

UNIVERSITY OF MIAMI
SCHOOL of
ARCHITECTURE



RESILIENT REDESIGN III

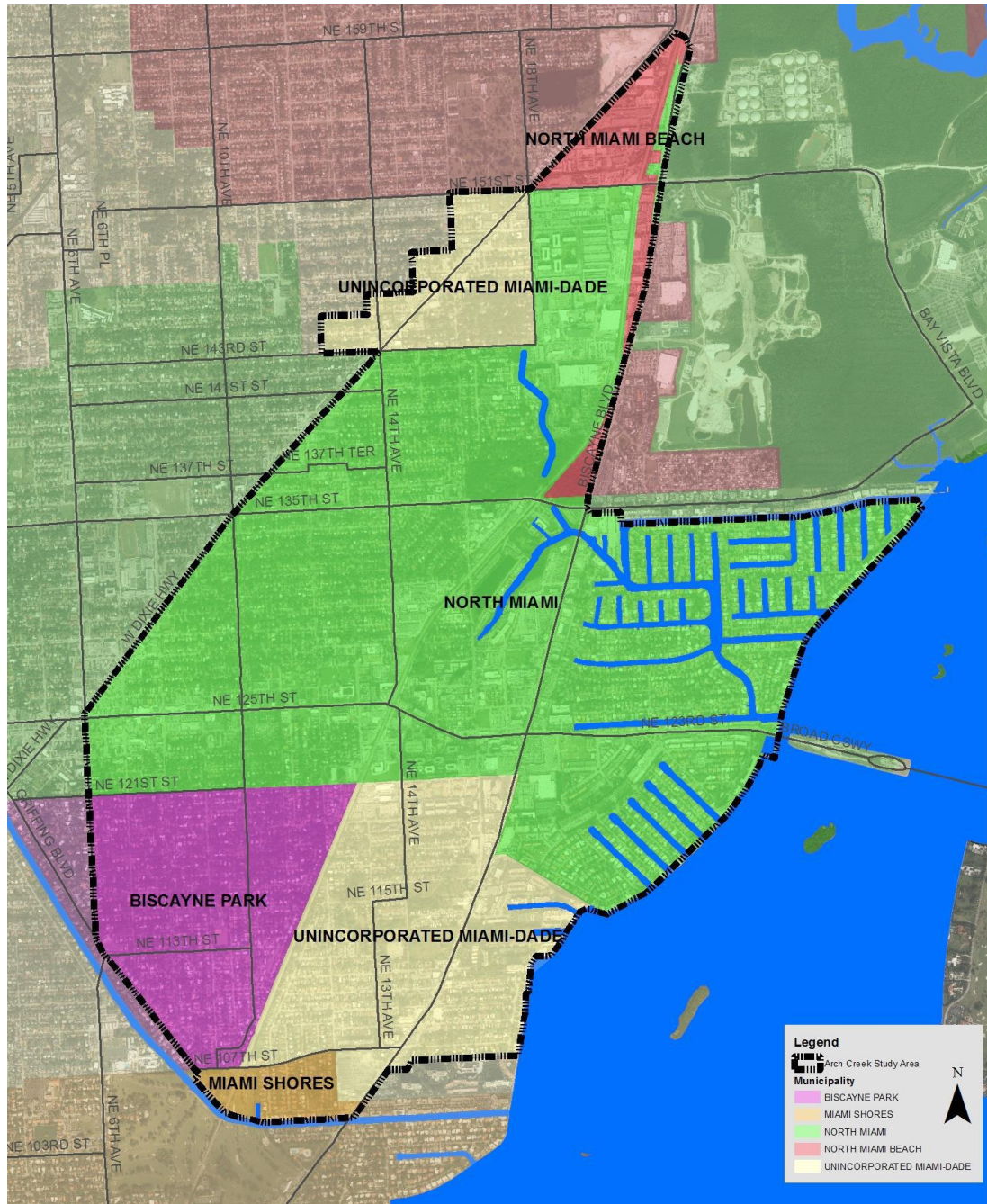
2016 Resilient Redesign Workshop

Presented By: Katie Hagemann

November 15, 2016

ARCH CREEK DRAINAGE BASIN

- low elevations & drainage constraints
- balancing canal levels to minimize flooding & prevent saltwater intrusion
- porous substrate – precludes flood defenses designed to keep the water
- Many low-lying areas have septic tanks



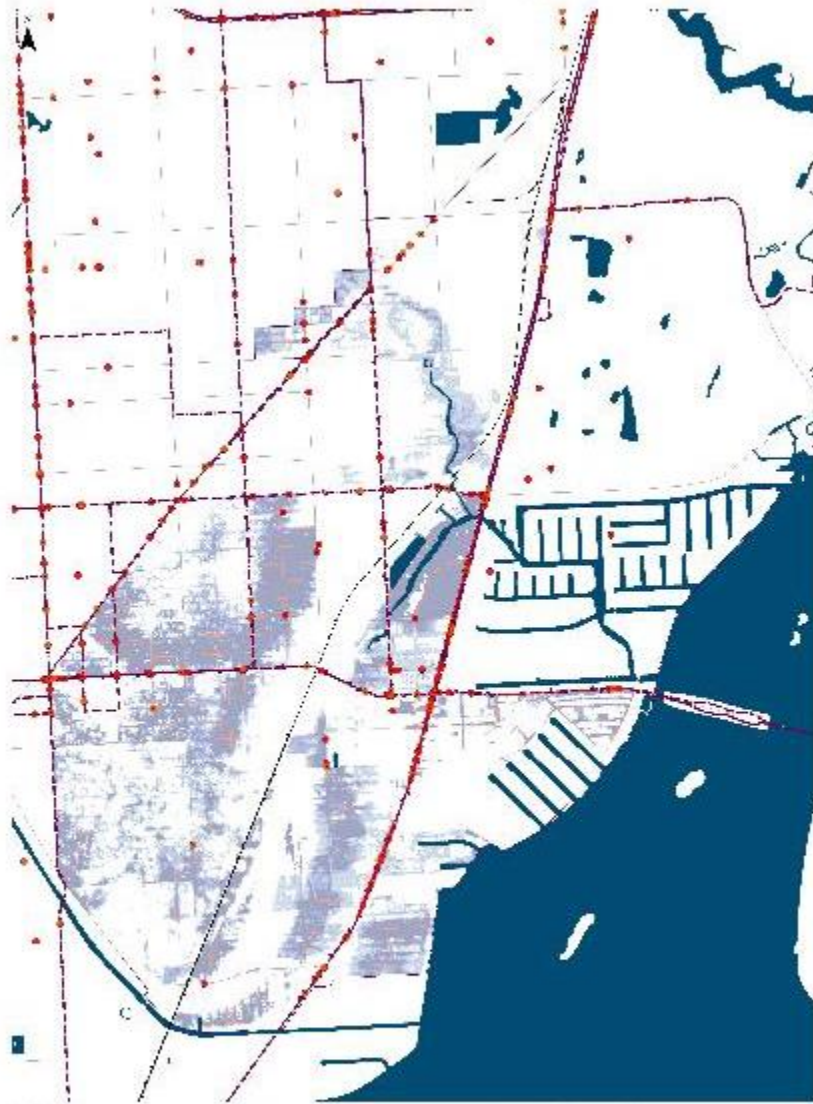
Emergency Management



Legend

- RBC (Ramp) zone
- (Blue) zone (also near village zone)
- (Yellow) zone (near production)
- ▲ RBC (Innovation) zone
- RBC (Innovation) zone

