

TOWN OF CUTLER BAY

MOBILITY HUBS PLAN



MOBILITY HUBS

COME RIDE WITH US



OCTOBER 2019 | DRAFT



MAYOR & COMMISSIONERS

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Vice Mayor Sue Ellen Loyzelle
Council Member Robert “B.J” Duncan
Council Member Michael P. Callahan
Council Member Roger Coriat

TOWN OF CUTLER BAY MANAGEMENT TEAM

Rafael G. Casals, Town Manager
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Yenier Vega, Stormwater Utility Manager

MARLIN



EXECUTIVE SUMMARY

MARLIN Engineering was contracted by the Town of Cutler Bay to provide the community with a comprehensive system of Transit Mobility Hubs connecting to the South Dade Transitway and Town of Cutler Bay. This Plan seeks to improve connectivity, mobility and safety for pedestrians, bicyclists, and transit users through the identification of Neighborhood, Community and Regional Mobility Hubs throughout the Town's roadway network. A total of 12 Mobility Hubs were identified throughout the Town of Cutler Bay: Six Neighborhood Hubs, Five Community Hubs and One Regional Hub. The Plan includes the location of Mobility Hubs in addition to identified amenities, improvements and recommendations to create vibrant public spaces to garner the support needed for mode shift in the Town of Cutler Bay. Mobility Hub templates have been developed for each level of Mobility Hub; these templates act as a visual aid to the development of the Mobility Hub network for the Town. Additionally, three conceptual designs for each type of Mobility Hub have been developed. Furthermore, the MARLIN team analyzed the existing Town Circulator (Route 200) and provided short-term and long-term recommendations to improve mobility and service throughout the Town of Cutler Bay. Finally, a cost estimate for improvements and amenities has been provided along with a list of prioritized recommendations.

The *Town of Cutler Bay Mobility Hubs Plan* builds upon the recommendations provided from the Town's Transportation Master Plan, Bicycle & Pedestrian Master Plan, Complete Streets Corridor Analysis, Townwide Traffic Calming Master Plan, adopted Land Use Regulations; in addition to the Miami-Dade Transportation Planning Organization's (TPO) First Mile/Last Mile Options for High-Trip Generator Employers Study and Protected Bike Lanes Demonstration Plan. The Mobility Hubs Plan supports many of the recommendations previously provided and builds upon them to continue the momentum to create safer, more walkable streets for all types of users within the Town of Cutler Bay.



WHAT IS A MOBILITY HUB?

Mobility Hubs have been defined as “major transit station areas with significant levels of transit services, high development potential, and a critical function in the regional transportation system as major trip generators. They are places of connectivity where different modes of transportation – from walking to high-speed rail – come together seamlessly and where there is an intensive concentration of employment, living, shopping and/or recreation. In addition to serving as places to arrive, depart and wait for transit, successful mobility hubs have the potential to become vibrant places of activity and destinations in themselves.” (Salsberg, 2010)

In essence, Mobility hubs are people places which integrate multi-modal travel options, technology and support services to facilitate *efficient* transportation. Mobility hubs support and are supported by Transit Oriented Development (TOD). TOD's are areas which include a mixture of commercial, residential, office and entertainment uses centered around or located near a transit station.¹ TOD's are dense, walkable, mixed-use areas near transit, which attract people and add to vibrant, connected communities.



Figure 1: Mobility Hub Concept Courtesy of SANDAG

Mobility hubs have the potential to create a synergy with TOD's to create places for people and positively transform the community. Successful integration of this synergy can occur best with the support of stakeholders, elected officials, residents, the business community and governing organizations. Support for this synergy must include the implementation of TOD supportive zoning and land use regulations, government policies and public/private investments; which can spur the necessary development and support to create vibrant, attractive places where people want to eat, work and play.

Mobility hubs are more than transit stops, they integrate amenities for all types and all modes of transportation, and can include: pedestrian, bicycle, transit, vehicle, information, support services, technology and active uses.

