

Welcome!



THE UNDERLINE PHASE 3

PUBLIC MEETING CYCLE #3- OCTOBER 10 AND 11, 2023

PRESENTED BY

MIAMI-DADE COUNTY DEPARTMENT OF
TRANSPORTATION AND PUBLIC WORKS (DTPW)

Agenda

Meeting Guidelines

Introductions

Design and Construction Presentation

Q&A Session

Final Design Display

Guidelines

In an effort to maintain a safe and respectable forum, we ask that participants abide by the following guidelines during the designated Q&A portion.

- Use an index card to write down your question.
- Pass it to a volunteer
- Questions and comments will be selected for discussion after the presentation.

Welcome

Meg Daly

Founder / CEO Friends of The Underline

Welcome

Irene Hegedus

Chief of Transportation Enhancements + Special Projects

Miami-Dade County Department of Transportation and Public Works

Design-Build Joint Venture

NV2A™

CENTRAL



Design and Engineering Team



**The Underline is transforming
the land below Miami's
Metrorail into a 10-mile linear
park, urban trail, and public art
destination.**

3 key priorities for The Underline:

- **safe multi-modal transportation**
- **nature**
- **community**



Safety: dedicated biking and walking paths, lighting and improved crosswalks.

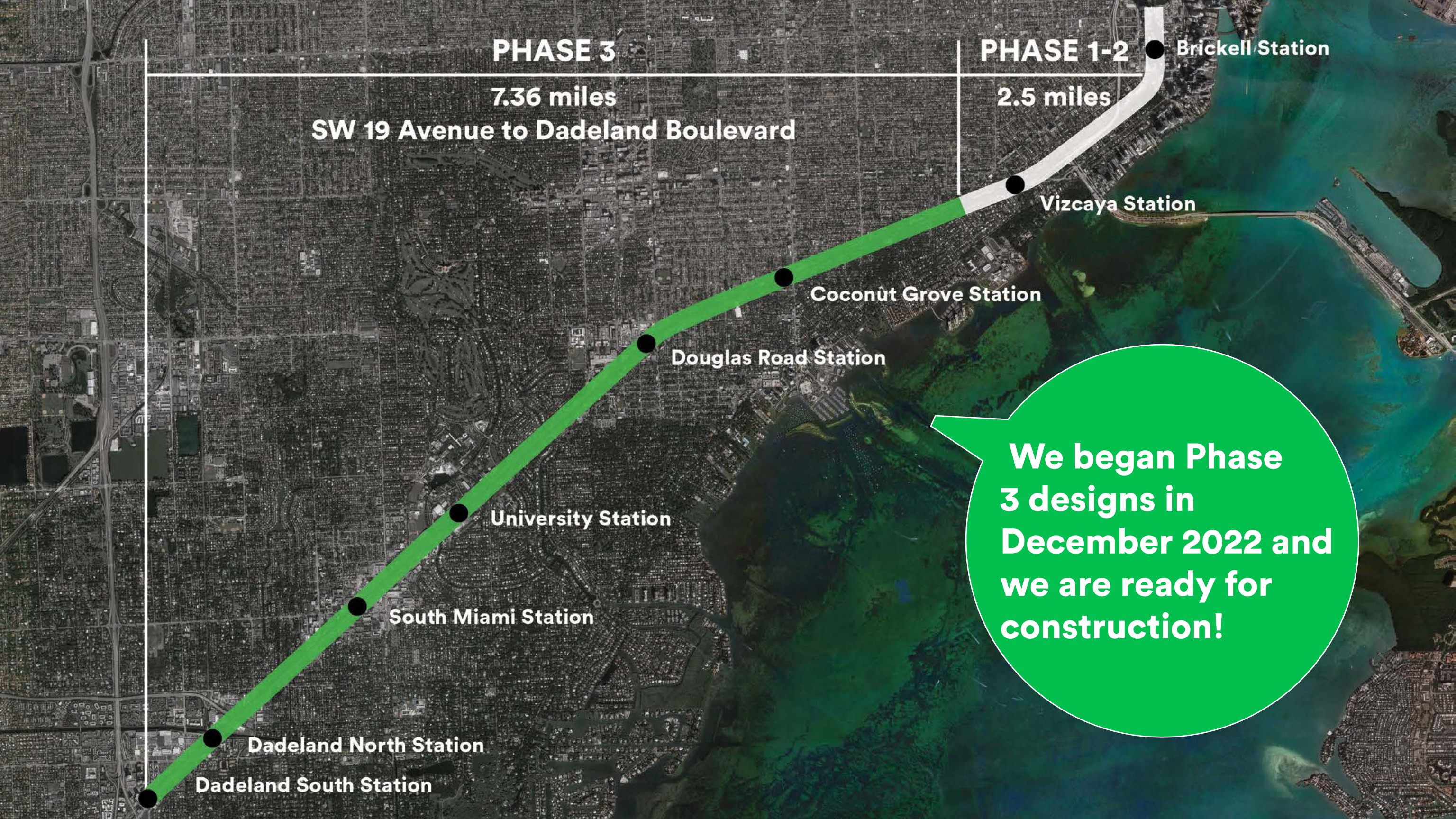


Nature: native vegetation inspired in local plant communities of South Florida.



Community: connecting people to their environment and each other.

Why are we here?



PHASE 3

7.36 miles

SW 19 Avenue to Dadeland Boulevard

PHASE 1-2

2.5 miles

Brickell Station

Vizcaya Station

Coconut Grove Station

Douglas Road Station

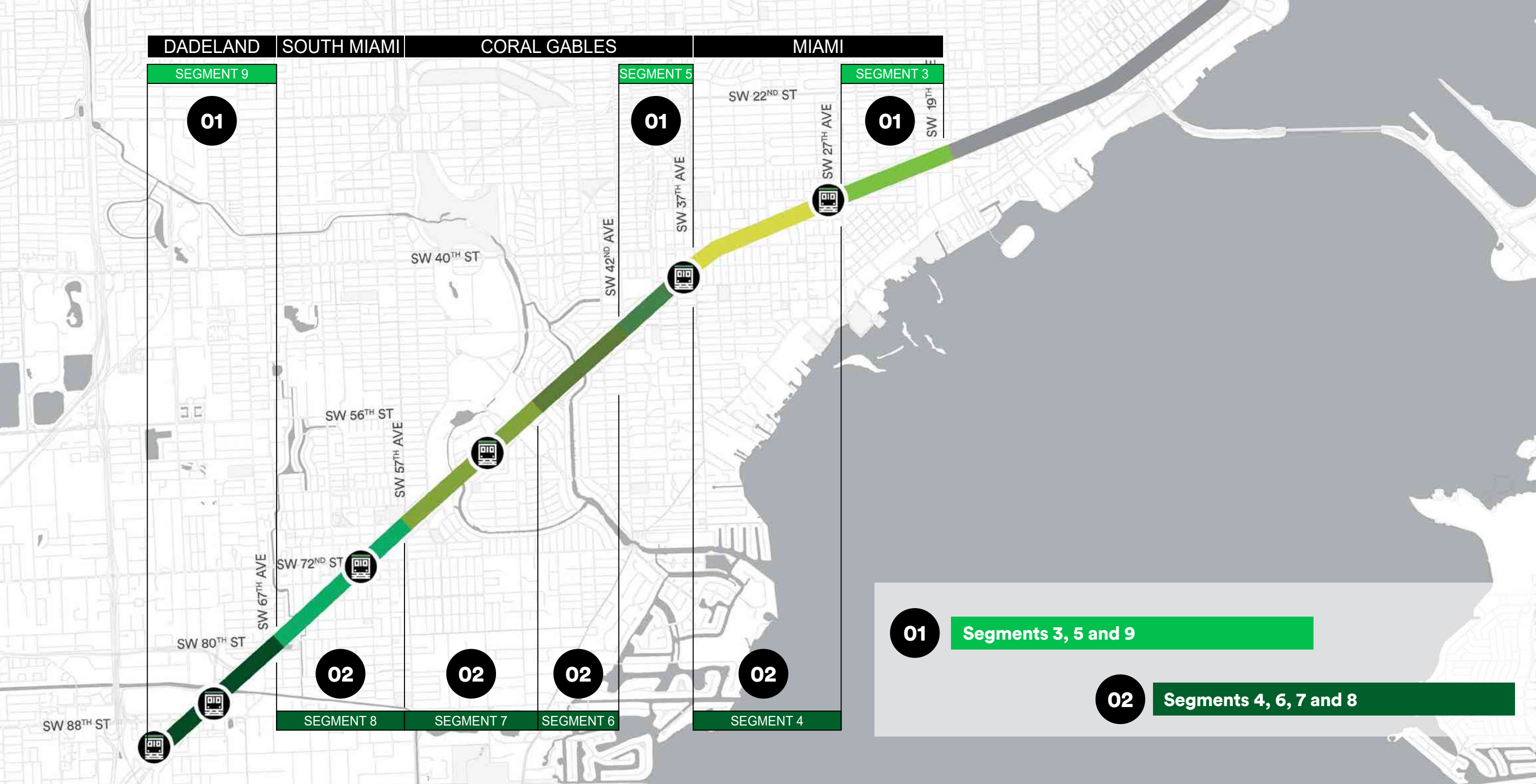
University Station

South Miami Station

Dadeland North Station

Dadeland South Station

We began Phase 3 designs in December 2022 and we are ready for construction!



The Underline Phase 3: the seven segments will be built in two stages



First Construction Stage

- Segment 3 - from SW19th ave to SW 27th ave
- Segment 5 - from SW38th ave to sw42nd ave
- Segment 9 - from SW67th ave to Dadeland South Station

The Underline Phase 3: the first construction stage will include Segments 3, 5 and 9

Three public meeting cycles total:

1: listening (completed in December, 2022)

2: initial ideas (completed in May / June 2023)

**3: final design & construction information
for segments 3, 5 and 9 (today!)**



BOARD 5: WHAT ELSE?

Give us your feedback on priorities, opportunities, constraints and concerns for Phase 3.

PHASE 3
V 19 Avenue to Dadeland

The Underline

making the general pathways skateboard and rollerskate friendly

Impact reducing surfaces
Elevation changes hills
Clear glass separator between us1 and underline for a section

...parking lot between library and city hall can be enhanced to be a great public space for special events; also places to read with wifi, with seating

...safe crossings to our somi main street, thanks, diagonal crosswalk at south miami station to red rd and sunset place

...believe there is little clearance for bridge at somi metro rail stations: better to cross at grade

...Reduced turn radii

South Florida has a great need for concrete skateparks!!! skateparks bring in diverse demographics and a lot of traffic

No turn on red ...