Mobility Challenges



Urban Heat Island & Green Spaces



Storm Surge I...

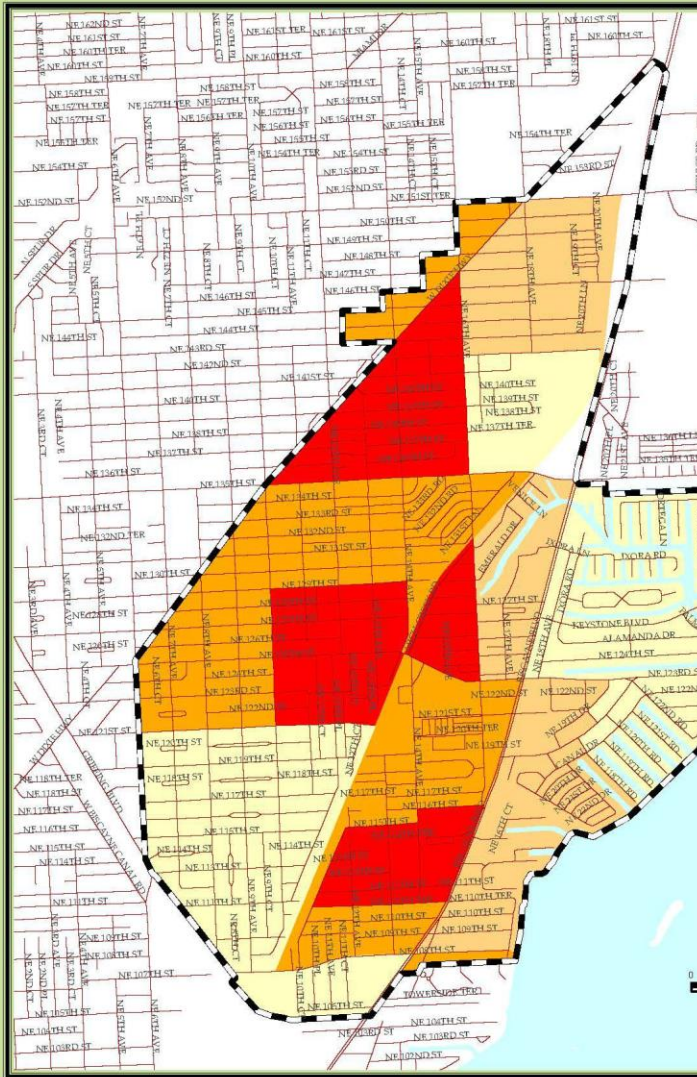
Critical Facilities Legend

Storm Surge Inundation - Cat 5

- Dry
- 0 - 0.5 ft
- 0.5 ft - 1.5 ft
- 1.5 - 3 ft
- 3 - 5 ft
- 5 - 7 ft
- 7 - 10 ft



ARCH CREEK PERCENT INDIVIDUAL POVERTY



Legend

Percent Individual Poverty

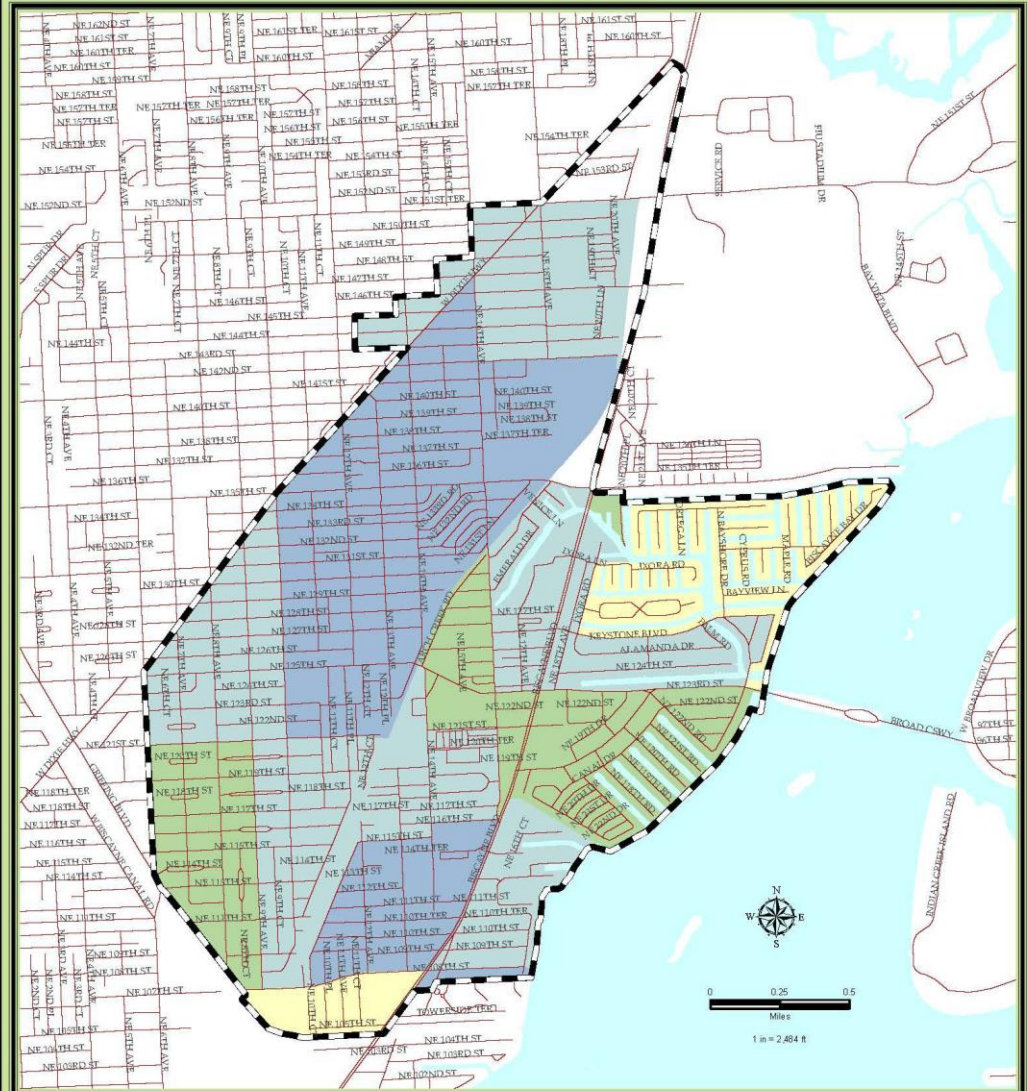
by Census Block Group using ACS 5y 2014 Data

