



The 7th Ward I-10 Corridor Stormwater Runoff Management

Flood Investigation and Schematic Design Package

Funding for the 7th Ward Flood Investigation Study and Design was made possible by support provided by the National Academy of Science and Engineering Gulf Research Program. Grant Number 2000013787 “Community Ownership Model for the Design of Nature-Based Along the N. Claiborne Corridor” was awarded to Healthy Community Resources & Advocacy, DBA Healthy Community Services, Dr. Angela M. Chalk, Executive Director.

This project was a resident driven project led by Dr. Chalk, Principal Investigator; Kimberly Doley, Co-Investigator, Water Wise Gulf South; Jeffrey Supak, Co-Investigator, Water Wise Gulf South; and Visioning Session Committee Members: Arsene DeLay, Beverly Swinney, Cynthia Walters, Jasmine Pettie, Kirk Anthony Bernard and Joel Holton

	Index
Narrative	4
Analysis & Programming	6
Schematic Design	13

Narrative

Water Wise Gulf South (WWGS) and Healthy Community Services (HCS) selected Batture to provide landscape architectural design services for a community-driven green infrastructure project located in the 7th Ward neighborhood of New Orleans. The project area includes a series of Louisiana Department of Transportation and Development (DOTD)–owned sites along and beneath Interstate 10, extending from Hunter’s Field at the intersection of St. Bernard Avenue and North Claiborne Avenue to lots located to the east of Elysian Fields Avenue.

This project builds upon the ASLA Legacy Project and continues its mission to prioritize green infrastructure as a means of managing stormwater runoff from Interstate 10 while addressing long-standing environmental and community concerns. Batture analyzed feedback from surrounding residents and stakeholders to better understand local needs, preferences, and challenges collected from a robust engagement process led by WWGS and HCS. Insights gathered through community input, ASLA mapping, DOTD and City of New Orleans’ Parks and Parkways representatives, and Batture’s own site analysis directly inform the design approach. Upon completion of this outreach, Batture created a holistic schematic design package focused on equitable, effective, and maintainable stormwater management solutions.

Analysis revealed significant stormwater accumulation beneath and between the elevated I-10 overpass lanes, as well as persistent ponding at key intersections, including the former Allen Street right-of-way, Elysian Fields, and intermediate crossings along the corridor. These areas have

been prioritized for green infrastructure interventions. The proposed design framework features a continuous dry creek system functioning as a French drain to capture and convey runoff between street underpasses. Rain gardens are strategically located at each intersection to intercept and treat stormwater, while depressed open green spaces provide detention capacity and enhance neighborhood connectivity.

Maintenance and long-term performance are central to the design strategy. A multi-use path winds along the corridor, supporting both maintenance access and recreational use protected from the elements for community members. This path not only activates the space but also promotes visibility and stewardship, helping to ensure the long-term success of the green infrastructure system.

Collectively, the dry creek beds, rain gardens, detention areas, trees, and permeable paving are designed to manage approximately **8740 cubic yards (1.7 million gallons) of stormwater. See page 18 of this booklet for a detailed breakdown.** This is four times the amount required by the city zoning ordinance which mandates development to manage the first 1.25” of runoff in a 10 year storm. Through an integrated, community-informed approach, the project transforms underutilized infrastructure spaces into resilient, multifunctional landscapes that address flooding, improves environmental health, and provide meaningful benefits to the 7th Ward community.



Analysis & Programming

HUNTER'S FIELD SITES

EXISTING CONDITION ANALYSIS

MAP LEGEND

LADOTD RIGHT OF WAY / CITY PROPERTY

POTENTIAL PROJECT SITES (LADOTD OWNED)

