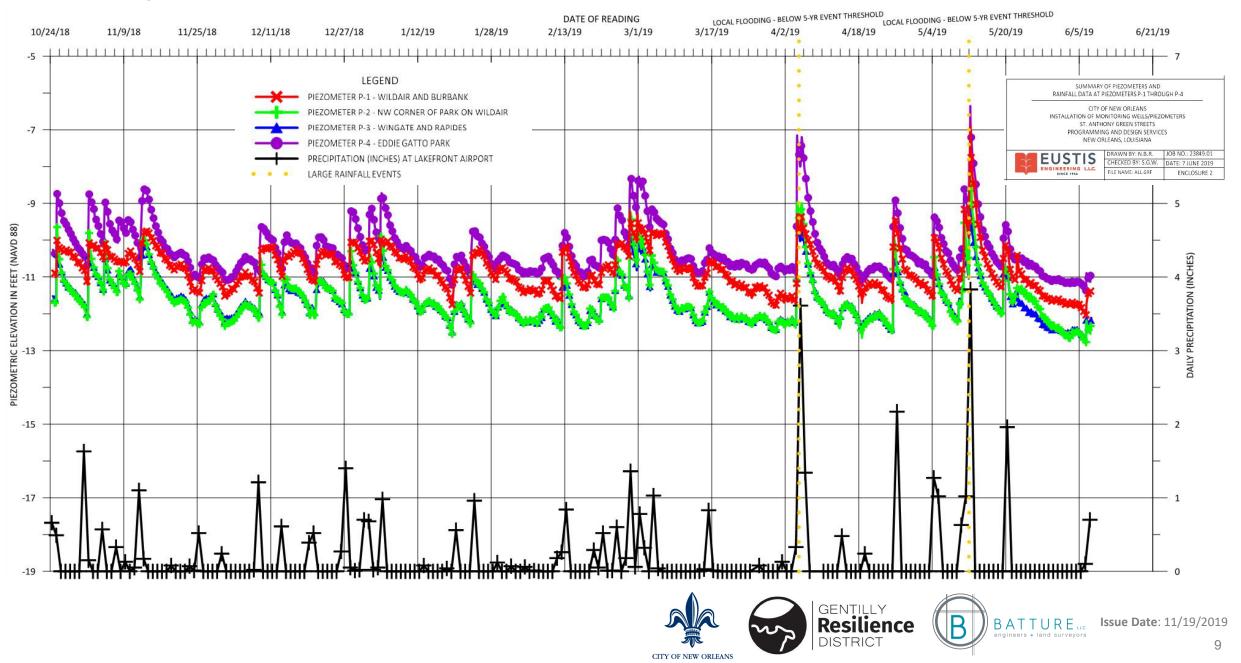


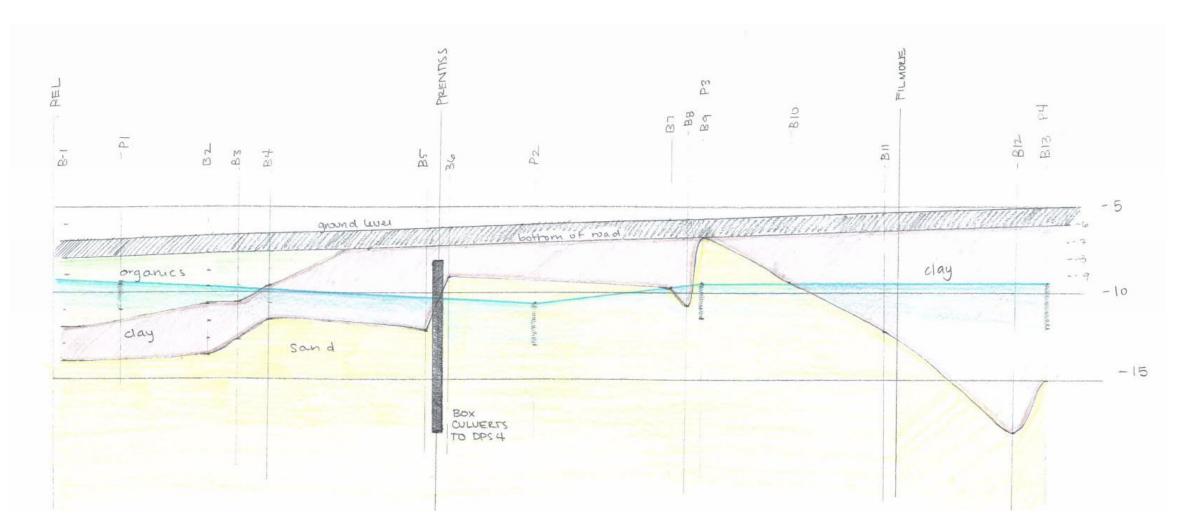
Data Gathering





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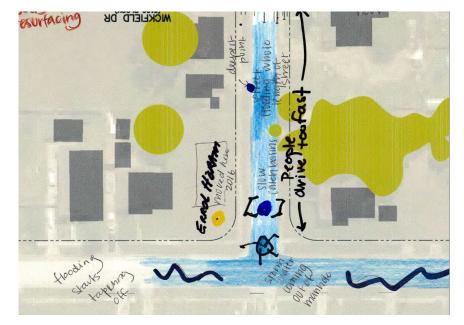


Stormwater Modeling: Flooding Locations Agree with Community Input

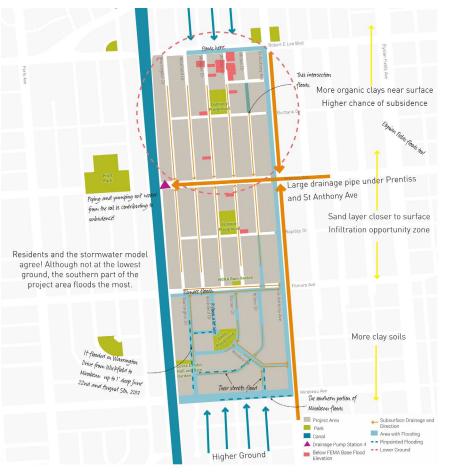


Existing Conditions 10 year storm Blue = Depth > 6" & Duration > 2 hrs

- Looked at both depth and duration
- Community Feedback agreed with location of flooding modeling results for a 10 year storm Depth > 6" & Duration > 2 hrs
- Will continue to refine modeling and will coordinate with Blue-Green Corridors modeling.



Community Engagement Problem Identification Map Detailed view of Intersection of Wickfield Drive and Warrington Drive



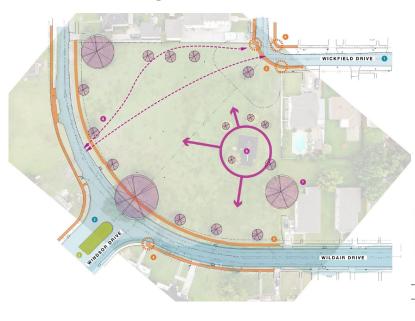
Problem identification & Opportunity Maps overlaid the community feedback with technical data including stormwater modeling, soil boring data, surveyed topography, and finish floor elevations below FEMA base flood elevation.

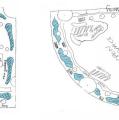


Conceptual Design Process

The project team had two full team charrettes following each of the community visioning events. During the first of these events, the design team processed the data from the community and our research and discussed how to turn it into prioritizations for the project. At the second charrette, the design team explored design solutions that built off designs from the visioning session.













ity Design Workshop #2 (Aug. 18, 2018)

COMMUNITY FEEDBACK STORMWATER AT GATTO











Rain gardens around park edges, particularly

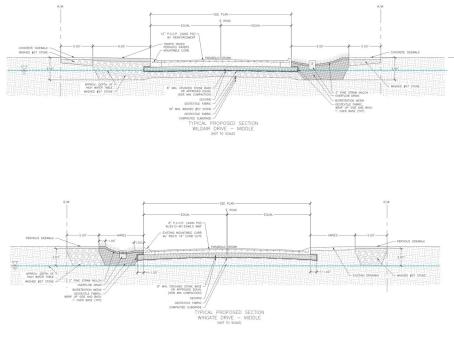




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Schematic Design

Between the 10% and 30% design submissions, the design team refined the design based on additional data derived from community engagement events, literature reviews, maintenance and operations discussions with public agencies, geotechnical borings, groundwater monitoring, and stormwater modeling.