- Less than 15.6%
- 15.6 - 21.1%
- 21.2 - 41.4%
- 41.5% or Greater

Arch Creek Boundary

Streets

ARCH CREEK COST BURDENED RENTERS



Legend

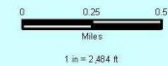
Cost Burdened Renters

Gross Rent as a Percent of Household Income

- Less than 30.0%
- 30.1 - 50.0%
- 50.1 - 75.0%
- Greater than 75.0%

Arch Creek Boundary

Streets



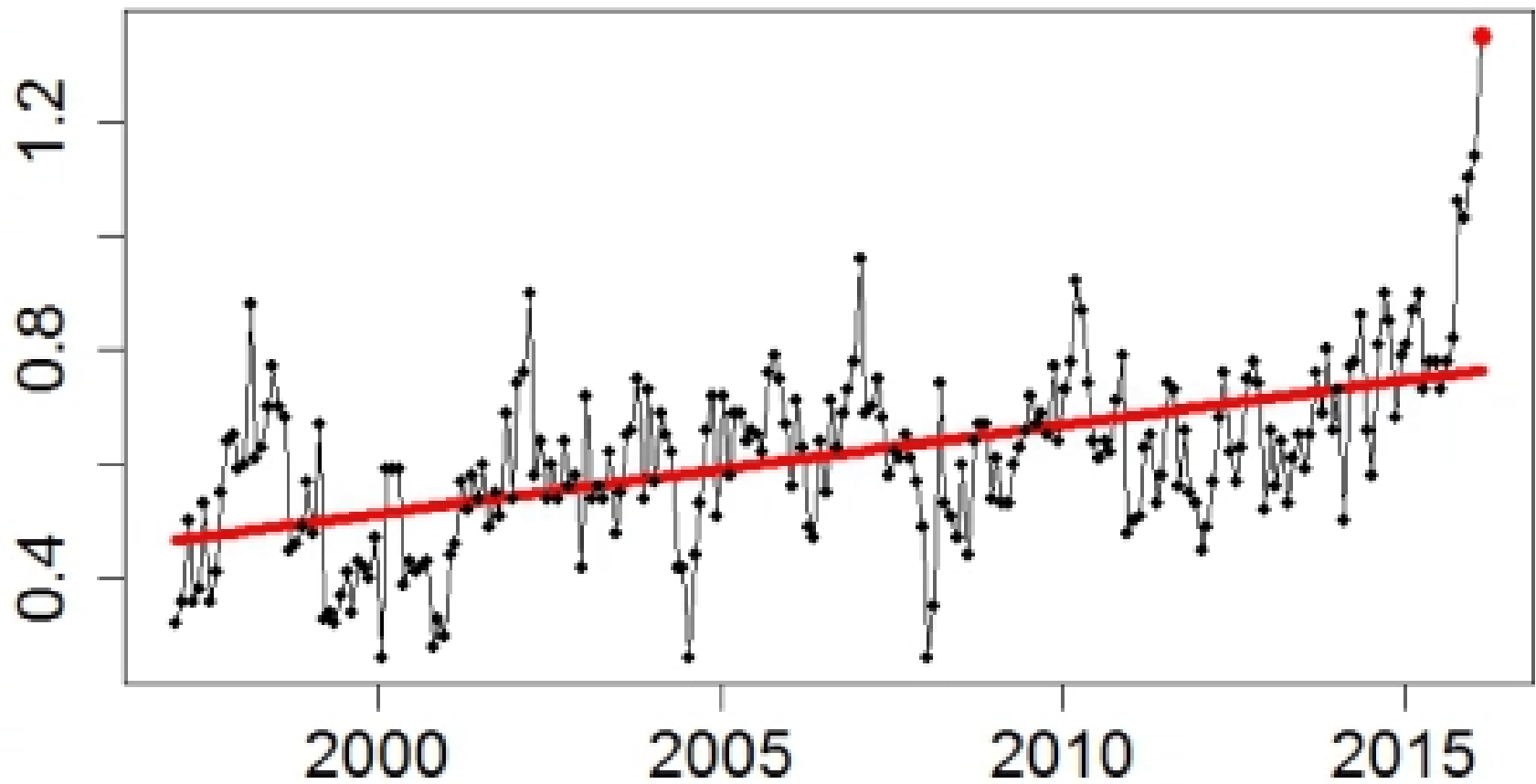
Regulatory and Economic Resources Department
Planning Research & Economic Analysis Section

