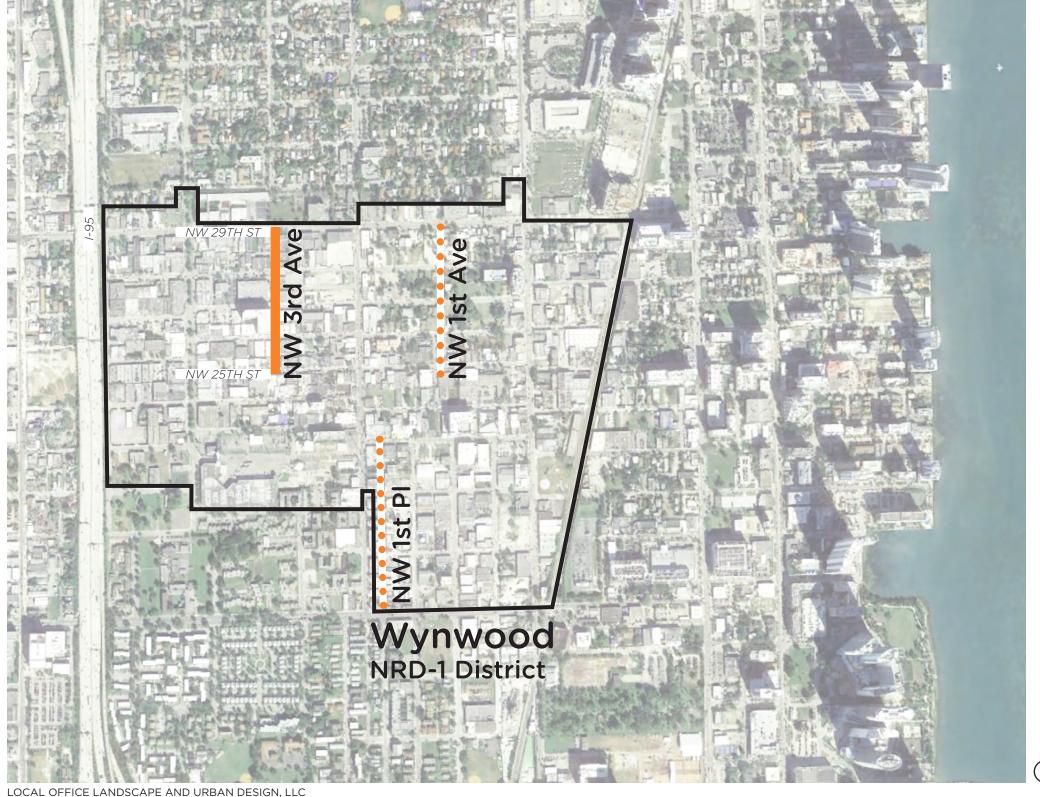
Wynwood Woonerf Outreach Meeting

NW 3rd Avenue - Analysis Findings



Wynwood Woonerf | NW 3rd Ave Pilot

A dynamic new street design developed to convert a public throughfare into a pedestrian primary zone which acts as a public open space



Pilot Woonerf

Planned Woonerfs

Project Process and Timeline

SEPTEMBER 2018 OCTOBER 2018 **DECEMBER 2018 JANUARY 2019 MARCH 2019** MAY 2019 LOLA & Team develop LOLA & Team Schematic LOLA & Team LOLA & Team LOLA & Team LOLA & develop Design refine Concept, Team refine conduct site present site **Design and** Concept, analysis, solicit analysis and **Schematic** present Materials present input from the assessment of progress to Palette, Design, submit progress to community. community. to City. present resources. community. progress to community. Wednesday, October 24

SITE ANALYSIS

SCHEMATIC DESIGN

Analysis and Findings | NW 3rd Avenue

i. Introductions

Jennifer Bolstad (Local Office Landscape and Urban Design)
Walter Meyer (Local Office Landscape and Urban Design)
Nina Johnson (Nina Johnson Gallery)
Tony Garcia (Street Plans Collaborative)
Patrick Shearer (E-Sciences)
Orestes Betancourt (Coastal Systems International)

ii. Analysis | Constraints and Opportunities

Art and Identity
Architectural Streetscape
Natural Systems
Infrastructure Systems