Refugees for crossings ...

...also there is a street that terminates on the underline to the west by somi hospital, opportunity for public area

...Safety

Safety of pedestrians and bikers

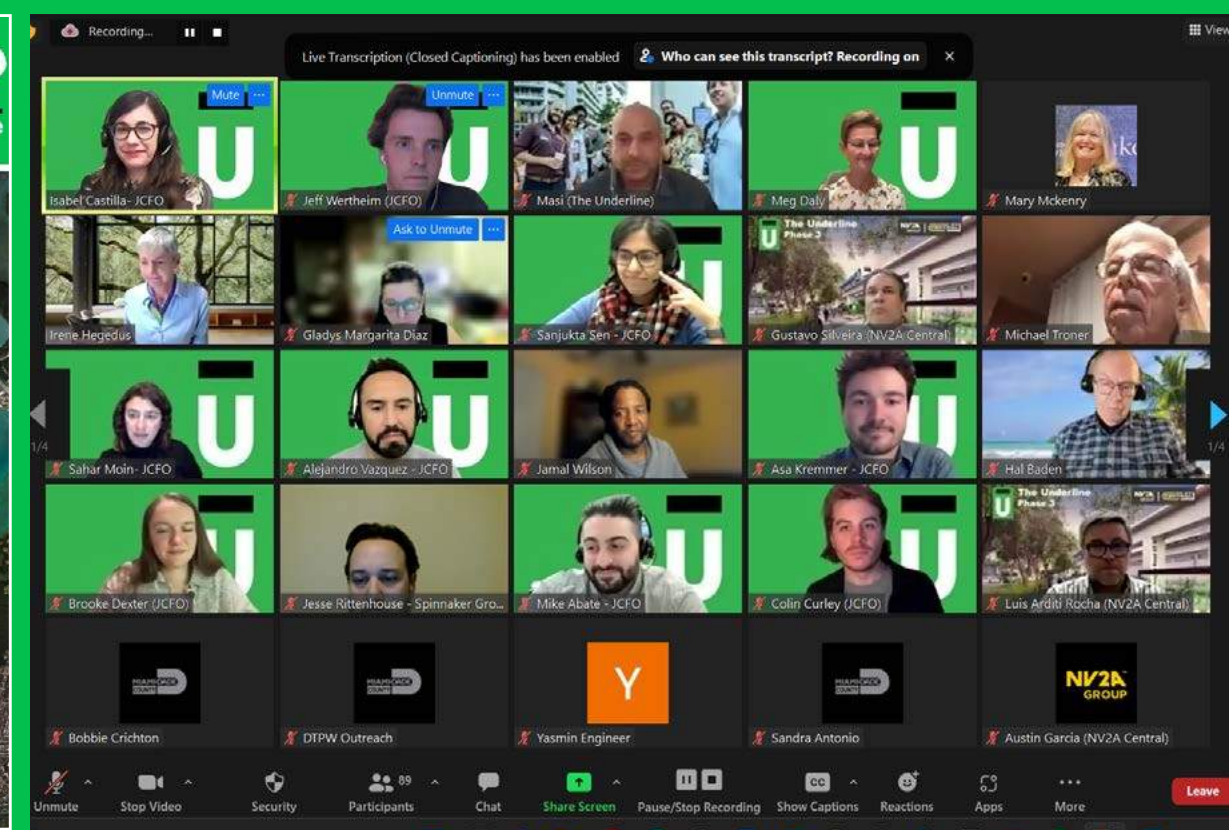
...Bicycle safety and flow. Overpasses work for bicycles.

Pickleball in Dadeland please

...connection to ludlam trail thru 70th ave please!

Overpasses will be safest solution to crossing safely while still allowing car traffic turns without delay.

Safety of pedestrians and bikers



Three public meetings where held in December 2022.



Three public meetings where held in May / June 2023.

What you told us about Phase 3.

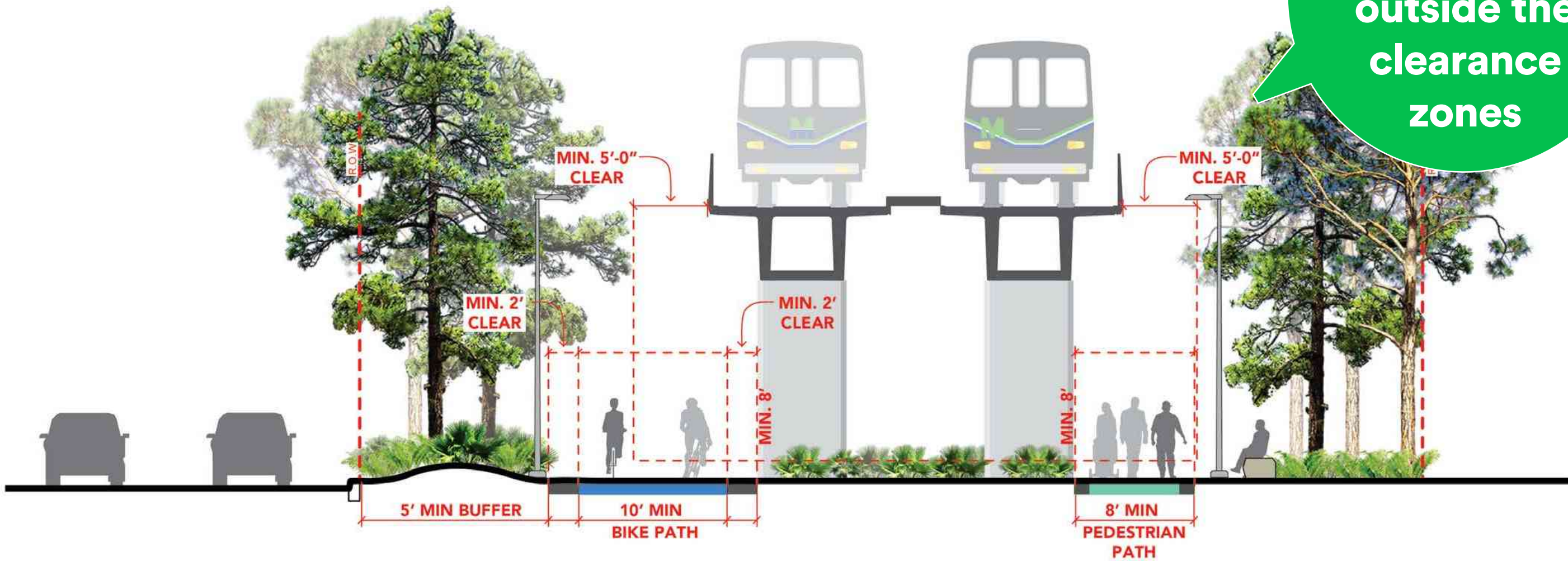
Key themes for The Underline phase 3:

- **a naturalized, urban corridor**
- **activated with interactive art & cultural events**
- **including areas for fitness & sports**
- **with food experiences**
- **prioritizing safety**



Paths & Intersections: dedicated bike and one pedestrian paths with 25 improved intersections

Trees can only be planted outside the clearance zones



ADJACENT ROADWAY

DEDICATED OFF-ROAD TWO-WAY BICYCLE PATH W/ PAVED SHOULDERS

DEDICATED PED PATH W/ PAVED SHOULDERS

ADJACENCY VARIES (ROADWAY, COMMERCIAL OR RESIDENTIAL)



planted buffer along US-1

dedicated pedestrian path

dedicated bike path

2'

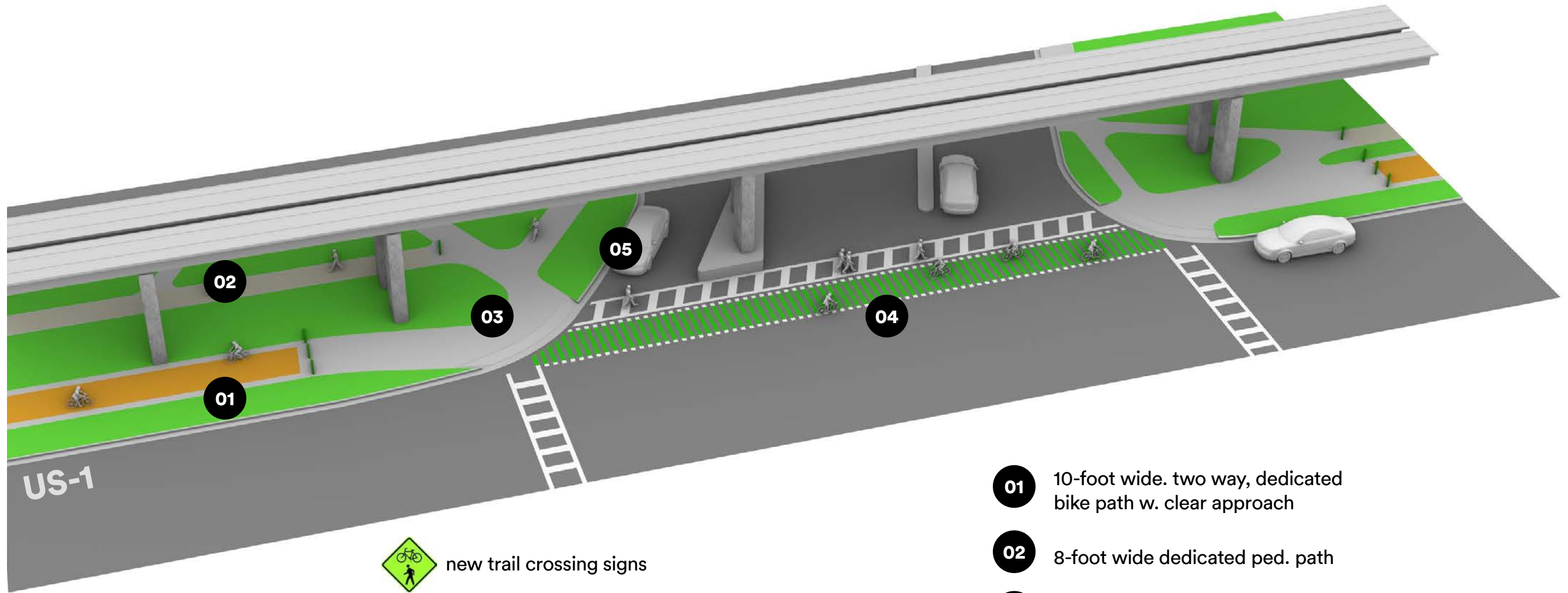
10'