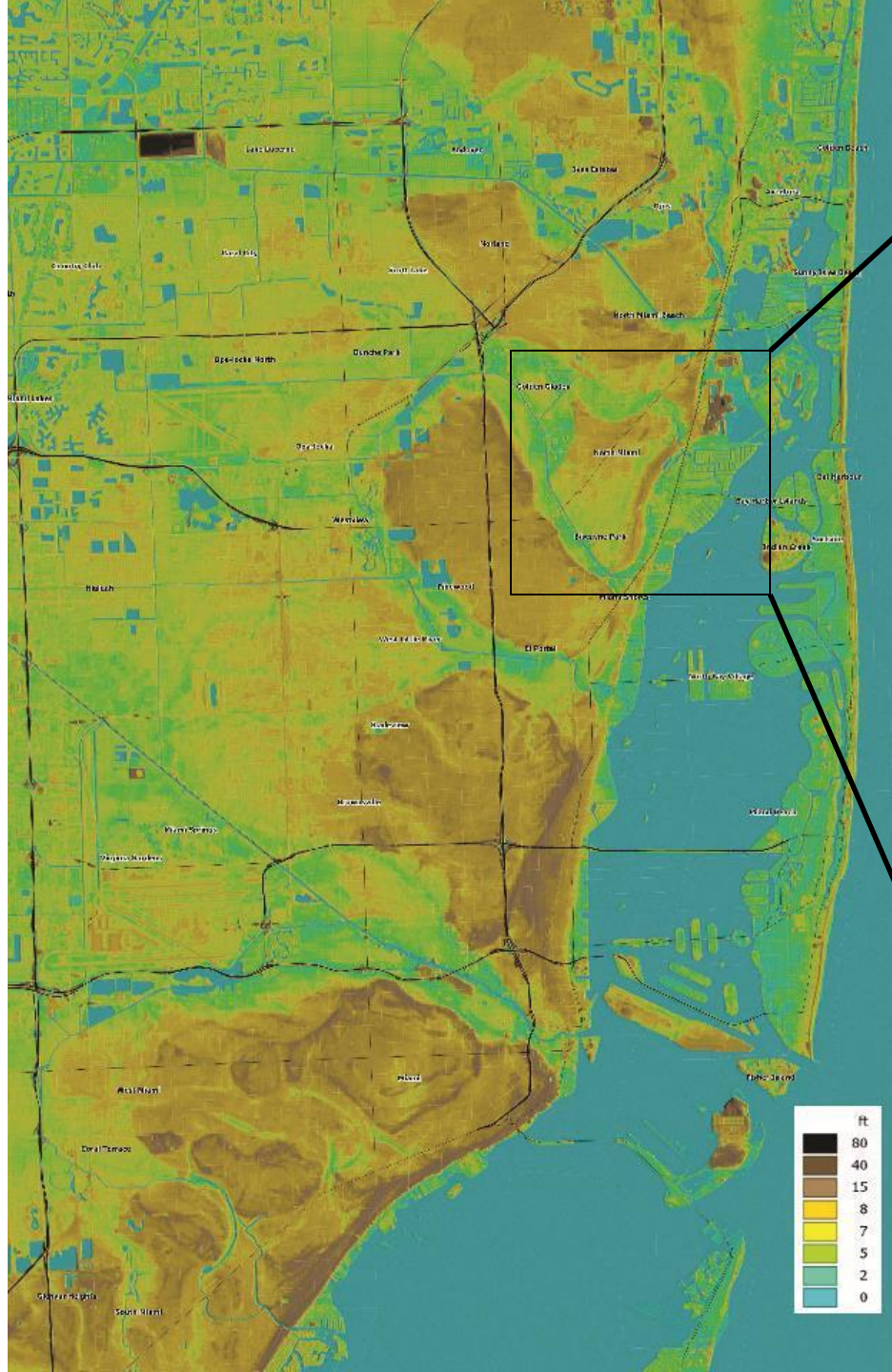
Delivering Excellence Every Day

April 2016

NASA

Temperature Anomaly (deg.C)