EXISTING VEGETATION

SLOPE DIRECTION

PONDING

PEDESTRIAN PATH

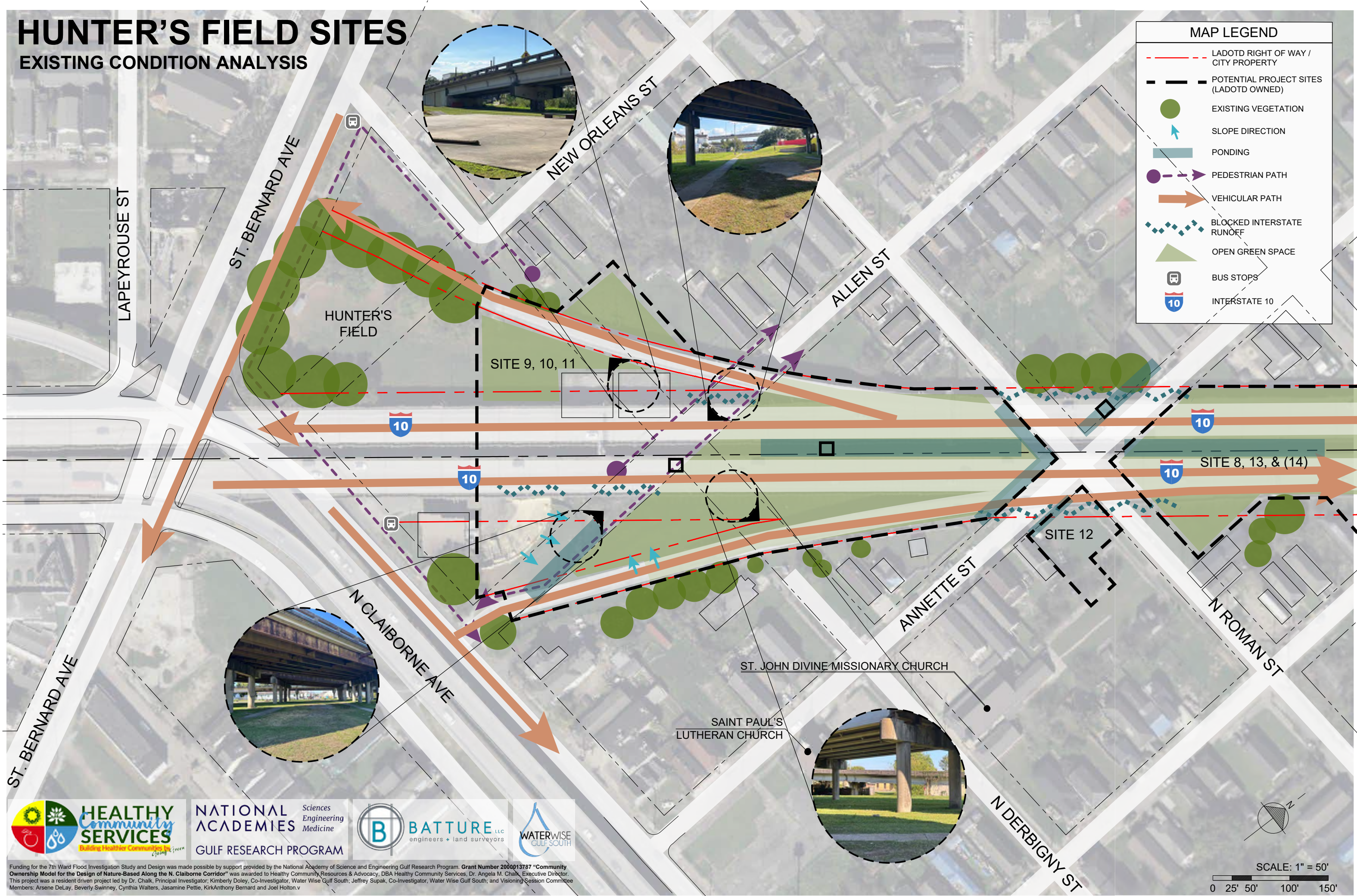
VEHICULAR PATH

BLOCKED INTERSTATE RUNOFF

OPEN GREEN SPACE

BUS STOPS

INTERSTATE 10



HEALTHY

Community

SERVICES

NATIONAL ACADEMIES

Sciences Engineering Medicine

GULF RESEARCH PROGRAM

BATTURE

LLC

engineers + land surveyors

WATERWISE

GULF SOUTH

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SCALE: 1" = 50'

0

25'

50'

100'


150'

HUNTER'S FIELD SITES

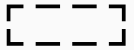
GREEN INFRASTRUCTURE PROGRAMMING

- 01 Allen Street "Abandoned" Right of Way
- 02 I-10 "Neutral Ground" Understory
- 03 Claiborne Ave - I-10 On-Ramp Green Space
- 04 Annette Street - Roman Street Intersection