iii. Principles for a Wynwood Woonerf

- iv. Questions/Comments
- v. Questionnaire

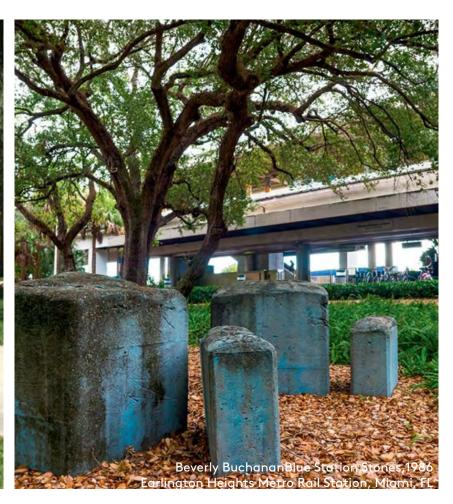
ART ASSESSMENT

NINA JOHNSON

History of Public Art in Miami



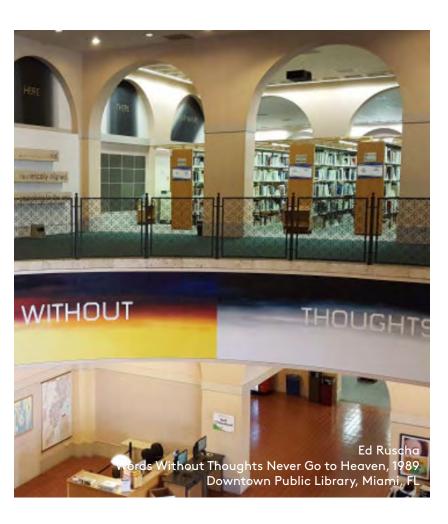




History of Public Art in Miami







Current Public Art in Miami







Current Public Art in Miami



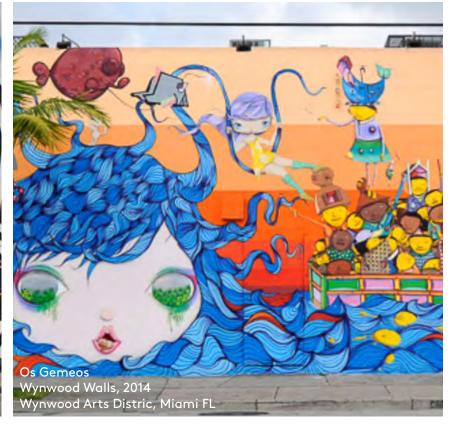




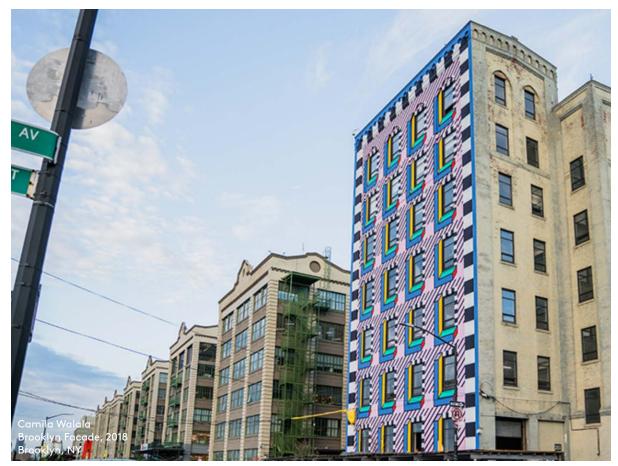
Current Public Art in Wynwood



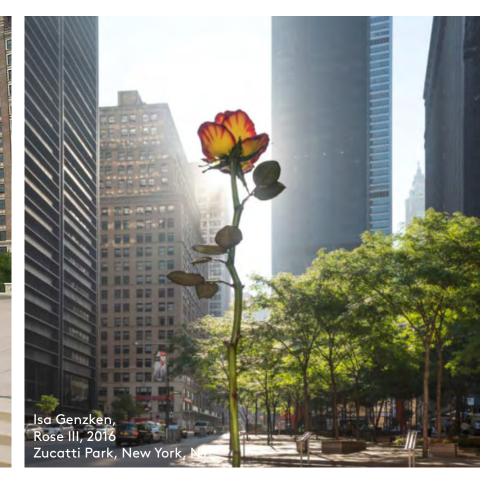




Future of Wynwood | Installations

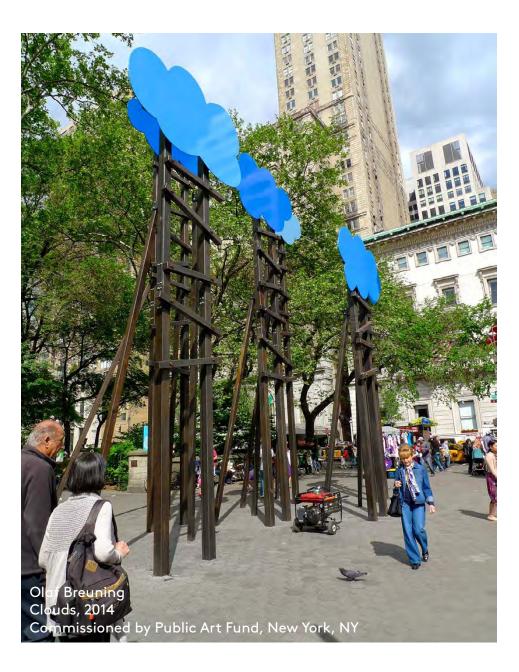






Future of Wynwood | Shading







Future of Wynwood | Seating



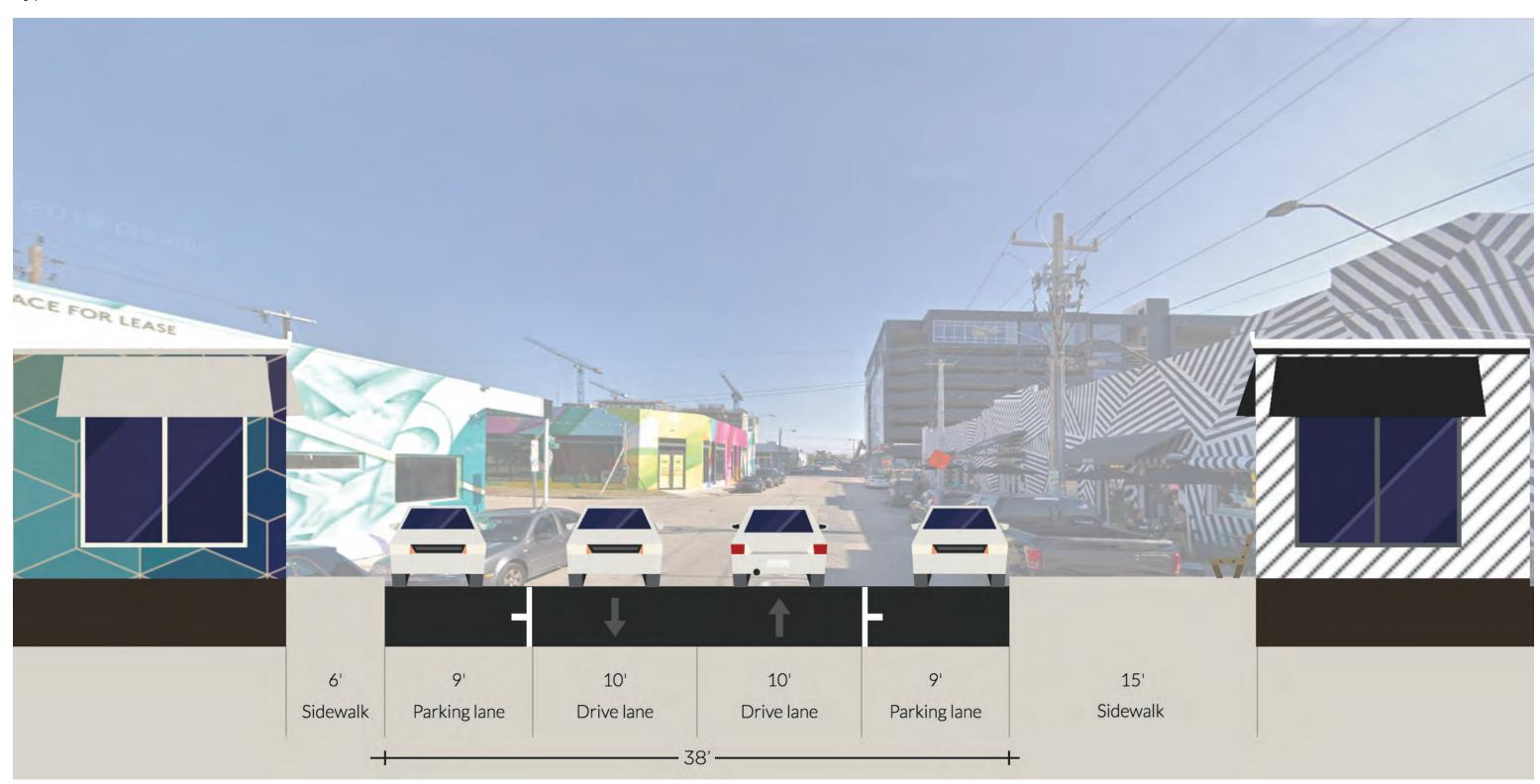




ARCHITECTURAL STREETSCAPE

THE STREET PLANS COLLABORATIVE

NW 3RD AVE Typical Street Section





NW 3RD AVE

Existing Buildings



Buildings Under Construction







NW 3RD AVE

Existing Buildings