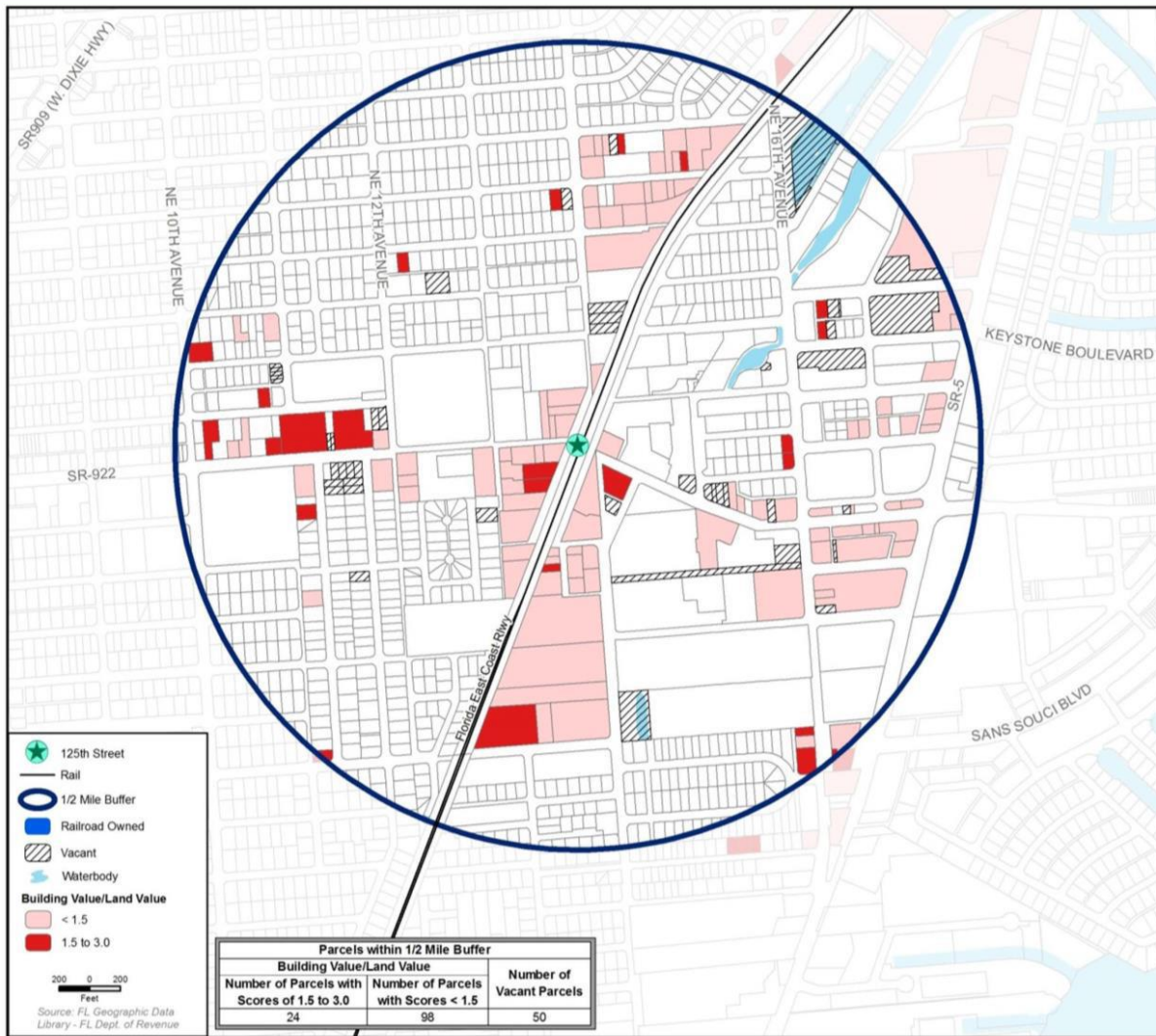
WATERFRONT SITE



RIDGE (TOD) SITE

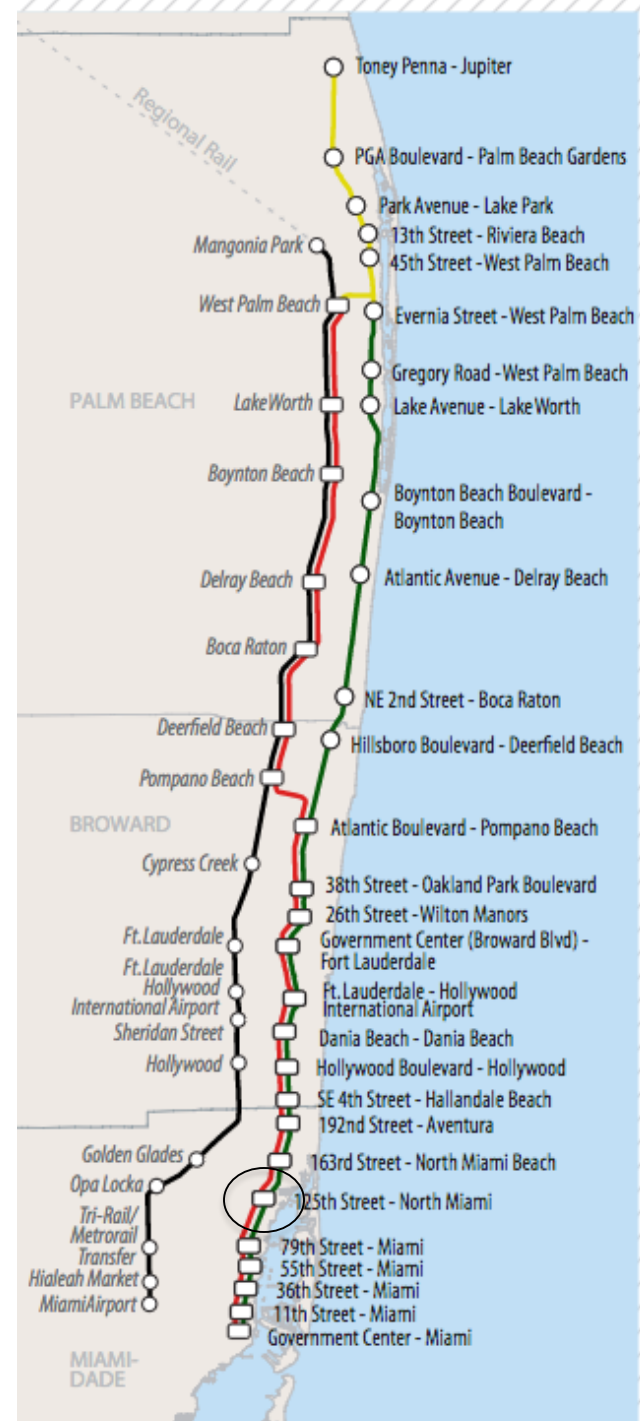


Vacant and Potential Redevelopment Parcels



Vacant & Potential Underutilized Parcels

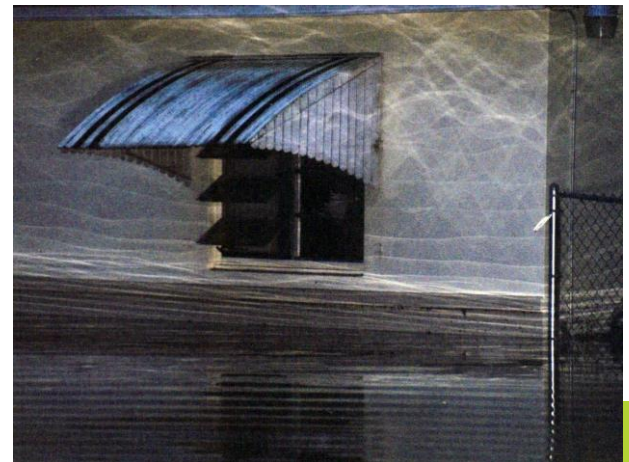
Type	Parcels	Total SF(m)
Vacant Residential	15	0.2
Vacant Nonresidential	35	0.5
Total Vacant	49	0.7
BV:LV < 1.5	98	2.5
BV:LV 1.5 – 3.0	24	0.5
Total Vacant & Underutilized	171	3.7