MAP LEGEND




PROGRAM NODE




I-10 CONCRETE STRUCTURES




SUITABLE AREAS FOR GREEN INFRASTRUCTURE



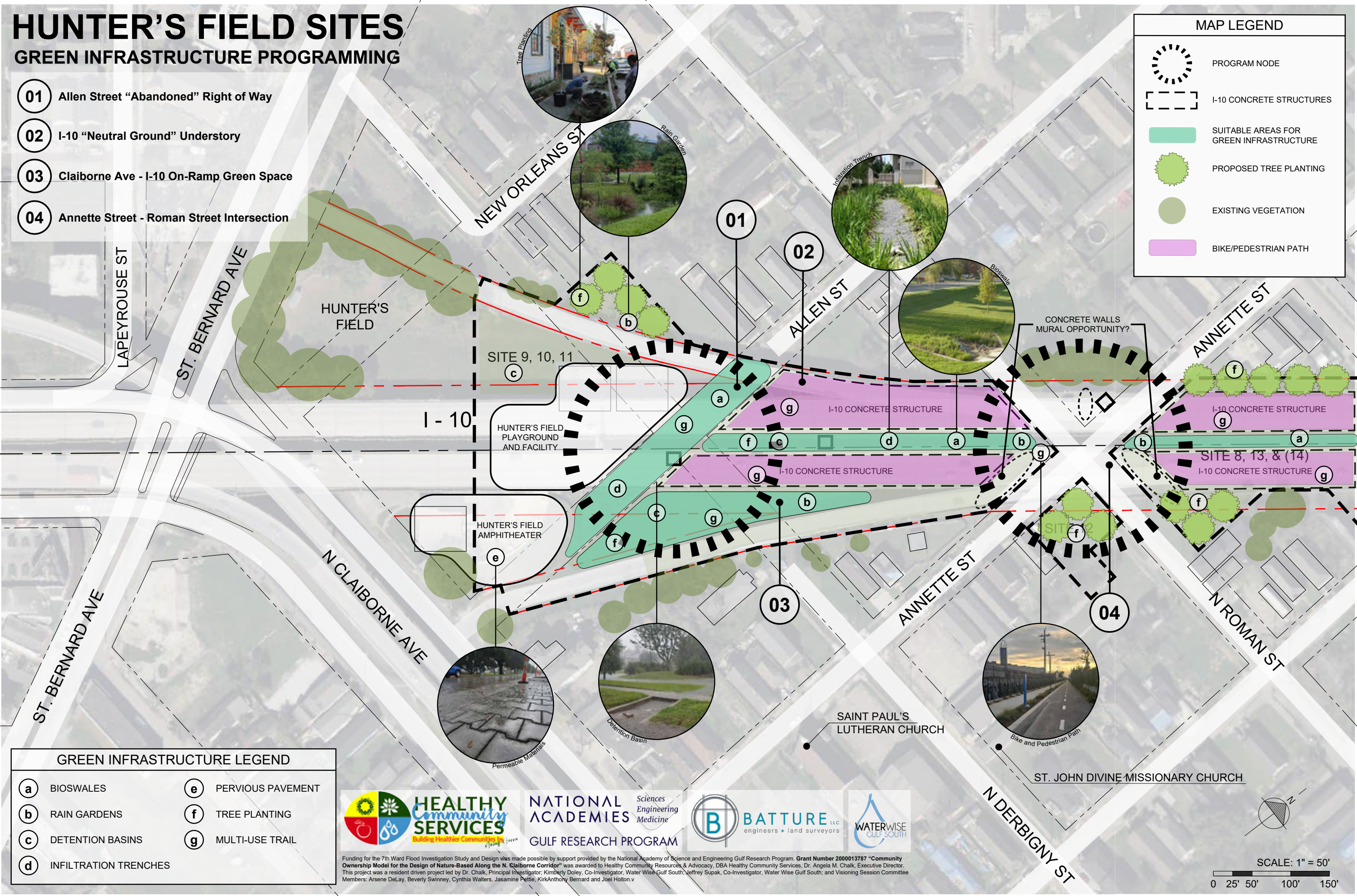
PROPOSED TREE PLANTING




EXISTING VEGETATION




BIKE/PEDESTRIAN PATH




GREEN INFRASTRUCTURE LEGEND




BIOSWALES




RAIN GARDENS




DETENTION BASINS




INFILTRATION TRENCHES



PERVIOUS PAVEMENT



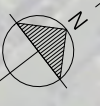
TREE PLANTING



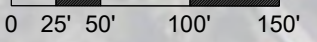
MULTI-USE TRAIL



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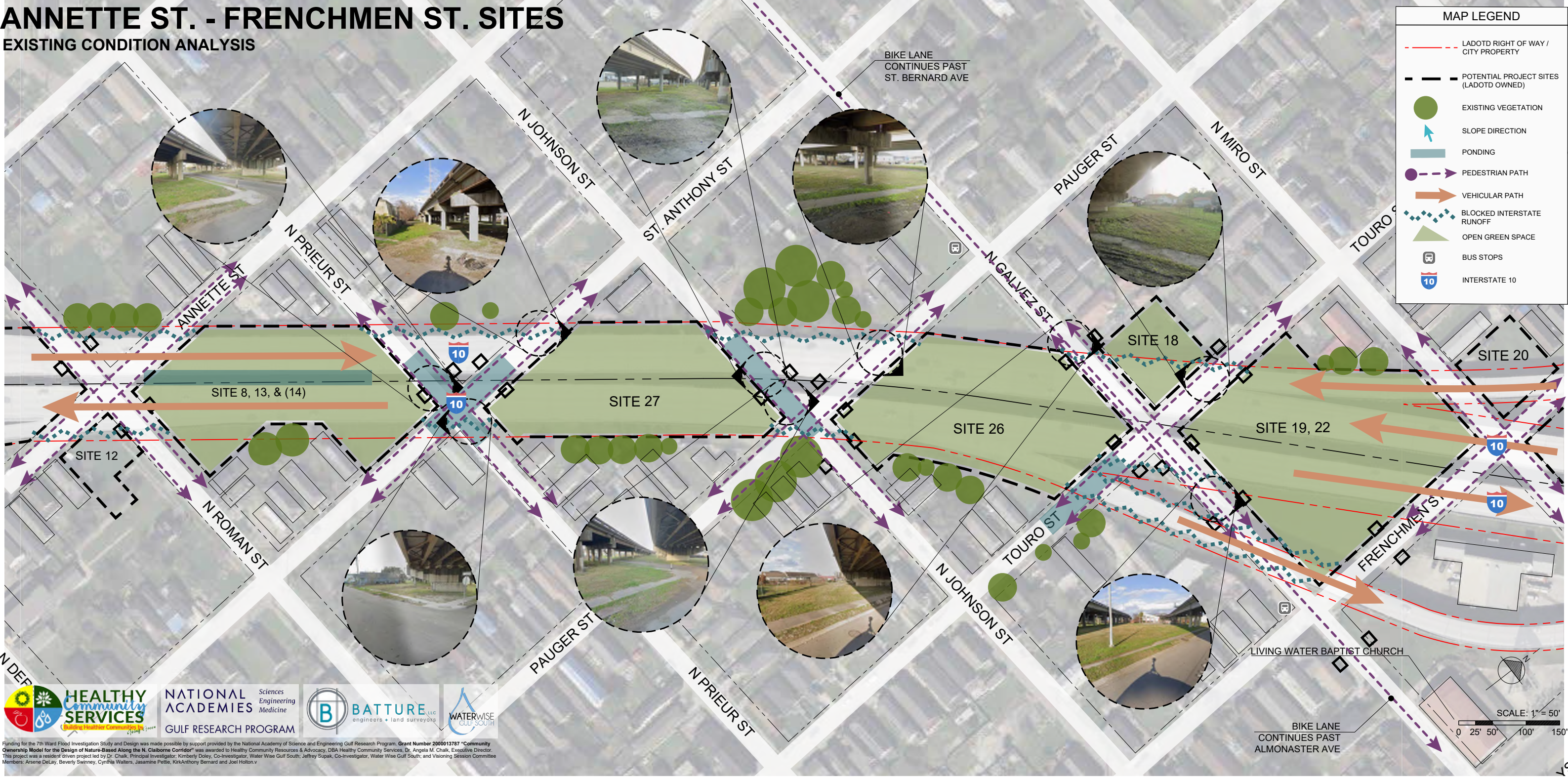


SCALE: 1" = 50'



ANNETTE ST. - FRENCHMEN ST. SITES

EXISTING CONDITION ANALYSIS



ANNETTE ST. to FRENCHMEN ST. SITES

GREEN INFRASTRUCTURE PROGRAMMING

- 01 Annette Street - Roman Street Intersection
- 02 St. Anthony Street - Prier Street Intersection
- 03 Pauger Street - Johnson Street Intersection
- 04 N Galvez Street - Touro Street Intersection