2'

Bike Path: one dedicated, two way, 10-foot wide bike path with a min. 5-foot planted area along US-1



Pedestrian Path: one dedicated, 8-foot wide pedestrian path with seating areas

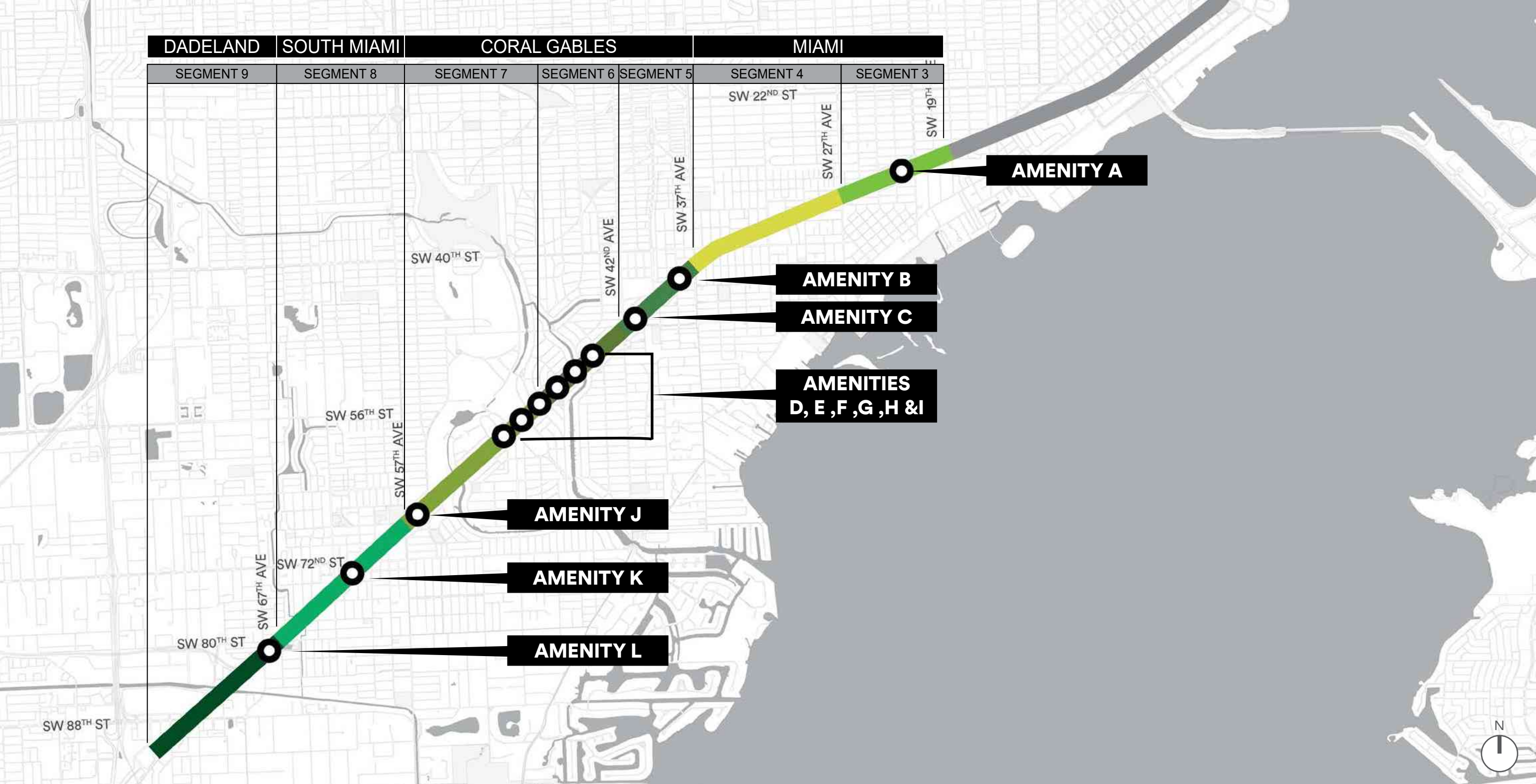


 new trail crossing signs

   **3 to 5 second** leading pedestrian / bike interval

- 01** 10-foot wide, two way, dedicated bike path w. clear approach
- 02** 8-foot wide dedicated ped. path
- 03** intersection plaza with ample space for waiting
- 04** dedicated & straight bike and pedestrian crossings
- 05** sidewalk setback from roadway with planted buffer

Intersections: SW22nd Avenue proposed improvements



The Underline Phase 3: 12 new, community spaces

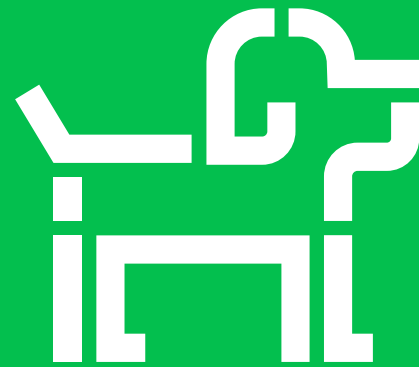
A- GROVE GALLERY



B- THE UNDERLINE PLAZA



C- BARK PARK



D- FITNESS ROOM



E- WATER BALCONY *

* Will include a kayak launch in a future PROS project



F - RAIN GARDENS



G - STORMWATER PONDS



H- PINELAND COURTS



I- ROCK RIDGE PLAZA

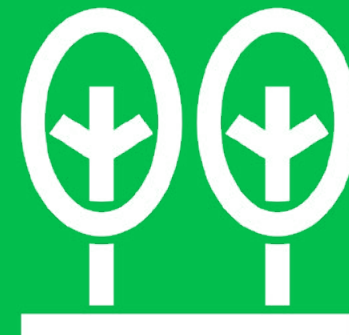


J- THE U SKATE PARK**



** Space pending funding

K- PLAY FOREST



L- BUTTERFLY GARDENS



A- GROVE GALLERY



B- THE UNDERLINE PLAZA



C- BARK PARK



D- FITNESS ROOM



E- WATER BALCONY *

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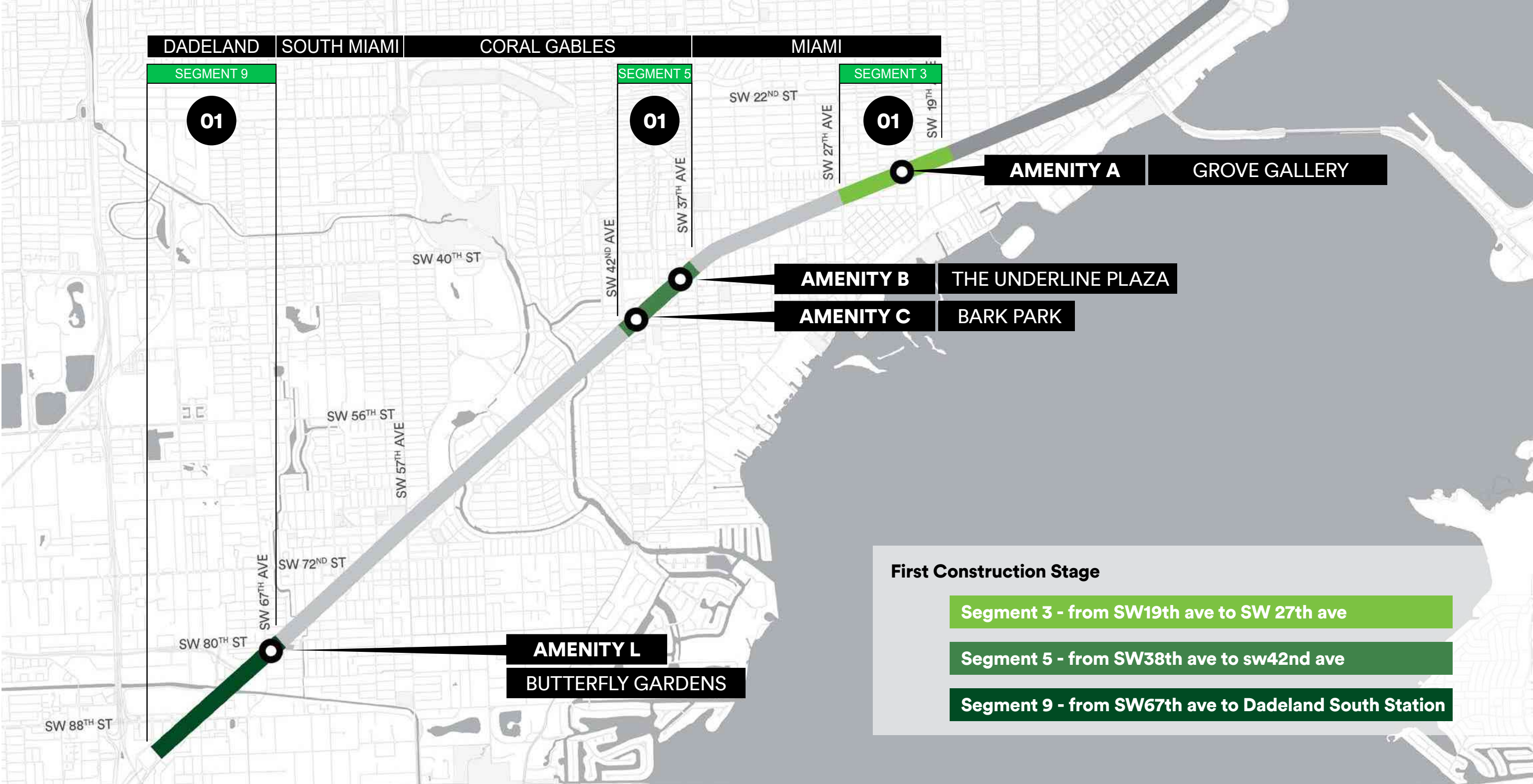
** Space pending funding

K- PLAY FOREST



L- BUTTERFLY GARDENS





First Construction Stage

- Segment 3 - from SW19th ave to SW 27th ave
- Segment 5 - from SW38th ave to sw42nd ave
- Segment 9 - from SW67th ave to Dadeland South Station