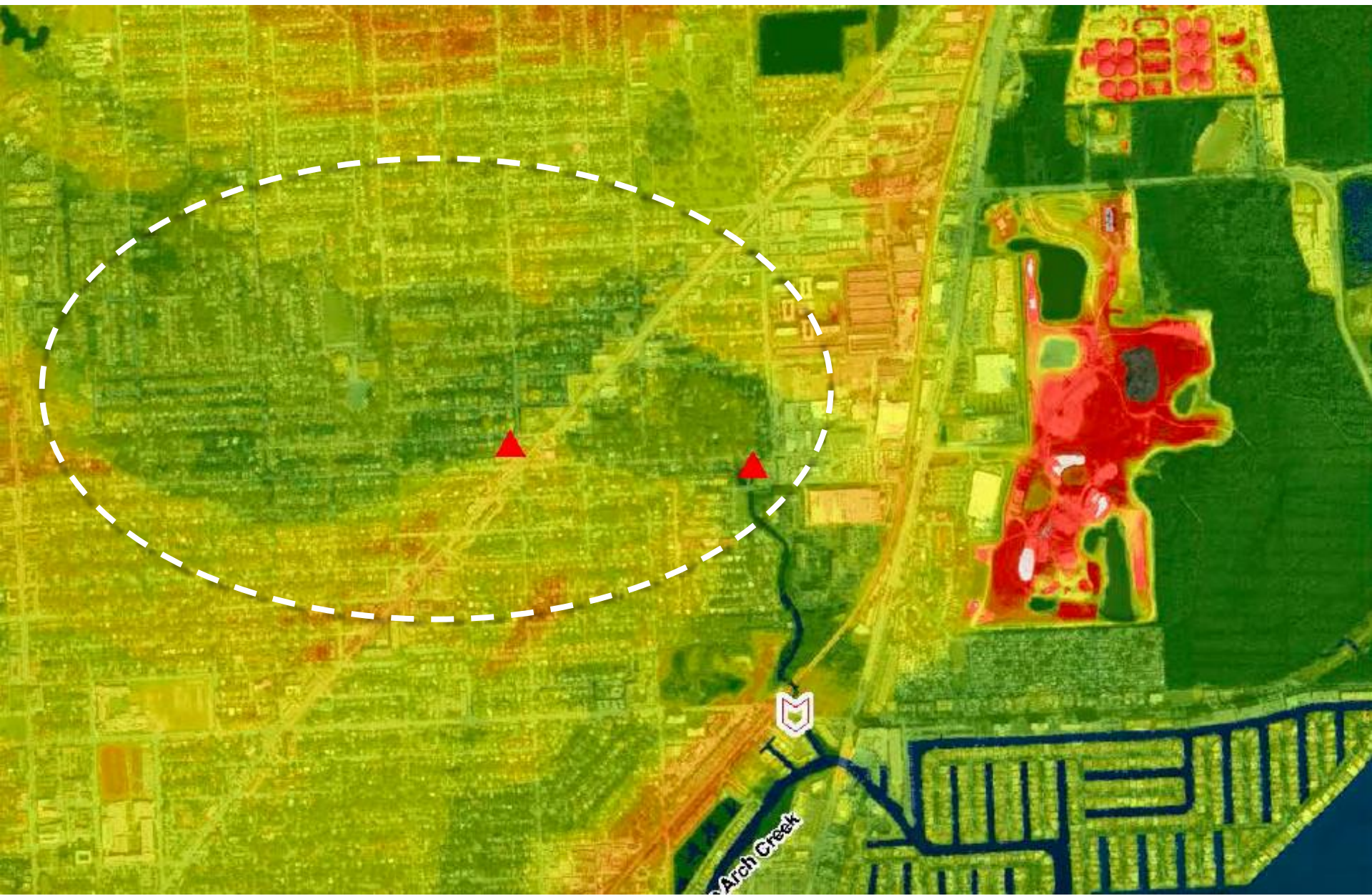


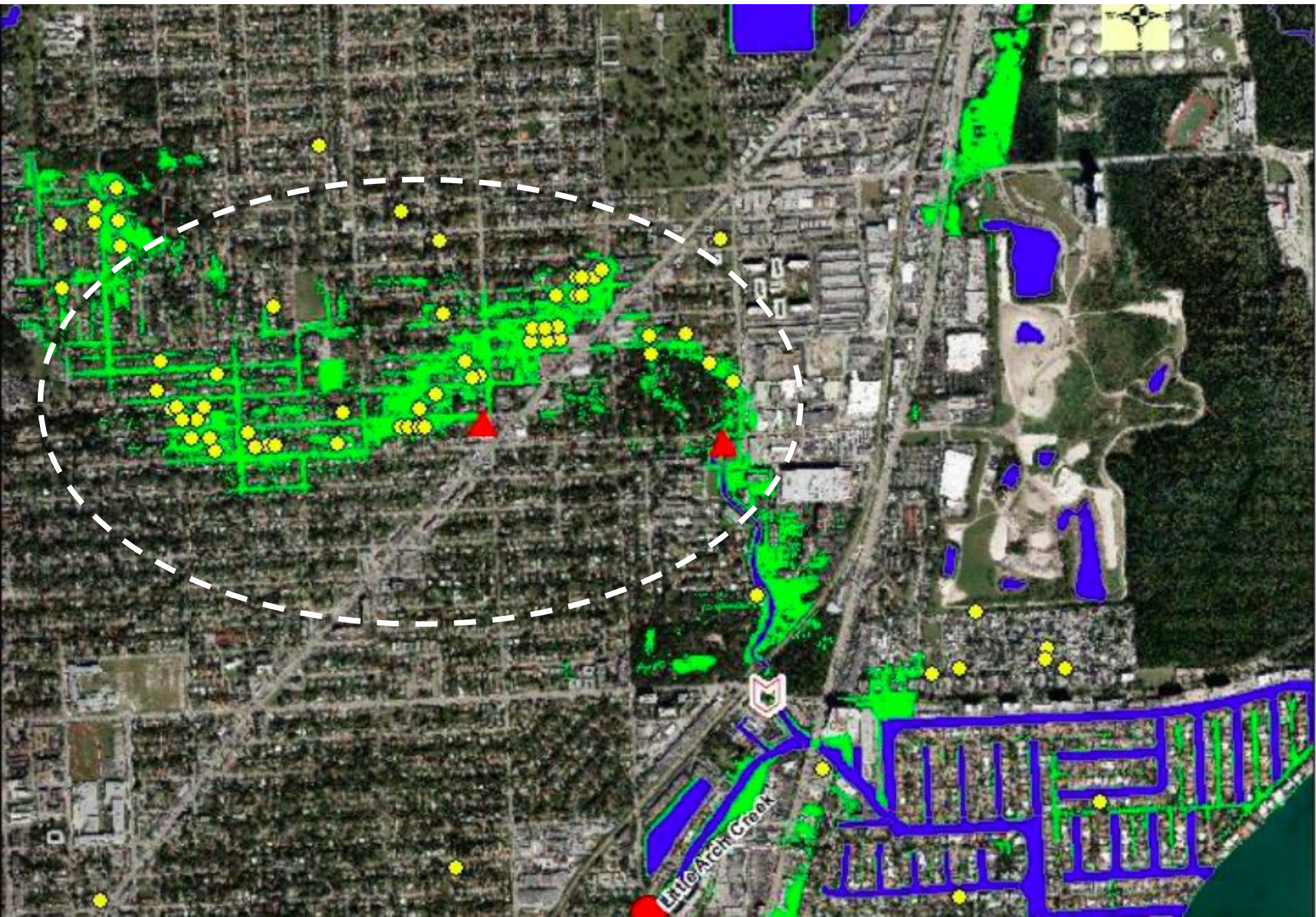
INLAND SITE









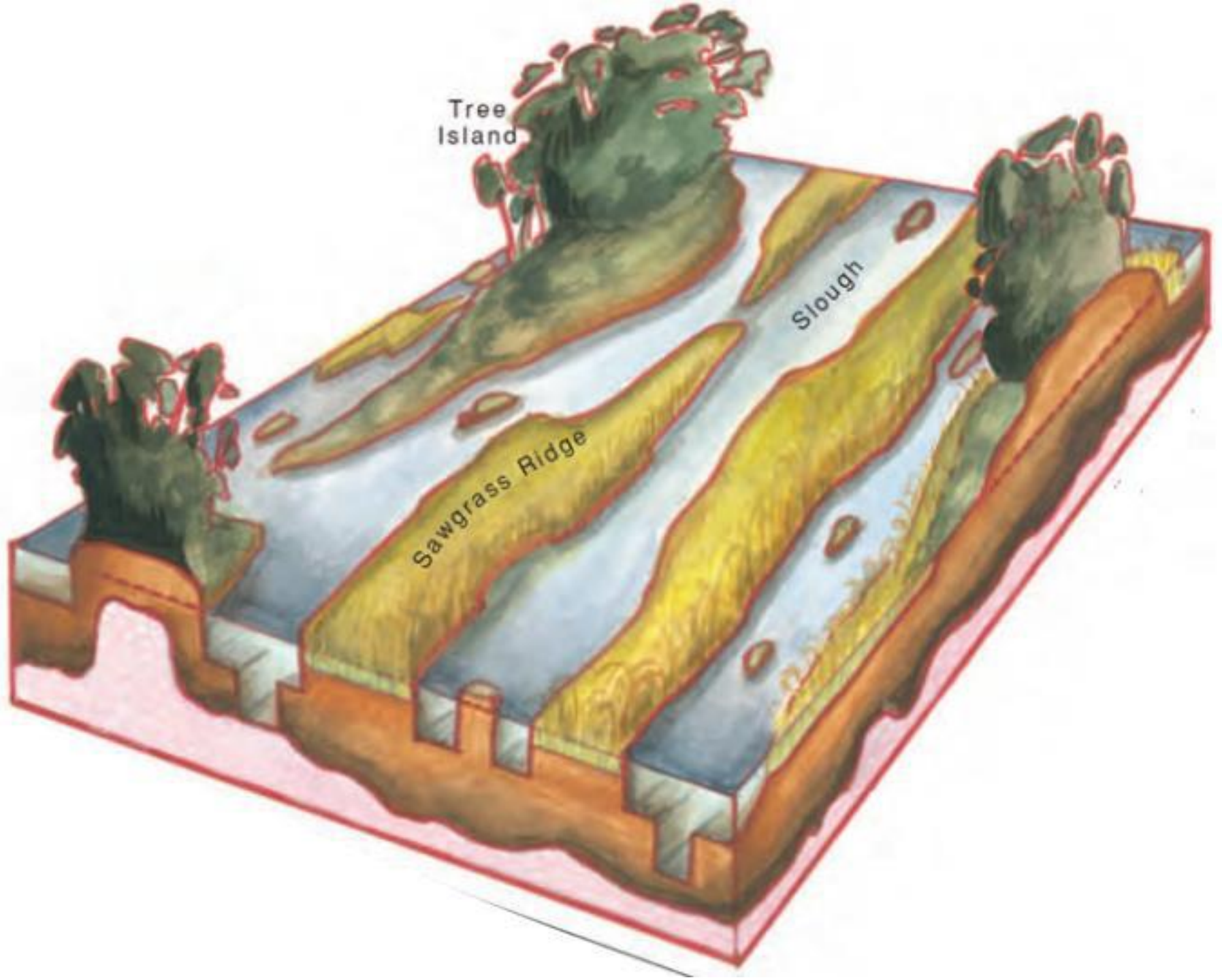