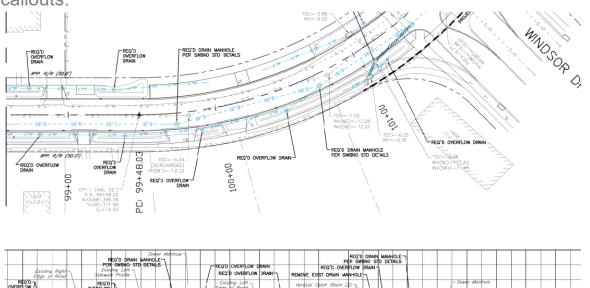




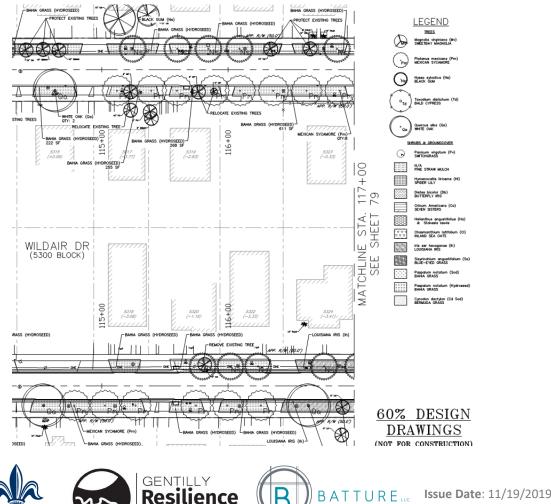
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Design Development

Between the 30% and 60% design submissions, the design team refined the design based on additional data derived from community engagement events, drainage calculations, maintenance and operations discussions with public agencies, geotechnical borings, site grading, and stormwater modeling. We added grading information, profile drawings, specific planting callouts, additional site details, street sections, and more detailed callouts.



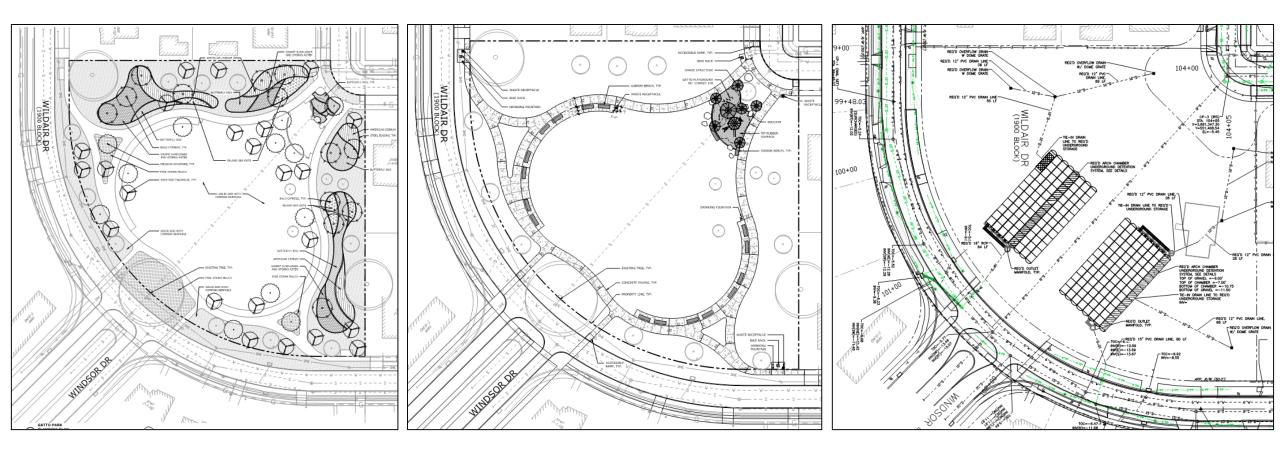
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Design Development