The Underline Phase 3: the first construction stage will include four community spaces

A- GROVE GALLERY



B- THE UNDERLINE PLAZA



C- BARK PARK

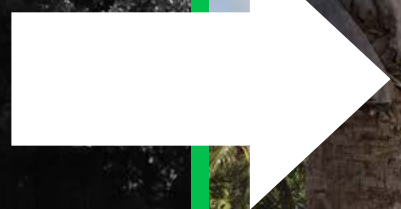


L- BUTTERFLY GARDENS





Phase 1 Brickell Backyard- Before



Phase 1 Brickell Backyard- After

Planting: creating a new urban ecological corridor

The Underline phase 3

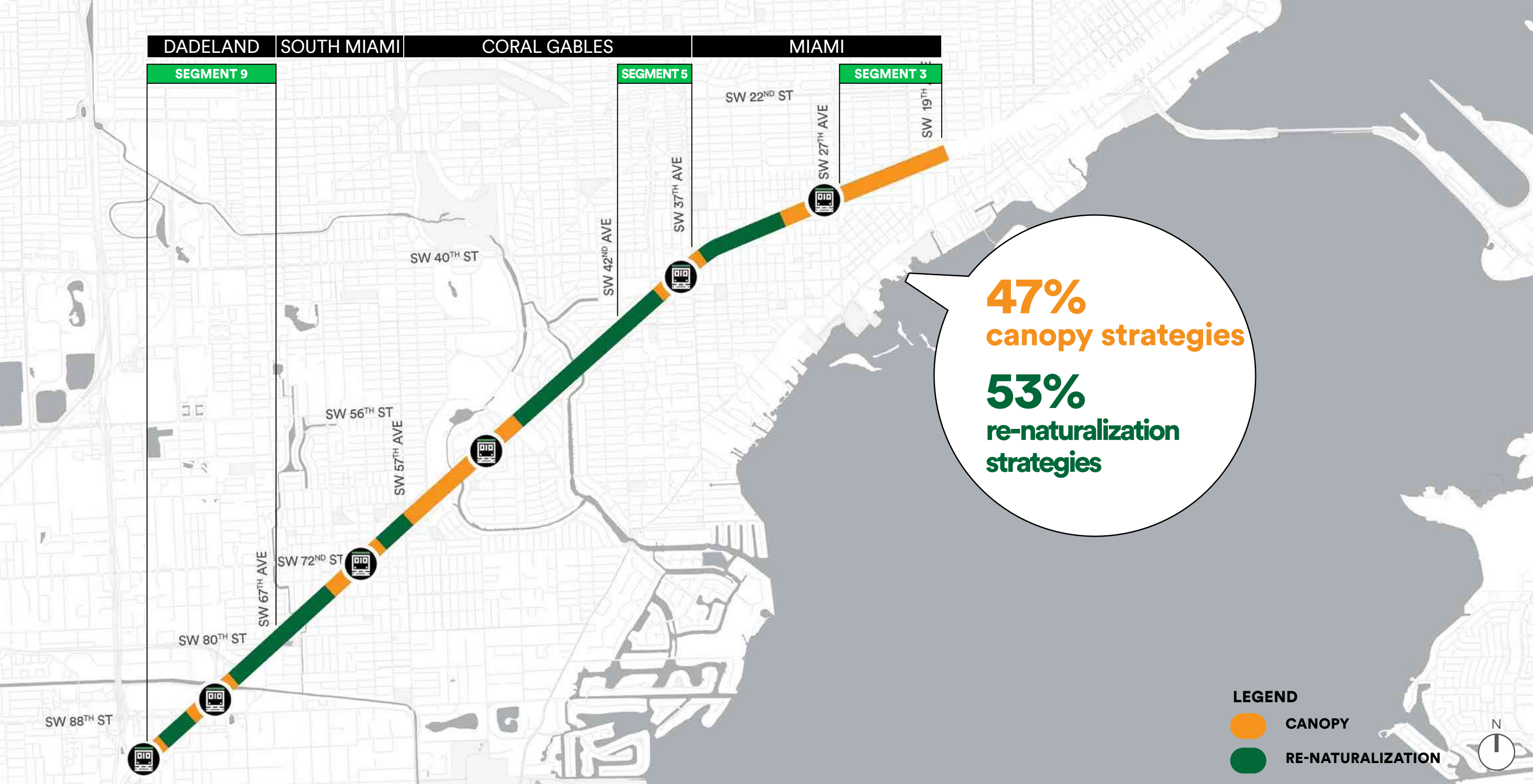
primary planting goals include:

- #1 preservation of existing & healthy canopy
+ addition of new canopy**
- #2 re-introduction of native plant communities**
- #3 improve site resilience with bioretention
& rain gardens**
- #4 support ecological functions with new habitats**

When complete, The Underline phase 3 will include **3,960 trees and palms!**

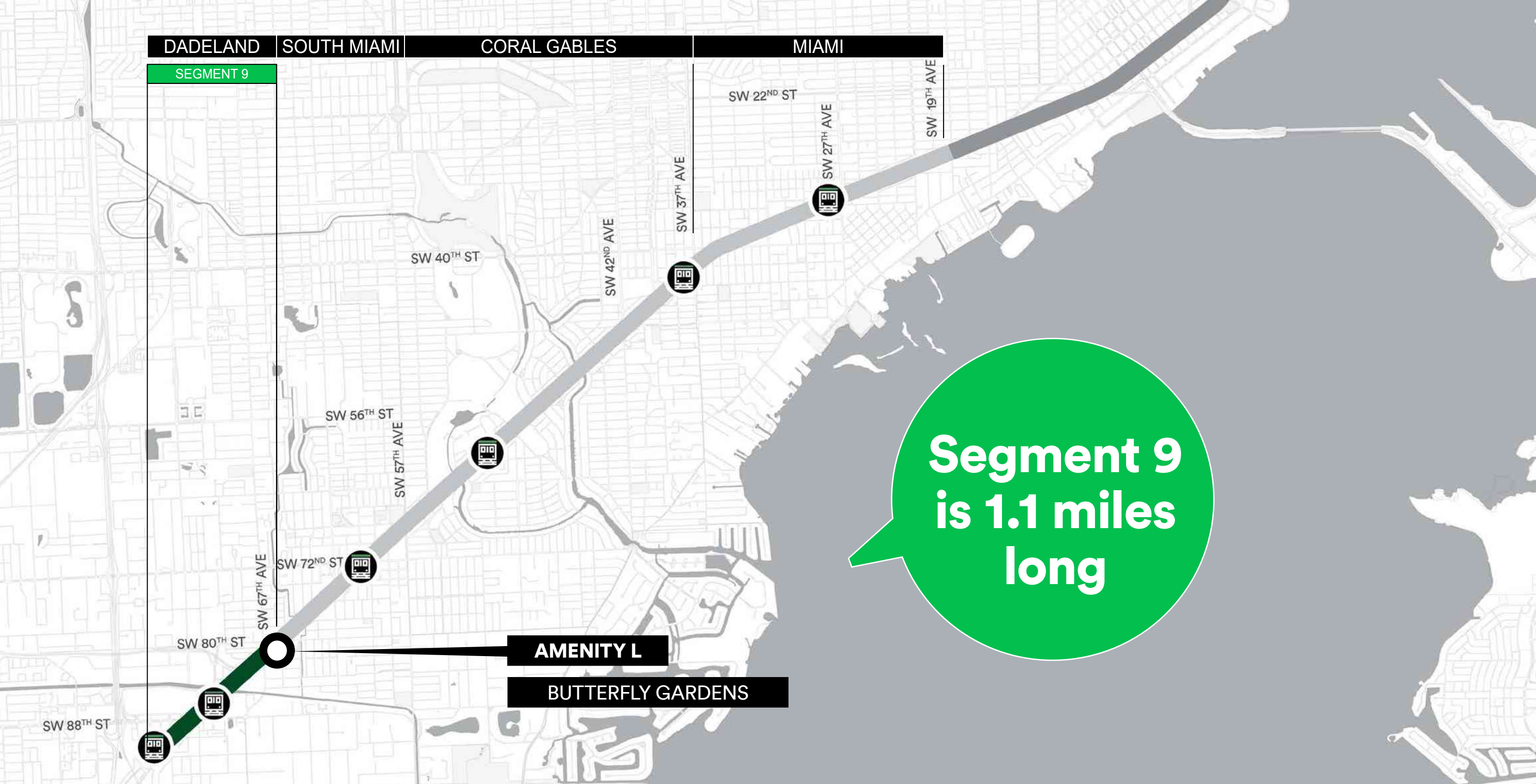
- **1,688 to remain in place**
- **472 to be relocated on site**
- **1,800 new trees and palms**

Increasing trees and palms by **62.5%!**



Planting: Two strategies for the creation a new urban ecological corridor

Segment 9
Tree Management
& Planting Strategy

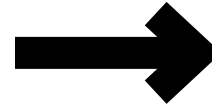


Segment 9 : from Dadeland South Station to SW 80th St.

EXISTING CONDITION

349 TREES

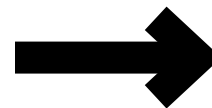
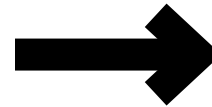
- **264 TREES TO REMAIN**
- **76 TREES TO BE RELOCATED**
- **9 TREES TO BE REMOVED**
No specimen trees will be removed.
2 are dead, prohibited or in poor health.
7 are in conflict with design elements



PROPOSED CONDITION

543 TREES (56% INCREASE)

- **264 TREES TO REMAIN**
- **76 RELOCATED TREES**
- **203 NEW TREES**
24 are required for mitigation.
179 are in addition to mitigation requirements!
- **2 MICRO-FORESTS**
1,279 saplings!





1 SPARSE MATURE TREES BY PARKING LOTS



2 SABAL PALM & CLUSIA THICKET

DADELAND BLV

DADELAND MALL

SNAPPER CREEK EXPY.

SW 80TH ST

SW 67TH AVE



1

2

3

US-1

US-1

US-1

KENDALL DR.