MAP LEGEND

PROGRAM NODE

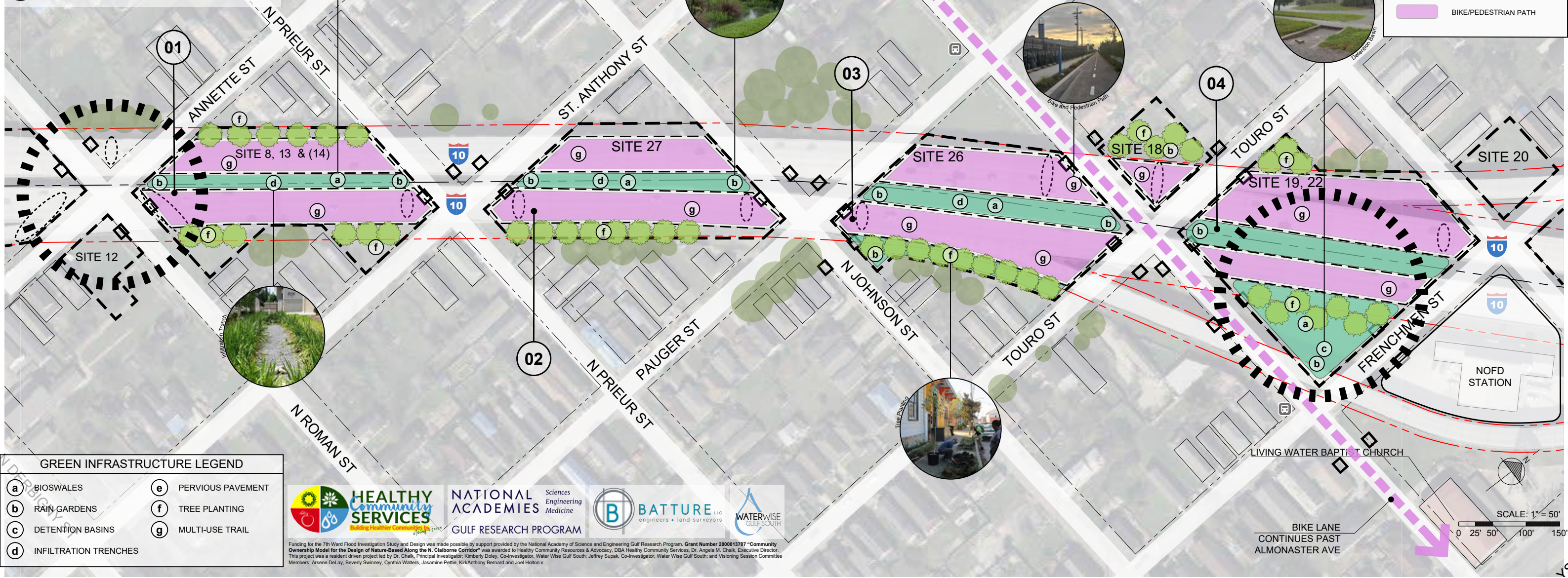
I-10 CONCRETE STRUCTURES

SUITABLE AREAS FOR GREEN INFRASTRUCTURE

PROPOSED TREE PLANTING

EXISTING VEGETATION

BIKE/PEDESTRIAN PATH



GREEN INFRASTRUCTURE LEGEND

BIOSWALES

RAIN GARDENS

DETENTION BASINS

INFILTRATION TRENCHES

PERVIOUS PAVEMENT

TREE PLANTING

MULTI-USE TRAIL

HEALTHY
Community
SERVICES
Building Healthier Communities

NATIONAL
ACADEMIES
Sciences
Engineering
Medicine

BATTURE
engineers + land surveyors

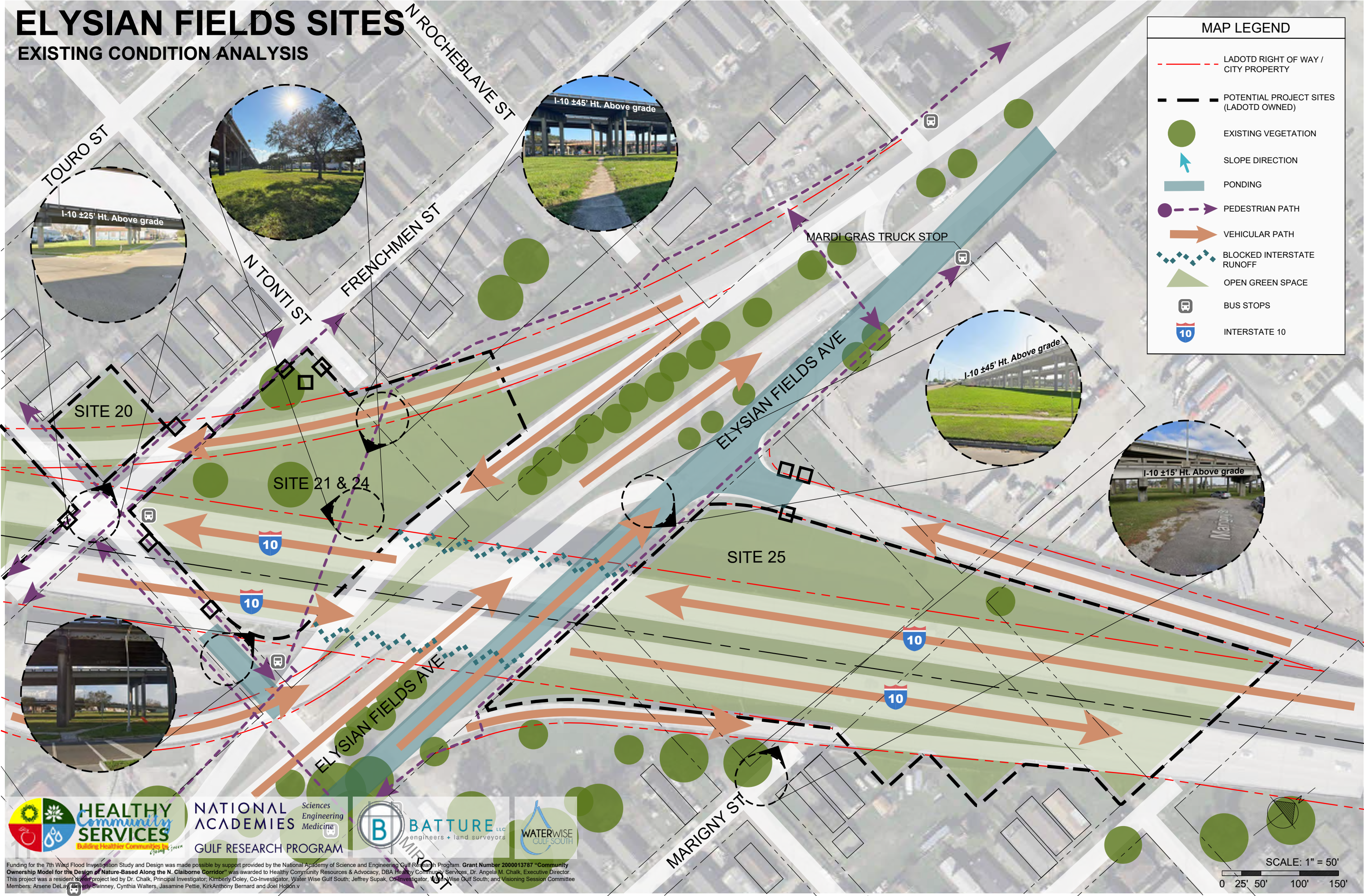
WATERWISE
GULF SOUTH

GULF RESEARCH PROGRAM

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ELYSIAN FIELDS SITES

EXISTING CONDITION ANALYSIS



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EYLSIAN FIELDS SITES

GREEN INFRASTRUCTURE PROGRAMS

