MARLIN Engineering

MEMO

To: Town of Cutler Bay

From: Christina Fermin, AICP, LEED Green Association

cc: Rafael Casals, ICMA-CM, CFM

Date: March 7, 2019

Re: Cutler Bay Mobility Hubs Plan

Background

The Strategic Miami Area Rapid Transit (SMART) Plan, is a product of the People's Transportation Plan, born of the 2002 half penny sales tax initiative to improve transit throughout Miami-Dade County. In 2016, the Transportation Planning Organization (TPO) approved the SMART Plan and the advancement of rapid transit corridors and transit supportive projects to their highest priority.

The South Dade Transitway is one of the six corridors identified in the SMART Plan. The South Corridor is a 20-mile Transitway connecting Miami's Central Business District at the Dadeland South Metrorail Station in Kendall to SW 344th Street Park and Ride/Transit Terminal in Florida City, intersecting the Village of Pinecrest, Village of Palmetto Bay, Town of Cutler Bay, City of Homestead, Florida City and Unincorporated Miami-Dade County. A total of 14 Stations are proposed along the South Corridor, four (4) of which fall within or near the Town of Cutler Bay at SW 184th Street, Marlin Road, SW 200th Street, and SW 112th Street.

In addition to new stations along the South Corridor, the proposal includes 12 circulators to serve as feeder buses into the Transitway stations; Park and Ride lot improvements; additional sidewalks; improved pedestrian access; bicycle parking facilities; kiss-and-ride; ADA improvements; electric vehicle parking/charging; and Bus Rapid Transit (BRT) lines which would allow riders to travel from Dadeland South to Florida City in

approximately one hour. A BRT line is proposed to provide limited stop service between the Town of Cutler Bay at the Southland Mall and the Dadeland South Metrorail Station.

The Town's Mobility Hubs Plan is the result of the TPO's SMART Moves Program, adopted in June of 2018, the TPO approved the advancement of SMART Plan demonstration projects as a top priority in Miami-Dade County. The program is used by the TPO to prioritize and program planning studies to support projects which include: Complete Streets, First Mile/Last Mile Connections, Connected & Autonomous Vehicles, and/or Projects to Enhance Connectivity.

Mobility Hubs Plan

To fulfill the needs of the TPO SMART Moves Grant, MARLIN will provide the Town with a comprehensive system of mobility hubs connecting to the South Dade Transitway and Cutler Bay Town Center.

A mobility hub is the convergence of frequent transit, development, a mix of land uses, density with bicycle and pedestrian activity to cater to the mass movement of people. Mobility hubs have transit amenities, pedestrian amenities, bicycle amenities, motorized service amenities, and support services and amenities.

The Mobility Hubs Plan will be created through planning and engineering analysis via recommendations for improvements to connectivity, mobility and safety for pedestrians, bicyclists and transit users throughout the Town with a focus on the Town Center. As part of this process a comprehensive Public Involvement Plan was created, see Attachment 2. The scope of services will be completed via five (5) tasks by October 16, 2019:

1. Review of Background Information and Existing Conditions (Completed)
2. Public Involvement Meeting and Outreach (Ongoing)
3. Data Collection & Analysis (In Process)
4. Conceptual Design (To Begin April)
5. Recommendations & Final Report (Due October)

On Wednesday, February 6, 2019, the first Stakeholder Advisory Committee (SAC) Meeting was held at the Town Hall and included representatives from the Cutler Bay Business Association, Cutler Bay Economic Growth Committee, Florida Department of Transportation (District 6), Southland Mall, Bicycle & Pedestrian Advisory Committee, TPO and Miami-Dade Department of Transportation and Public Works. The meeting included a presentation and group discussion, see Attachment 3 for additional details.

The MARLIN team performed a site visit on Tuesday, February 26, 2019 to collect survey information from Transit riders along the Transitway, Town Circulator and main bus stops within the Town, in addition to riding the Town Circulator. In coordination with the Town's Public Information Officer, the survey was published on the Town's website and social media in English and Spanish to reach as many residents as possible. The

survey will remain open until March 31, 2019. MIOVision Cameras were deployed on March 11, 2019 at three (3) bus stop locations to count and observe pedestrian, bicycle and transit activity over a 24-hour period. These locations were identified via a Bus Operator Questionnaire and available boarding and alighting data for SW 211th Street/Southland Mall, SW 184th Street/U.S. 1, and SW 87th Avenue/SW 190th Street bus stops.

Next steps to include an analysis of all data collected, an analysis of the Town Circulator, conceptual designs and placement of mobility hubs. A public meeting is scheduled for April 30, 2019 and will include a presentation and open house forum for residents to provide feedback.

The final product will be a Mobility Hubs Plan to include:

- Planning Process & Existing Conditions
- Mobility Hub Concepts for Small, Medium and Large-Scale Hubs
- Identification & Prioritization of up to 12 Locations for Mobility Hubs
- Cost Estimates
- Assessment & Analysis of Town Circulator
- Prioritized Recommendations
- Identification of Potential Funding

ATTCHMENTS:

1. Scope of Services
2. Public Involvement Plan
3. Stakeholder Advisory Meeting Presentation & Notes

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Smart Mobility Hubs Plan SCOPE

TO: Mr. Rafael Casals, ICMA-CM, CFM
Town Manager
Town of Cutler Bay
Cutler Bay Town Center
10720 Caribbean Blvd, Suite105
Cutler Bay, FL 33189

FROM: Lisa W. Maack, Project Manager
MARLIN Engineering Inc.
1700 NW 66th Avenue, Suite 106
Plantation, FL 33313

SUBJECT: Smart Mobility Hubs Plan

DATE: September 2, 2018

Dear Mr. Casals,

Marlin Engineering (MARLIN) is pleased to provide the following scope to fulfill the needs of the recently awarded Miami-Dade TPO SMART Mobility grant program. MARLIN will provide the community with a comprehensive system of transit mobility hubs connecting to the South Dade Transitway and Cutler Bay Town Center. While the existing South Dade SMART Plan is focusing on transit and land use within the ¼ - ½ mile buffer of the transitway, this plan will focus on populations and jobs within the entire Town. The plan will improve connectivity, mobility and safety for pedestrians, bicyclists, and transit users by identifying locations for neighborhood, community and commercial level mobility hubs along the Town's roadway network. Once locations have been identified, the appropriate scale of transportation infrastructure and amenities to facilitate usage of the hubs will be recommended through conceptual design and visualizations. The plan will include a sketch planning assessment of the Town's existing circulator and bus system and propose recommendations to improve the Town's overall transit performance and connectivity.

The *Cutler Bay Mobility Hubs Plan* also seeks innovative ways to enhance the Town's recently constructed complete streets projects along Caribbean Boulevard and Old Cutler Road and to build upon recommendations provided in the Town's Transportation, Bicycle/Pedestrian, and

Complete Streets Master Plans, Townwide Traffic Calming Plan and Adopted Land Use Regulations. Finally, the Plan will also take into account best practices provided in the TPO's recently completed First Mile/Last Mile Options for High-Trip Generator Employers Study and Protected Bike Lanes Demonstration Plan.

To achieve these objectives, a detailed scope of services has been developed. The methodology is based on solid planning and engineering analysis of each identified location, the impacts to all the levels of service for all modes, discussion of state of the art methods of providing mobility, and above all, frequent and consistent public involvement at various levels in the community and various times in the project to assure consensus.

I. DESCRIPTION OF SERVICES

Task 1: Background Information / Existing Conditions

MARLIN will review existing plans, for all roadways, bicycle, pedestrian, transit facilities, and land use developments on key transit corridors served by Miami-Dade Transportation and Public Works (MDTPW) and the Town Circulator in an effort to increase ridership and regional connectivity by prioritizing projects that provide the most convenient and comfortable transit service and connectivity. We anticipate that data and information focused on transit hub development will include neighborhood and community locations as origins and commercial and regional transit locations as destination hubs. Some of the destination sites include: the Old Cutler Road commercial area, containing a large 30 +/- acre mixed use site, which is envisioned as a mid-sized commercial center in the future; Cutler Bay's Urban Center District, where Southland Mall is located. This area has been re-zoned by the Town to a higher intensity of land use similar to the Dadeland mixed use district: the Dixie Highway corridor and the South Dade Transitway. Each of these areas are within the Town's long-held land use vision of urban nodes along to accommodate population and commercial growth, instead of spreading it westward in South Dade.

This Task will be performed through 3 Subtasks including:

a. Review of relevant Multi-modal transportation planning studies including but not limited to:
   1. Growth Management Plan
   2. Town Adopted Transportation Master Plan

3. Town Adopted Bicycle and Pedestrian Master Plan
4. TPO Completed studies, including the First/Last Mile Pilot with High Trip Generator Employers Study or any other related study in coordination with the TPO Project Manager

b. Obtain and assess Existing and Future Land Use and Zoning and ROW

c. Obtain MDDTPW and Town Circulator Stop and Ridership Data and Files

Task 2: ***Public Involvement Plan/Meetings***

MARLIN will develop a Public Involvement Plan that will be used to solicit input on the vision, goals, objectives and needs for the *"Cutler Bay Mobility Hubs Plan"*. The Town of Cutler Bay firmly believes that it is imperative to understand what the community wants and what it needs. MARLIN will work with the community to determine what is desired and how that can be incorporated into the design. Consensus is built when "wants" and "needs" coincide, and truly effective solutions are developed. Many technical projects have completely collapsed due to lack of consensus, but not in Cutler Bay, which has employed a diligent approach to public involvement since its incorporation. The success is evident in the myriad of capital projects that have been completed to date, all stemming from similar master planning efforts.

The public participation plan for this effort will be extensive and will include a menu of activities and meetings. It will involve several levels of involvement including meetings with industry professionals, individual meetings in the community, and meetings in large groups.

This Task will be performed through 5 Subtasks including:

a. Project Management Teleconferences (6, 30 Minutes)

b. Kickoff Meeting and Ongoing Coordination with TPO, MD DTPW, FDOT

c. Town Commission Meetings (2)

d. Community Public Involvement Meetings (2)

e. The Town of Cutler Bay shall identify stakeholders and participants which are key to the planning process for the Town. A Study Advisory Committee (SAC) will be established consisting of, but not limited to representatives from the Florida Department of Transportation District Six (FDOT-6), DTWP, and other key project stakeholders within the Study limits. The SAC will provide valuable feedback and will review materials on all project deliverables and approval/endorsement of the final results and recommendations

for this study. A total of three (3) SAC meetings are anticipated as part of this scope of services. The intent of the SAC is to provide essential technical and policy guidance on the project related issues.

Task 3: ***Data Collection***

The data collection task will focus on where existing riders are beginning and ending their trips through data and interviews. Data on boardings and alightings from MDTPW and the Town Circulator. Stops with the highest activity and those with the most transfer activity will be will be reviewed for surveys/interviews with passengers and assessed for pedestrian/bicycle access. Miovision cameras will also be utilized to determine which direction pedestrians and bicyclists are traveling to access the transit stops. Surveys will be distributed to on-site transit users that will ask questions regarding what amenities will be most useful to them to improve their commute. Future nodes for potential hubs will be identified by reviewing approved development, consultation with Town staff and analysis of the Future Land Use Map.

The Task will also include a planning assessment of the Town's existing circulator system. Technicians will perform an on-board speed and delay study to understand running speeds during peak-hours of service. All data collected will assist in developing recommendations on how to improve the transit system's overall performance.

This Task will be performed through the following Subtasks:

a. Interview Miami-Dade County Circulator Drivers/Operator
b. Ride Town Circulator Routes and Use Speedtracker for Speed/Delay and Rider Survey
c. Interview Metrobus Riders at transfer points and at Cutler Bay Transitway Stations
d. Analysis of MIOVision results
e. GIS Analysis of existing and future stop use and route demographics
f. Development of alternative system routes and schedules
g. Sketch Planning Stop/Hub Utilization Assessment
h. Capital, O&M Cost Analysis (3 Schedules)

Task 4: ***Conceptual Design***

Using the data collected in the previous tasks, including right-of-ways and any existing survey

data, as well as examples of the specification of significant pedestrian, bicycle and transit amenities, a conceptual design will be developed for 3 levels of Mobility Hub – neighborhood/small scale, community/medium to large scale and commercial area. This will consist of graphics to show how each Mobility Hub will look depending on scale of infrastructure. Additionally, graphic examples and renderings of the concepts, and potential landscape and hardscape will be provided. Conceptual quantities and costs will be developed as an evaluation tool. Any permitting requirements will also be identified for each corridor so that the eventual designer is aware of the permitting requirements for the implementation of each project.

This Task will be performed through 5 Subtasks including:

a. Hub Siting Analysis up to 12 locations

b. Development of Neighborhood/small scale, Community/medium to large scale and Commercial area Hub Templates

c. Review of Right of Way, Adjacent Land Use and Ped/Bike Access

d. Assessment of permitting requirements

e. Cost Estimates 12 locations

Task 5: ***Recommendations/Final Report***

Once the individual Mobility Hubs have reached the conceptual design phase, each will be evaluated and prioritized. A review of available funds will be undertaken; this will include a study of local, state and federal sources, as well as funds from private sources or impact fees. An ultimate funding level will be identified based on traditional funding levels and percentages, which will then be allocated over the corridors. The highest ranked projects that fit within the available funding limit will represent the financially feasible list of projects. This will be portrayed in textual, tabular and GIS map form. All other projects will be listed in the master plan for future development. A final document will be prepared.

a. Recommendations: Prioritization

b. Potential Funding

c. Powerpoint presentations for Commission Meetings

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d. Final Report

Deliverables will include:

a. Public Forum notes

b. Town Circulator service review

c. Conceptual designs for Mobility Hubs (3)

d. Final Plan with recommendations ranked based on criteria

II. SCHEDULE

MARLIN shall begin work upon issuance of the work order. The attached schedule contains the 12-month schedule for the project.

III. BUDGET

The attached staff hour fee proposal contains the budget for the work effort. For the services performed, the Town will pay MEI the lump sum fee of **$69,327.00.** The hourly billing rates are consistent with the unit rates shown in the Executed Agreement for this contract. This Work Order is a Lump Sum Work Order, and shall be billed monthly as a percentage of completion.

IV. ACCEPTANCE

The return of an executed copy of this proposal would constitute our Notice to Proceed.

Sincerely,

MARLIN ENGINEERING, INC.

Lisa W. Maack, AICP
Project Manager

ACCEPTED BY: _____ **DATE:** _____

ENTITY: _____

TITLE: _____

Town of Cutler Bay Mobility Hub Plan

TASKS AND SUBTASKS	November '18	December '18	January '19	February '19	March '19	April '19	May '19	June '19	July '19	August '19	September '19	October '19
Task 1. Background Information/Existing Conditions												
a. Review relevant Multi-modal transportation planning studies												
b. Obtain and assess Existing / Future Land Use and Zoning and ROW												
c. Obtain MDDTPW, Town Circulator Stop and Ridership Data and Files												
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a. Project Management Teleconferences (6, 30 Minutes)												
b. Coordination with Public, TPO, MD DTPW												
c. Town Commission Meetings (2)												
d. Community Meetings (2)												
e. Study Advisory Group (3 meetings)												
Task 3. Data Collection and Transit Hub Assessment												
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c. Interview Metrobus Riders at transfer points and at Cutler Bay Transitway Stations												
d. Analysis of MIOVision results												
e. GIS Analysis of ridership and route demographics												
f. Development of alternative system routes and schedules												
g. Sketch Planning Stop/Hub Utilization Assessment												
h. Capital, O&M Cost Analysis (3 Schedules)												
Task 4. Mobility Hub siting and Conceptual Design												
a. Hub Siting Analysis up to 12 locations												
b. Development of Neighborhood, Community and Central Hub Templates												
c. Review of Right of Way, Adjacent Land Use and Ped/Bike Access												
d. Assessment of permitting requirements												
e. Cost Estimates 12 locations												
Task 5. Documentation												
a. Recommendations: Prioritization												
b. Potential Funding												
c. Powerpoint presentations for Commission Meetings												
d. Final Report												

TOWN OF CUTLER BAY
PUBLIC WORKSHOP

PROJECT OVERVIEW

The Town of Cutler Bay was awarded a grant from the Miami-Dade Transportation Planning Organization to conduct a local area Strategic Miami Area Rapid Transit (SMART) Moves study for the purpose of enhancing connectivity between the Town and the South Dade Transitway. The Plan will analyze existing MetroBus service, the Cutler Bay Town Circulator operations, and identify enhancements to the transit services as well as identifying improvements for stops and transfer points. The focus on stops and transfer points is to improve accessibility, connectivity, mobility and safety for pedestrians, bicyclists and transit users by identifying locations for neighborhood, community and commercial level mobility hubs along the Town's roadway network. A mobility hub is the convergence of frequent transit, development with mixed land uses, density and people to cater to the mass movement of people.

WHAT TO EXPECT

Two public meeting will be held at the Town Hall to obtain input from residents and stakeholders and to share conceptual designs. Graphics will be displayed and the project team will be available to answer any questions.

WHEN

Tuesday, April 30, 2019
6:00 PM- 8:00 PM

WHERE

Cutler Bay Town Hall
Council Chambers
10720 Caribbean Boulevard
Cutler Bay, FL 33189

FOR MORE INFORMATION

Please contact the **Town's Planning and Zoning Department** at **(305) 234-4262**

SOCIAL MEDIA

/townofcutlerbay
@townofcutlerbay
@townofcutlerbay
/UCqXkl1O0vQ_mAz_f3-BJ0Sg

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Public Involvement Plan

Cutler Bay Mobility Hubs Plan

December 2018

PREFACE

Cutler Bay Mobility Hubs Plan

The purpose of this Public Involvement Plan (PIP) is to assist in providing information to and obtaining input from concerned citizens, agencies, private groups (residential/business), and governmental entities.

The overall goal of this plan is to help ensure that the study reflects the values and needs of the communities it is designed to benefit.

A schedule of events and a list of documentation exhibiting compliance with these procedures are included.

The Cutler Bay Mobility Hubs Public Involvement Plan outlines the specific activities that the Town of Cutler Bay will undertake to provide timely and accurate information to stakeholders throughout the project.

POINTS OF CONTACT

Cutler Bay Mobility Hubs Plan

Project Manager:

Name: Kathryn Lyon
Title: Planning and Zoning Director
Address: 10720 Caribbean Boulevard, Suite 105
Phone: 305-234-4262
E-mail: KLYON@CUTLERBAY-FL.GOV

Consultant Project Manager:

Name: Jeff Weidner
Title: Vice President
Address: 1700 NW 66th Ave, Suite 106
Phone: 954-870-5070
E-mail: JWeidner@Marlinengineering.com

Consultant Deputy Project Manager:

Name: Christina Fermin
Title: Strategic Planner
Address: 1700 NW 66th Ave, Suite 106
Phone: 954-870-5070
E-mail: CFermin@Marlinengineering.com

MARLIN

TABLE OF CONTENTS

Cutler Bay Mobility Hubs Plan

Preface ii

Points of Contact iii

Project Overview 1

Public Involvement Principles 2

Statement and Core Values 2
Integration in 6-Step Process 2
Implementation 2

Public Involvement Approach 3

Clarifying Project Goals 3
Key Milestones and Activities 3
Public Involvement Tools 3

Public Involvement Schedule 4

PROJECT OVERVIEW

Cutler Bay Mobility Hubs Plan

The Town of Cutler Bay was recently awarded a Miami-Dade Transportation Planning Organization (TPO) SMART Mobility grant. The Town's consultant, MARLIN Engineering, Inc. will provide the community with a comprehensive system of transit mobility hubs connecting to the South Dade Transitway and Cutler Bay Town Center.