¹ Federal Transit Administration

MOBILITY HUB RECOMMENDATIONS

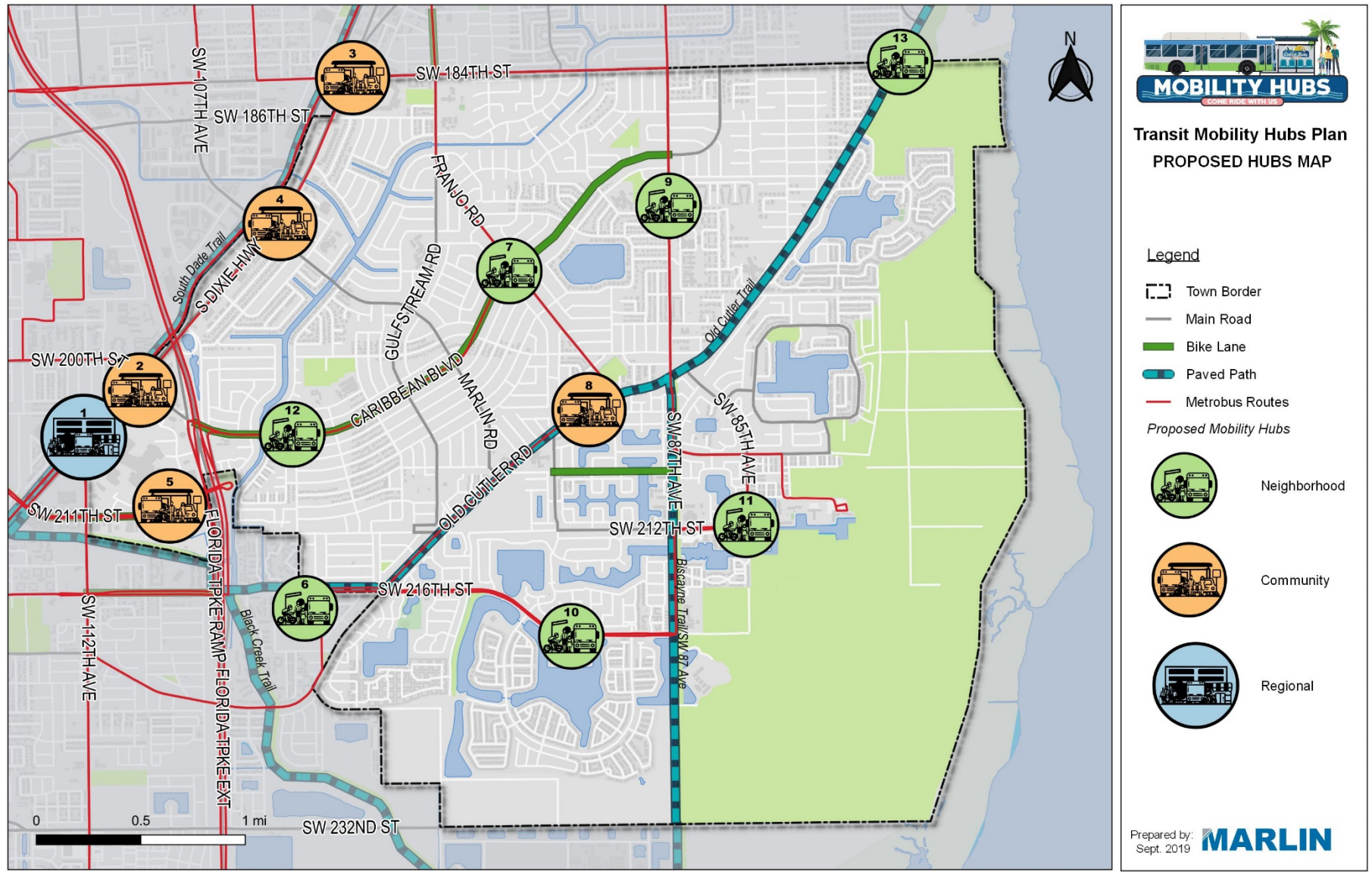


Figure 2: Proposed Mobility Hubs Map

Table 1: Mobility Hubs Ranked by Score

No.	Mobility Hub	Type	Score
1	Cutler Bay Regional	Regional	33
2	Miami Heights	Community	24
3	Eureka Drive West	Community	22
4	Marlin	Community	17
5	South Dade	Community	15
6	Community Health	Neighborhood	11
7	Whispering Pines	Neighborhood	10
8	Town Center	Community	10
9	Pine Wood	Neighborhood	9
10	The Isles	Neighborhood	8
11	Lakes by the Bay	Neighborhood	6
12	Cutler Ridge	Neighborhood	5
13	Eureka Drive East	Neighborhood	5



Mobility Hub Types & Locations

Regional Hub



Figure 3: Regional Hub Template

A Regional Hub is recommended at the existing Miami-Dade County Park & Ride facility located at SW 112th Avenue and the Transitway, near Target.