- 01 Frenchmen St - Miro St Intersection
- 02 NOFD Station Site
- 03 Elysian Fields/I-10 On/Off Ramps

MAP LEGEND

PROGRAM NODE

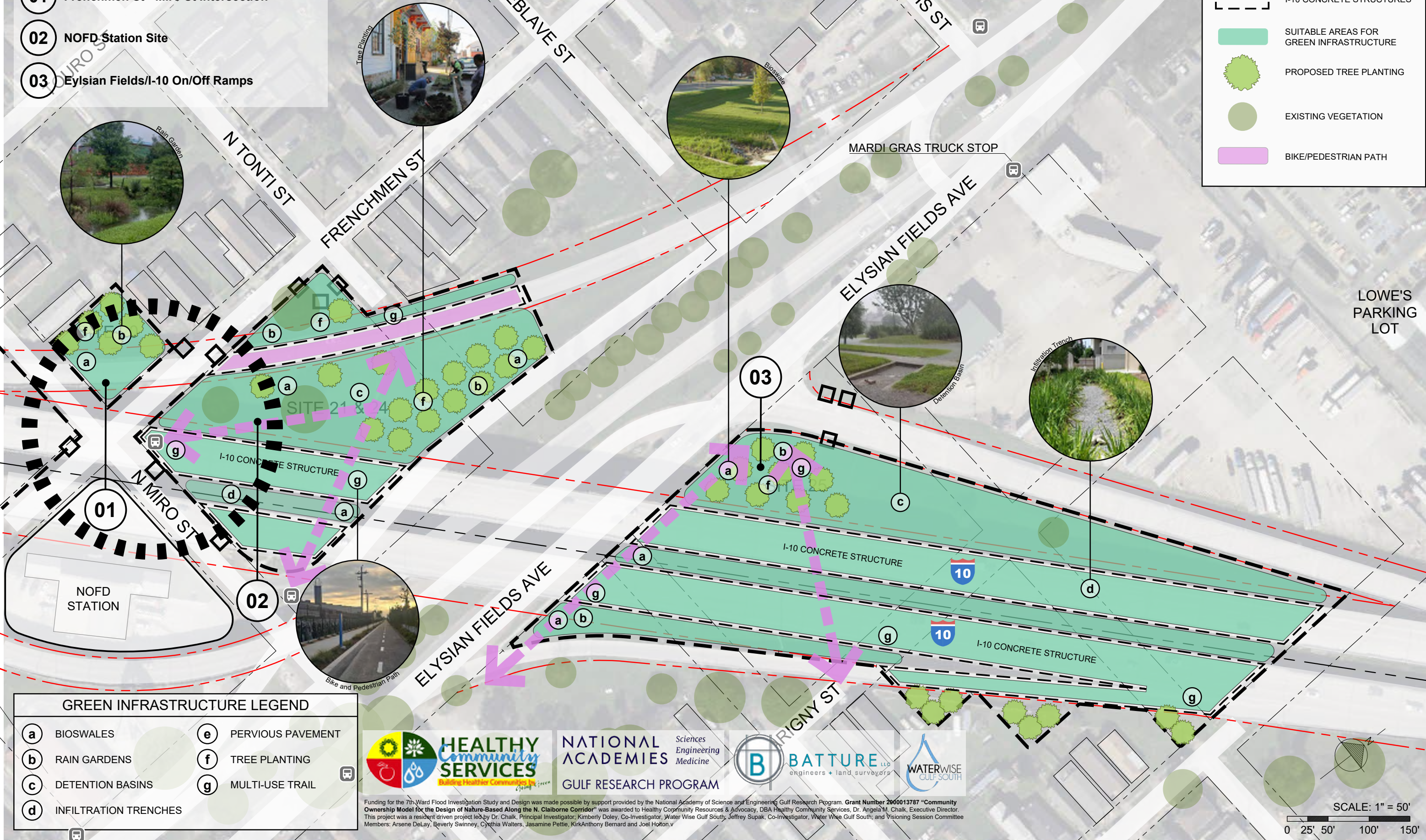
I-10 CONCRETE STRUCTURES

SUITABLE AREAS FOR GREEN INFRASTRUCTURE

PROPOSED TREE PLANTING

EXISTING VEGETATION

BIKE/PEDESTRIAN PATH



GREEN INFRASTRUCTURE LEGEND

BIOSWALES

RAIN GARDENS

DETENTION BASINS

INFILTRATION TRENCHES

PERVIOUS PAVEMENT

TREE PLANTING

MULTI-USE TRAIL



HEALTHY
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SCALE: 1" = 50'
0 25' 50' 100' 150'

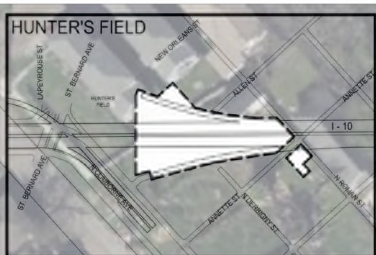


ALLEN STREET CIRCLE MEADOWS

2025 7th Ward Stormwater Visioning Plan for the N. Claiborne I-10 Corridor



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LEGEND

PROJECT SITES (LADOTD OWNED)