The Plan will focus on populations and jobs within the entire Town with an overall goal of improving connectivity, mobility and safety for pedestrians, bicyclists, and transit users by identifying locations for neighborhood, community and commercial level mobility hubs along the Town's roadway network. Once locations have been identified, the appropriate scope of transportation infrastructure and amenities to facilitate usage of the hubs will be recommended through conceptual design and visualizations. The Plan will include a sketch planning assessment of the Town's existing circulator and bus system and proposed recommendations to improve the Town's overall transit performance and connectivity.

The Plan also seeks innovative ways to enhance the Town's recently constructed complete streets projects along Caribbean Boulevard and Old Cutler Road. The Plan will also build upon recommendations provided in the Town's Transportation, Bicycle/Pedestrian and Complete Streets Master Plans, Townwide Traffic Calming Plan and Adopted Land Use Regulations.

Finally, the Plan will also take into account best practices provided in the TPO's recently completed First Mile/Last Mile Options for High-Trip Generator Employers Study and the Protected Bike Lanes Demonstration Plan.

PUBLIC INFORMATION PRINCIPLES

Cutler Bay Mobility Hubs Plan

Statement and Core Values

Public Information plays a critical role in supporting the decision-making core value. Informing the public about upcoming decisions allows stakeholders to be involved in decision making in a meaningful way. Additionally, effective public information initiatives are critical for informing impacted stakeholders in advance regarding construction and maintenance activities.

Integration in the 6-Step Process

The Cutler Bay Mobility Hubs Plan will integrate a 6-Step Process, which includes the following steps:

- Define Desired Outcomes and Actions
- Endorse the Process
- Establish Criteria
- Develop Alternatives or Options
- Evaluate, Select, and Refine Alternatives or Options
- Finalize Documentation and Evaluation Process

This Public Involvement Plan supports the 6-Step Process by ensuring that project stakeholders and the public are adequately informed in advance to be engaged at each step in an open and meaningful way.

Implementation

Effective public information supports effective implementation of decisions based off integration of the 6-step process because it provides easy-to-understand information to stakeholders in advance so they can make informed decisions. The Town of Cutler Bay firmly believes that it is imperative to understand what the community wants and what is needed.

PUBLIC INVOLVEMENT APPROACH

Cutler Bay Mobility Hubs Plan

MARLIN will work with the community to determine the vision, goals, objectives and needs for the Cutler Bay Mobility Hubs Plan.

Clarifying Project Goals

The goal of this project is to improve connectivity, mobility and safety for pedestrians, bicyclists and transit users through the identification of mobility hubs along the Town's roadway network. The Study team will achieve this goal via 5 key tasks which include:

1. Background Information of Existing Conditions
2. Public Involvement Plan/Meetings
3. Data Collection
4. Conceptual Design
5. Recommendations/Final Report

Key Milestones and Activities

A kickoff meeting which included a general overview of the project, scope and tasks took place on November 26, 2018.

Project Management Teleconferences will include a total of six (6), 30-minutes teleconferences which will be used to update and collaborate with the project manager and consultant.

Two (2) Town Commission meetings will take place to provide findings and recommendations to the Town Council.

Two (2) public involvement meetings will take place to include outreach and communication efforts to seek input from the community.

Three (3) Study Advisory Committee (SAC) meetings will take place. The Town of Cutler Bay shall identify stakeholders and participants which will include representatives from the Florida Department of Transportation (FDOT) District Six (6), the Miami Dade Department of Transportation Public Works (DTPW), the Miami Dade Transportation Planning Organization (TPO), Southland Mall and the Bicycle Pedestrian Advisory Committee (BPAC).

The SAC will provide valuable feedback through review of materials on all project deliverables and approval/endorsement of the final results and recommendations for this study.

The Cutler Bay Mobility Hubs Plan is scheduled for completion by October 16, 2019.

Public Involvement Tools

Tools may include:

- News releases
- Calendar items
- Web site
- Newsletters
- Online media – Facebook, Twitter, Instagram, YouTube

PUBLIC INVOLVEMENT SCHEDULE

Cutler Bay Mobility Hubs Plan

The schedule is as follows:

- Project Management Teleconferences
  - December 20, 2018
  - February 28, 2019
  - April 25, 2019
  - June 27, 2019
  - August 29, 2019
  - October 3, 2019
- Kickoff Meeting and Ongoing Coordination with the Miami-Dade TPO, DTPW and FDOT
  - Kickoff Meeting November 26, 2018
- Town Commission Meetings
  - March 20, 2019
  - October 9, 2019 (Tentative)
- Public Involvement Meetings
  - April 30, 2019
  - September 18, 2019 (Tentative)
- Study Advisory Committee (SAC)
  - February 6, 2019
  - May 22, 2019 (Tentative)
  - August 28, 2019 (Tentative)

PUBLIC INFORMATION SCHEDULE

Town of Cutler Bay Mobility Hub Plan

TASKS AND SUBTASKS	November '18	December '18	January '19	February '19	March '19	April '19	May '19	June '19	July '19	August '19	September '19	October '19
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a. Recommendations: Prioritization												
b. Potential Funding												
c. Powerpoint presentations for Commission Meetings												
d. Final Report												

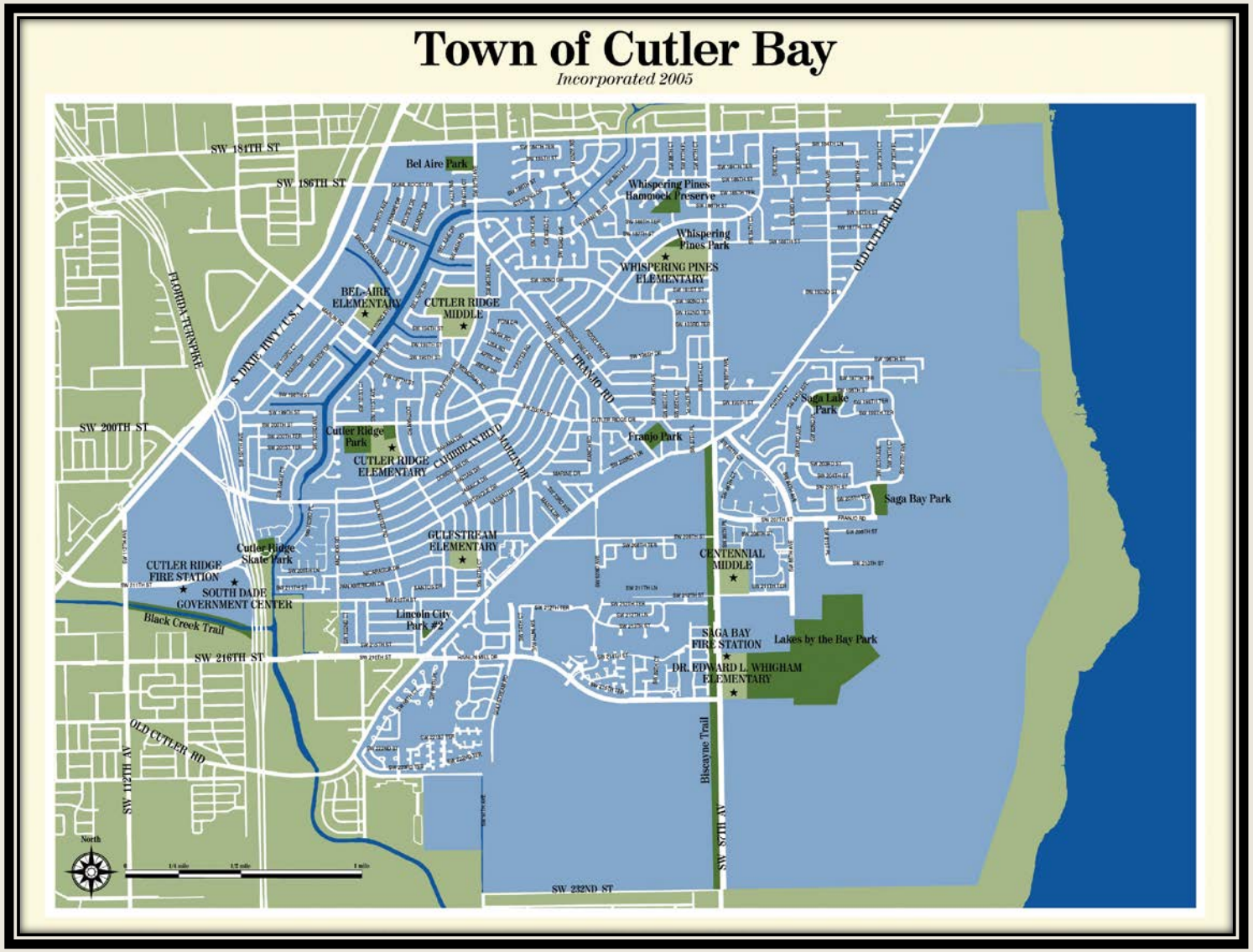
CUTLER BAY MOBILITY HUBS PLAN

Cutler Bay MIAMI

TPO Miami-Dade Transportation Planning Organization

OVERVIEW

- Purpose
- Background
- Plans Reviewed
- Development
- Data
- Next Steps
- Discussion



PURPOSE

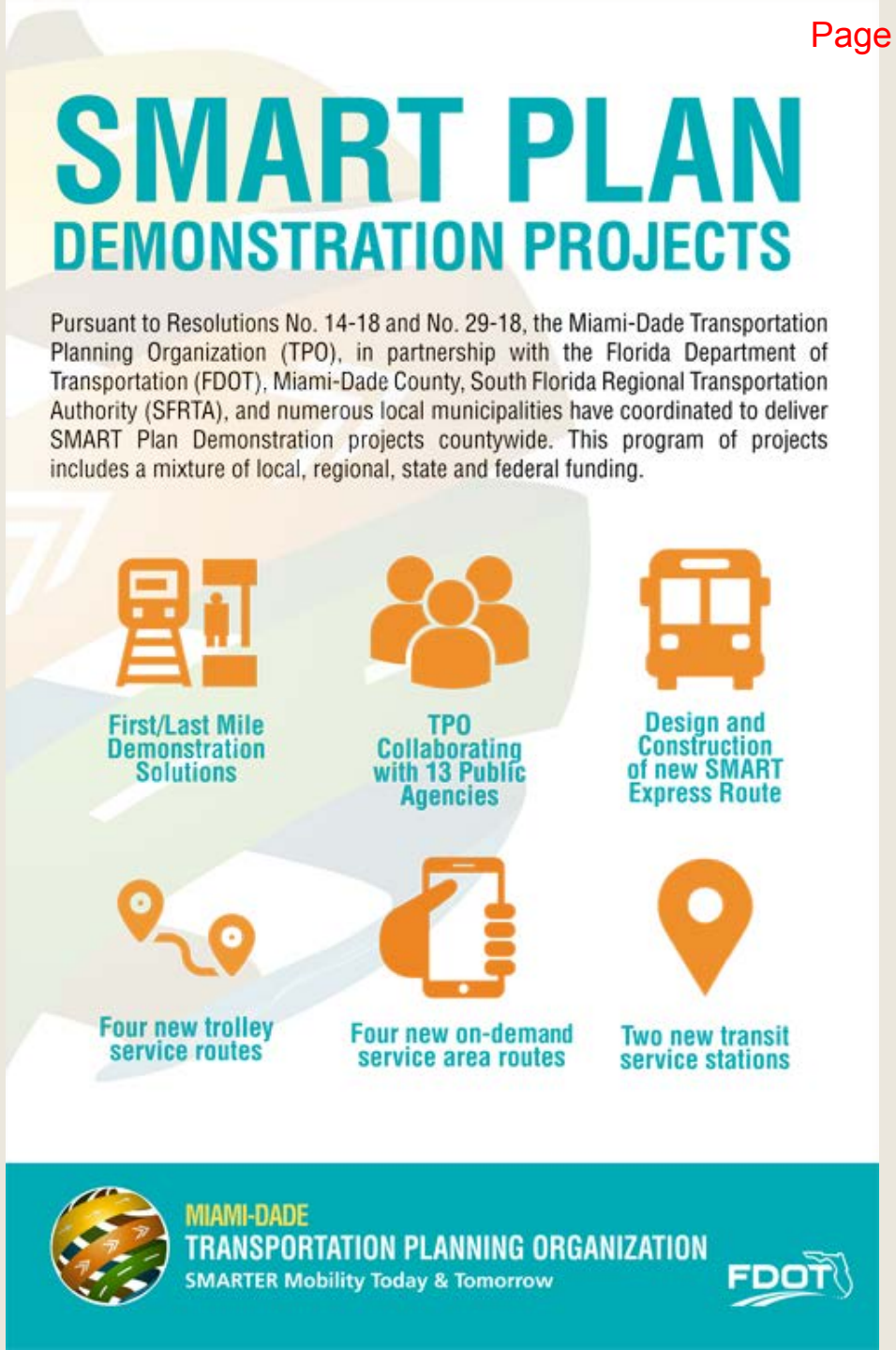
UPWP 5.2 SMART MOVES PROGRAM

Used by TPO to prioritize and program planning studies to support projects, including:

- Complete Streets
- First Mile/Last Mile Connections
- Connected & Autonomous Vehicles
- Projects to Enhance Connectivity

Municipal Program: Encourages municipal participation in implementing transportation planning studies and plans.

Public Input: Solicit transportation planning ideas from the general public and other agencies.



SCOPE OF SERVICES

Boston Crosswalk

- Identify a comprehensive network of mobility hubs.
- Improve mobility and safety for pedestrians, bicyclists and transit users.
- Assess the Town Circulator and provide recommendations.
- Final recommendations will be evaluated and prioritized.

SCOPE OF SERVICES CONTINUED

- Task 1: Background Information & Existing Conditions
  - *Completed*
- Task 2: Public Involvement Plan
  - *Ongoing*
- Task 3: Data Collection
  - *Beginning now through April*
- Task 4: Conceptual Design
  - *April through August*
- Task 5: Recommendations/Final Report
  - *Due October 16, 2019*

SCHEDULE

Town of Cutler Bay Mobility Hub Plan

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d. Final Report												

STAKEHOLDER ADVISORY COMMITTEE (SAC)

Role & Responsibility:

- Provide feedback
- Review materials
- Provide technical & policy guidance
- Endorse Final Results & Recommendations

2019 Meeting Months:

- February
- May
- August

BACKGROUND

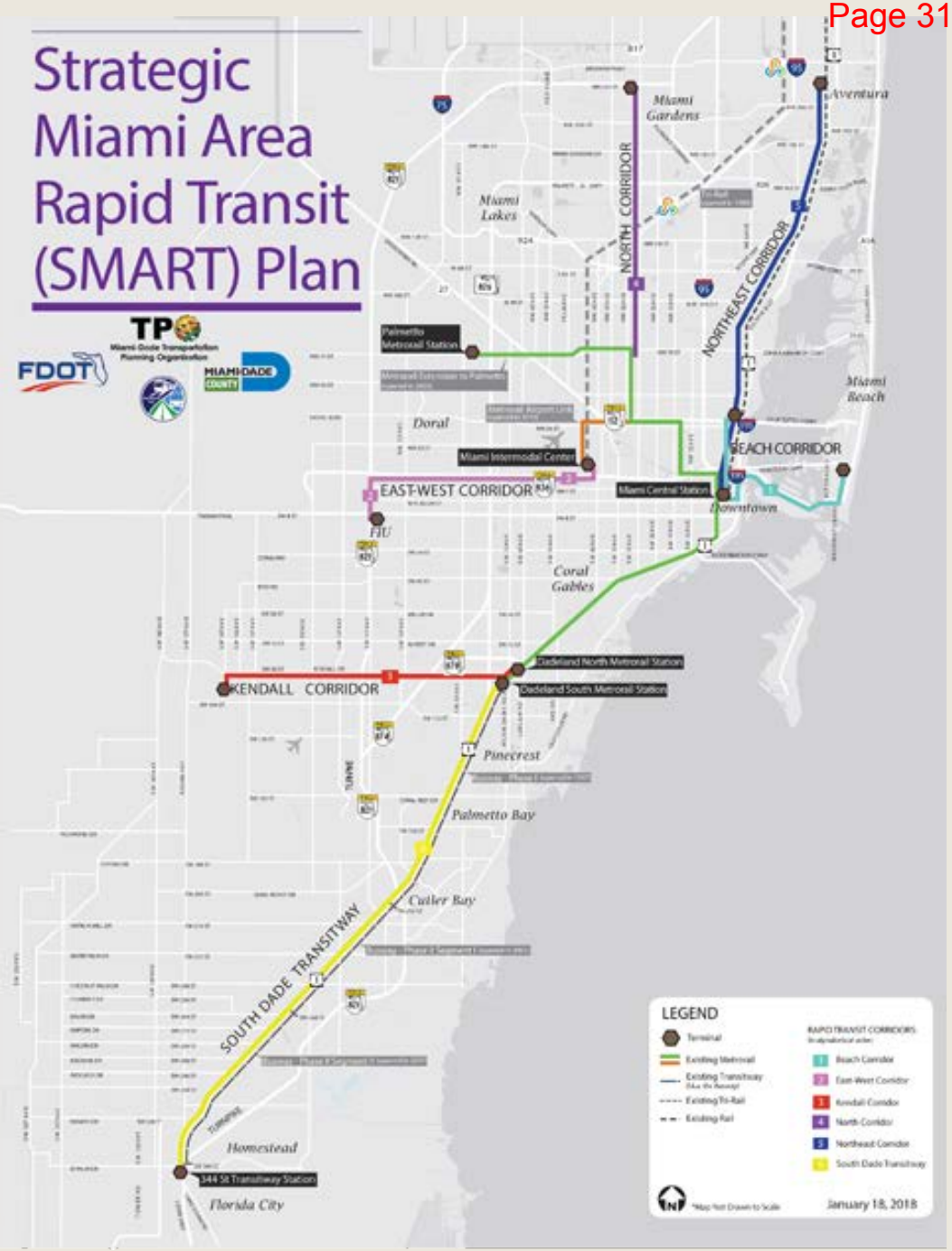
The Strategic Miami Area Rapid Transit (SMART) Plan