Buildings Under Construction



Parking Lots / Loading Zones







NW 3RD AVE

Existing Buildings

Buildings Under Construction

Parking Lots / Loading Zones

Existing Public Spaces







NW 3RD AVE

Existing Buildings

Buildings Under Construction

Parking Lots / Loading Zones

Existing Public Spaces

Available Semi-













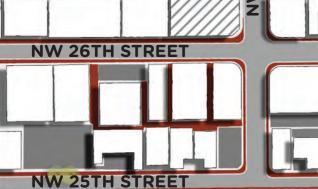








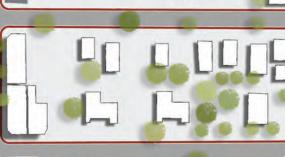


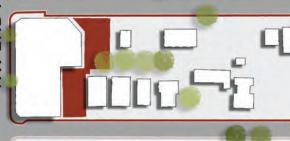




























NW 3RD AVE

Commercial





NW 3RD AVE

Commercial

Industrial





NW 3RD AVE

Commercial

Industrial

Residential





WYNWOOD WOONERF NW 3RD AVE

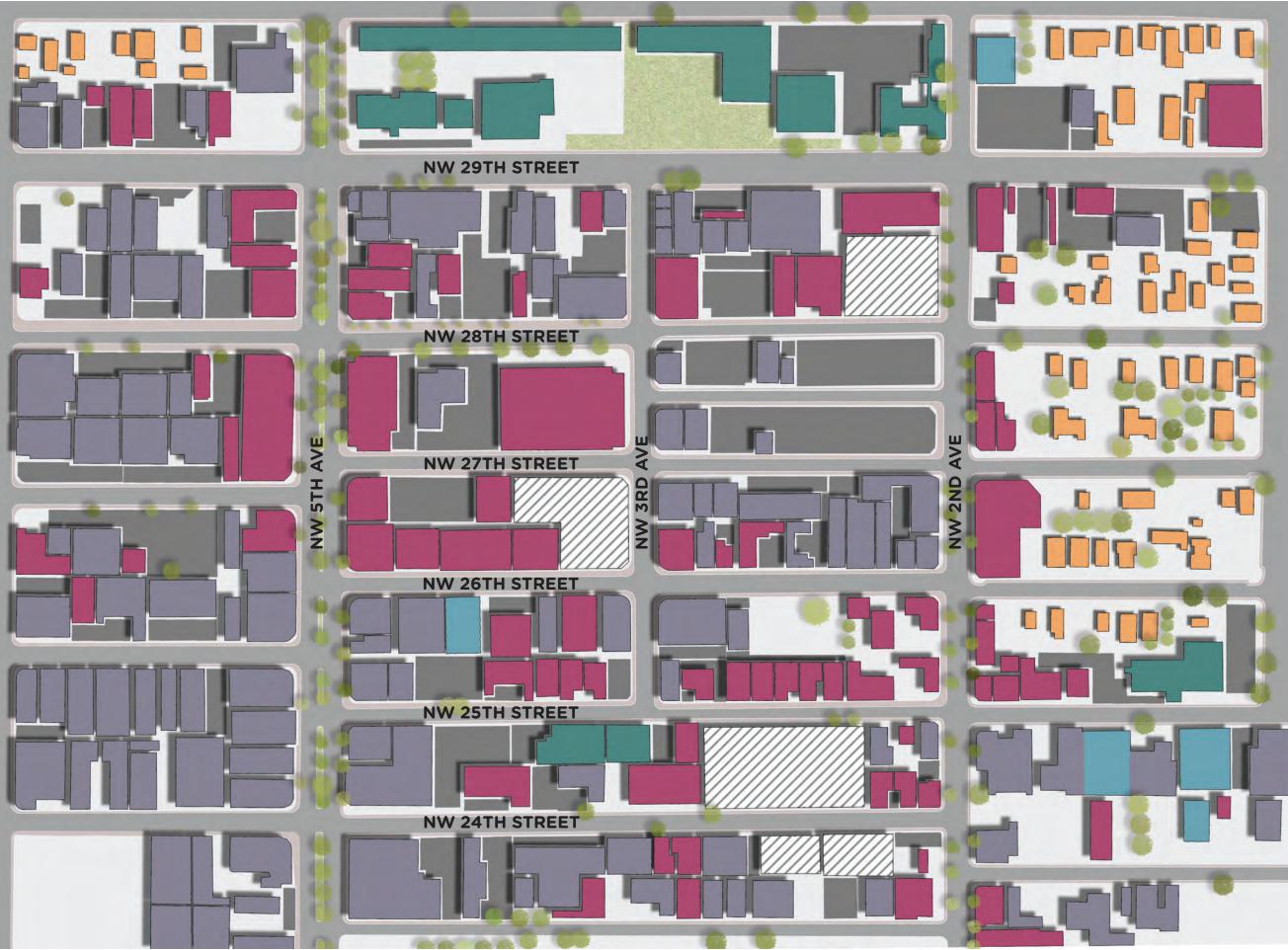
Commercial

Industrial

Residential

Institutional

Office





WYNWOOD WOONERF NW 3RD AVE

Existing AM Peak Traffic Volumes* (8:00AM - 9:00AM)



Existing PM Peak Traffic Volumes* (4:30PM - 5:30PM)