GRADING LINES

LANDSCAPE AREA

PROPOSED TREE PLANTING

REFER TO PERSPECTIVE

01

15'-4" WIDE MULTI-USE PATH
(12' BIKE & 8' WALKING PATH)

02

PLAZA AREA, HONOR OLD TRAFFIC
CIRCLE BEFORE CONSTRUCTION OF I-10,
REF. BASE E1

03

DRY CREEK, INFILTRATION TRENCH

04

8'-0" WIDE PEDESTRIAN PATH

05

RAIN GARDEN

06

LANDSCAPE AREA

07

DETENTION BASIN

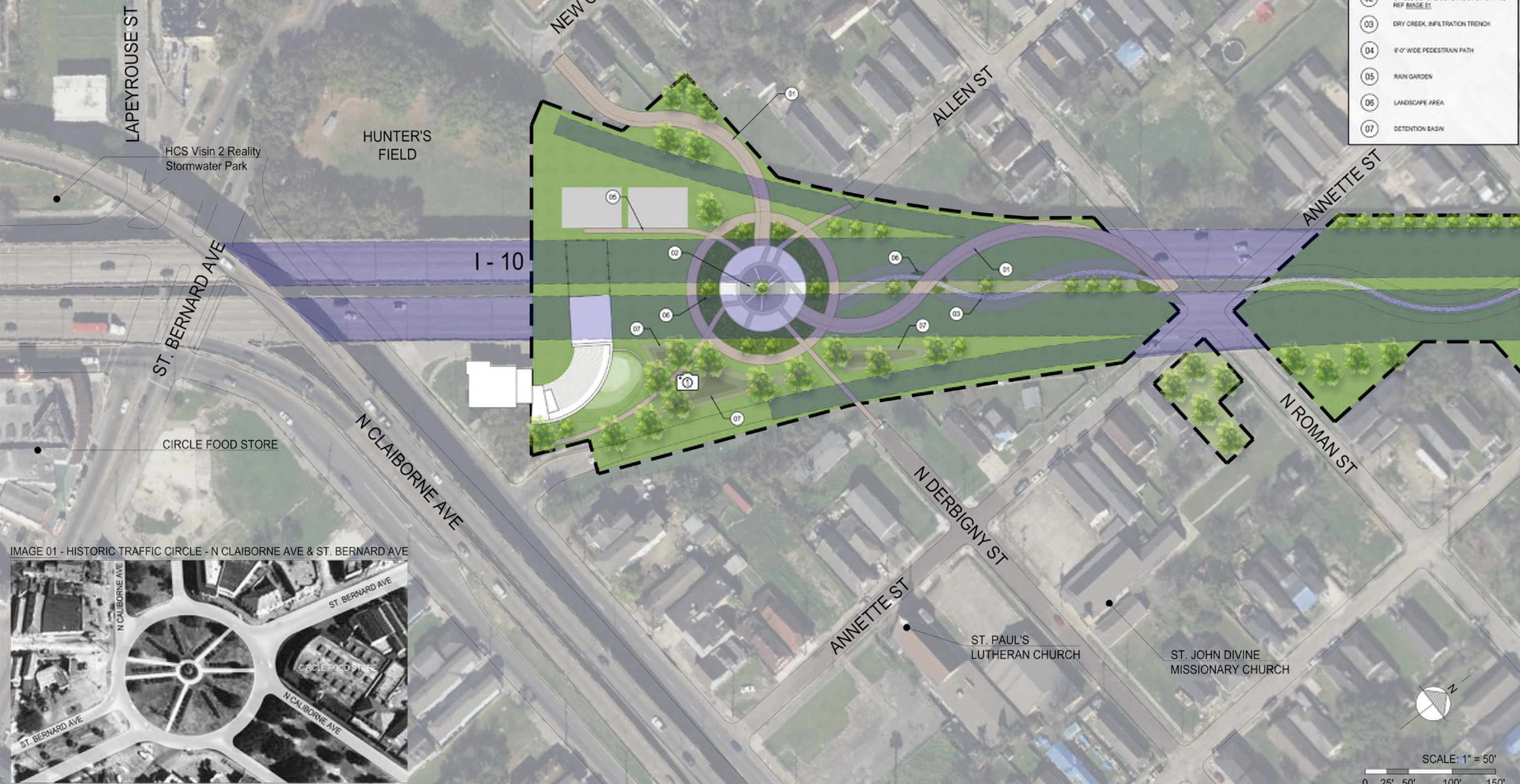
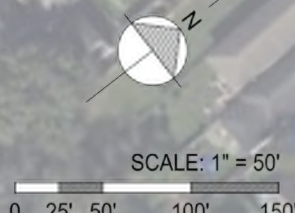
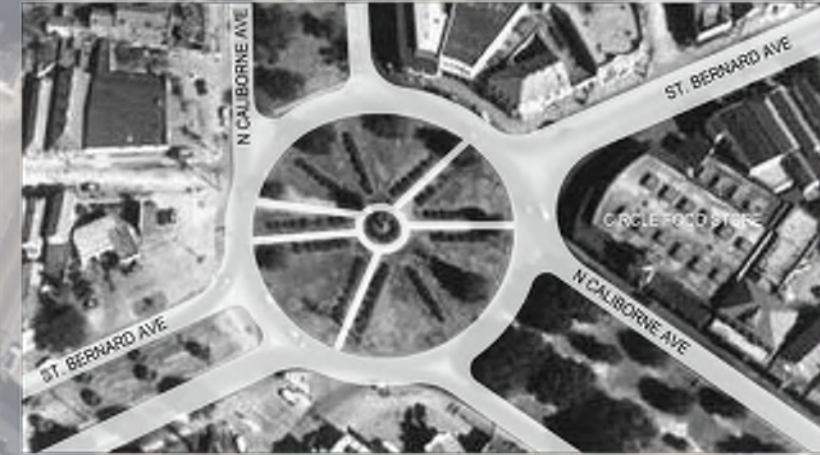