SOUTH DADE TRANSITWAY

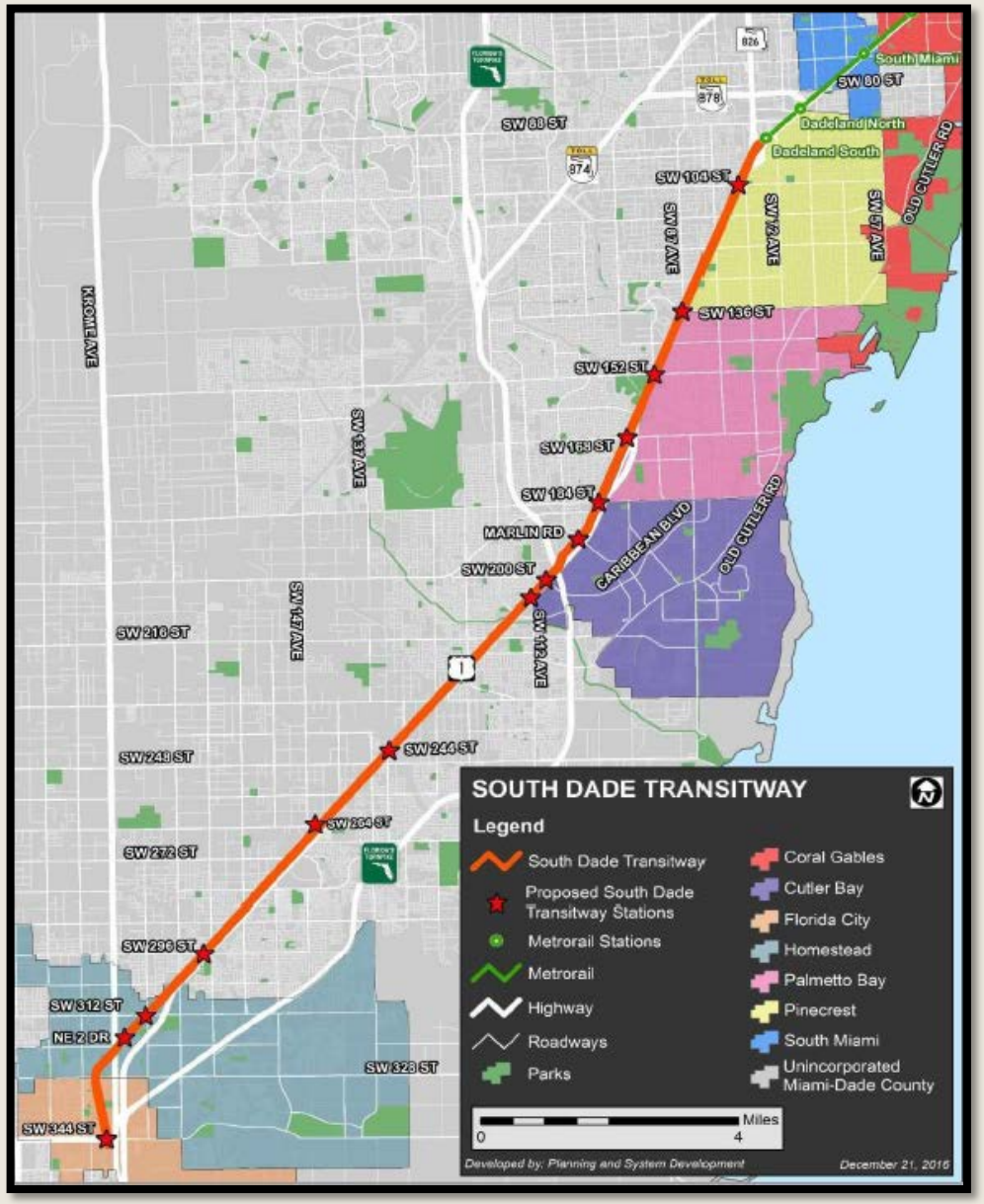
20-miles from Dadeland South Metrorail Station to SW 344th Street Park and Ride/Transit Terminal

Connects Miami CBD to Village of Pinecrest, Village of Palmetto Bay, Town of Cutler Bay, City of Homestead, and Florida City.

BRT to begin by 2022



SOUTH CORRIDOR RAPID TRANSIT PROJECT



STATION RENDERING

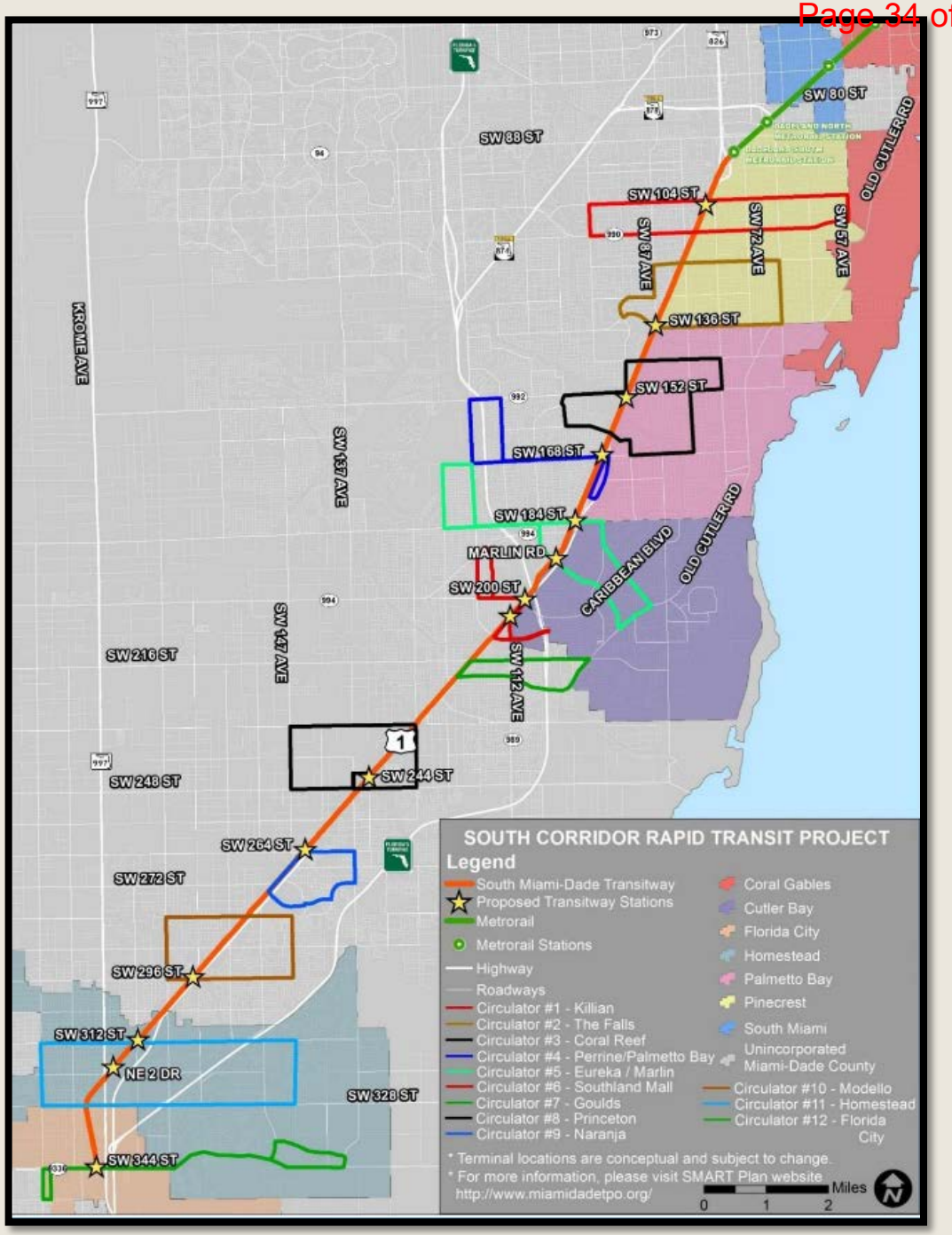
DRAFT – South Dade Rapid Transit Corridor PD&E August 2018

SOUTH DADE RAPID TRANSIT CORRIDOR PROJECT

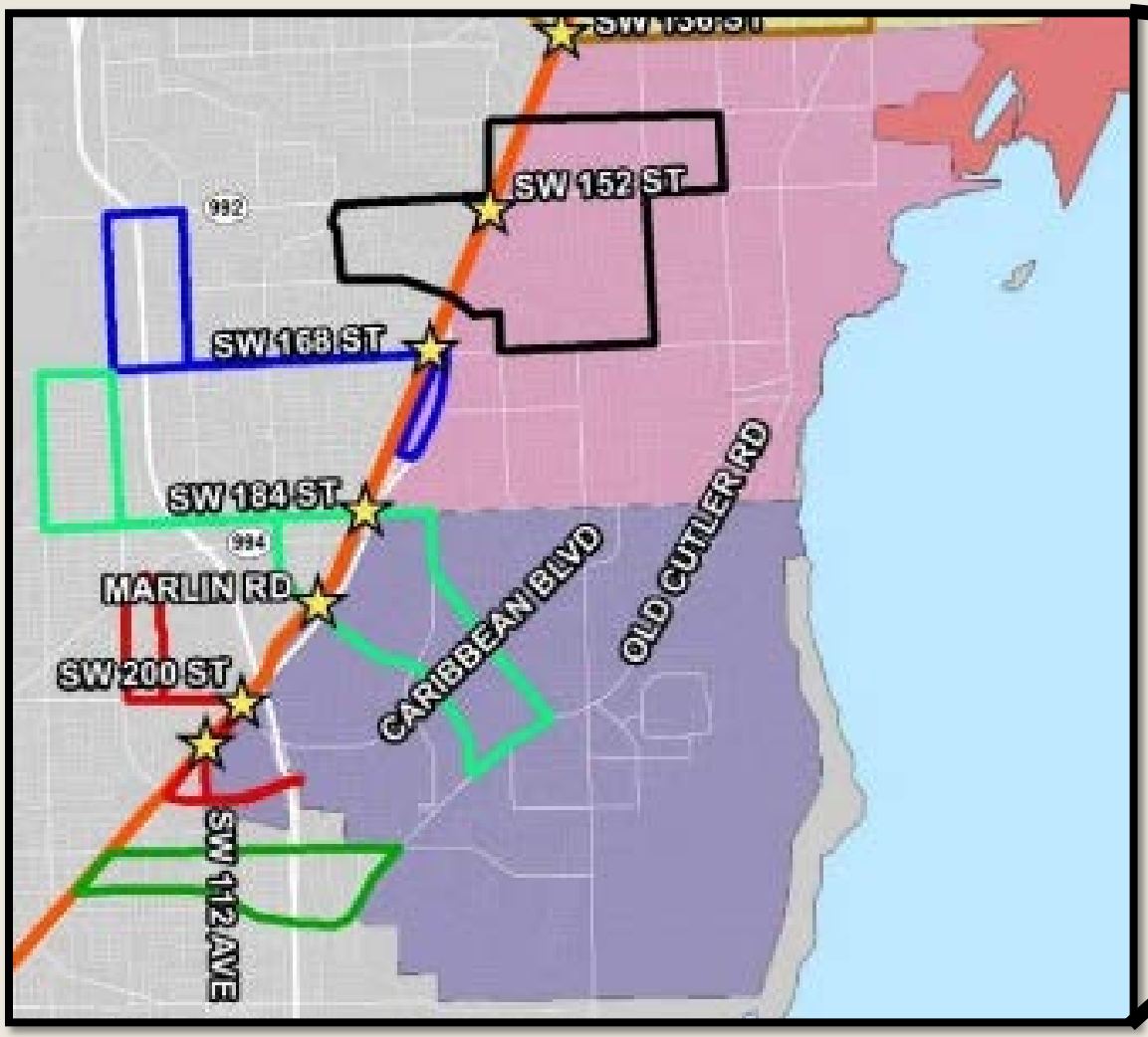
Feeder Bus Program

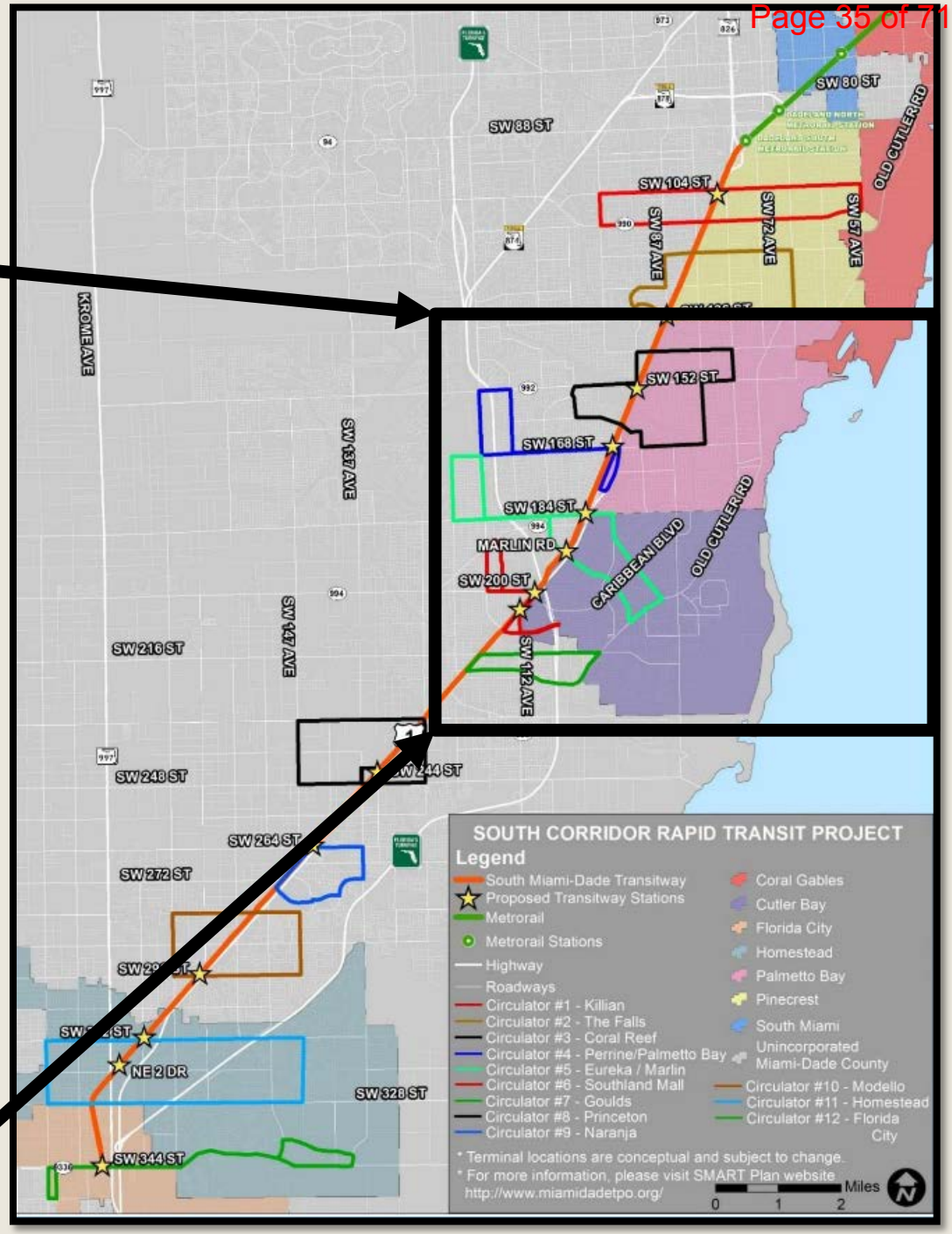
DRAFT PD&E August 2018

- First and Last Mile Connection
- Based on Input Received along the Corridor
- Municipalities along Transitway May Restructure their Existing Local Bus Service
- Explore Partnership Options with Transportation Network Companies (TNC's)
- Future: Autonomous/Connected Vehicles Could Replace Current Technology