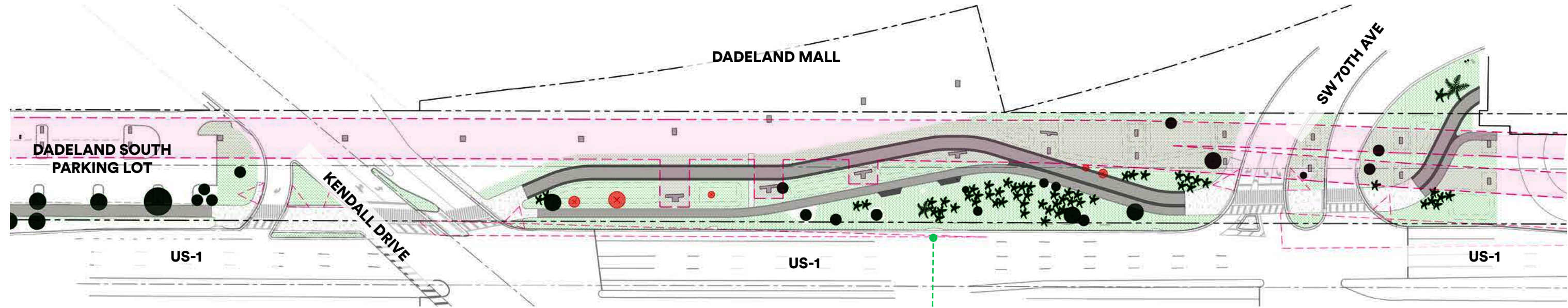
3 BLACK OLIVE GROVE BY SOMI BIKE STORE

Segment 9: 349 Existing Trees Evaluated by a Certified Arborist



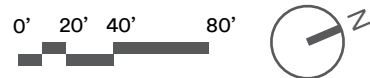
LEGEND

-  TREES TO REMAIN OR RELOCATE
-  TREES TO REMOVE
-  GUIDEWAY CLEARANCE AND TRAFFIC VIEW TRIANGLES



PRESERVE THE SABAL PALM & CLUSIA THICKET

Segment 9 : Plan overlay of existing trees over proposed design



LEGEND



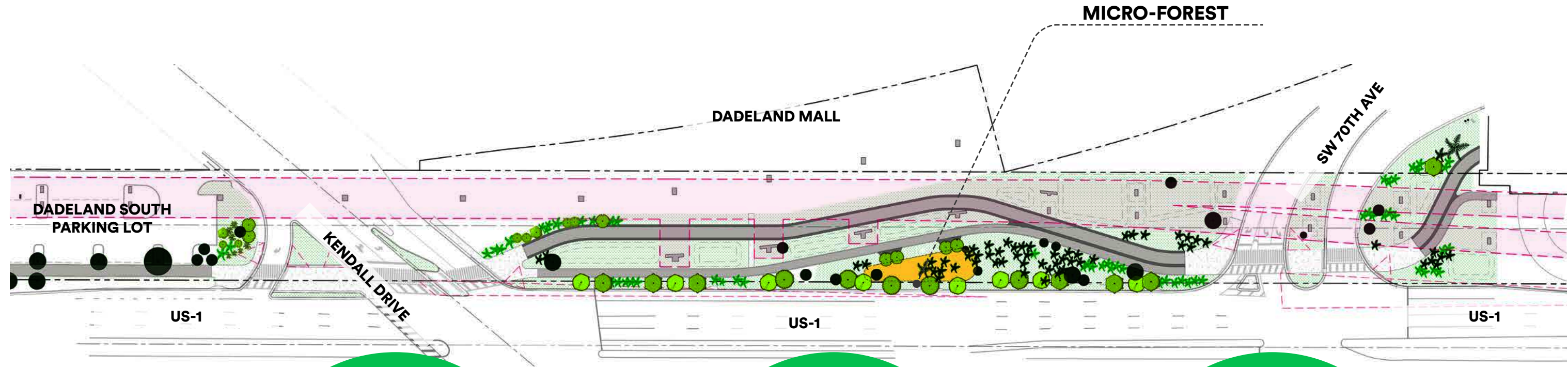
NEW PROPOSED TREES



TREES TO REMAIN OR RELOCATED



GUIDEWAY CLEARANCE AND TRAFFIC VIEW TRIANGLES



56%
increase in
number of trees

36
different species
of trees, shrubs
& groundcover

97%
native
species

Segment 9 : New Canopy Plan



LEGEND

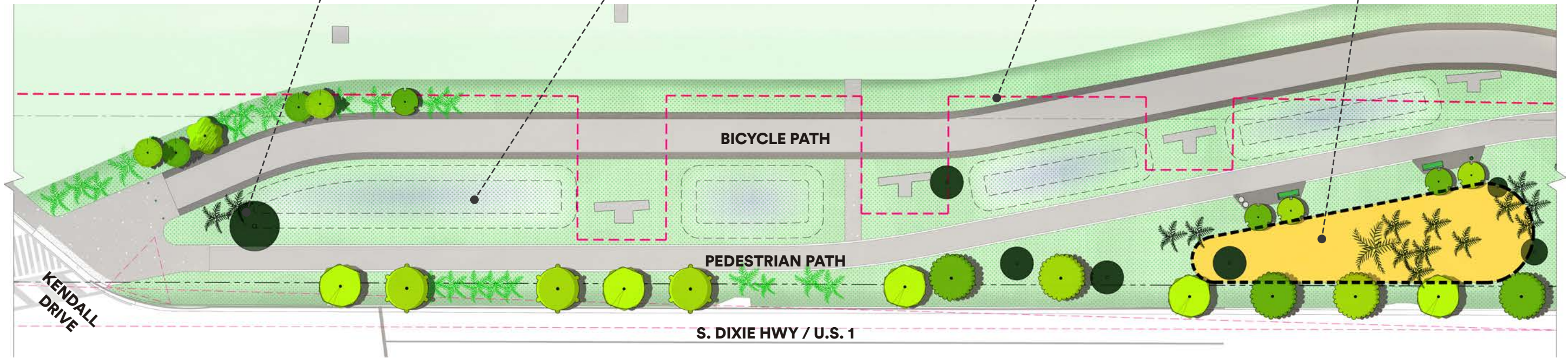
GUIDEWAY CLEARANCE

EXISTING CANOPY TO REMAIN TYP.

BIORETENTION BASINS

GUIDEWAY CLEARANCE

MICRO-FOREST 1
2,000 SF



Juncus effusus
Soft Rush



Spartina bakeri
Cordgrass



Hymenocallis latifolia
Spider Lily



Simarouba glauca
Paradise Tree



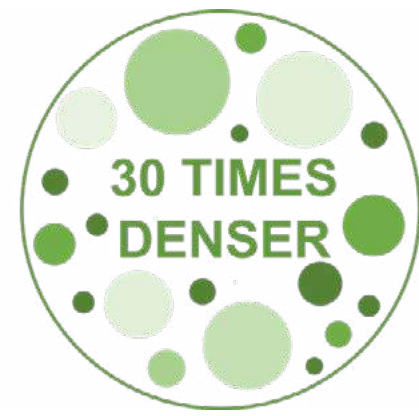
Clusea rosea
Autograph Tree



Prunus myrtifolia
West Indian Cherry

Segment 9 : New Planting Typical Composition





GROWS MUCH FASTER THAN TRADITIONAL AFFORESTATION STRATEGIES

THE DENSITY ALLOWS FOR SPECIES TO THRIVE WITH VERY LOW MAINTENANCE

PROVIDES VERY HIGH BIODIVERSITY IN A VERY LIMITED FOOTPRINT

THE NATIVE PLANTINGS PROVIDE REFUGE FOR POLLINATORS, OTHER ANIMALS AND FUNGI

PROVIDES ESSENTIAL ECOLOGICAL SERVICES TO THE SURROUNDING COMMUNITY AND OPPORTUNITIES FOR LEARNING



HARDWOOD HAMMOCK "ISLAND"



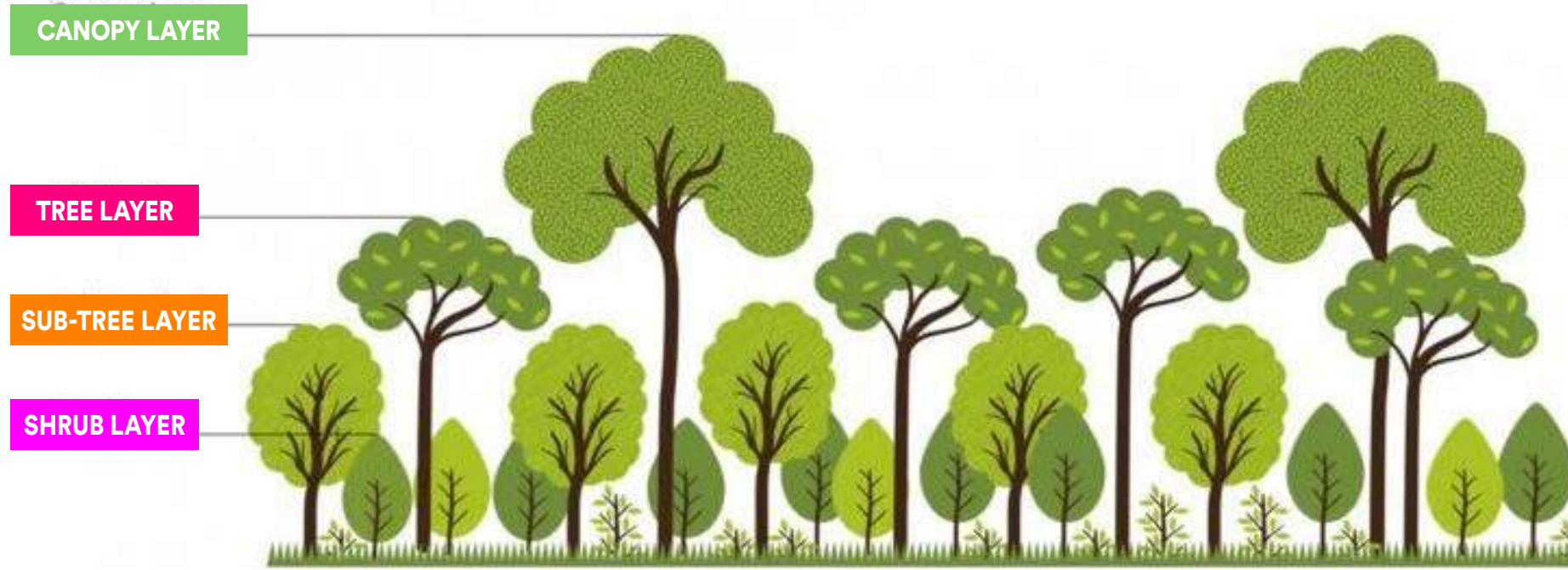
MICRO-FOREST EXAMPLES



FOSTERING A SENSE OF STEWARDSHIP!