*Data from BID Traffic Study -Caltran Engineering Group. 2016

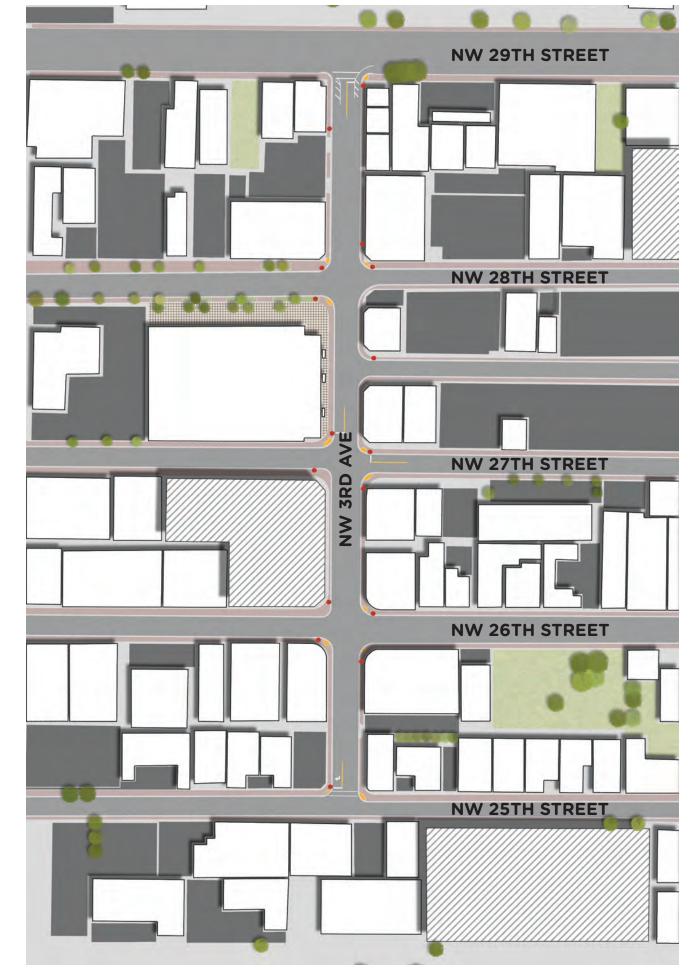


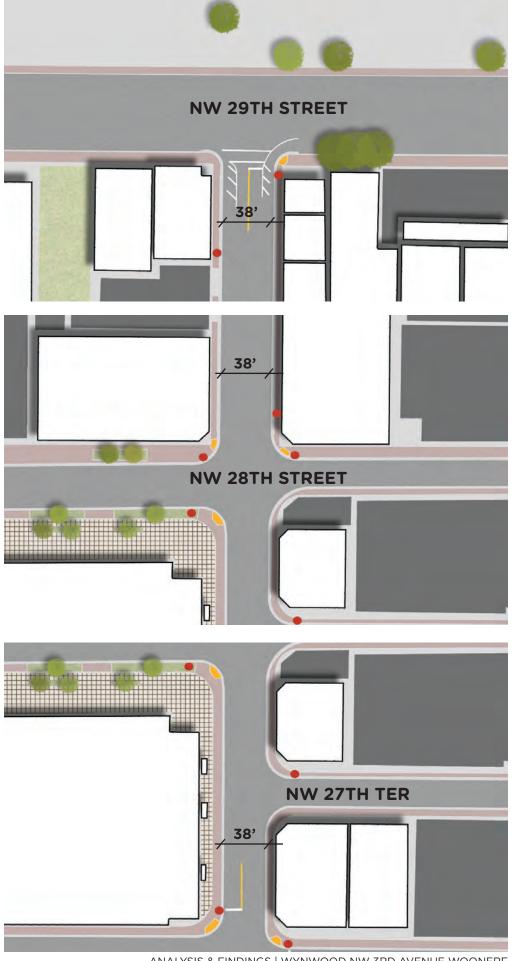
NW 3RD AVE

NW 3rd Avenue Intersections

Stop Signs







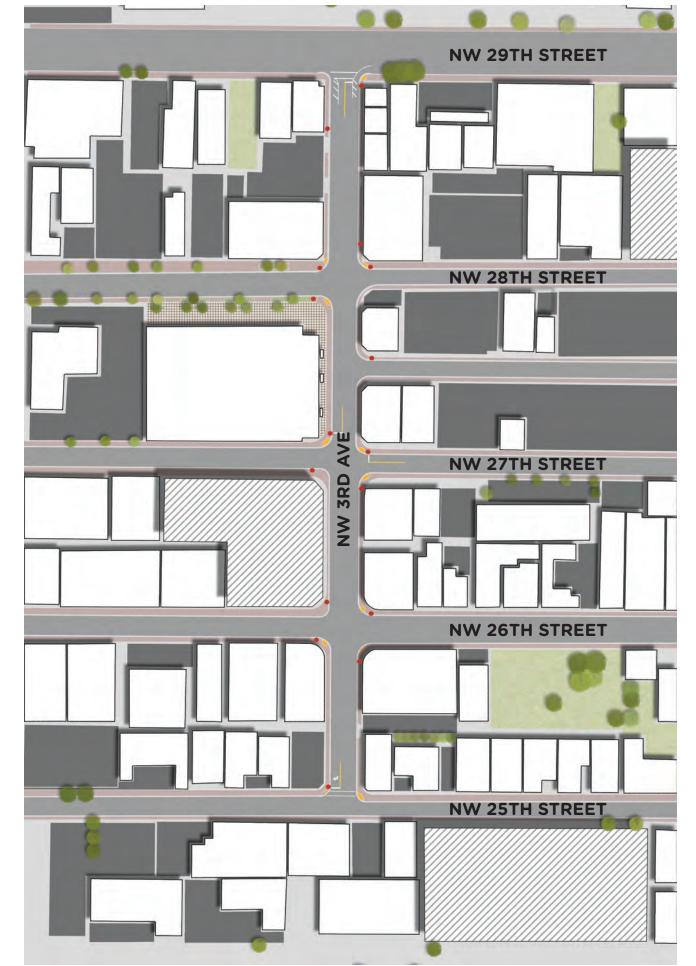


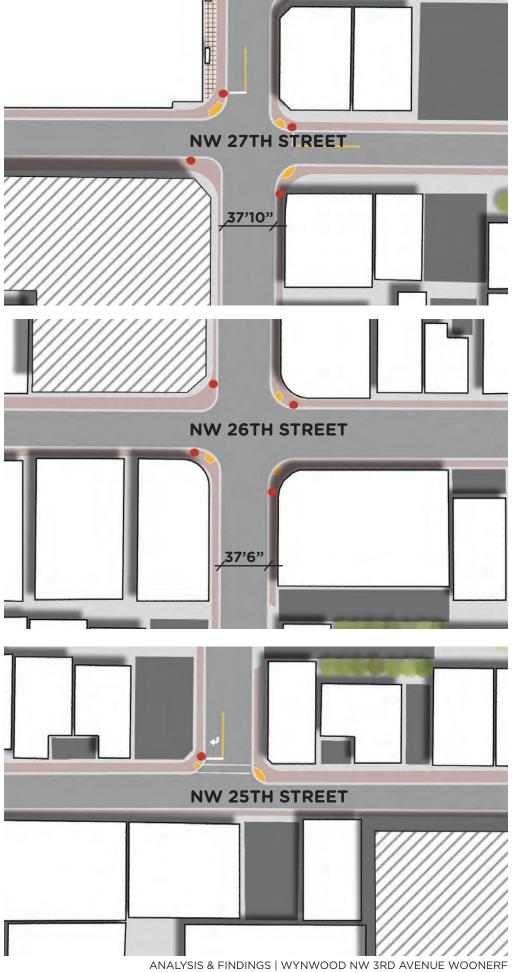
NW 3RD AVE

NW 3rd Avenue Intersections

Stop Signs

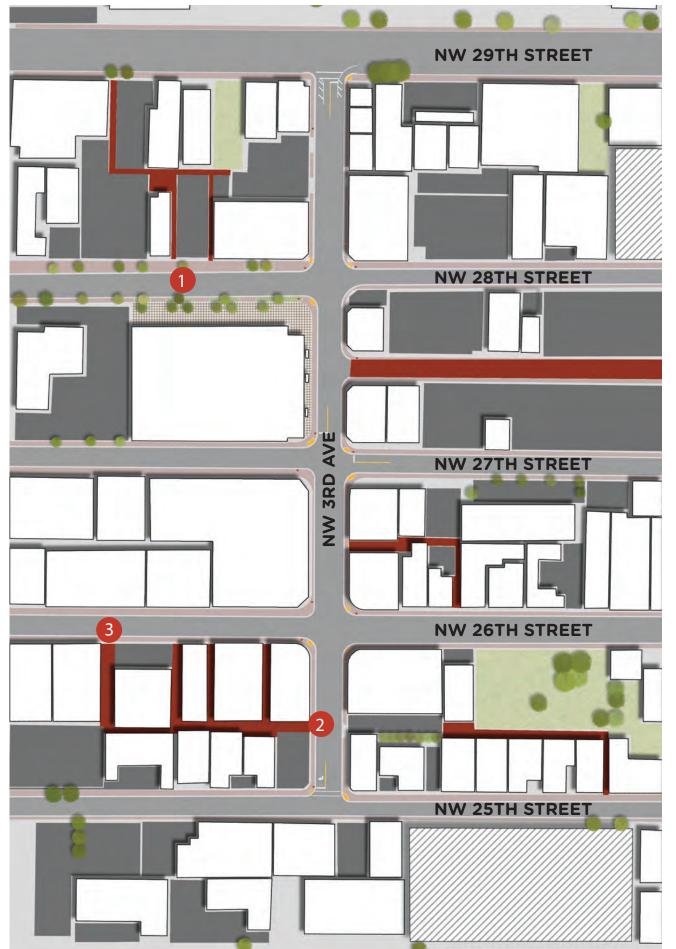








NW 3RD AVE





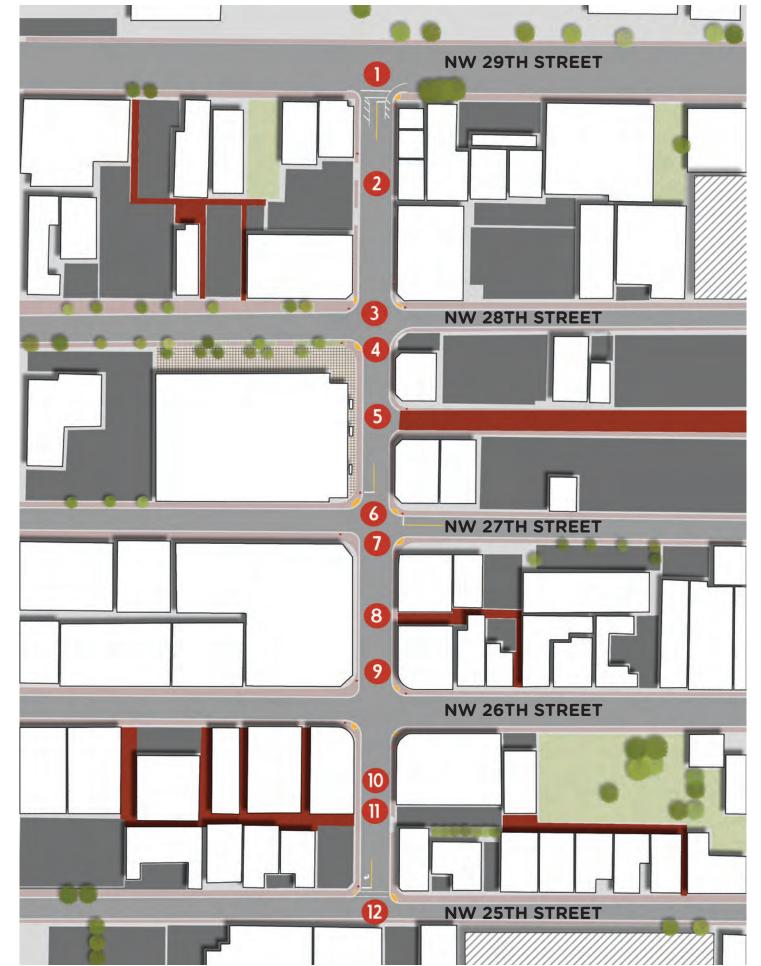






ANALYSIS & FINDINGS | WYNWOOD NW 3RD AVENUE WOONERF
19 OCTOBER 2018

NW 3RD AVE





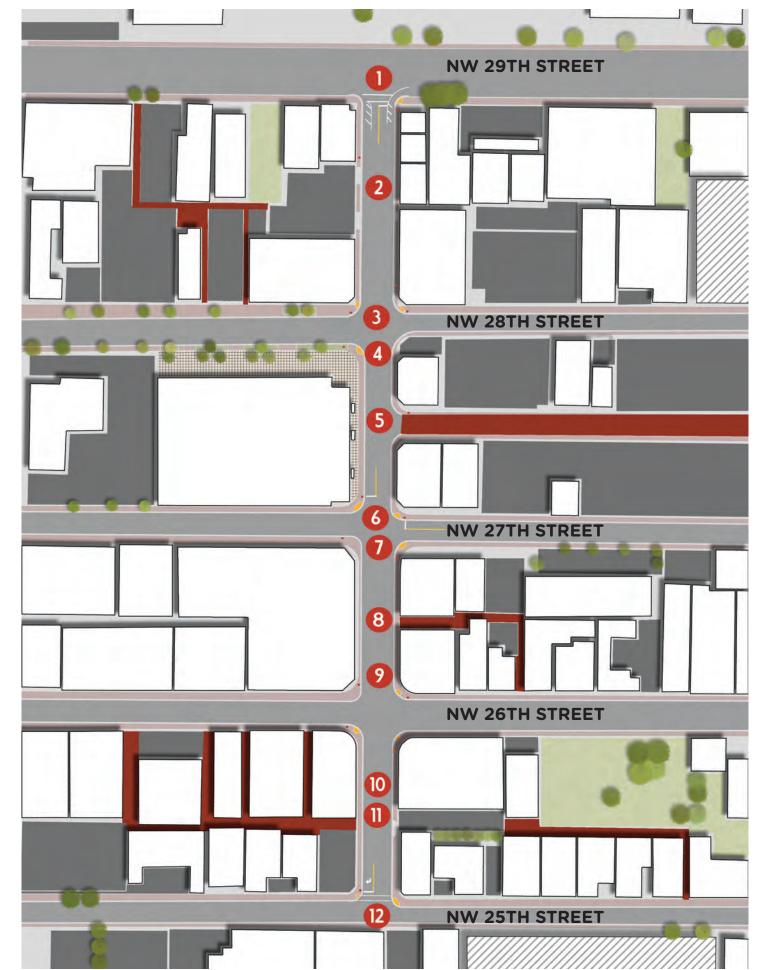


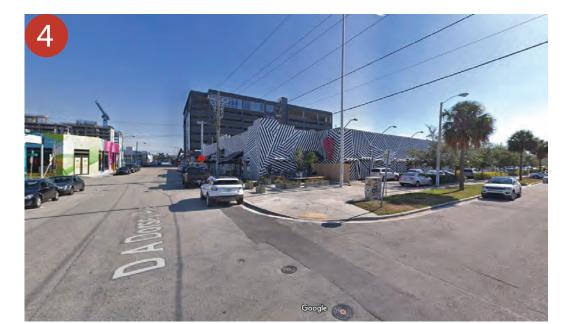


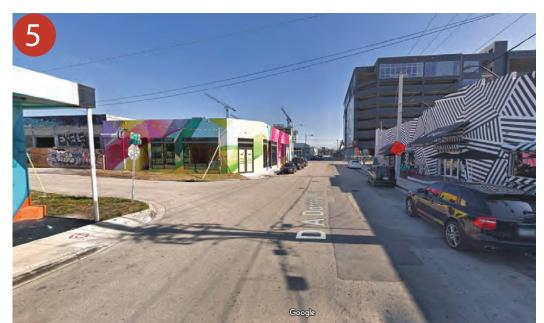


ANALYSIS & FINDINGS | WYNWOOD NW 3RD AVENUE WOONERF
19 OCTOBER 2018

NW 3RD AVE





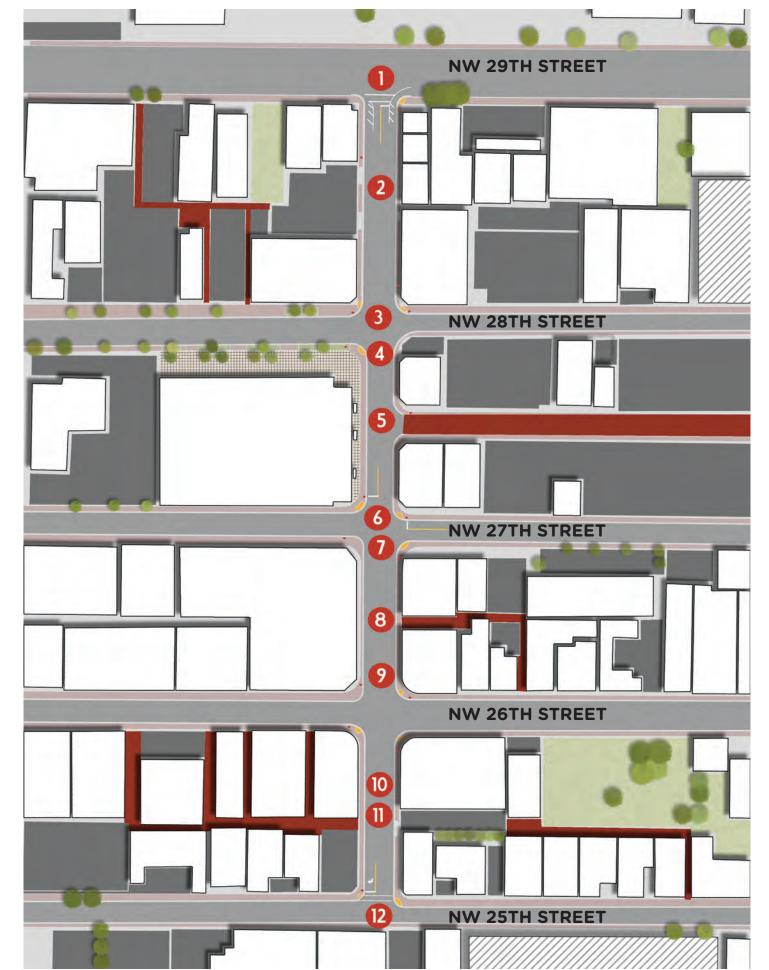




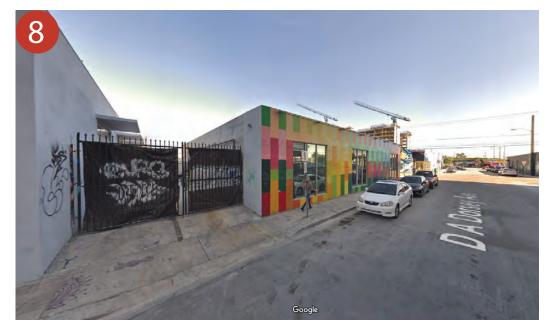


ANALYSIS & FINDINGS | WYNWOOD NW 3RD AVENUE WOONERF 19 OCTOBER 2018

NW 3RD AVE





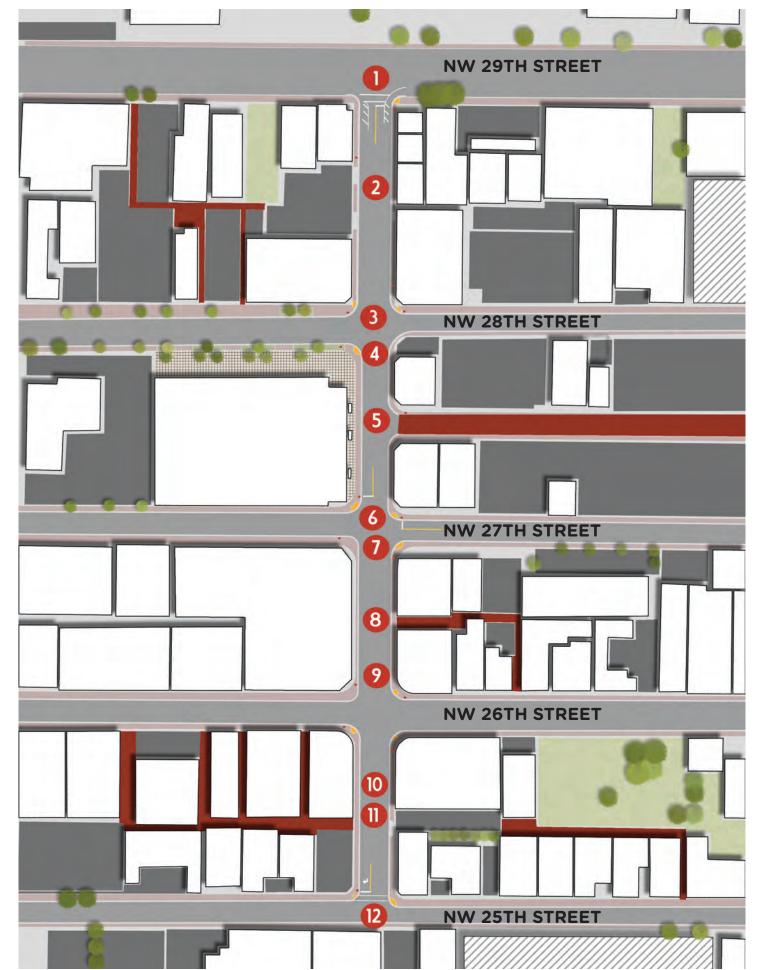






ANALYSIS & FINDINGS | WYNWOOD NW 3RD AVENUE WOONERF
19 OCTOBER 2018