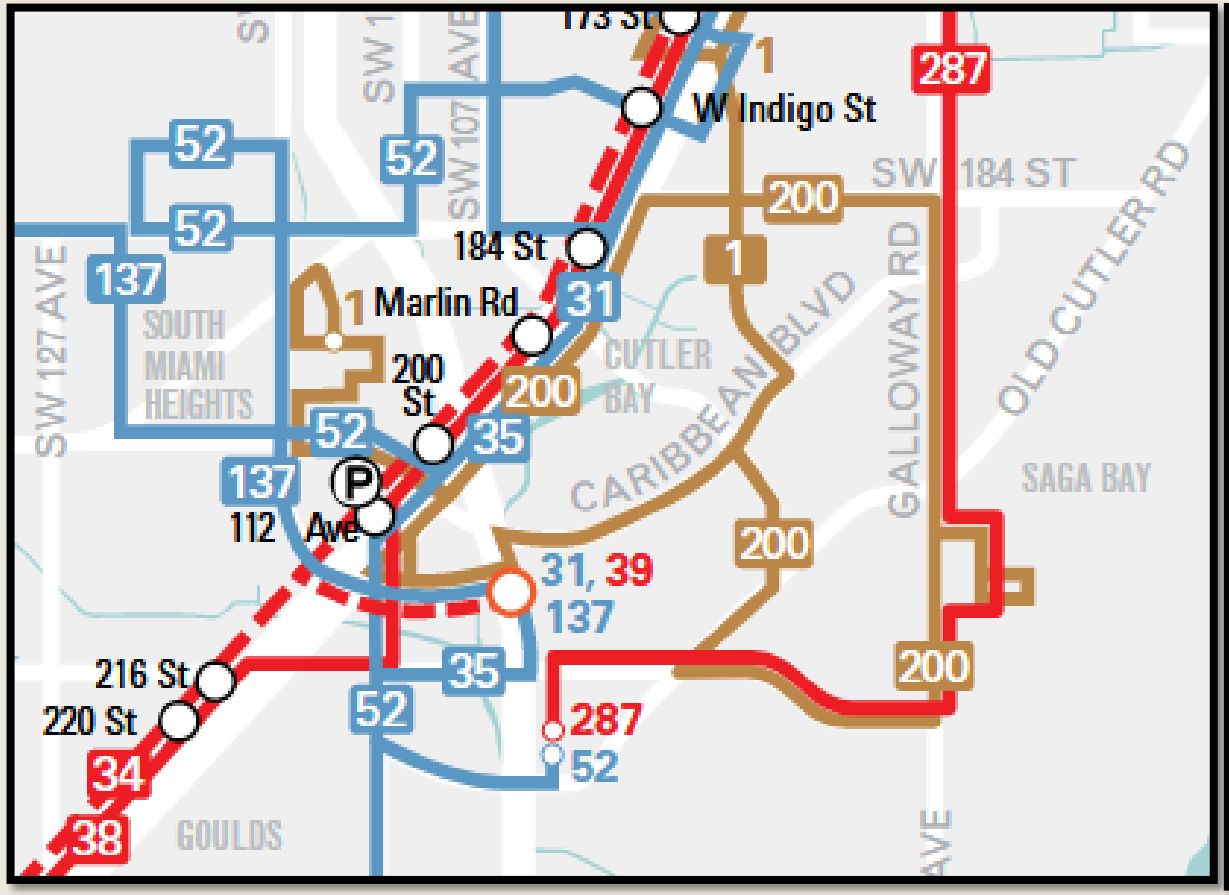
BUS FEEDER SYSTEM



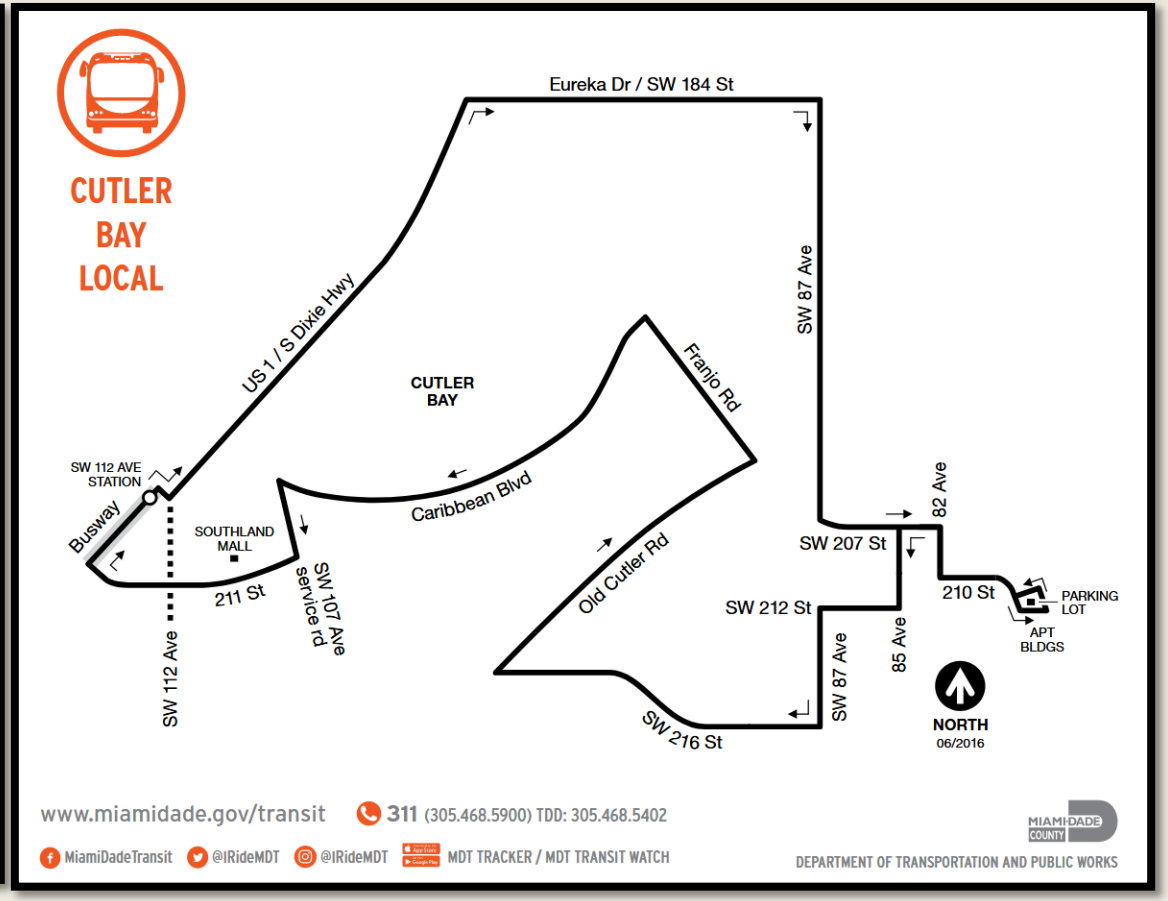


EXISTING BUS SERVICE

MetroBus



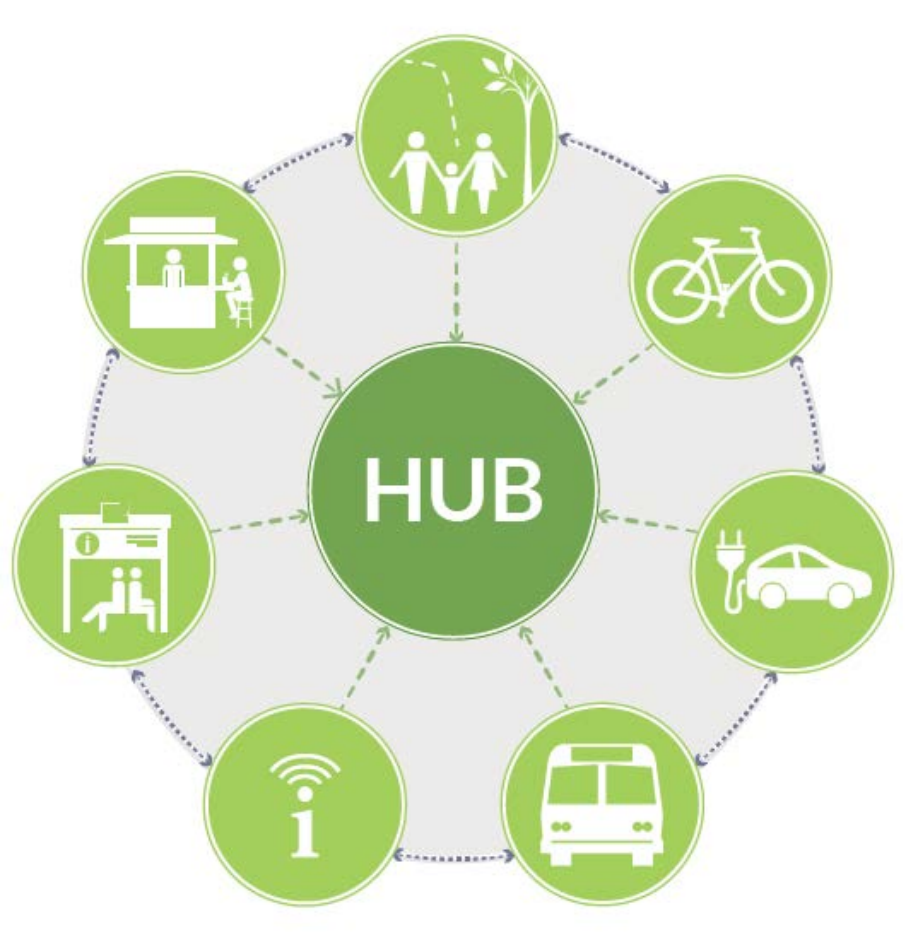
Town Circulator (Route 200)



WHAT IS A MOBILITY HUB?

"a location where more than one transit route converge, an area where bicycle and pedestrians have access to local land uses, major generators and have land uses that cater the mass movement of commuters."

– Town of Cutler Bay Complete Streets Corridor Analysis



LA Department of Planning *Mobility Hubs A Reader's Guide*

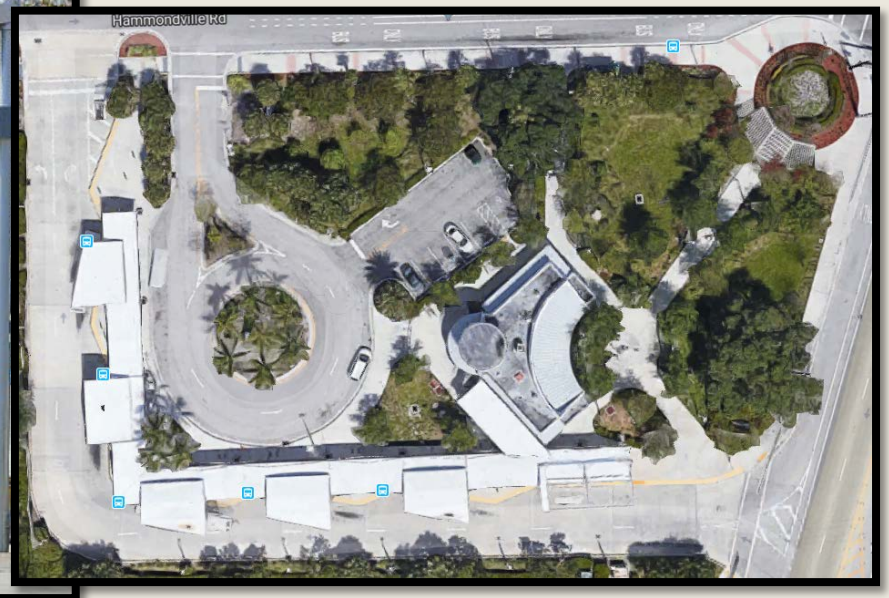
TRANSIT AMENITIES

PEDESTRIAN AMENITIES

BIKE AMENITIES

MOTORIZED SERVICES AMENITIES

SUPPORT SERVICES & AMENITIES



ICTC - *Mobility Hub Features Catalog*

PLANS REVIEWED

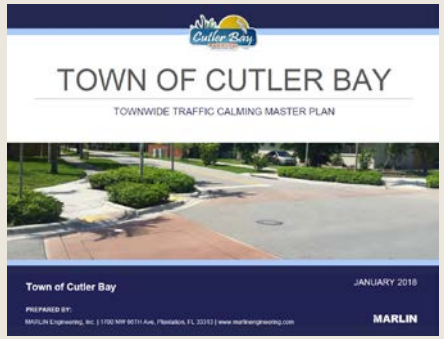
TASK 1

TOWN PLANS

- Growth Management Plan
- Transportation Master Plan
- Bicycle & Pedestrian Master Plan
- Complete Streets Corridor Analysis
- Townwide Traffic Calming Master Plan

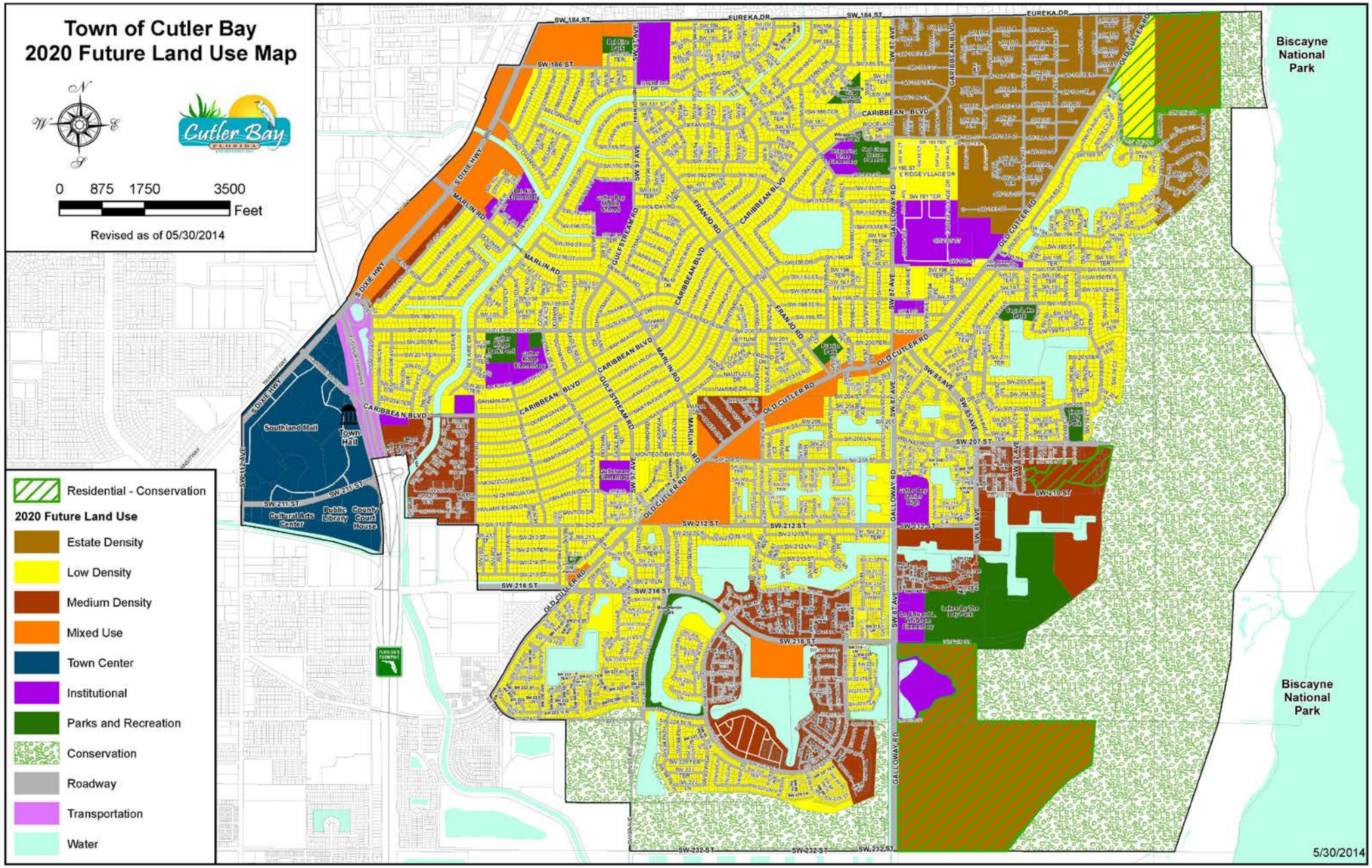
COUNTY PLANS

- Evaluation of Multimodal Mobility Options in South Miami-Dade Area
- Countywide Bus and Auto/Rideshare Access to Transit Facility Assessment Study
- Vision Zero
- First Mile – Last Mile: Options with High Trip Generator Employers
- The SMART Plan – South Dade Transitway Corridor