Micro-forest : the first in South Florida! (Miyawaki afforestation method)

MICRO-FOREST VEGETATION LAYERS



Larval Host
Dina Yellow



Sideroxylon foetidissimum
False Mastic



Chrysophyllum oliviforme
Satinleaf

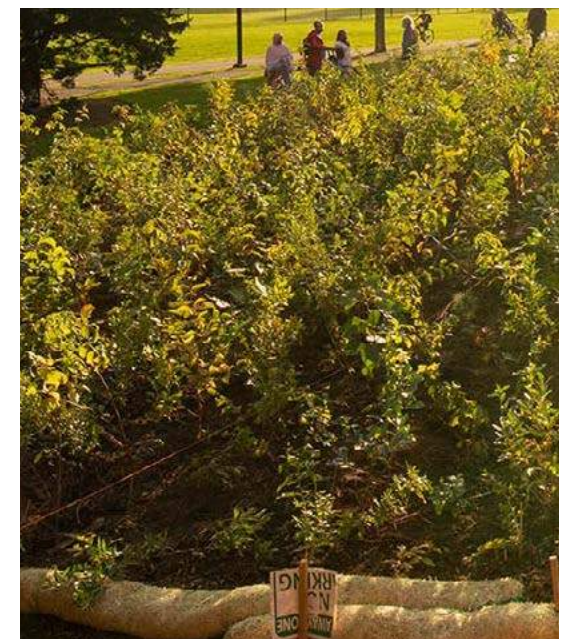


Myrcianthes fragrans
Simpson's Stopper



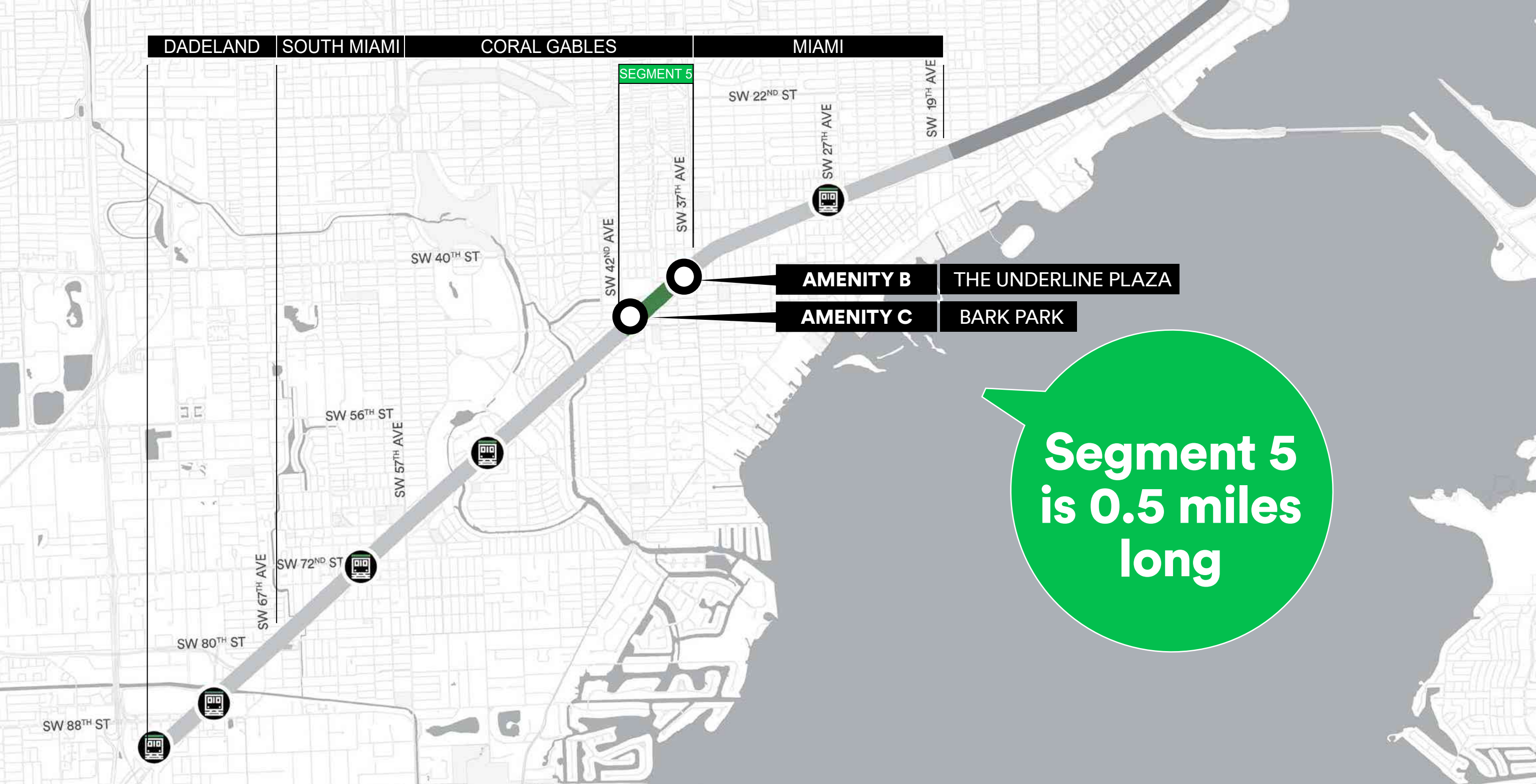
Picramnia pentandra
Bitter Bush

3 GALLON POTS



Micro-forest : Composition

Segment 5
Tree Management
& Planting Strategy



Segment 5 : from Le Jeune Rd. to SW 38th Ave. in the City of Coral Gables

EXISTING CONDITION

93 TREES

- **68 TREES TO REMAIN**

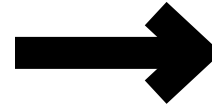
- **23 TREES TO BE RELOCATED**

- **3 TREES TO BE REMOVED**

No specimen trees will be removed.

1 is dead, prohibited or in poor health.

2 are in conflict with design elements



PROPOSED CONDITION

332 TREES (260% INCREASE)

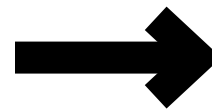
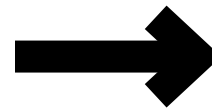
- **68 TREES TO REMAIN**

- **23 RELOCATED TREES**

- **241 NEW TREES**

1 is required for mitigation per County regulations.

240 are in addition to mitigation requirements!