NW 3RD AVE











ANALYSIS & FINDINGS | WYNWOOD NW 3RD AVENUE WOONERF
19 OCTOBER 2018

NATURAL SYSTEMS

E-Sciences

ENVIRONMENTAL SITE ANALYSIS, ENERGY AND VULNERABILITY ASSESSMENTS





OVERVIEW

- Environmental Site Analysis
- Energy Assessment
 - Stormwater Considerations
 - Green Infrastructure
 - Urban Heat Island
- Vulnerabilities Assessment

ENVIRONMENTAL SITE ANALYSIS

- Existing Features
- Topography
- Soils
- Groundwater
- Existing Drainage
- Historical Maps, Aerials and Sanborn Maps
- Brownfields
- Contaminated Sites
- Consumptive Water Use Permits



SOURCE: GOOGLE STREET VIEW



ENVIRONMENTAL SITE ANALYSIS







ENERGY ASSESSMENT

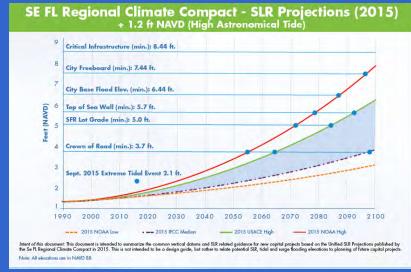
- Stormwater Considerations
- Green Infrastructure
- Urban Heat Island Effect affects:
 - Human Health
 - Increased energy demand (can lead to electrical blackouts)
 - Water supply
 - Air pollution
 - Air temperature differences
 - Surface temperature differences
 - Stormwater runoff temperature



VULNERABILITY ASSESSMENT

- Sea Level Rise
- Groundwater Flooding