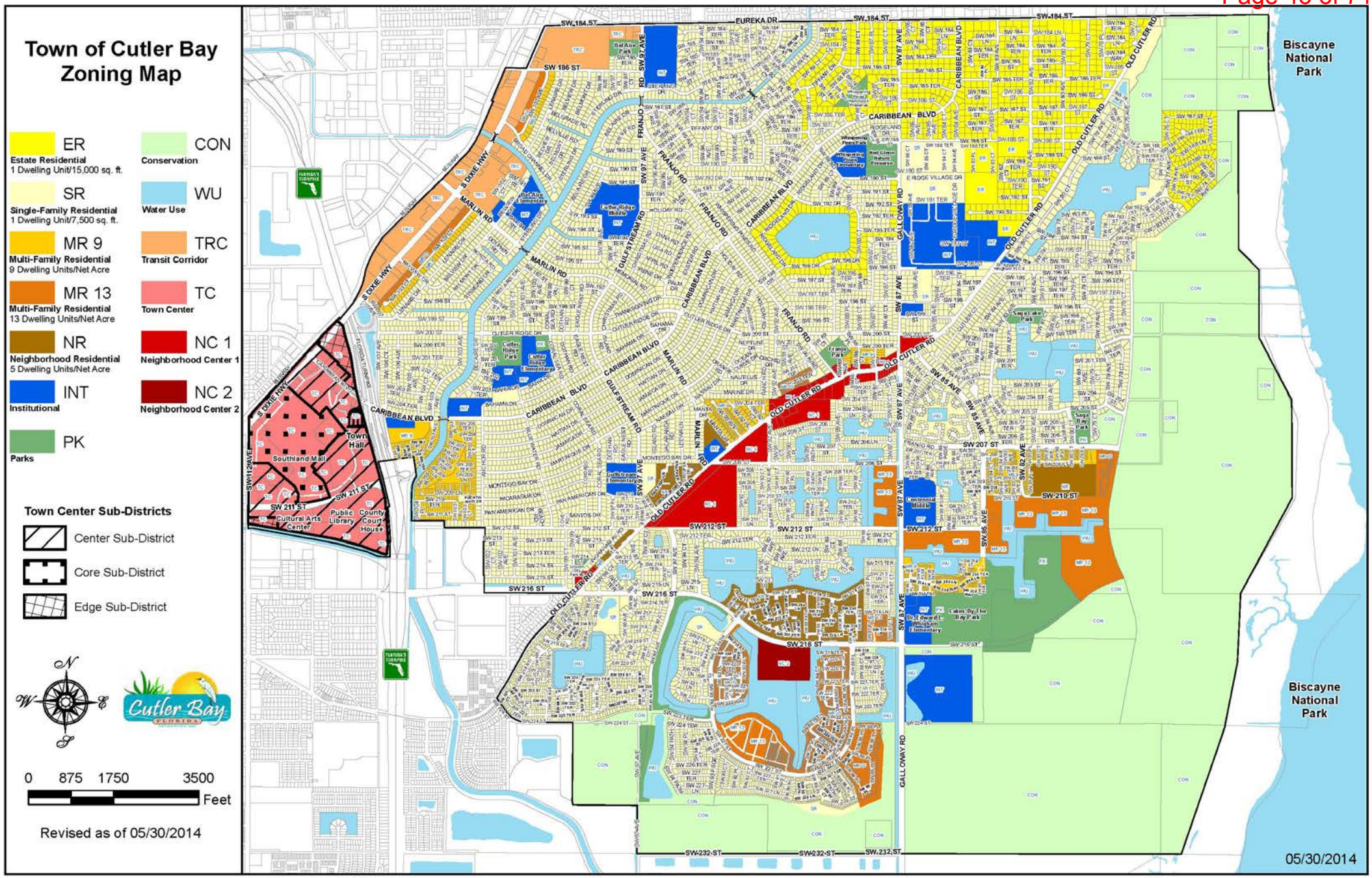


PLANNING & DEVELOPMENT

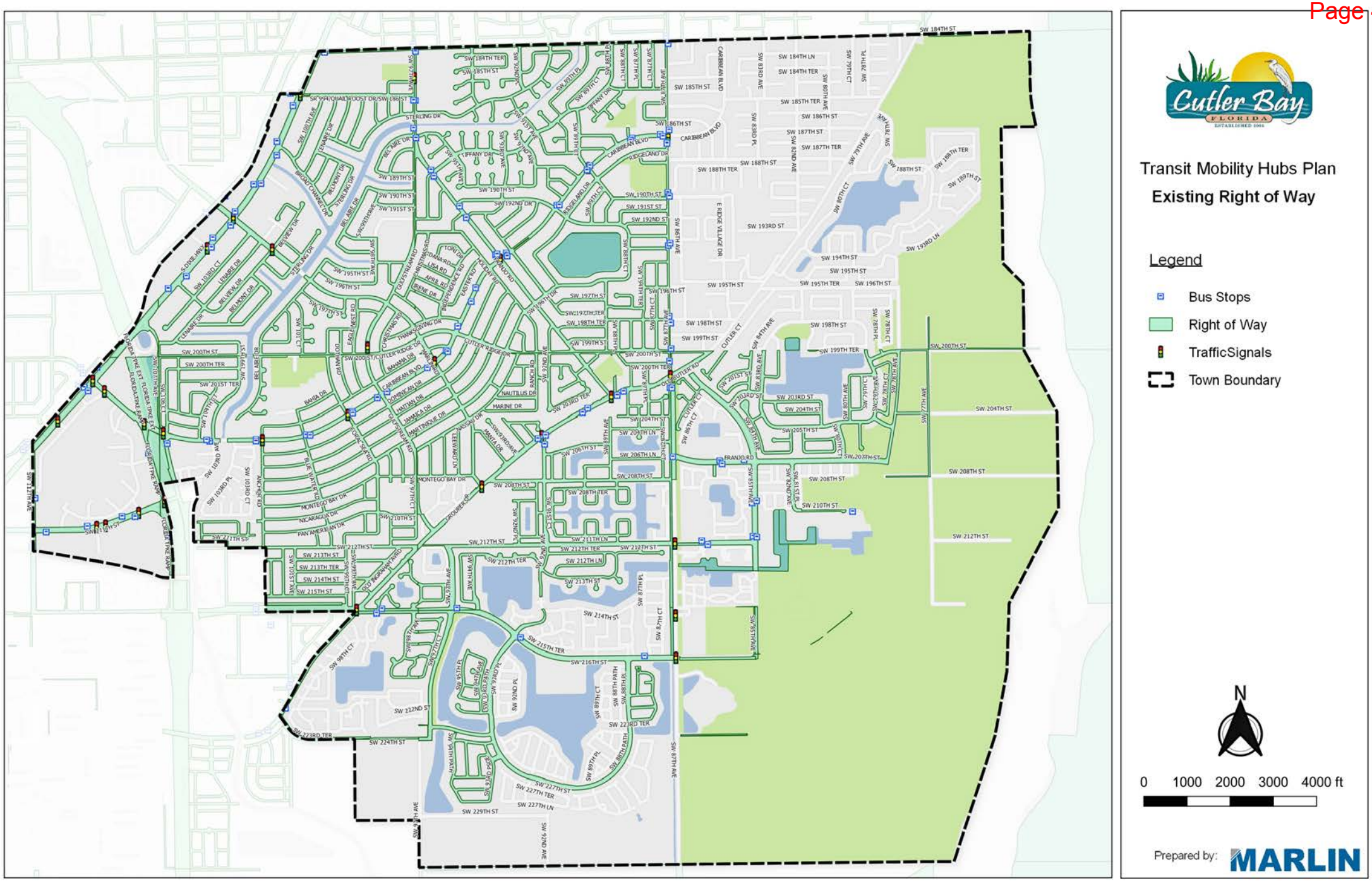
FUTURE LAND USE MAP



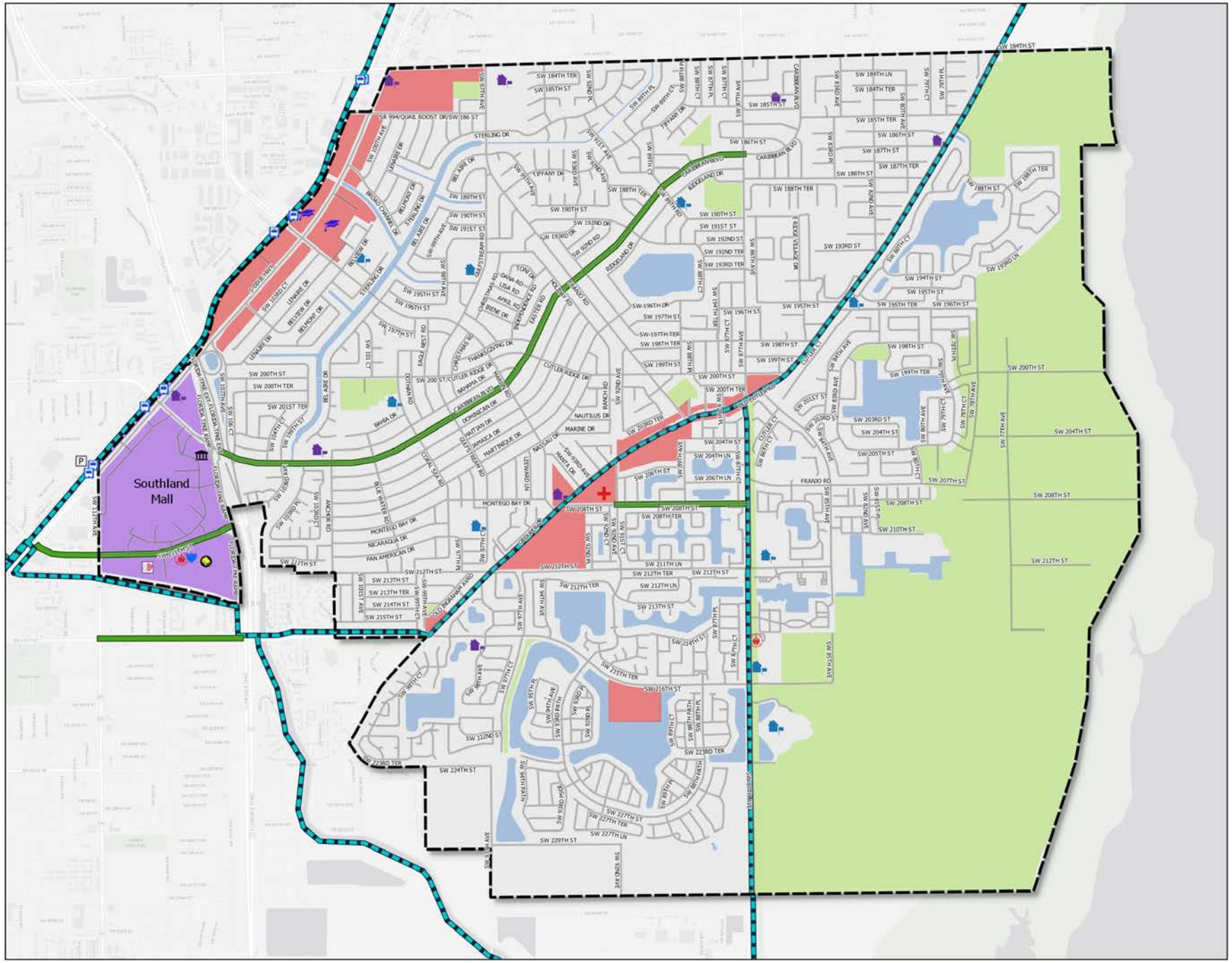
ZONING MAP


Town of Cutler Bay
Zoning Map
ER
Estate Residential
1 Dwelling Unit/15,000 sq. ft.
SR
Single-Family Residential
1 Dwelling Unit/7,500 sq. ft.
MR 9
Multi-Family Residential
9 Dwelling Units/Net Acre
MR 13
Multi-Family Residential
13 Dwelling Units/Net Acre
NR
Neighborhood Residential
5 Dwelling Units/Net Acre
INT
Institutional
PK
Parks
CON
Conservation
WU
Water Use
TRC
Transit Corridor
TC
Town Center
NC 1
Neighborhood Center 1
NC 2
Neighborhood Center 2
Town Center Sub-Districts
Center Sub-District
Core Sub-District
Edge Sub-District
0 875 1750 3500
Feet
Revised as of 05/30/2014
Biscayne National Park
Biscayne National Park
05/30/2014

ROW Map


Cutler Bay
FLORIDA
Transit Mobility Hubs Plan
Existing Right of Way
Legend
Bus Stops
Right of Way
TrafficSignals
Town Boundary
N
0 1000 2000 3000 4000 ft
Prepared by: MARLIN

POINTS OF INTEREST MAP



Cutler Bay FLORIDA

Transit Mobility Hubs Plan

Points of Interest

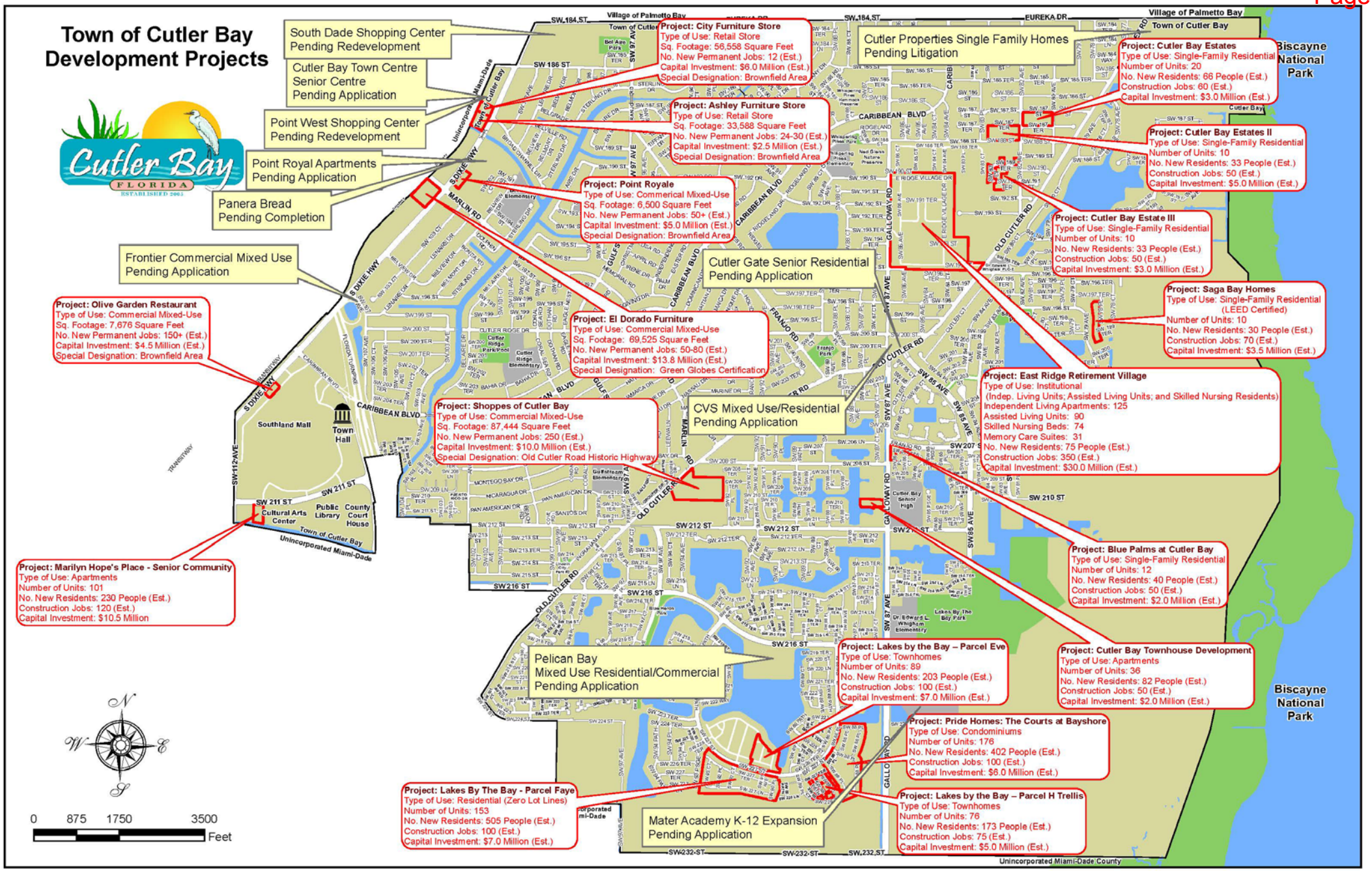
- Transitway Station
- Park & Ride
- Cultural Arts Complex
- Hospital
- Town Hall
- Commercial
- Town Center
- Park
- Police Station
- Fire Station
- Library
- College
- Private School
- Public School
- Town Boundary