IMAGE 01 - HISTORIC TRAFFIC CIRCLE - N CLAIBORNE AVE & ST. BERNARD AVE





PERVIOUS PAVING

RAIN GARDEN

MULTI-USE PATH

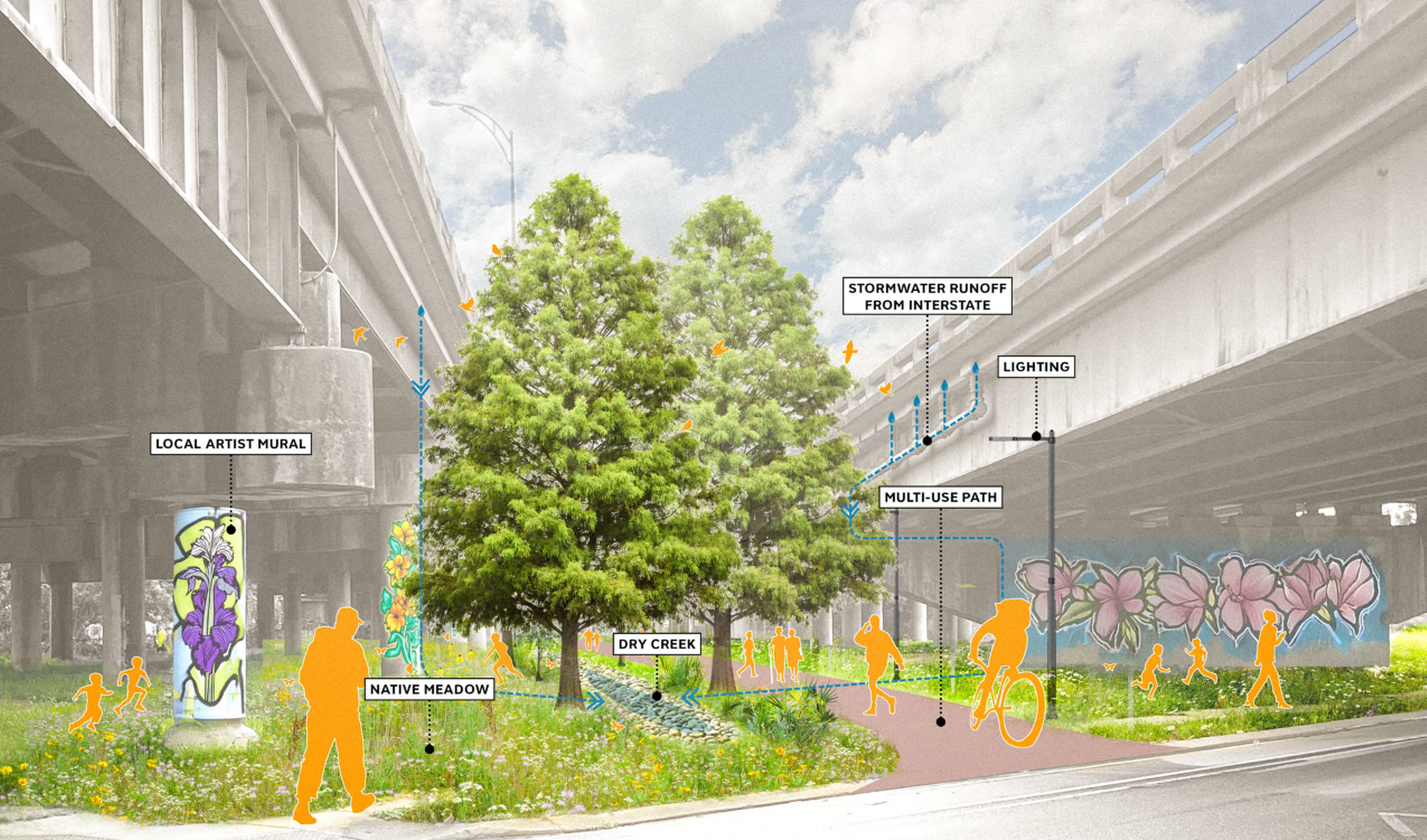
ANNETTE - FRENCHMEN RAINWATER CORRIDOR

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LOCAL ARTIST MURAL

STORMWATER RUNOFF FROM INTERSTATE