- Drought
- Extreme Weather Events
- Increased Precipitation
- Permeable Pavement Assessment

Urban Forestry



SOURCE: CITY OF MIAMI BEACH, URBAN LAND INSTITUTE

RECOMMENDED ADAPTATION MEASURES TO FACTOR THIS INTO DESIGN

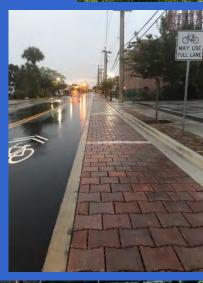


GREEN INFRASTRUCTURE

- Downspout Disconnection
- Rainwater Harvesting
- Rain Gardens
- Planter Boxes
- Bioswales
- Permeable Pavements
- Green parking
- Green Streets and Alleys (Woonerf)
- Green Roofs
- Urban Tree Canopy
- Tree planter Structural Soil retrofits











Green Infrastructure provides Resilience for:

- Reduction of temperatures & Urban Heat Island
- Water quality treatment of runoff
- Reduced vulnerability of Drainage systems
- Landscape Irrigation
- Backup to pump system stormwater network
- Protection of drinking water against salt water intrusion
- Human Health and Air Quality



PERMEABLE PAVEMENT W/ UNDERGROUND EXFILTRATION









INNOVATIVE STORMWATER AS ART











Questions?

Patrick Shearer, PE

Project Engineer

E Sciences Inc.