N

0 2500 5000 ft

Prepared by: MARLIN

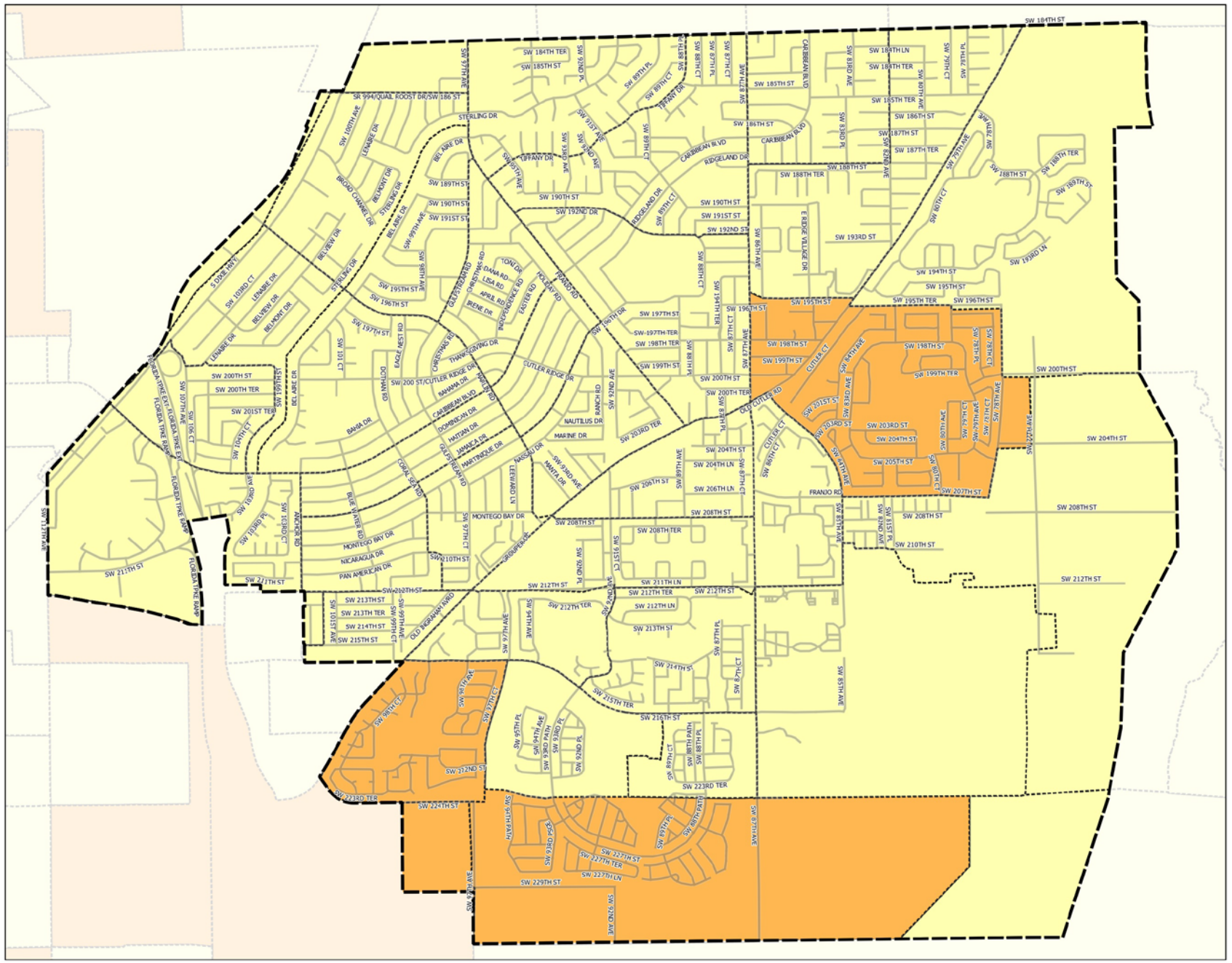
DEVELOPMENT PROJECTS



POPULATION

DATA

POPULATION DENSITY MAP



Cutler Bay FLORIDA ESTABLISHED 2005

Transit Mobility Hubs Plan

Population 2010 Census

Legend

Population

- 0 - 2000
- 2000 - 4000
- 4000 - 6000
- 6000 - 7898

N

0 1000 2000 3000 4000 ft

Prepared by: MARLIN

STATS

Population (Est. 2017): 45,101

Median Age: 36.2

Households: 12,682

Housing: 71% Owner Occupied

Median Value/Rent: $235,000/$1,442

Mean Travel Time to Work: 41.6 Minutes

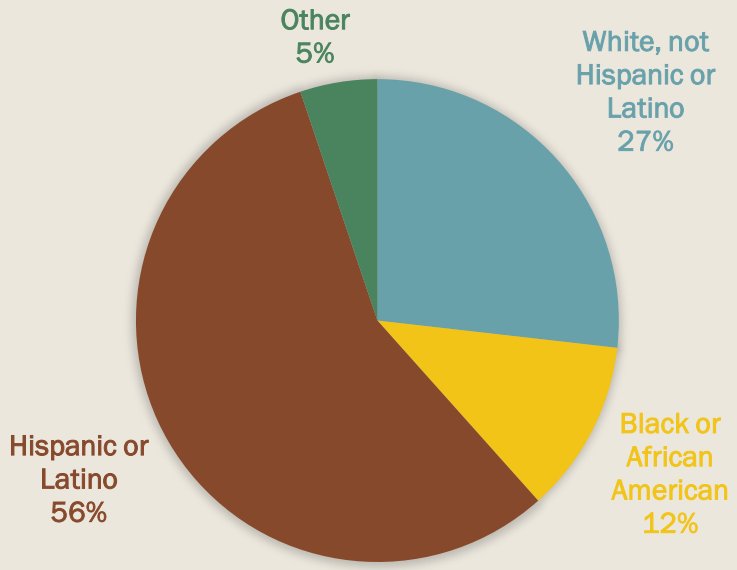
Median HH Income: $70,473

Language Other than English: 54.8%

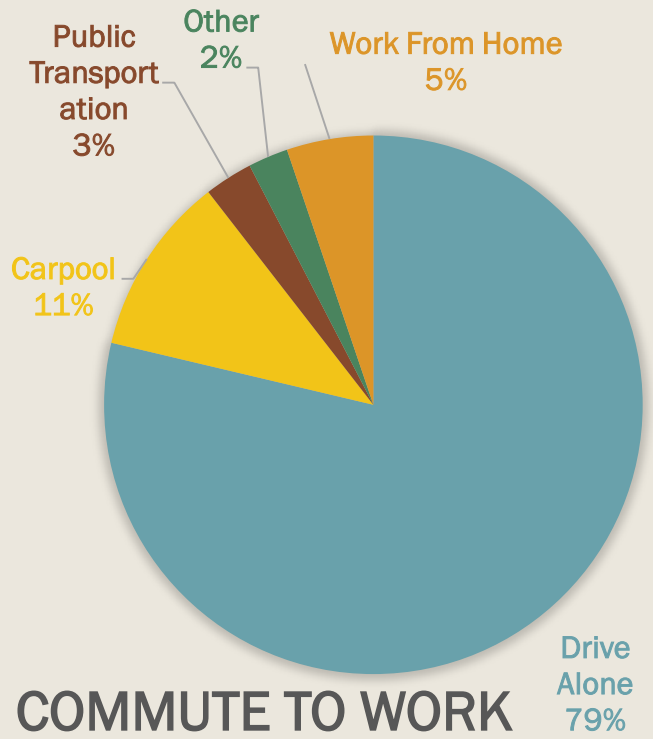
High School Graduate or Higher: 89.1%

-Census QuickFacts

RACE & ORIGIN



COMMUTE TO WORK

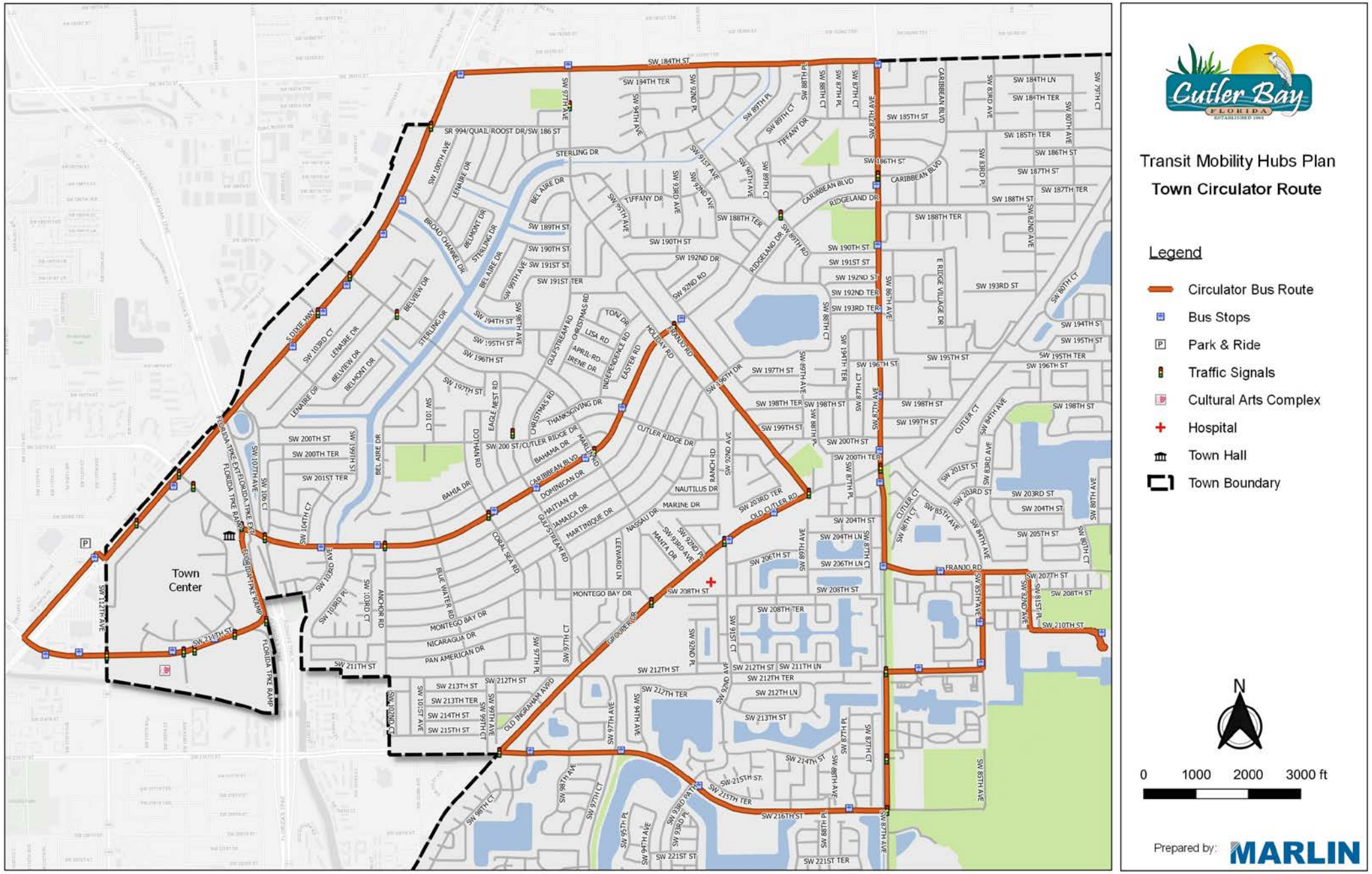


TRANSIT

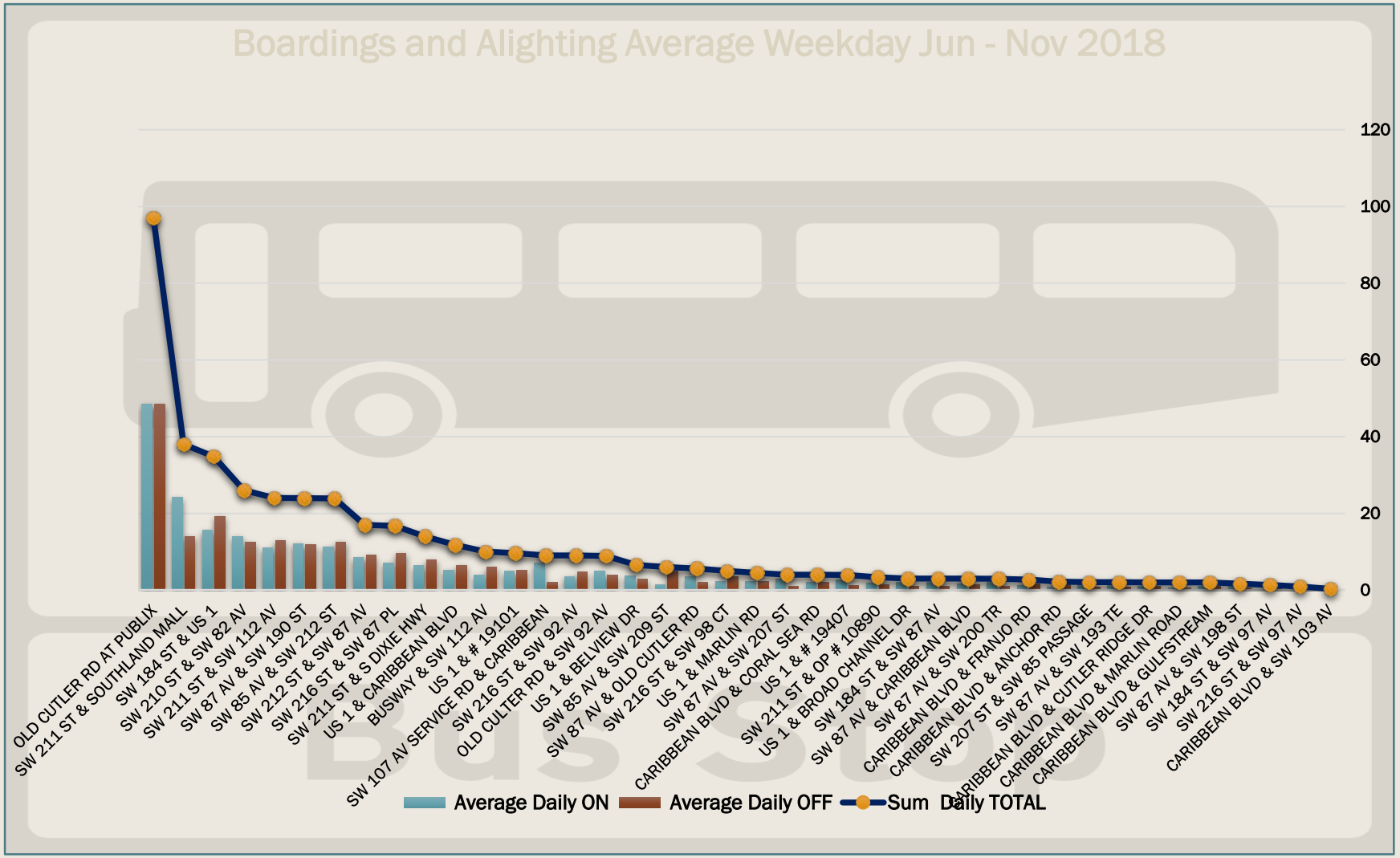
DATA

TOWN CIRCULATOR

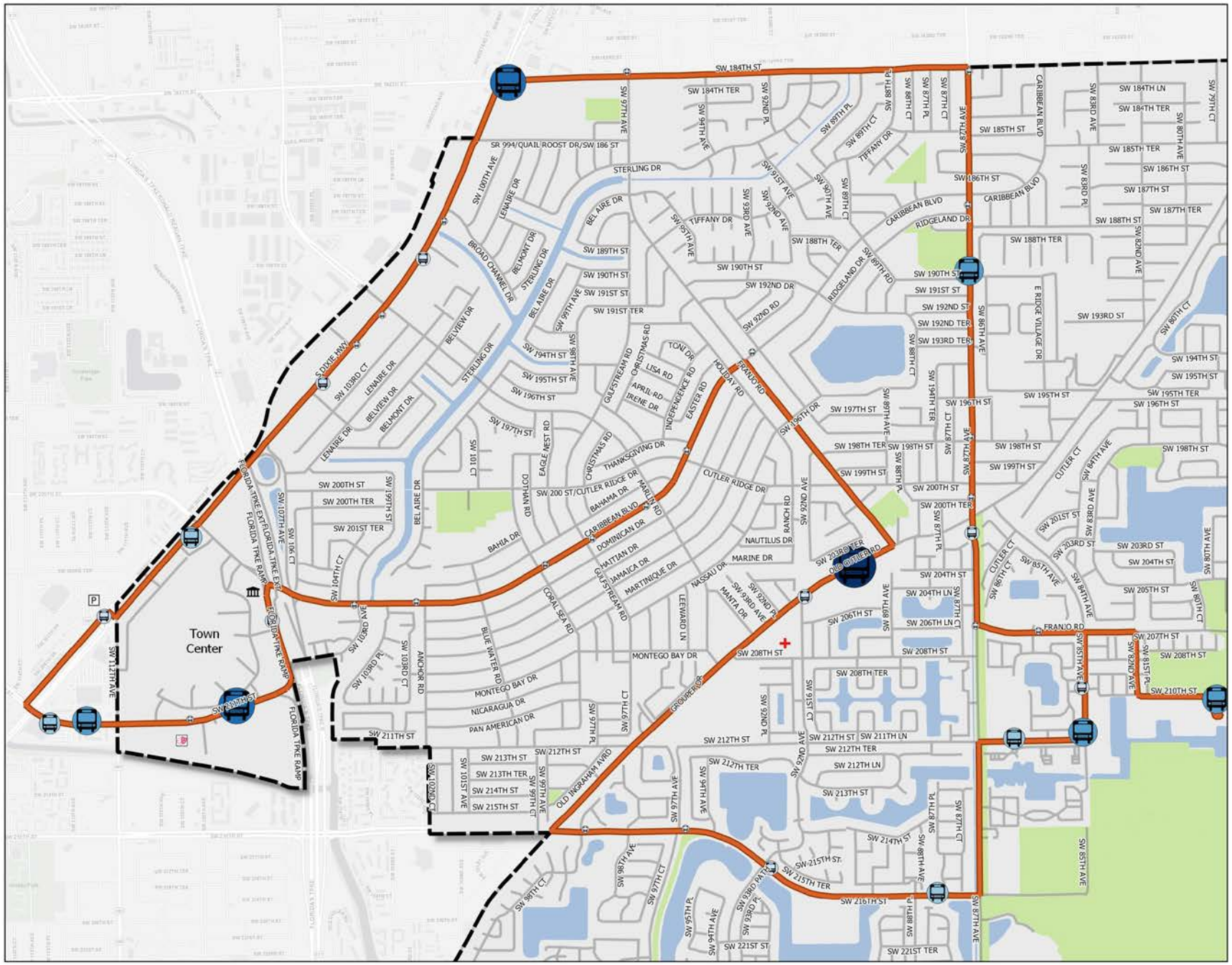
(Route 200)



RIDERSHIP


Boardings and Alighting Average Weekday Jun - Nov 2018
120
100
80
60
40
20
0
OLD CUTLER RD AT PUBLIX
SW 211 ST & SOUTHLAND MALL
SW 184 ST & US 1
SW 210 ST & SW 82 AV
SW 211 ST & SW 112 AV
SW 87 AV & SW 190 ST
SW 85 AV & SW 212 ST
SW 212 ST & SW 87 AV
SW 216 ST & SW 87 PL
SW 211 ST & S DIXIE HWY
US 1 & CARIBBEAN BLVD
BUSWAY & SW 112 AV
SW 107 AV SERVICE RD & CARIBBEAN
US 1 & # 19101
SW 216 ST & SW 92 AV
OLD CULTER RD & SW 92 AV
US 1 & BELVIEW DR
SW 85 AV & SW 209 ST
SW 87 AV & OLD CUTLER RD
SW 216 ST & SW 98 CT
US 1 & MARLIN RD
SW 87 AV & SW 207 ST
CARIBBEAN BLVD & CORAL SEA RD
US 1 & # 19407
SW 211 ST & OP # 10890
US 1 & BROAD CHANNEL DR
SW 184 ST & SW 87 AV
SW 87 AV & CARIBBEAN BLVD
SW 87 AV & SW 200 TR
CARIBBEAN BLVD & FRANJO RD
CARIBBEAN BLVD & ANCHOR RD
SW 207 ST & SW 85 PASSAGE
SW 87 AV & SW 193 TE
CARIBBEAN BLVD & CUTLER RIDGE DR
CARIBBEAN BLVD & MARLIN ROAD
SW 87 AV & SW 198 ST
SW 184 ST & SW 97 AV
SW 216 ST & SW 97 AV
CARIBBEAN BLVD & SW 103 AV
Bus Stop
Average Daily ON
Average Daily OFF
Sum Daily TOTAL

AVERAGE DAILY RIDERSHIP



Cutler Bay FLORIDA

Transit Mobility Hubs Plan

Town Circulator
Average Daily Ridership

Legend

- Circulator Bus Route
- Park & Ride
- Cultural Arts Complex
- Hospital
- Town Hall
- Town Boundary

Ridership Per Stop

- 0.0 - 5.0
- 5.0 - 10.0
- 10.0 - 17.0
- 17.0 - 26.0
- 26.0 - 38.0
- 38.0 - 97.0

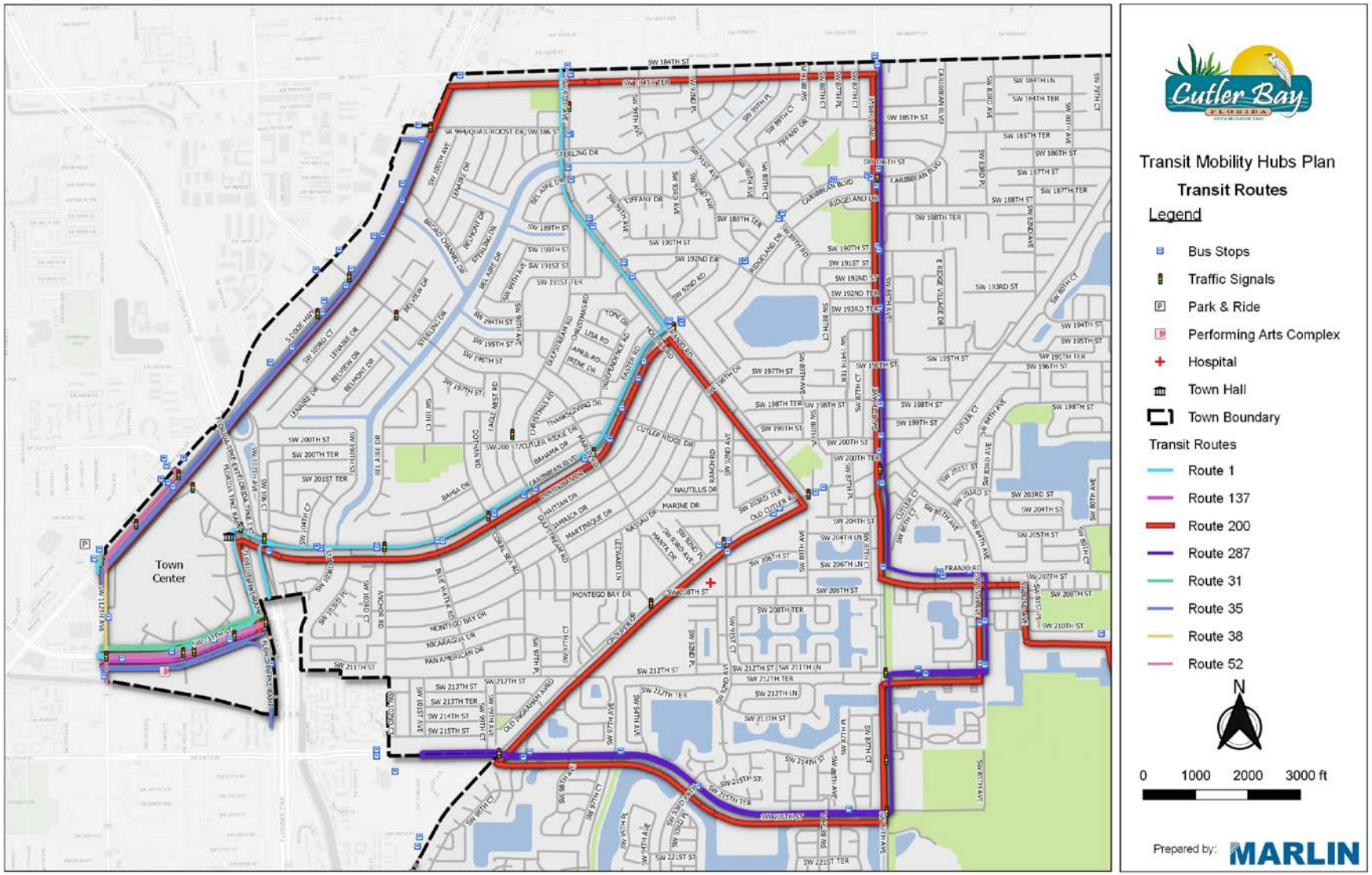
N

0 1000 2000 3000 ft

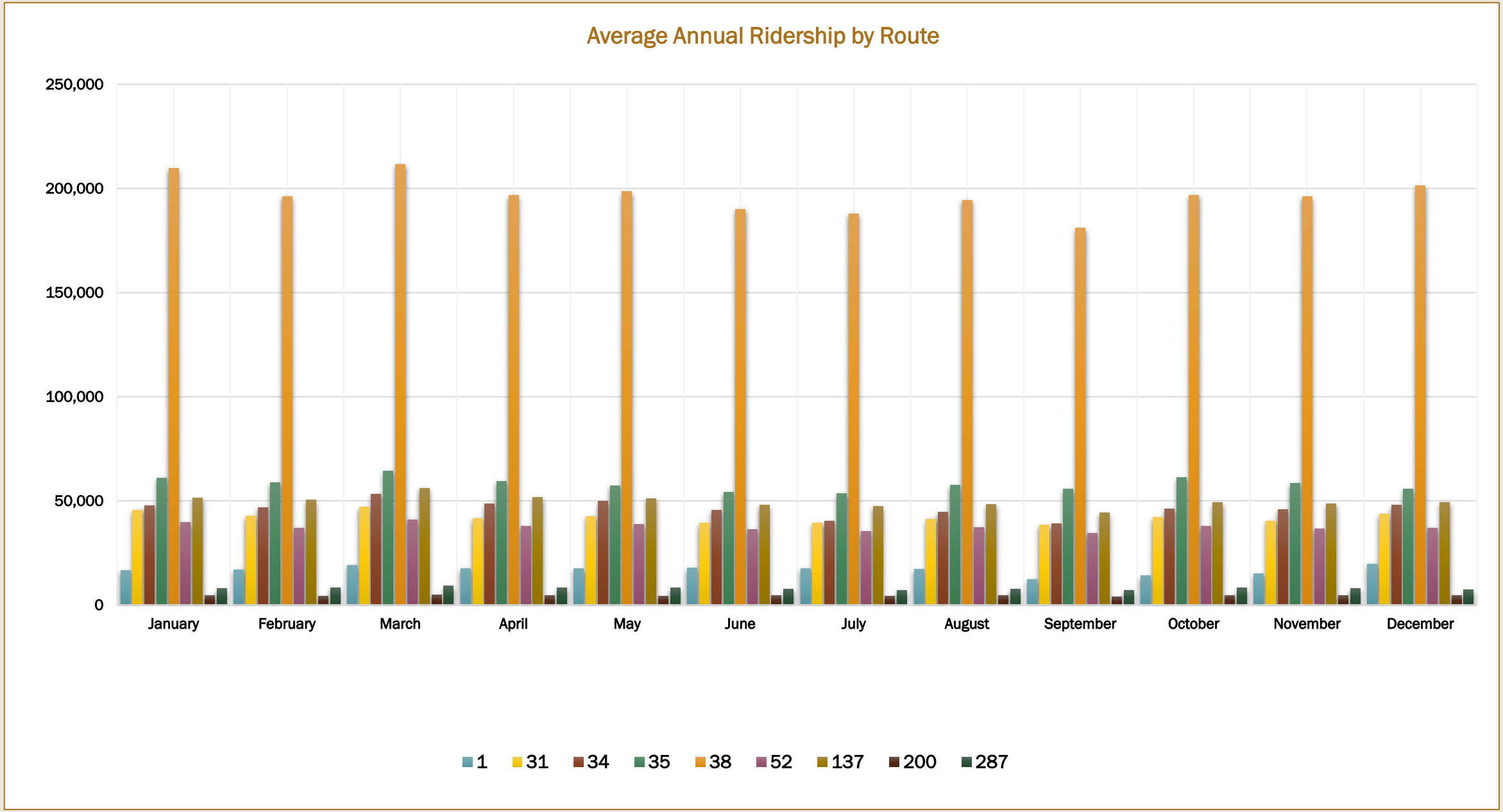
Prepared by: MARLIN

METROBUS ROUTES

- Route 1
- Route 31 Busway Local
- Route 34 Express (limited stop)
- Route 35
- Route 38 Busway Max
- Route 52
- Route 137 West Dade Connection
- Route 287 Saga Bay Max