1

MATURE BLACK OLIVE & MAHOGANY GROVE



2

RECENTLY PLANTED PINE ROCKLAND SPECIES



1

PONCE DE LEON

LIFETIME BUILDING

US-1

GRAND AVE

2

RUIZ AVE

THE COLLECTION

ARTEFACTO

US-1

Segment 5: 93 Existing Trees Evaluated by a Certified Arborist



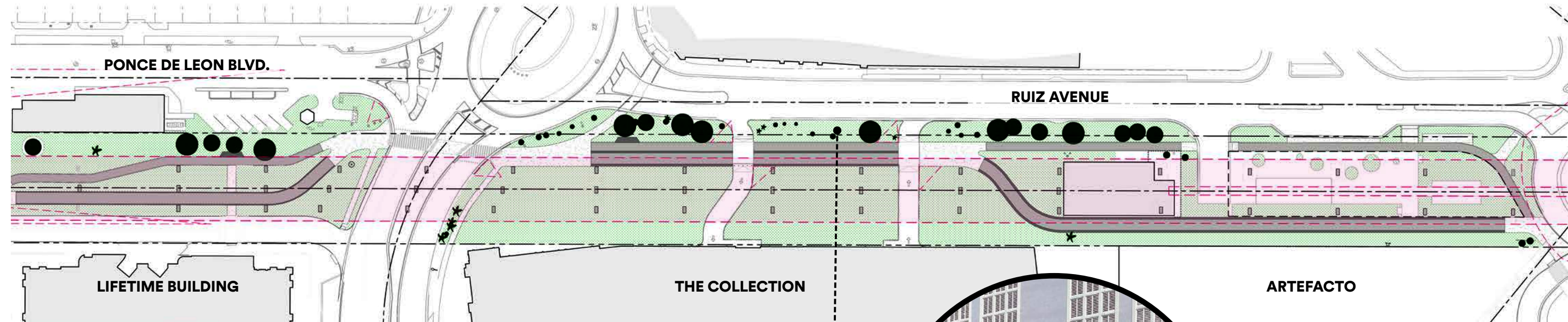
LEGEND



TREES TO REMAIN OR RELOCATE



GUIDEWAY CLEARANCE AND TRAFFIC VIEW TRIANGLES



PRESERVE THE RECENTLY PLANTED PINE ROCKLAND SPECIES

Segment 5 : Plan overlay of existing trees over proposed design



LEGEND



NEW PROPOSED TREES



TREES TO REMAIN OR RELOCATED



GUIDEWAY CLEARANCE AND TRAFFIC VIEW TRIANGLES

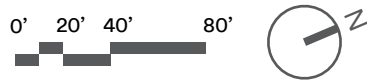


260%
increase in
number of trees

33
different species
of trees, shrubs
& groundcover

94%
native
species

Segment 5 : New Canopy Plan



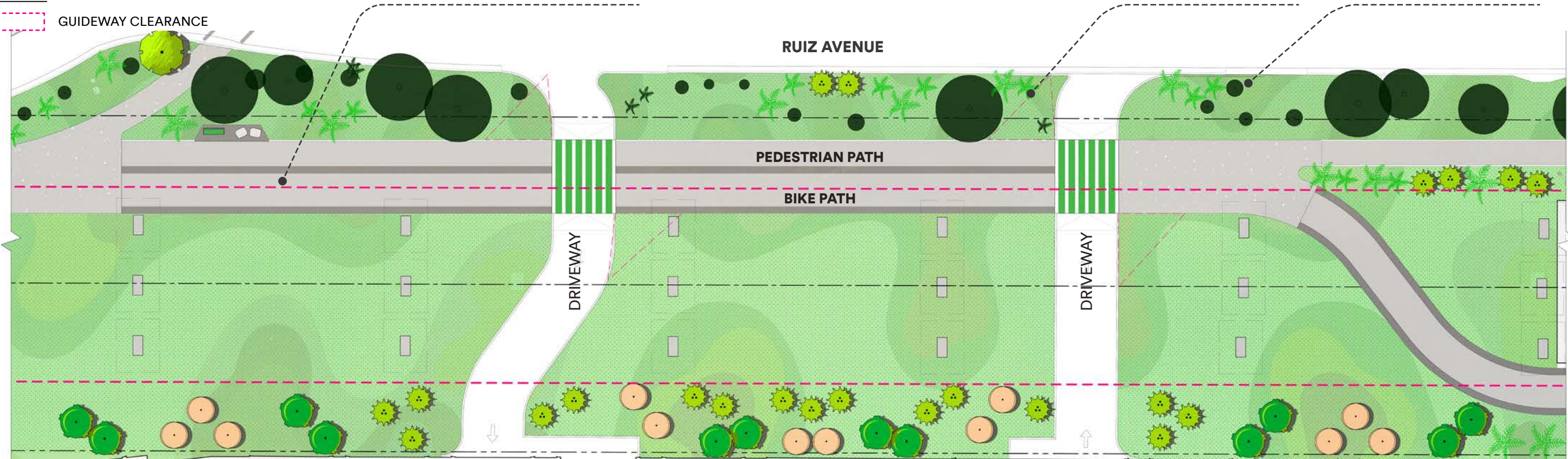
LEGEND

GUIDEWAY CLEARANCE

METRORAIL GUIDEWAY CLEARANCE

TRAFFIC VIEW TRIANGLE

EXISTING CANOPY TO REMAIN



Pollinated by Florida Native Bees

Larval Host Dingy Purplewing



Ilex krugiana
Krug's Holly

Rhipidophyllum hystrix
Needle Palm

Nephrolopsis biserrata
Macho Fern

Acoelorrhaphe wrightii
Everglades Palm

Exothea paniculata
Inkwood

Bursera simaruba
Gumbo Limbo

Segment 5 : New Planting Typical Composition



Segment 3
Tree Management
& Planting Strategy



Segment 3 : from SW 27th ave. to SW 19th ave. in the City of Miami

EXISTING CONDITION

288 TREES

- **200 TREES TO REMAIN**

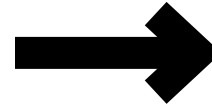
- **31 TREES TO BE RELOCATED**

- **57 TREES TO BE REMOVED**

No specimen trees will be removed.

29 are dead, prohibited or in poor health.

28 are in conflict with design elements but mostly small and with poor ecological value.



PROPOSED CONDITION

480 TREES (67% INCREASE)

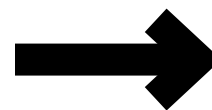
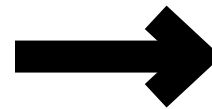
- **200 TREES TO REMAIN**

- **31 RELOCATED TREES**

- **249 NEW TREES**

20 are required for mitigation per County regulations.

229 are in addition to mitigation requirements!





1 MATURE BLACK OLIVE GROVE



2 MATURE SPECIMEN MAHOGANIES



3 ATROPHIED VEGETATION WITH POOR ECOLOGICAL VALUE



4 MATURE SPECIMEN LIVE OAKS

Segment 3 : 288 Existing Trees Evaluated by a Certified Arborist



LEGEND



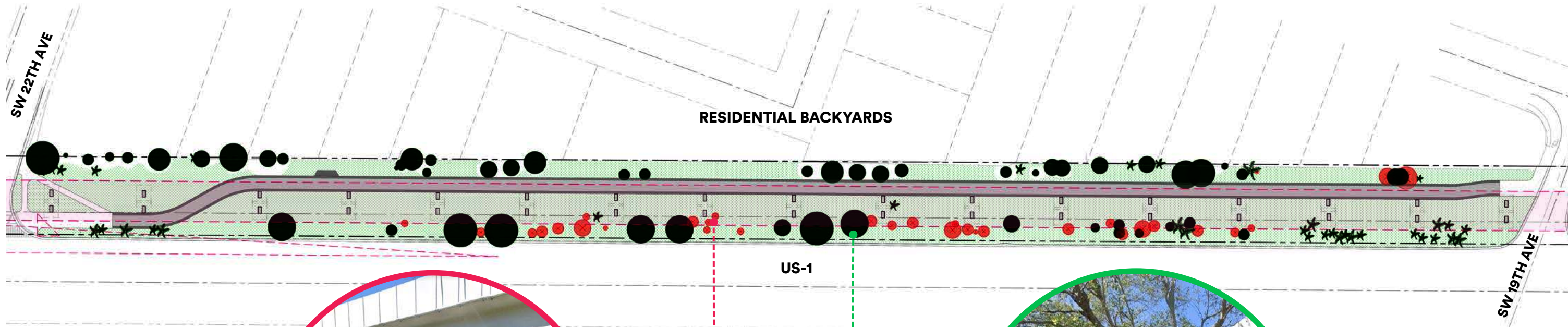
TREES TO REMAIN OR RELOCATE



TREES TO REMOVE



GUIDEWAY CLEARANCE AND TRAFFIC VIEW TRIANGLES

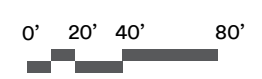


REMOVING SMALL AND ATROPHIED VEGETATION



PRESERVING MATURE SPECIMEN LIVE OAKS

Segment 3 : Plan overlay of existing trees over proposed design



LEGEND



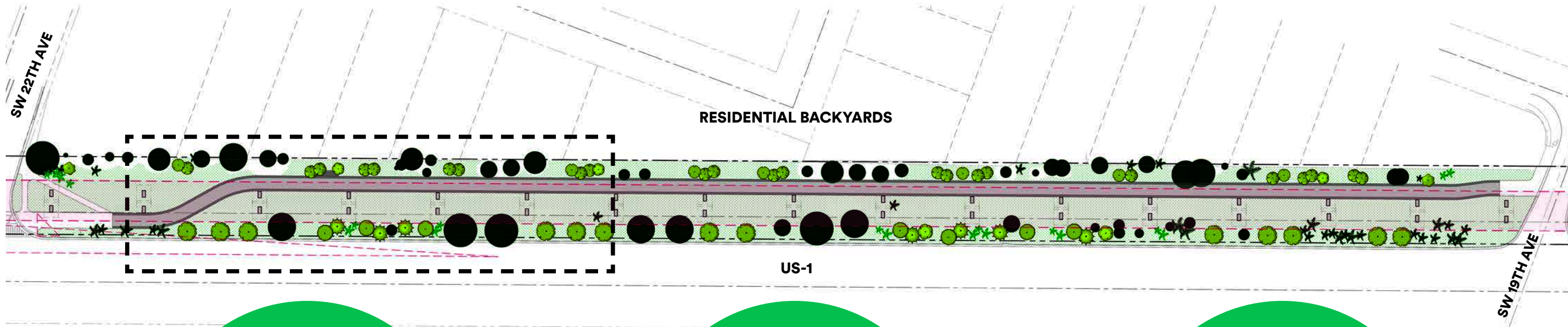
NEW PROPOSED TREES



TREES TO REMAIN OR RELOCATED



GUIDEWAY CLEARANCE AND TRAFFIC VIEW TRIANGLES

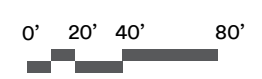


67%
increase in
number of trees

31
different species
of trees, shrubs
& groundcover

97%
native
species

Segment 3 : New Canopy Plan



LEGEND
 GUIDEWAY CLEARANCE

Callicarpa americana
Beautiberry



Citharexylum spinosum
Fiddlewood



Larval Host
Fiddlewood leafroller

Conocarpus erectus var sericeus
Silver Buttonwood



Eugenia foetida
Spanish Stopper



SHRUB SCREENING

MULTISTEM TREE SCREENING

RESIDENTIAL BACKYARDS

SHARED PATH

US-1

EXISTING LIVE OAK



Quercus virginiana 'Cathedral'
'Cathedral' Live Oak



Sabal Palmetto
Sabal Palm



Cordia sebestena
Orange Geiger Tree



Pimenta racemosa
Bay Rum

Segment 3 : New Canopy Typical Composition





Segments 3, 5 and 9 will include 693 new trees and over 98,000 new understory plants!

Hello again...

Construction Talk

- 01 The Team
- 02 Schedule
- 03 Typical Construction Sequence & Activities
- 04 Safety: MOT
- 05 Tree Protection
- 06 Communication