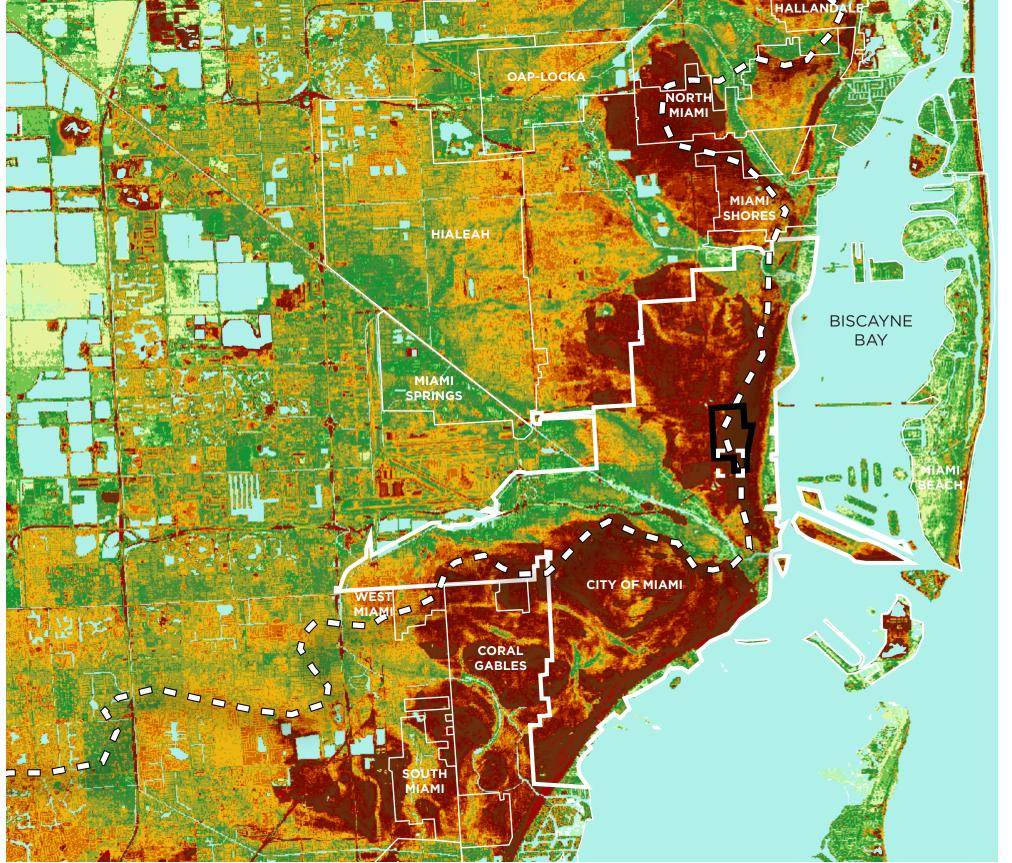
pshearer@esciencesinc.com

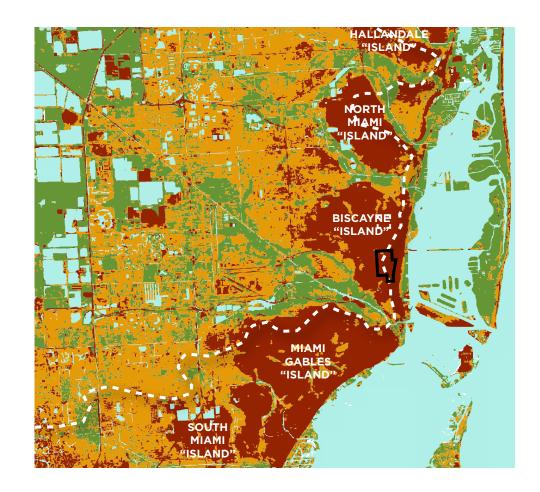


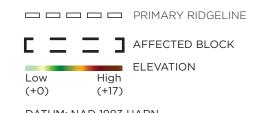
INFRASTRUCTURE SYSTEMS

LOLA and Costal Systems International

Sloughs Elevation

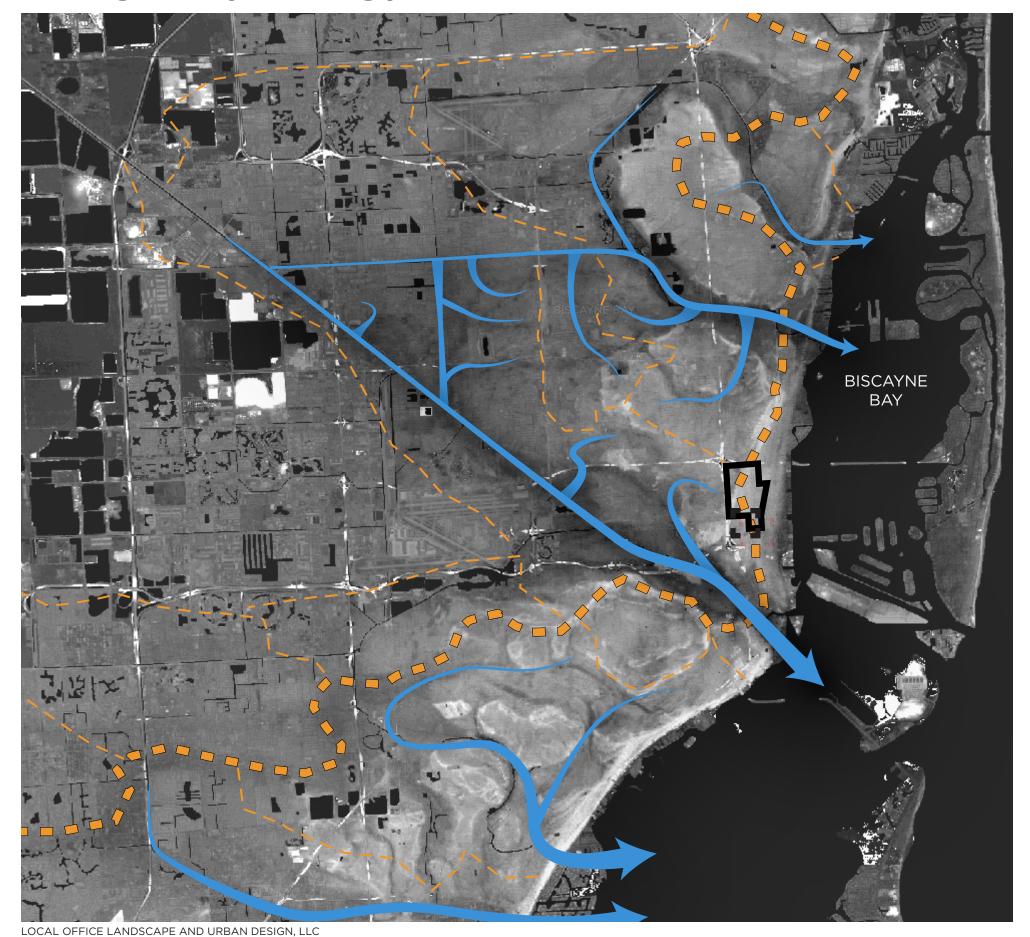






DATUM: NAD 1983 HARN SOURCE: Miami-Dade County Information Technology Department (ITD), 2015

Sloughs Hydrology

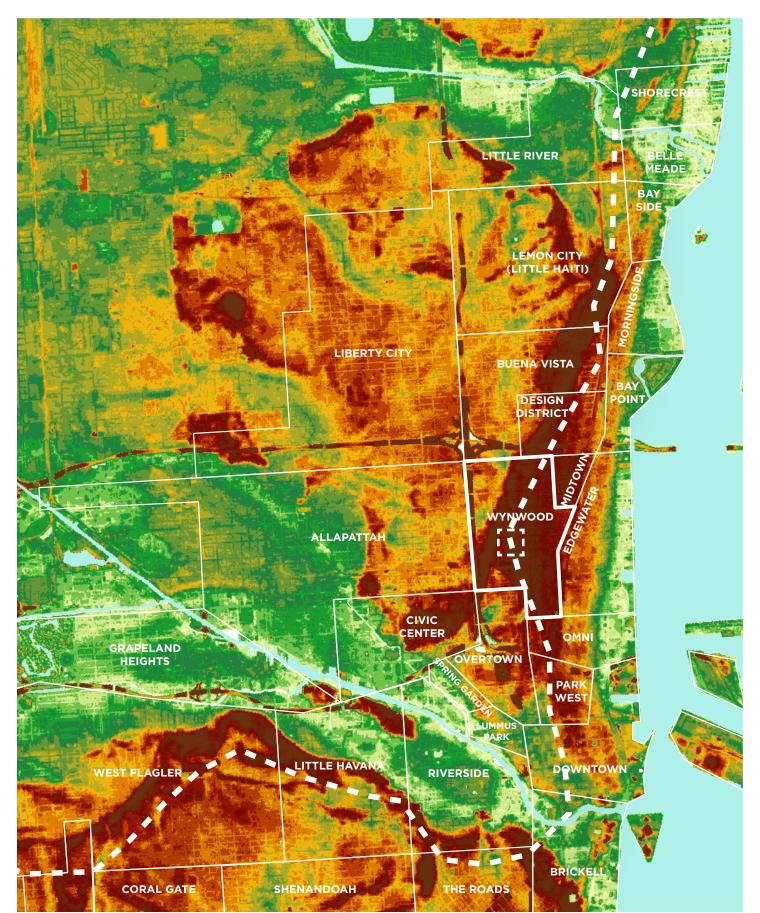


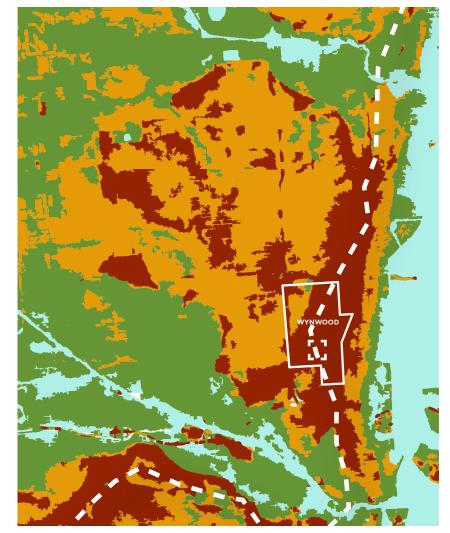


DATUM: NAD 1983 HARN SOURCE: Miami-Dade County Information Technology Department (ITD), 2015