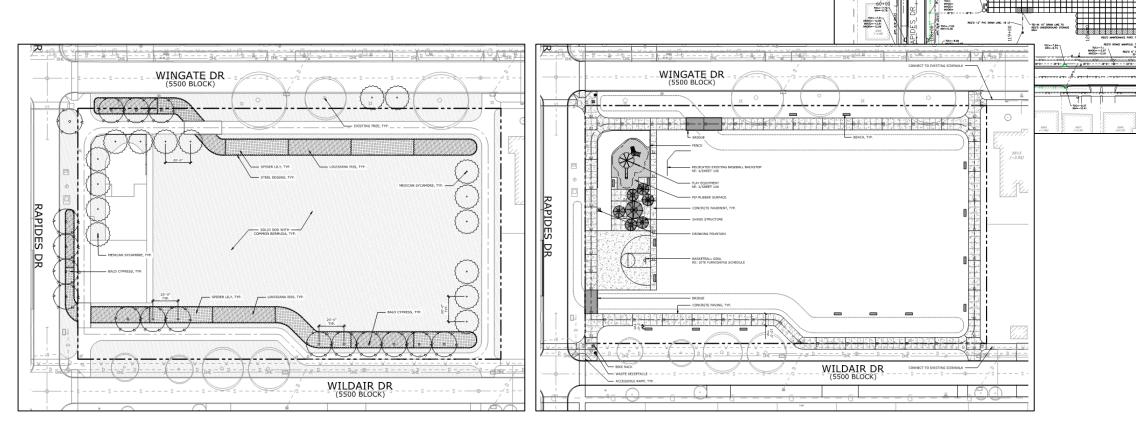
Gatto Playground – Approx. 45,000 cubic feet of stormwater storage





Design Development

Filmore Playground – Approx. 90,000 cubic feet of stormwater storage





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Street Design Renderings

Wildair Drive near Rosary Drive





Park Design Rendering

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Proposed





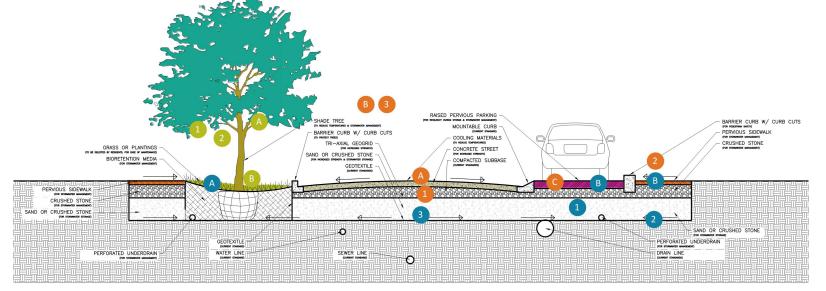


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Next Steps

- Incorporate Recovery Roads work into project and determine necessary drainage infrastructure upgrades
- Incorporate input from additional community
 engagement events into design
- Continue community engagement efforts

- Continue monitoring metrics
 - Setup water quality monitoring
- Coordinate with Blue-Green Corridors
- Continue to refine SWMM model
- Refine storage and drainage design
- Coordinate details with SWBNO









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Please join us!

ST. ANTHONY COMMUNITY DINNER 5:30 to 7:30 p.m. || Tuesday, December 3 Bastion's Wellness Center, 1901 Mirabeau Ave.

All St. Anthony residents and stakeholders are invited to join the design team and city representatives for dinner. We will share updates on the project, review drawings, and continue the conversation on maintenance and stewardship that began in August. We will also talk about ways in you can be involved in design and public events in 2020.