LIGHTING

MULTI-USE PATH

DRY CREEK

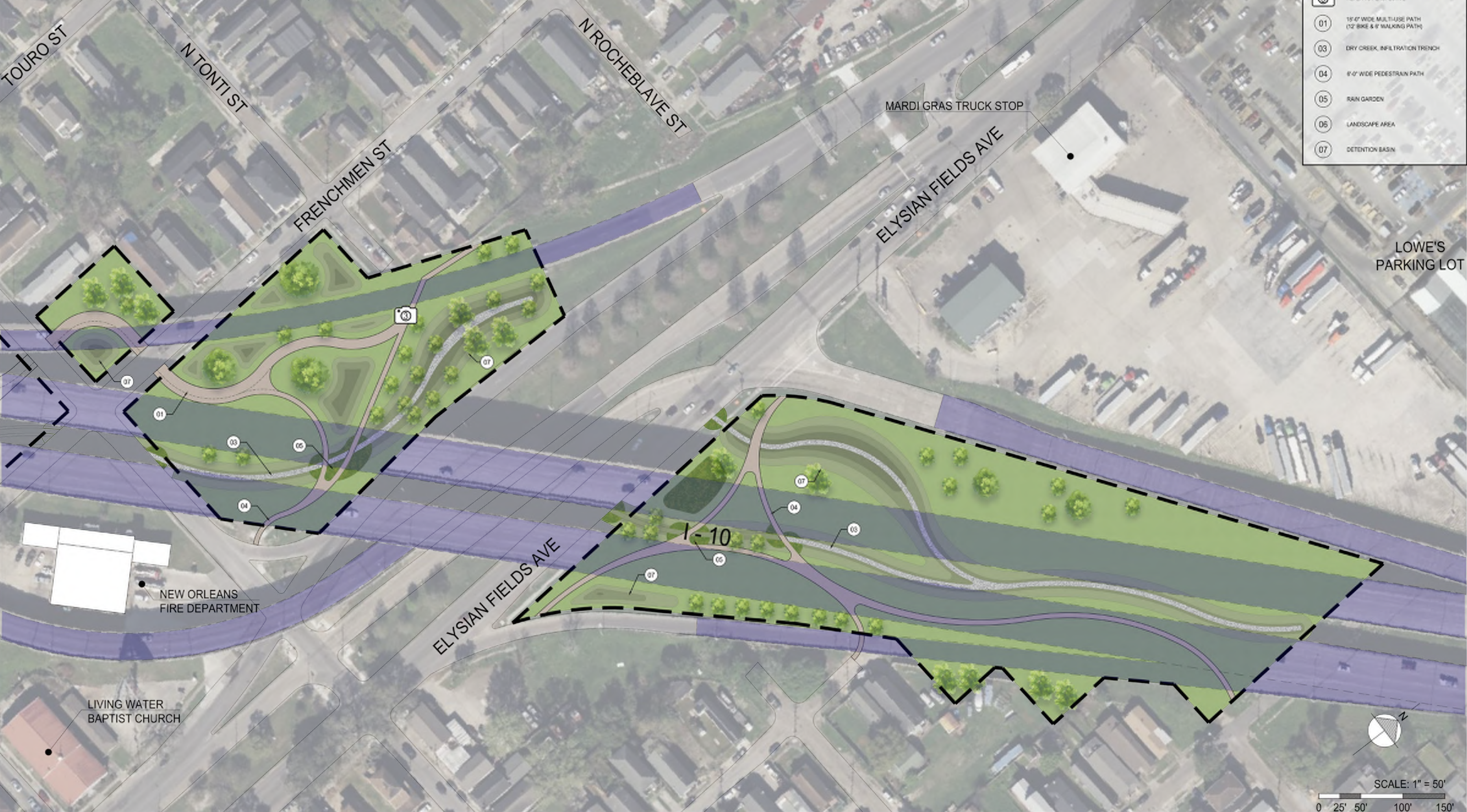
NATIVE MEADOW

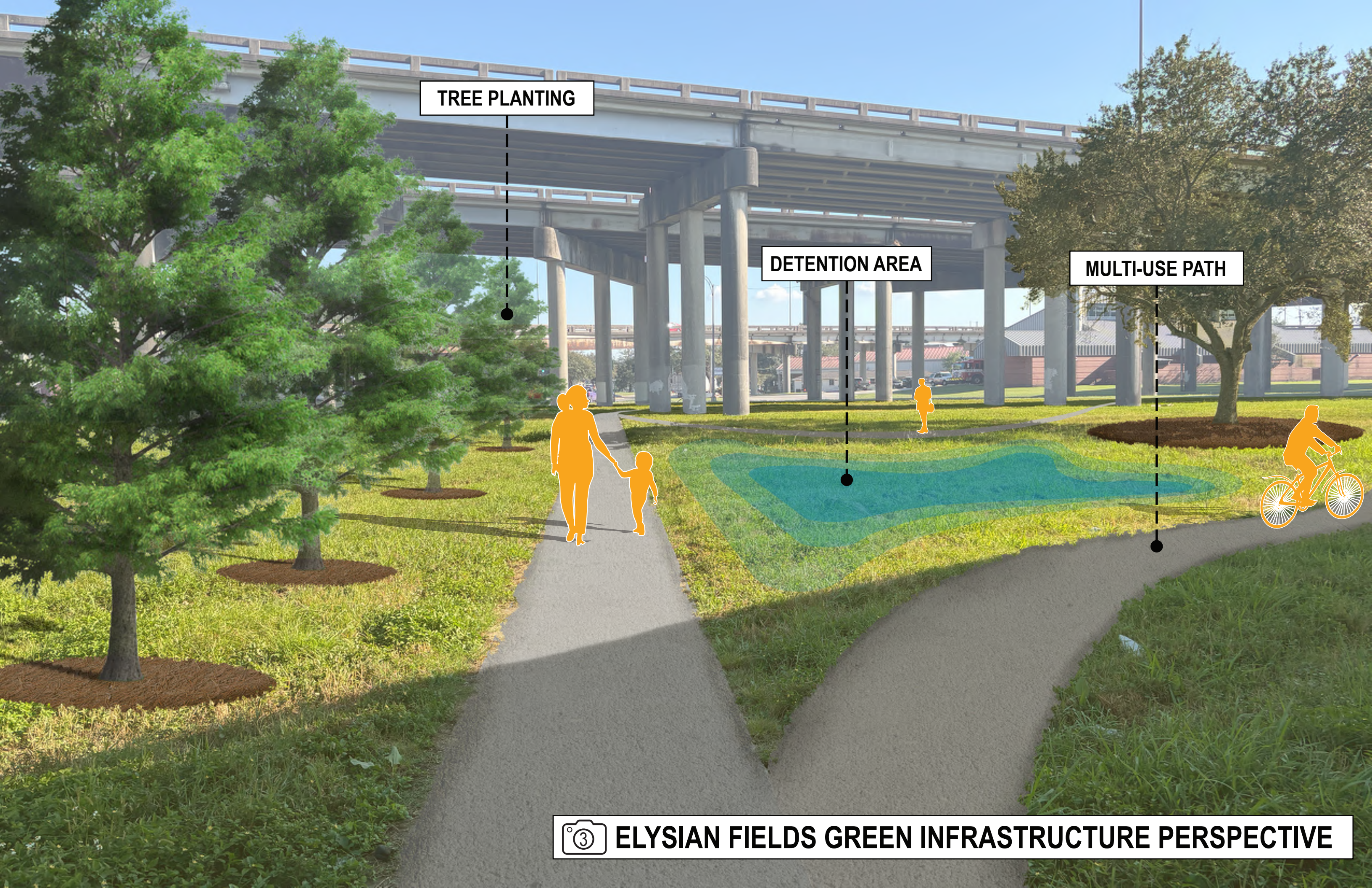
ELYSIAN FIELDS GREENWAY

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TREE PLANTING

DETENTION AREA

MULTI-USE PATH



ELYSIAN FIELDS GREEN INFRASTRUCTURE PERSPECTIVE