approximate
elevation feet

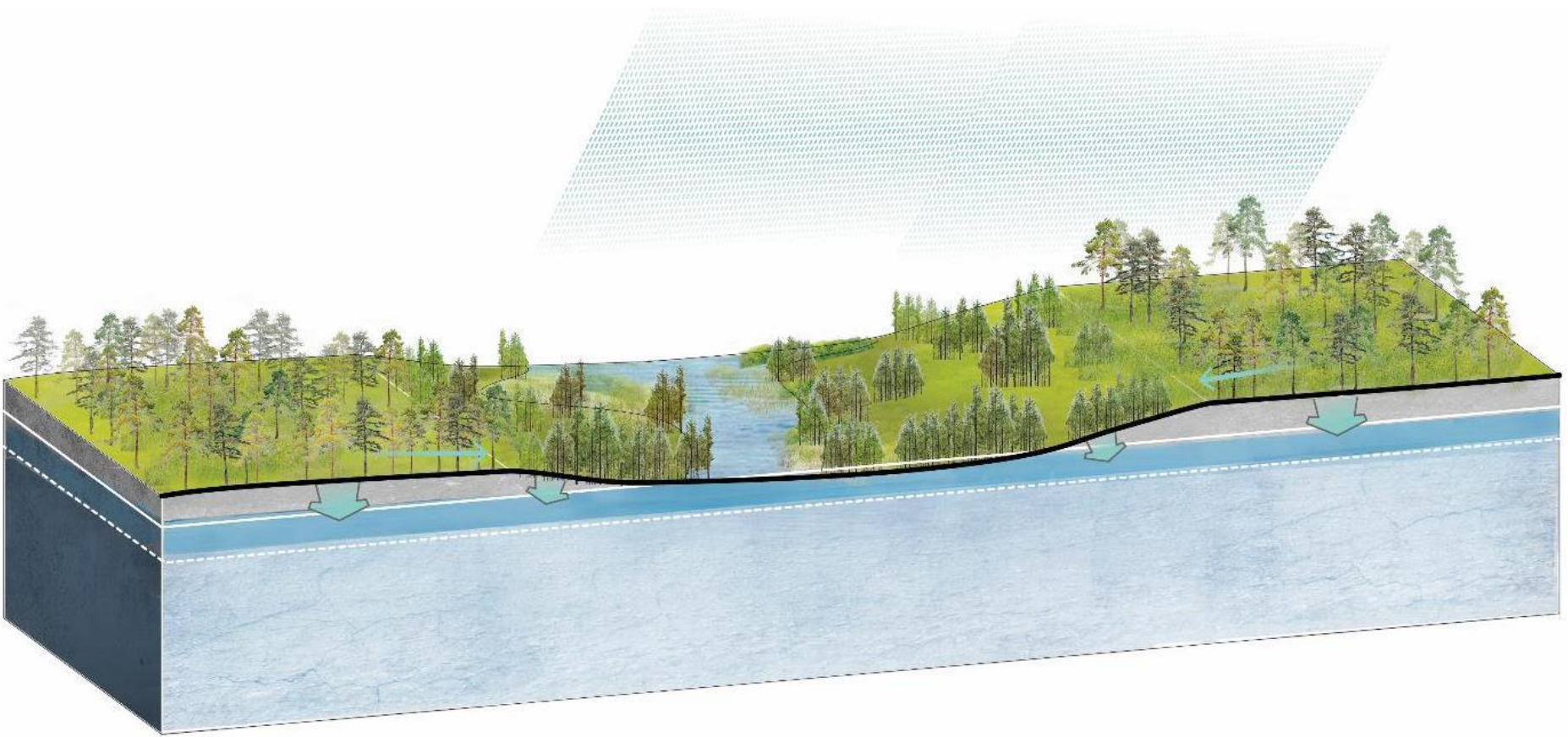


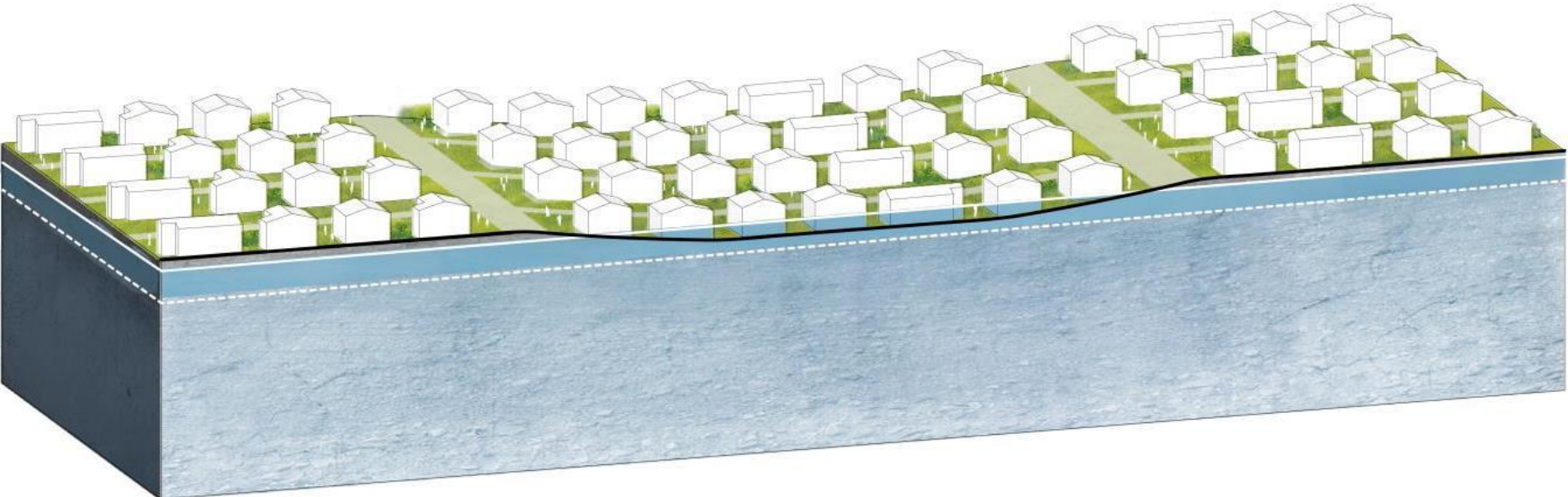


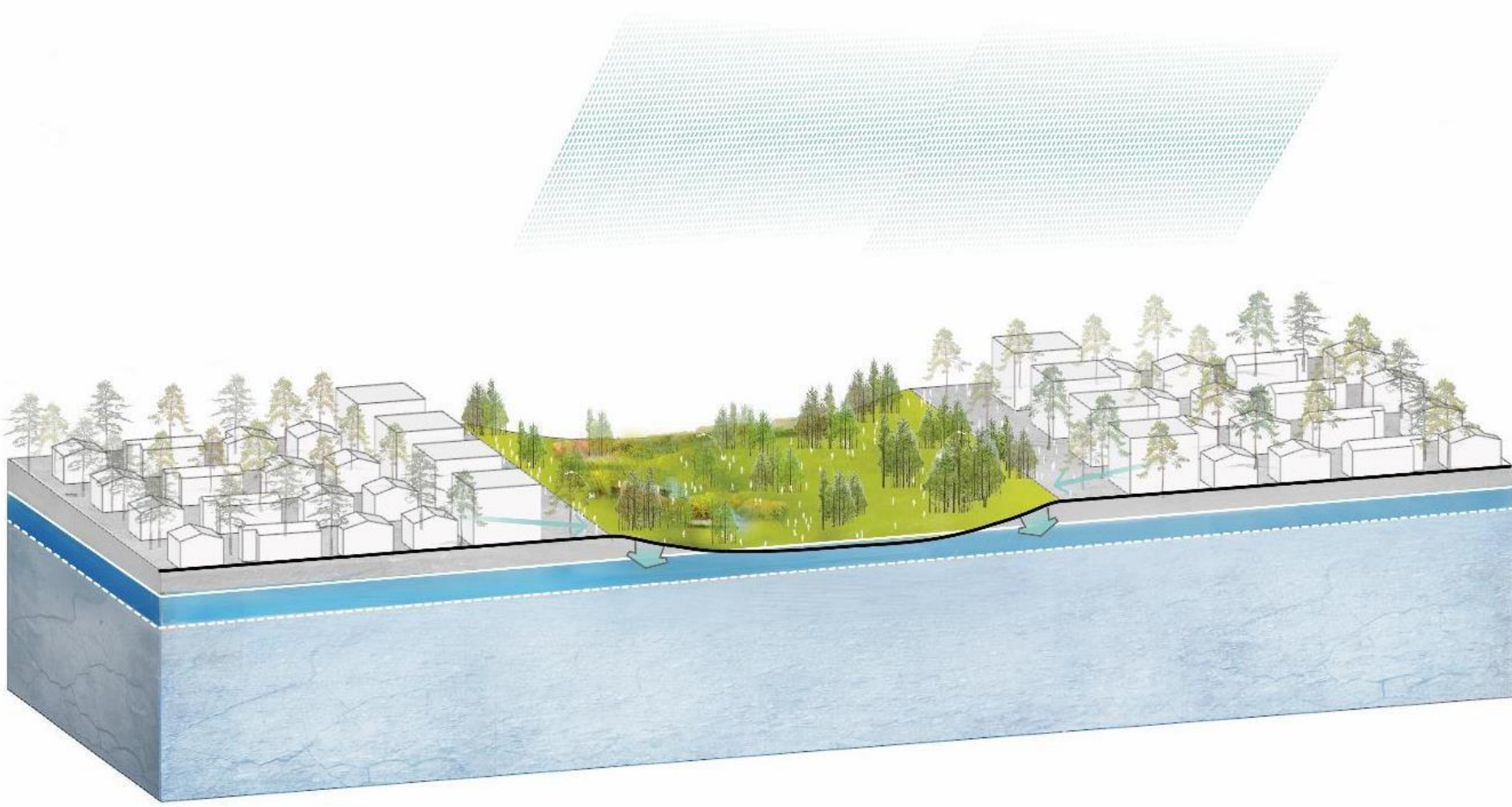
Tree
Island

Slough

Sawgrass
Ridge









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THANK YOU

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