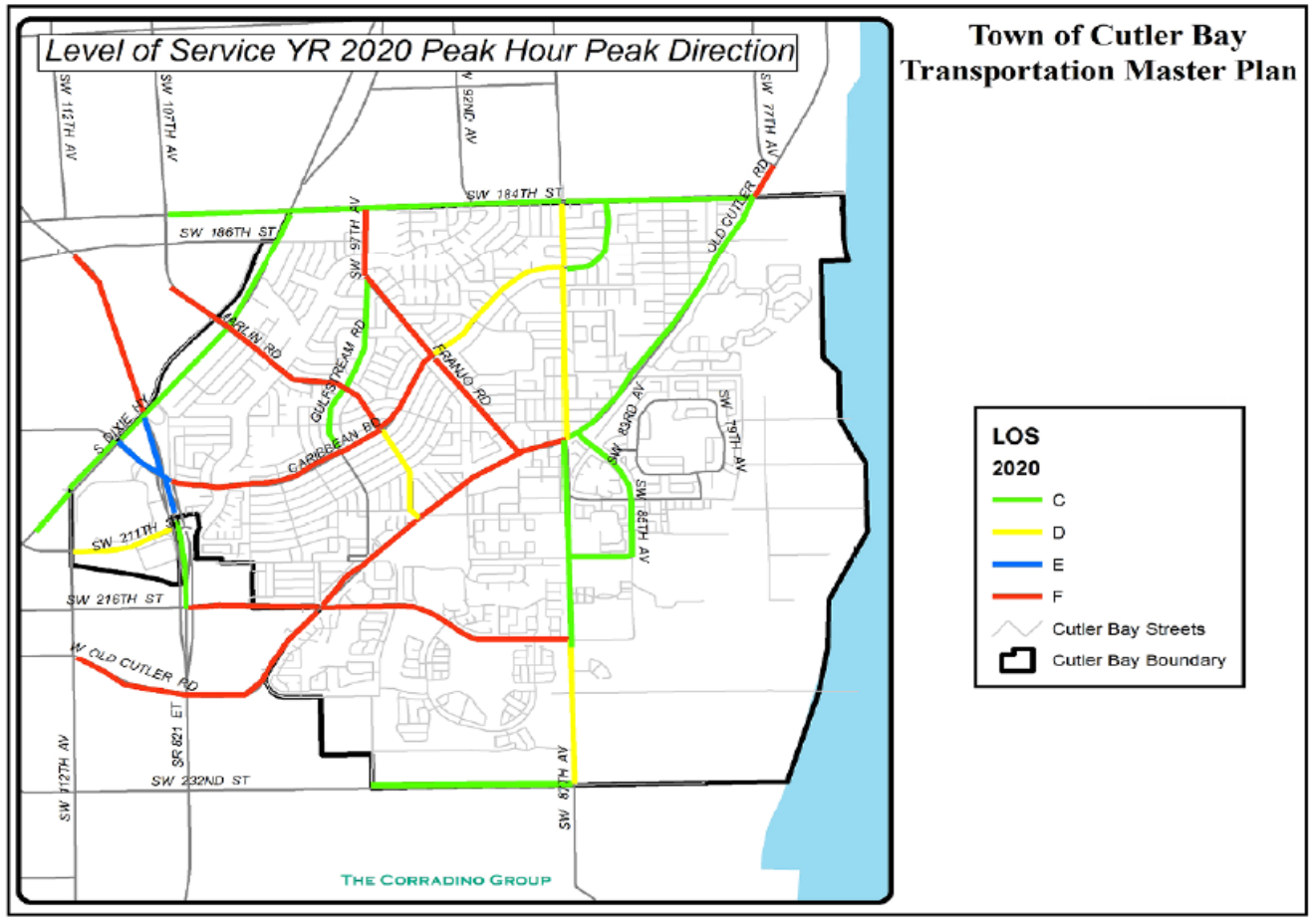


RIDERSHIP


Average Annual Ridership by Route
250,000
200,000
150,000
100,000
50,000
0
January
February
March
April
May
June
July
August
September
October
November
December
1
31
34
35
38
52
137
200
287

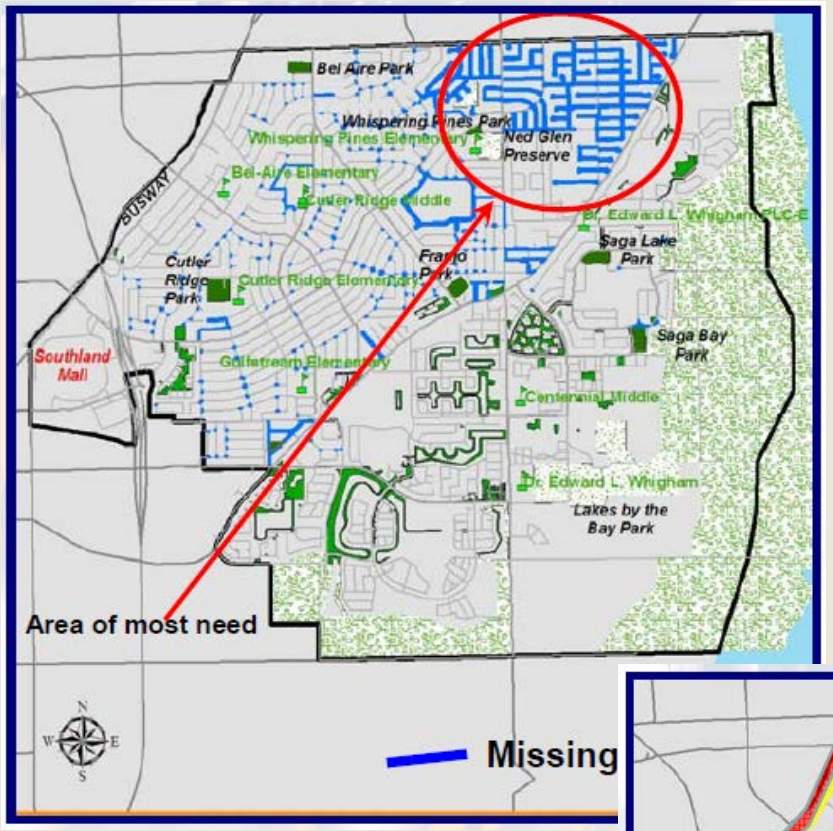
MAJOR ROADWAYS

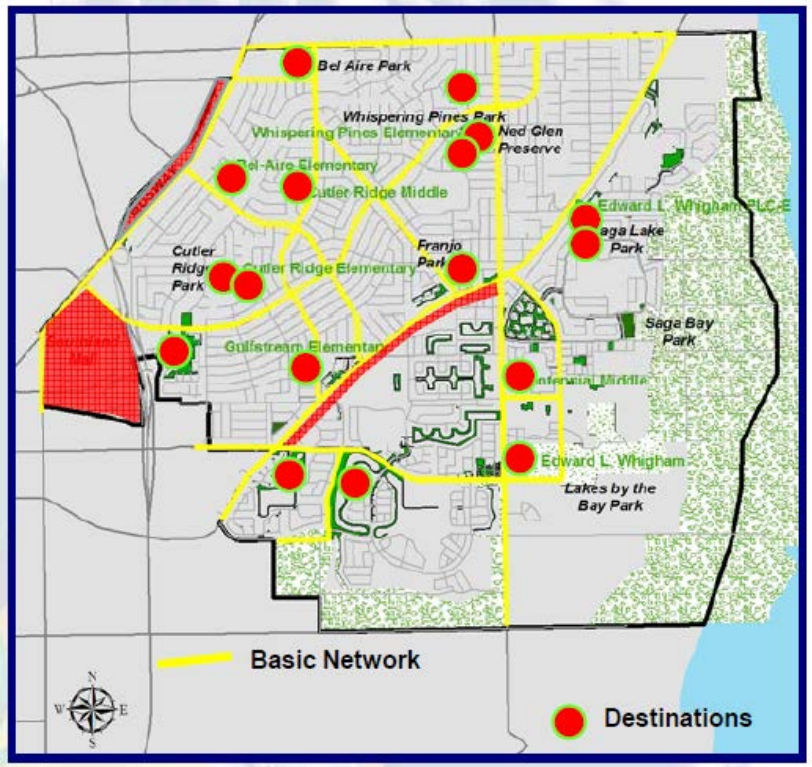
Road	Type	Road	Type
U.S. 1	Principal Arterial	SW 87th Avenue	Collector
Florida Turnpike (HEFT)	Principal Arterial	Franjo Road	Collector
Old Cutler Road	Principal Arterial	SW 97th Avenue	Collector
SW 216th Street	Principal Arterial	Marlin Road	Collector
SW 184th Street/Eureka Drive	Principal Arterial	Caribbean Boulevard	Collector
Old Cutler Road	Minor Arterial	SW 216th Street	Collector
SW 184th Street	Minor Arterial		
SW 216th Street	Minor Arterial		



PEDESTRIAN NETWORK

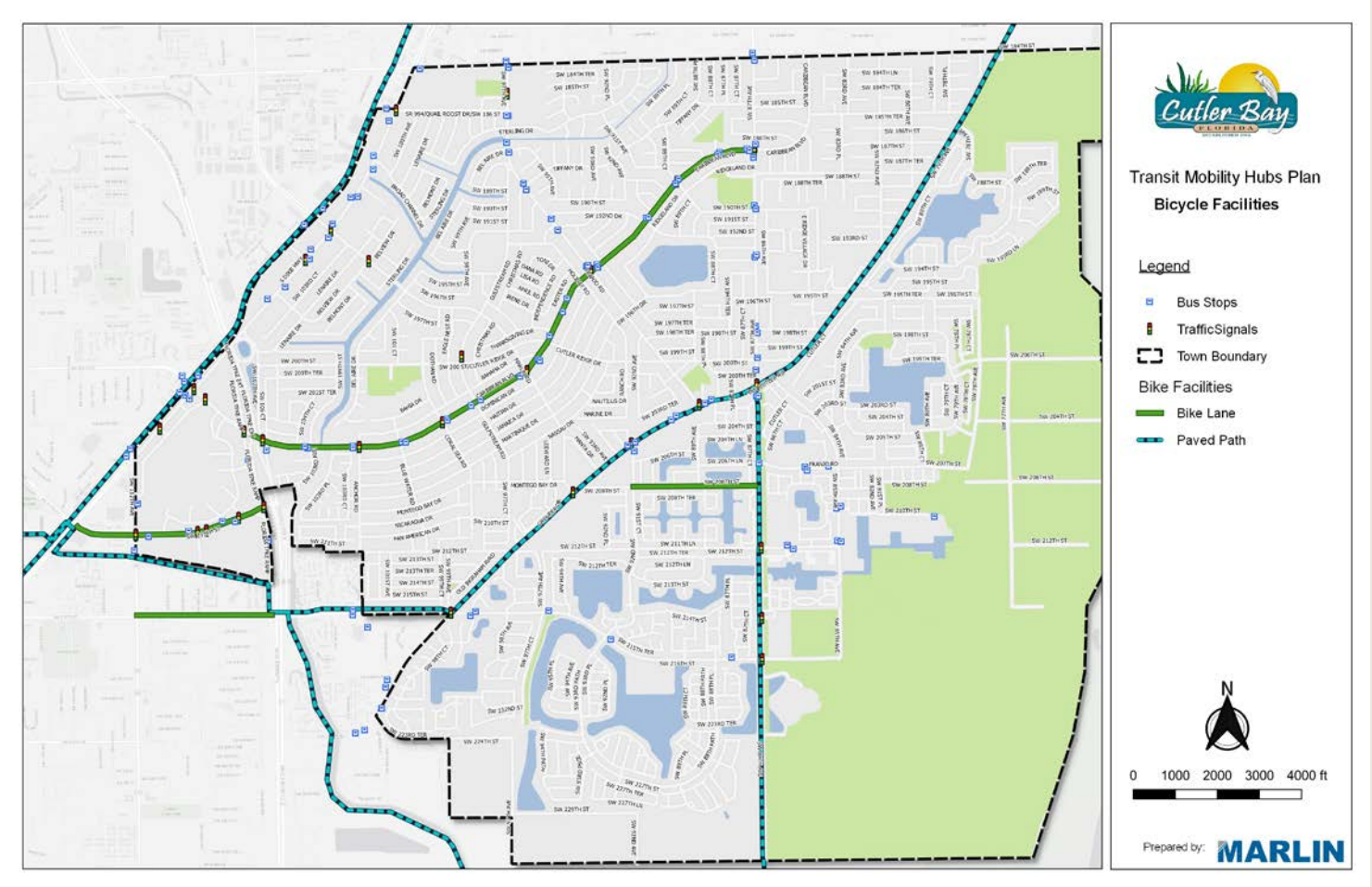
- Overall well developed network
- Missing sidewalks primarily in the northeast
- Town Center/Southland Mall has poor connectivity and little pedestrian connectivity
- 16 Bicycle & Pedestrian Destinations
- Overall LOS C





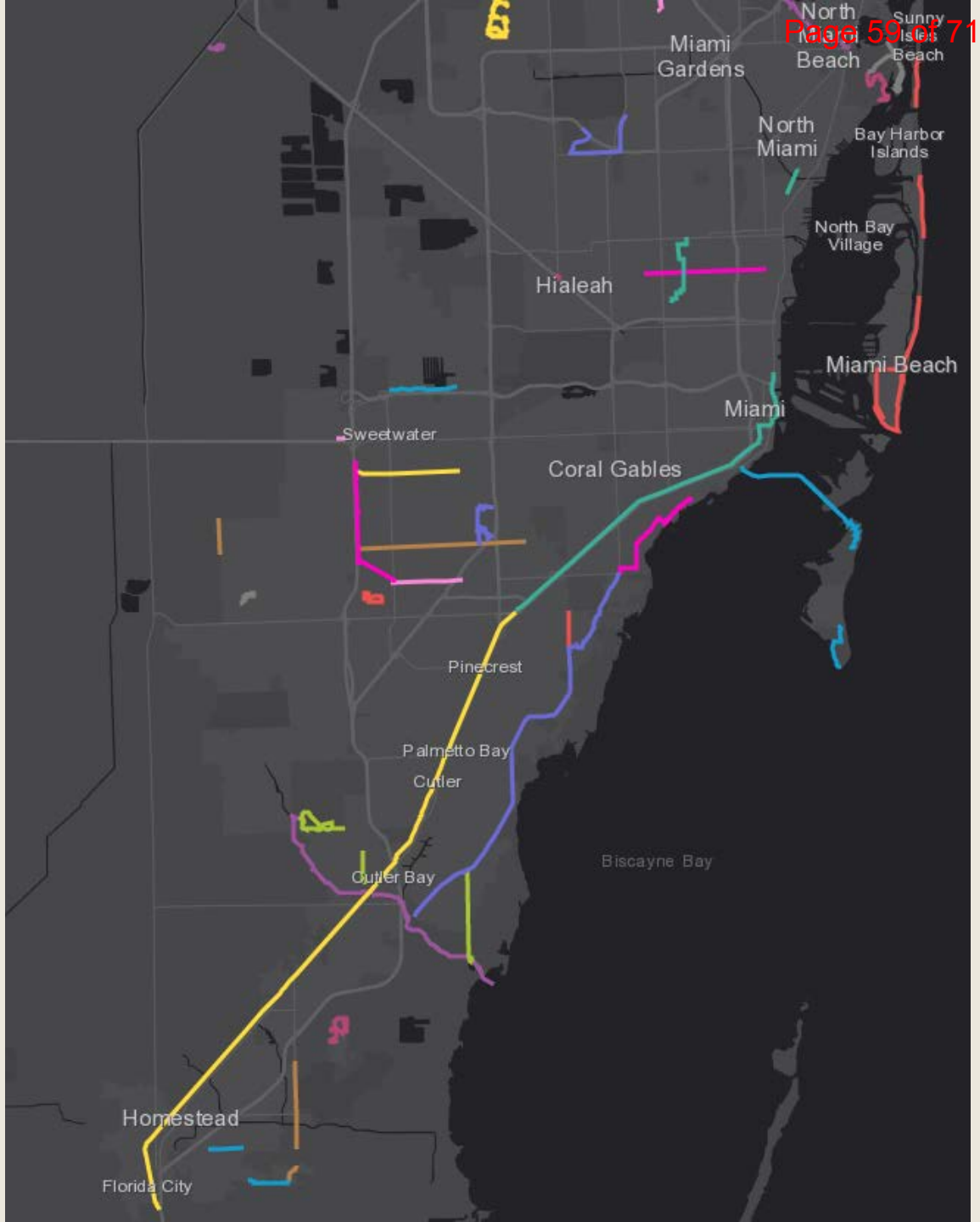
BICYCLE NETWORK

- Existing Bicycle Network
  - *Old Cutler Road*
  - *Caribbean Boulevard*
  - *SW 87th Avenue*
  - *SW 211th Street*
  - *SW 208th Street*



REGIONAL BICYCLE NETWORK

- Regionally connected
  - *Old Cutler Trail*
  - *Black Creek Trail*
  - *South Dade Trail*
  - *Biscayne Trail*