Who we are

1



NV2A™
GROUP

CENTRAL

45+ Award-winning Builders for
years in South Florida

One Team

NV2ATM
GROUP

CENTRAL



**JAMES
CORNER
FIELD
OPERATIONS**

 **Stantec**

ACE
Assurance Consulting Engineers, LLC

300 ENGINEERING GROUP, P.A.

 **Nova Consulting**

V₂E
GLOBAL



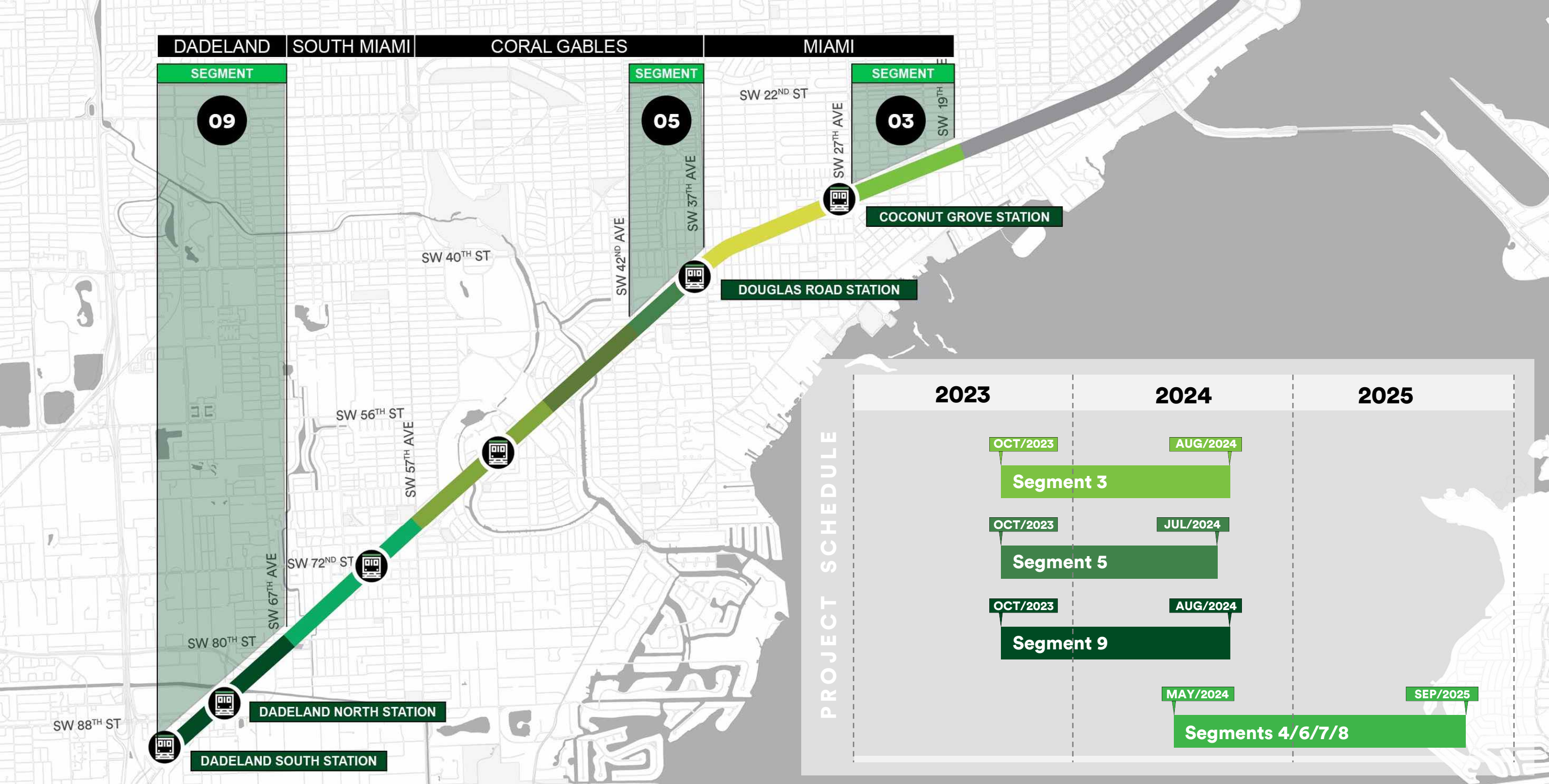
The Design-Build Team

Phase 3 Groundbreaking Ceremony

University Metrorail Station / September 12, 2023

Let's talk about schedule

2



The Underline Phase 3: Project Schedule

What you can expect during construction

3

Typical Construction Sequence

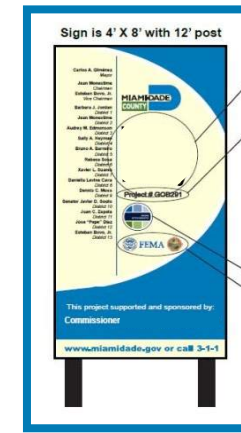
- 01 Site Preparation**
- 02 Tree Protection & Trimming**
- 03 Safety Measures: MOT (Signs and Detours)**
- 04 Earthworks & Underground Infrastructure**
- 05 Pathways and Above Ground Infrastructure**
- 06 Intersections & Amenities**
- 07 Landscaping**



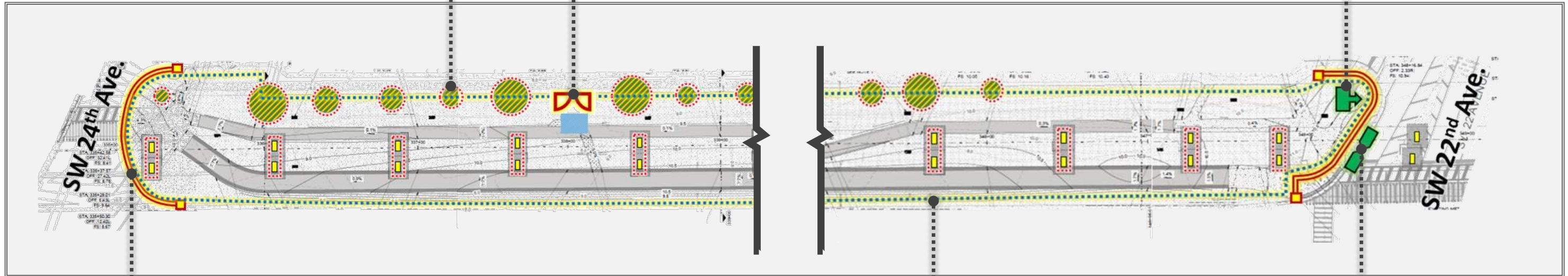
Tree Protection



Gated Entrance



DTPW Project Sign



Chain Link Fence at Intersections



Silt Fences



Project Signs/Banners

Typical Construction Sequence: SITE PREPARATION



Typical Construction Sequence: **TREE PROTECTION**



Typical Construction Sequence: **SAFETY MEASURES - MOT**



Typical Construction Sequence: **UNDERGROUND INFRASTRUCTURE**



Typical Construction Sequence: **PATHWAYS & TRAILS**



Typical Construction Sequence: **LIGHTING & AMENITIES**



Typical Construction Sequence: **LANDSCAPING**

Your safety is our top priority

4

MOT - Maintenance of Traffic

PEDESTRIAN & CYCLISTS

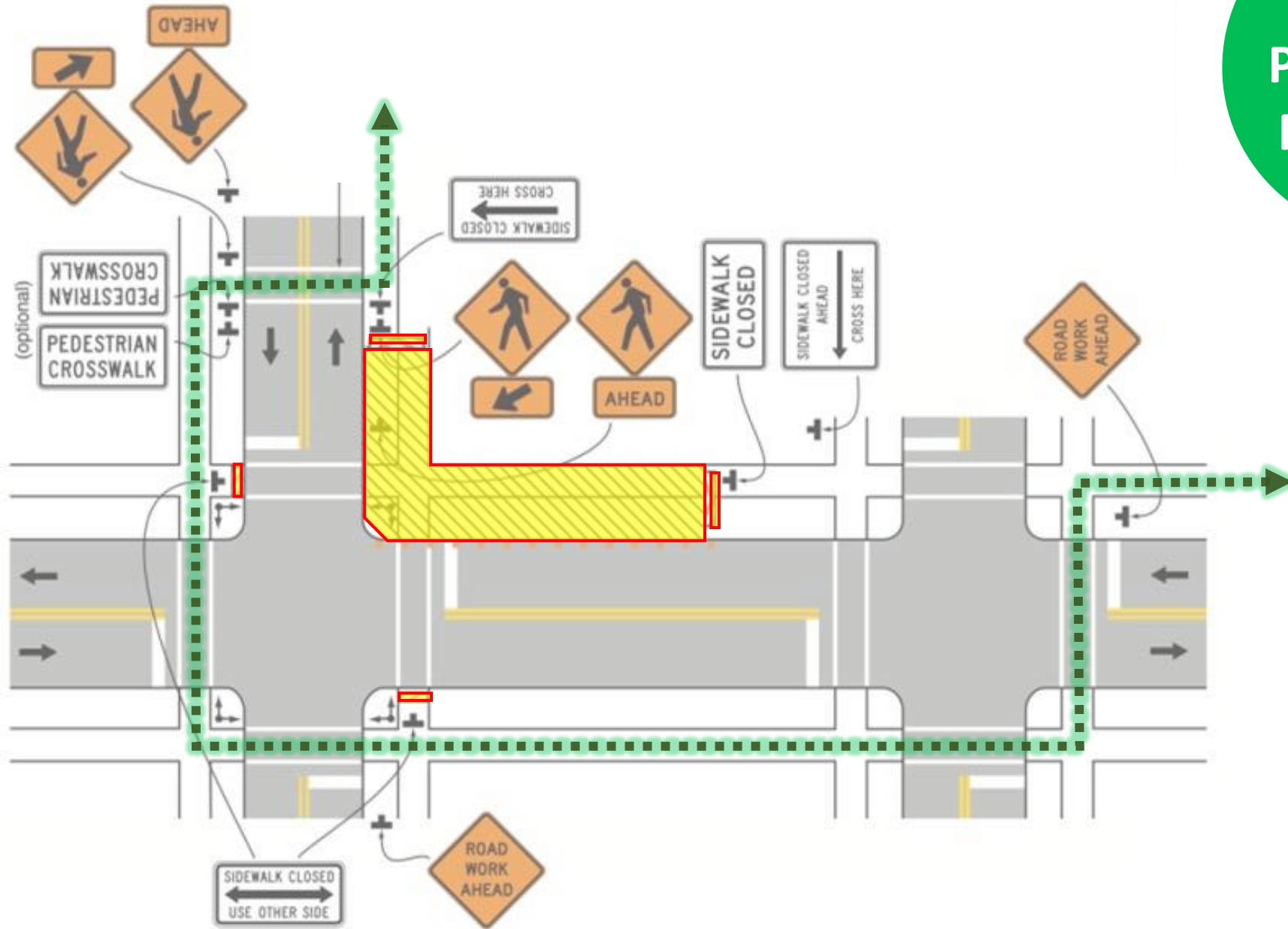


VEHICLES



- **FDOT Requirements and Guidelines**
- **Signed & Sealed Plans by Traffic Engineer**
- **Reviewed and Approved by FDOT / DTPW / (FoU)**
- **Timely 'Closure' Coordination and Notification to Public**

Typical
Pedestrian
MOT Plan



The Underline Phase 3: Typical MOT Plan – SAFETY MEASURES

Building with green in mind

5

Today:

2,474 trees & palms

→ **68% to remain in place**

→ **18% to be relocated**

→ **13% to be removed**

When Complete:

3,960 trees & palms

→ **1,800 new trees & palms**

→ **62.5% increase**



Tree Tagging, Protecting, Relocating



Tag



Protect



Relocate

- Signed & Sealed Plans
- Reviewed and Approved by DTPW / DERM

We are here

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How to reach us.

The Underline

[Miamidade.gov/TheUnderline](https://miamidade.gov/TheUnderline)

DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS

miamidade.gov/transportation

   @GoMiamiDade



Thank you!