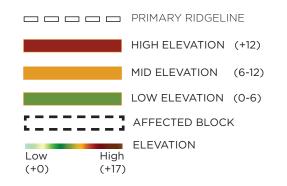


Biscayne 'Island' Elevation





ELEVATION ANALYSIS

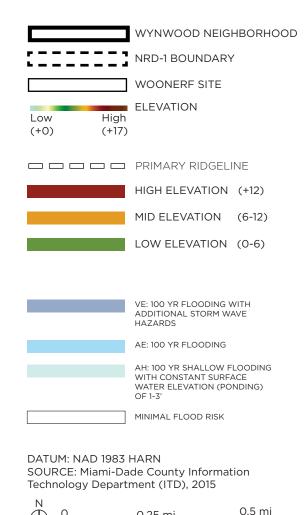


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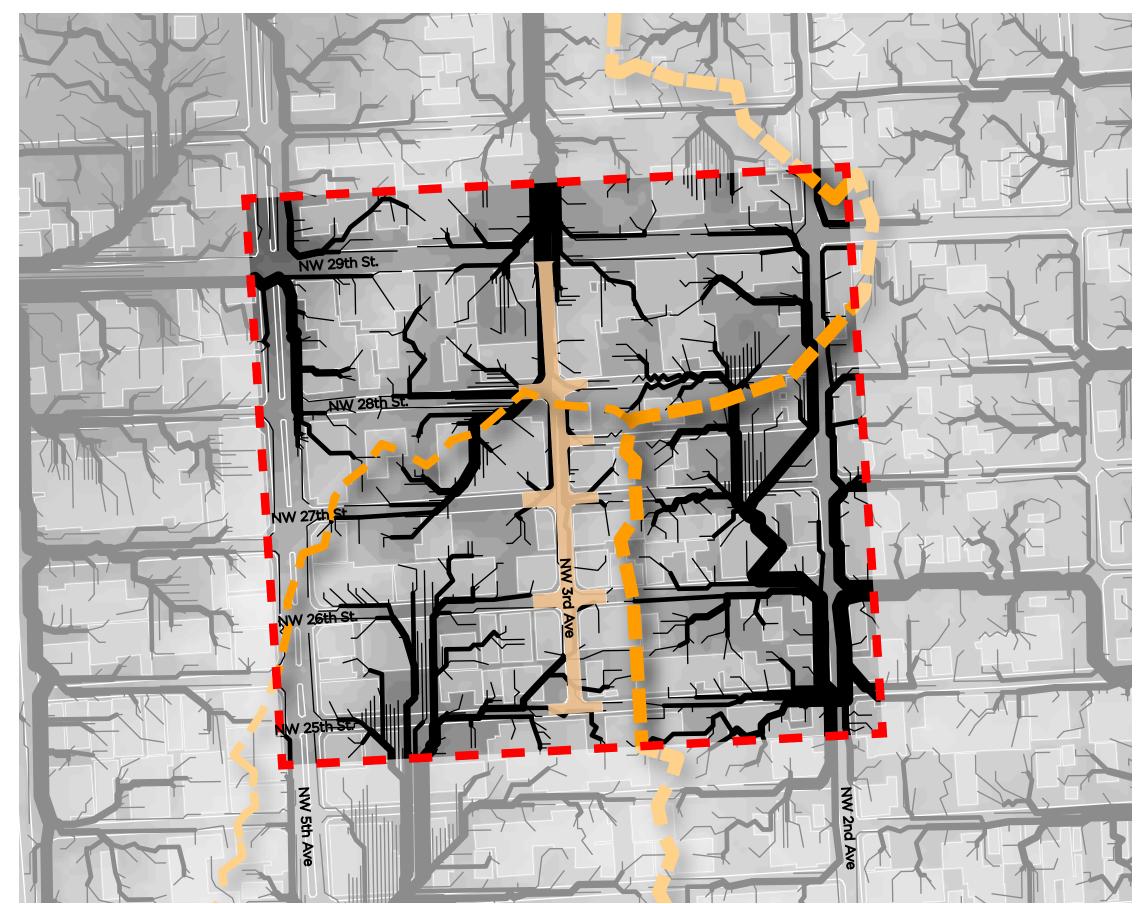
Wynwood Neighborhood Elevation

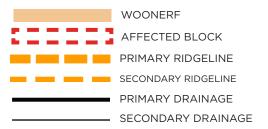






Site Hydrology





24 OCTOBER 2018

DATUM: NAD 1983 HARN SOURCE: Miami-Dade County Information Technology Department (ITD), 2015

N 0 0.05 mi 0.1 mi
L L L ANALYSIS & FINDINGS | WYNWOOD WOONERF OUTREACH

Hydrology Management

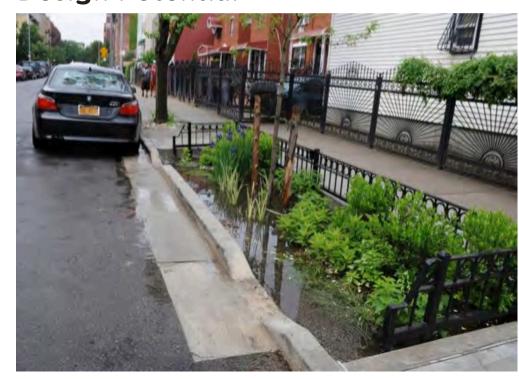
Existing Conditions

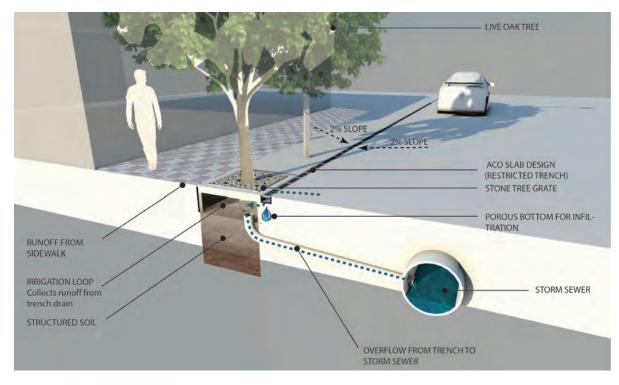




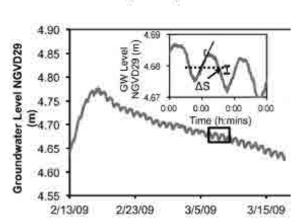


Design Potential





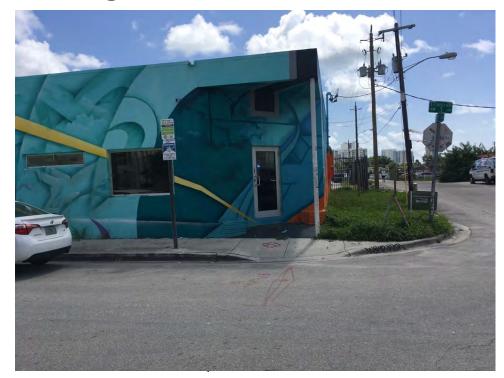
A mature tree can transpire as much as 109 gallons/day (USGS)



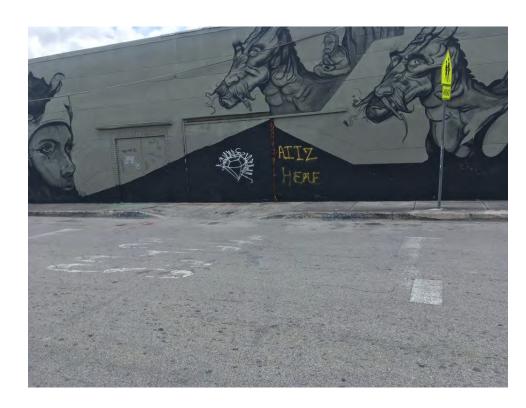
Groundwater-Surface Water Interactions On Tree Islands In The Everglades, South Florida (Sullivan, Pamela, FIU, 2011)

Accessibility Between Public/Private Realm

Existing Conditions







Design Potential



Principles for a Wynwood Woonerf

1. Create a commons that seamlessly connects the public and private realms

- a. Prioritize pedestrian access and safety while providing adequate service, automobile, and bicycle mobility
- b. Partner with the BID and private owners to achieve maximum accessibility

2. Express and enhance the identity of Wynwood in the streetscape

- a. The experiences of Wynwood are dynamic and ephemeral. The woonerf design character should be 4-dimensional, embracing change.
- b. Art activities in Wynwood have shifted from production to consumption. The Woonerf and other public spaces provide opportunities to re-introduce production through the engagement of artists in the designed elements

3. Ensure the built environment contributes to the health of the natural environment and the social and economic resilience of the community

- a. Treat water as an infrastructure of the common
- b. Leverage district-wide opportunities for energy production

Principles for a Wynwood Woonerf

- 1. Create a commons that seamlessly connects the public and private realms
- 2. Express and enhance the identity of Wynwood in the streetscape
- 3. Ensure the built environment contributes to the health of the natural environment and the social and economic resilience of the community

Thank you!