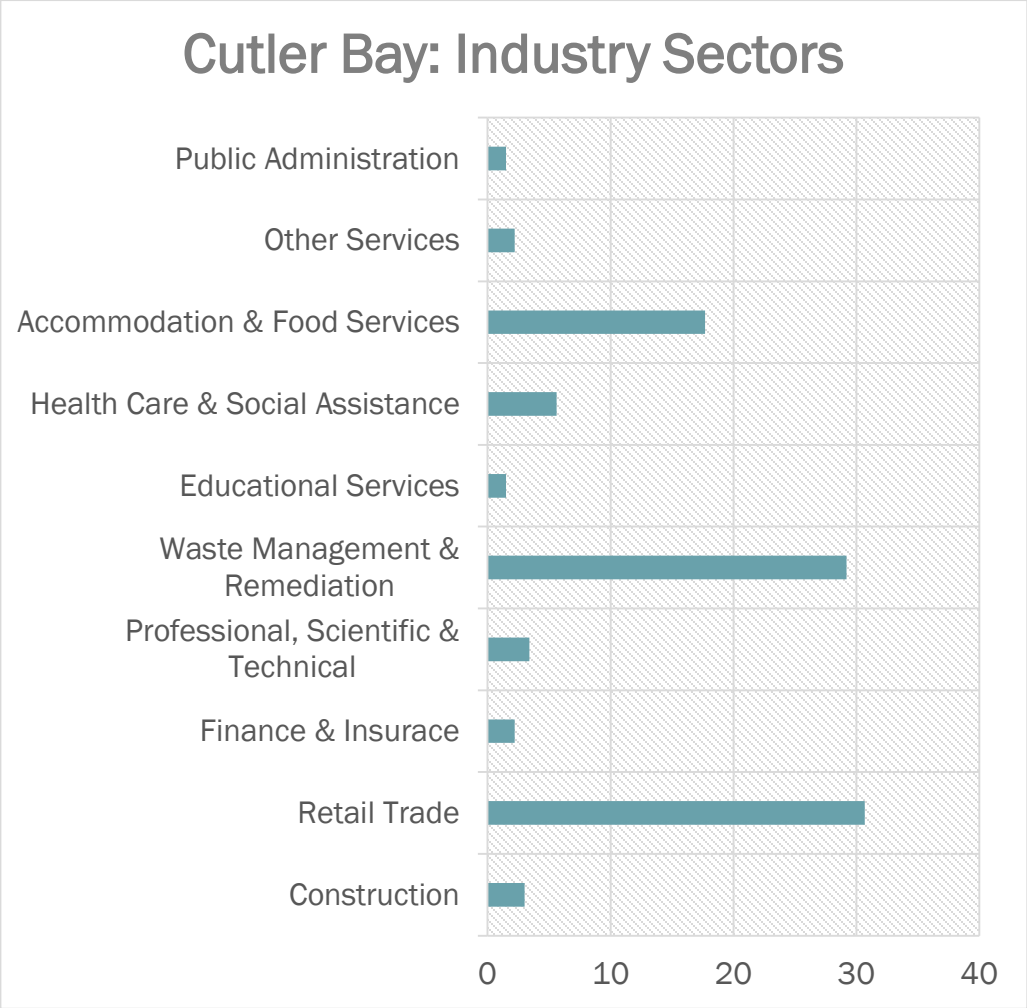


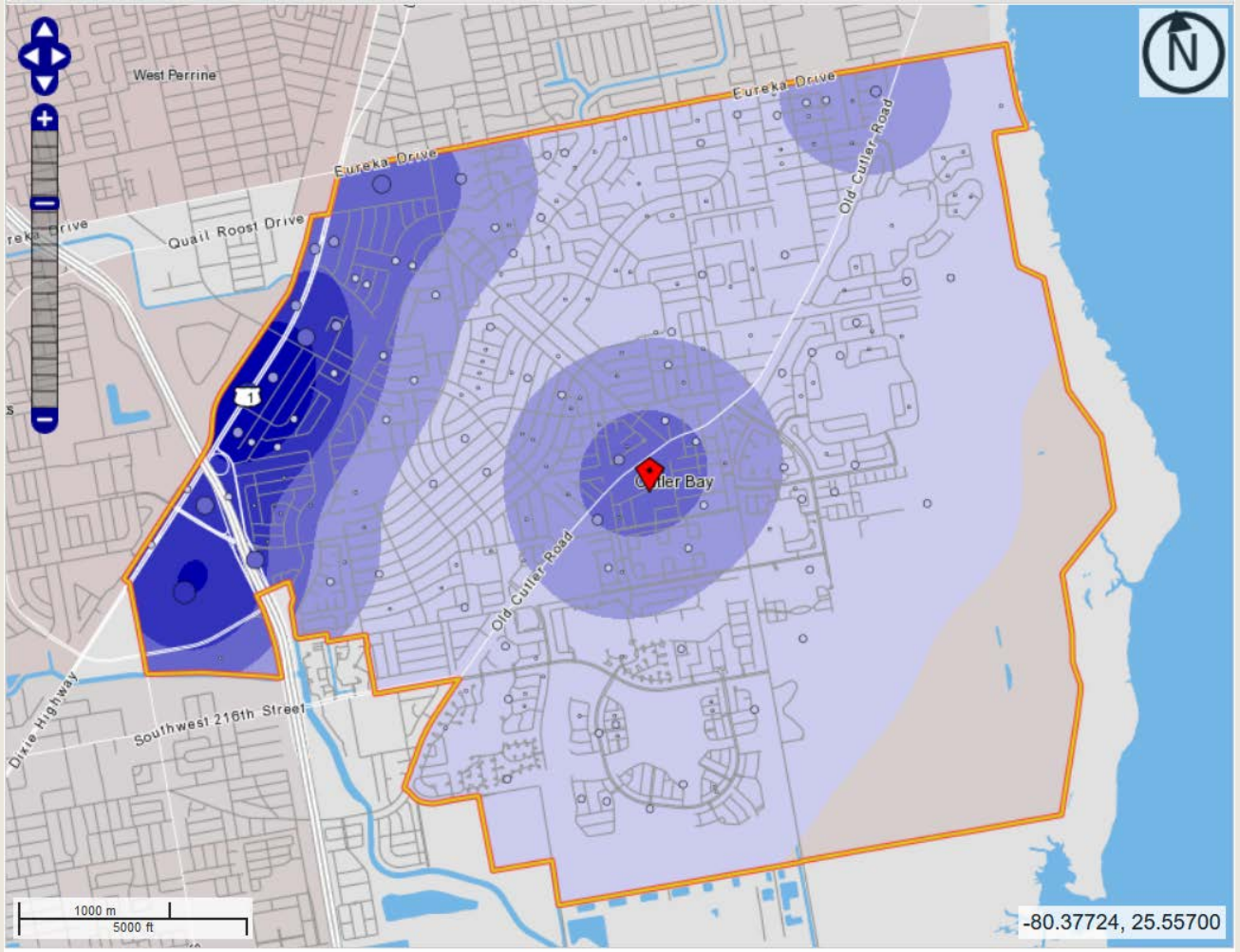
EMPLOYMENT

DATA

STATS

Businesses (2012): 5,941

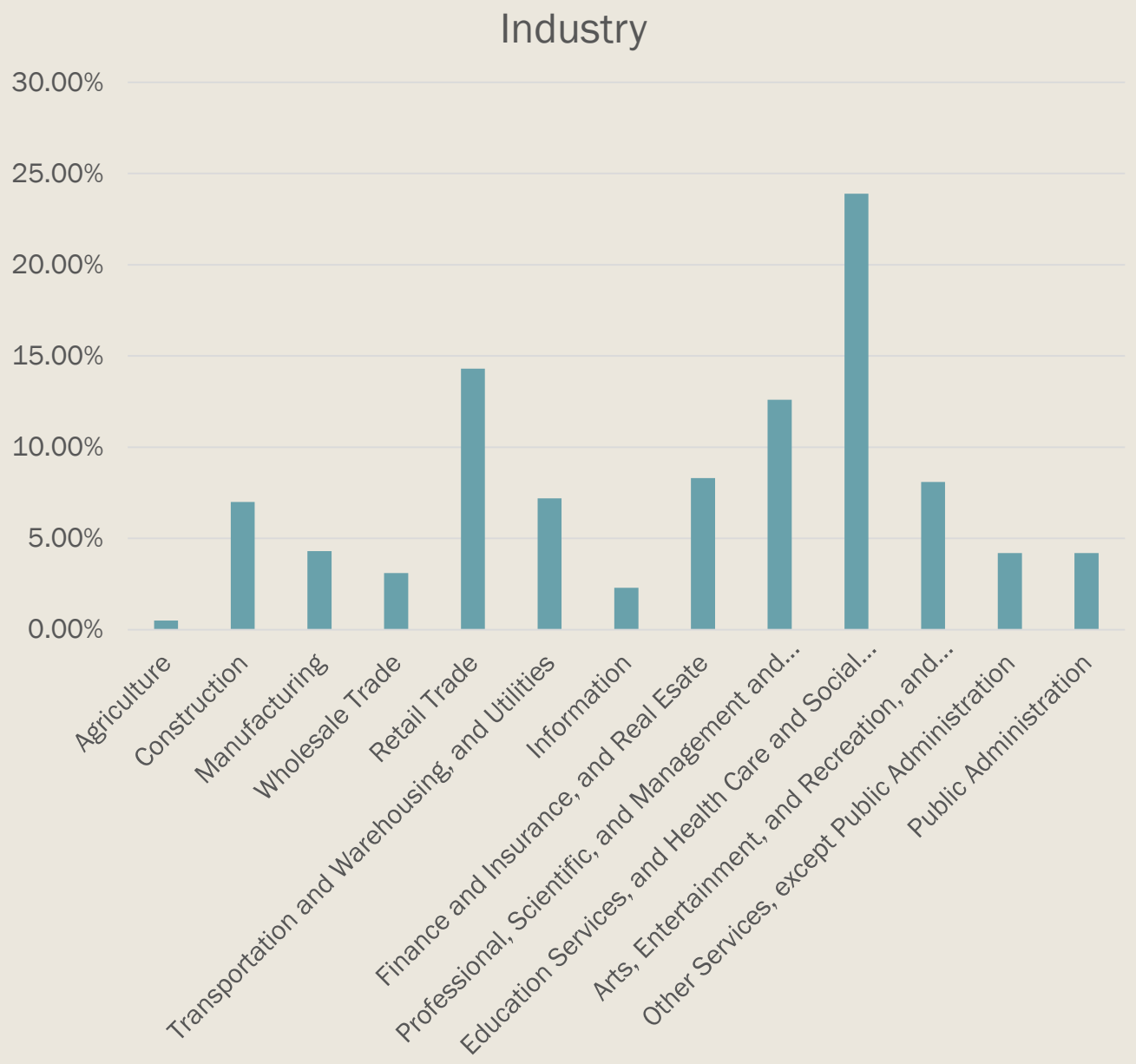




Source: On The Map

Cutler Bay Residents & Employed Industries

1. Education Services, Health Care and Social Services
2. Retail Trade
3. Professional, Scientific, Management, Administration and Waste Management



Source: ACS 2017 - 2013

NEXT STEPS

TASK 3: DATA COLLECTION

- Interviews & Surveys
- Ride Town Circulator
- MIOVision Camera Deployment
- GIS Analysis
- Hub Planning & Assessment
- Capital, O&M Cost Analysis

Discussion

CUTLER BAY MOBILITY HUBS PLAN

Cutler Bay MIAMI

TPO Miami-Dade Transportation Planning Organization

Town of Cutler Bay
SMART Mobility Hubs Plan

Stakeholder Advisory Meeting

Cutler Bay Town Hall
10720 Caribbean Boulevard, Suite 105
Cutler Bay, FL 33189

Wednesday, February 6, 2019
3:00 PM to 4:15 PM

1. Introductions

a. Kathryn Lyon, MBA, AICP, CFM – Cutler Bay Planning and Zoning Director
b. Jeanine Gaslonde – TPO
c. Eric Tullberg, PE - BPAC Member
d. Marshall Steingold – Economic Growth Committee/Miami Maps
e. Ken Jeffries – FDOT, D6
f. Yenier Vega – Cutler Bay Public Works
g. Angel Cordero – Southland Mall
h. Jeannine Stuller – Gumberg Asset Management/Southland Mall
i. Jeff Weidner – Marlin Engineering
j. Christina Fermin, AICP – Marlin Engineering
k. Orlando Lopez – Cutler Bay Business Association
l. Alfredo Quintero – Town of Cutler Bay Public Works Director

2. Presentation

a. Purpose

i. Discussion on TPO SMART Plan Demonstration Projects Grant
ii. Scope of Services
iii. Schedule
iv. SAC Roles/Responsibilities

b. Background

i. SMART Plan/South Dade Transitway
ii. South Corridor Rapid Transit Project
    1. Proposed Hubs @ SW 184, Marlin Rd., SW 200 and @ SW 212.

2. Proposed Cutler Bay Express Bus
3. Station Rendering/PD&E

iii. South Dade Rapid Transit Corridor Feeder Bus Program
1. Two proposed routes within the Town.

iv. Existing Metrobus Service

v. What is a Mobility Hub?
1. Examples:
a. LA Orange Line, 18 Miles, over 30,000 daily passengers – one of the most successful in the Country.
b. CTfastrak, 9.5 miles, over 18,000 daily passengers, ridership has doubled since the constructed on the BRT service in 2015.
c. BCT Northeast Transit Center in Pompano Beach – discussion on design, community use and access.
d. Many of the City's and Towns where BRT is offered have rezoned the surrounding areas as some type of TOD zoning to allow mixed use development and density.

c. Plans Reviewed

i. Town Plans

ii. County Plans

d. Development

i. Future Land Use Map
1. Commercial corridors on Old Cutler Road, along the Transitway and Town Center – most of the remaining Town is low density residential development.

ii. Zoning Map
1. Transit Corridor Zoning – along Transitway - allows up to 75 du/acre.
2. Town Center Zoning, 3 subcategories: Core, Center and Edge. Core allows up to 250 du/acre.

iii. ROW Map
1. 16% of Town's overall acreage is ROW.

iv. Points of Interest Map

v. Development Projects Map

e. Data

i. Population Data
1. Population Density Map
2. Census Quickfacts Stats

ii. Transit Data
1. Town Circulator
a. Operates Monday – Sunday
b. Clockwise Rotation
c. Stops at SW 212 St. Transitway Stop
2. Ridership Data
a. Top 3 stops include: Publix on Old Cutler Road, Southland Mall and SW 184 St.
3. Metrobus Routes
a. Two routes travel through Town, Routes 1 and 287.
b. All other routes travel along Transitway and stop at Southland Mall/Government Center.
c. Ridership – Route 38 has the highest ridership and

travels full length of Transitway.

4. Major Roadway
    a. 5 Principal Arterials, 3 Minor Arterials.
    b. A number of roadways will experience LOS F by 2020.
5. Pedestrian Network
    a. Missing sidewalks in northeast part of the Town.
    b. Town Center/Southland Mall missing pedestrian/bicycle network due to early auto centric development pattern – Town to work with developers as it redevelops to ensure connectivity and pedestrian/bicycle mobility.
6. Bicycle Network
    a. Existing Network
    b. Regional Network
7. Employment Data
    a. Employment concentrated along Transitway/Dixie Hwy.
    b. Industries within the Town concentrated in Retail Trade, Waste Management/Remediation and Accommodation & Food Services sectors.
    c. Resident employment industries more diverse.

f. Next Steps

i. Task 3: Data Collection
    1. Bus Operator Questionnaire sent out, awaiting on 1-2 others.
    2. Three locations identified for MIOvision camera deployment, awaiting Town approval.

3. Open Discussion

a. Within Suburban areas of Town:
    i. We should focus on bicycle network – riders will travel up to 3 miles and pedestrians up to a mile.
    ii. Plan for a bicycle network
    iii. People typically walk ¼ mile to transit – in Florida that can be challenging due to the weather.
    iv. Bicycle racks need to lock in places where riders can lock their bicycles and be conveniently located.
    v. Bicycle racks should be covered to protect from the elements.
    vi. Furniture should be provided.
    vii. Transit should have level boarding to load bicycles – Bus racks can be cumbersome and takes time to load. It is also an inconvenience to other transit riders due to the delay it can cause.

b. Island of Bayshore community is disconnected from the main road where the bus currently travels – secondary bus route should connect into these types of gated communities, think about placing mobility hub within these communities.

c. How do we incorporate the gated communities into the transit routes? The gated roadways are County roads too.

d. TPO approved an on-demand service to pick-up residents and take them to Transitway/Bus stops. This is a free service.

e. How many spaces are available at the Target park and ride lot? What is the utilization rate? About 250 spaces, 93% utilization.

f. Discussed Fort Lauderdale dockless electric scooters that recently launched and their level of use - over 200,000 riders in 2 months – less than 1% of injuries have resulted, even though the perception is higher. What is the City's policy on electric scooters? How can the Town attract this company?
g. What about bikeshare? Citibank sponsored a bikeshare program – how can the Town attract a company like Citibank to sponsor a bikeshare program?
h. Bikeshare should be conveniently located and accessible so people use them.
i. Golf carts are popular within the Town. Have to be careful in allowing electric mobility on sidewalks – mobility options must travel at less than 10 mph to be allowed on sidewalk.
j. Town meets County Land Use requirements. County is proactively working on a TOD type of land use around Transitway and SMART Plan corridors.
k. Town has plan to fill missing sidewalk gaps.
l. Accessibility and Mobility Study underway for Transitway by TPO.
    i. Meeting in Palmetto Bay on March 7 – Marlin to attend.
m. Most residents travel North for work.
n. Residents who live east of SW 87 Avenue do not have access to transit – consider climate control for mobility hubs to attract ridership.
o. How do we get residents conveniently to shopping centers without the use of their cars so they can eat and shop within the Town?
p. Freebie service provided by a number of other cities, Palmetto Bay recently contracted this service. The app is simple to use and shows real time information.
q. Brickell and Doral City Centers have been constructed overnight and are becoming popular places to live, eat and shop. Cutler Bay Town Center has potential to be similar or better than these 'downtowns.'
r. FDOT project connecting SW 112/SW 200 Transitway underway to enhance connectivity and pedestrian access.
s. Transitway stations are difficult to access due to Dixie Highway traffic and current design – not many know that these stations exist.
t. As bicycle paths are constructed, the issue is the maintenance of these pathways, overtime they become in disrepair and debris causes issues for riders. Who is responsible for maintaining these pathways? Consider path keepers in every community to maintain and sweep paths, report issues as they arise.
u. SW 87th Avenue pathway is currently maintained by the Town and neighboring HOA on a monthly basis. Can report issues to the Town and/or County for maintenance.
v. How will a mobility hub be constructed? Will eminent domain or a taking be utilized to construct a mobility hub on the Southland Mall property? No – Town plans on working with developers as the property is redeveloped. A location has yet to be determined.
w. Will mobility hubs be subsidized? Grants are available.
x. Discussion on public private partnership and examples of how other cities have worked with the private sector in creating mobility hubs or park and ride lots.
y. Consider that half of the Southland Mall parking lot is owned by Macy's and Sears. Sears at the Westfield Mall is working with the City of Plantation on redeveloping the property as an entertainment hub and there have been discussions on the placement of a mobility hub nearby.

MARLIN

SIGN-IN SHEET

Cutler Bay SMART Mobility Hubs Plan

Cutler Bay FLORIDA

TPO Miami-Dade Transportation Planning Organization

Kickoff Meeting
Meeting Date and Time: February 6, 2019
Meeting Place: Town of Cutler Bay

Attendees:

Name	Agency/Company	Email
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