- Existing Routes 1, 31, 34, 35, 38, 39, 52 and 200.
- Existing Transitway Station Amenities: Shade, Seating, Trash Receptacle, Park & Ride and Signage.
- Existing Nearby Facilities: South Dade Trail, Retail/Restaurant, Industrial, Residential, and Southland Mall.



Recommendations

Amenities

Waiting Area for ride-hailing Transportation
Network Companies (TNCs)
Carshare
Bikeshare Station
Bicycle Repair Station
Bicycle Storage Locker
EV Charge Station

Real-Time Information
WiFi
Lending Library
Monument Sign
USB Charge Port
Security Camera

Emergency Callbox
Public Art
Information Kiosk
Package Pickup Kiosk
Retail

Infrastructure

Fill Sidewalk Gaps within ¼-mile
Linear Park along Transitway Island

Pedestrian Lighting
Pedestrian Promenade on the east side of US 1 &
SW 112th Avenue

Landscape Enhancements
Parking Structure with Real-Time Parking
Information



Community Hubs



Figure 4: Community Hub Template

Community Hubs are recommended at the following locations:

1. Town Center: Old Cutler Road at Publix

- Existing Routes: 200 (Town Circulator)
- Existing Amenities: Shelter, Seating, Signage, Trash Receptacle, Bicycle Rack and Lighting.
- Existing Nearby Facilities: Old Cutler Trail, Retail/Restaurant, Residential, Hospital, Places of Worship.



2. Marlin: Marlin Road & U.S.1 / S. Dixie Hwy

- Existing Routes: 31, 35, 38, 200 (Town Circulator)
- Existing Amenities: Seating, Trash Receptacle, and Signage.
- Existing Transitway Amenities: Seating, Shade, Trash Receptacle, Lighting and Signage.
- Existing Nearby Facilities: Retail / Restaurants, Bank, Residential, Industrial, Schools, Career Center, Grocery and Place of Worship.

3. Eureka Drive West: Eureka Dr. / SW 184 St, East of U.S. 1 / S. Dixie Hwy.

- Existing Routes: 1, 31, 35, 38, 52, 200 (Town Circulator)
- Existing Amenities: Seating, Signage, and Trash Receptacle.
- Existing Transitway Amenities: Shelter, Seating, Trash Receptacle, Signage and Lighting.
- Existing Nearby Facilities: South Dade Trail, Retail/Restaurants, Bank, Fitness Center, Residential, Industrial, Park, Grocery, Places of Worship, Schools.

4. Miami Heights: SW 200 Ave. / Caribbean Blvd. & U.S. 1 / S. Dixie Hwy

- Existing Routes: 1, 31, 35, 38, 39, 52, 200 (Town Circulator).
- Existing Amenities: Seating, Trash Receptacle and Signage.
- Existing Transitway Amenities: Seating, Shade, Trash Receptacle, Lighting and Signage.
- Existing Nearby Facilities: South Dade Trail, Retail / Restaurant, Town Hall, Southland Mall, Residential, Hotel, and Office Park.

5. South Dade: SW 211 St. at Southland Mall / South Dade Government Center

- Existing Routes: 1, 31, 35, 39, 52, 137, 200 (Town Circulator), and 248.
- Existing Amenities: Seating, Shelter, Signage, Trash Receptacle, Bus Bay, Newspaper Rack, Lighting, and System Map.
- Existing Nearby Facilities: Southland Mall, South Dade Government Center, Library, Retail / Restaurants, Residential, South Dade Cultural Center, Police, Fire, Town Hall, Movie Theater, Humane Society, Hotel, Offices and Bank.

Recommendations

Amenities

Shelter
Lighting
Bikeshare Station
Bicycle Rack
Trash/Recycle Receptacle

USB Charging Station
EV Charge Station
Carshare
Security Camera
Emergency Callbox

Lending Library
Public Art
Public Space
Real-Time Signage

Optional Amenities

Kiss & Ride
Package Pickup Kiosk
Information Kiosk

Air Misting System
WiFi
Park & Ride

Waiting Area for TNCs
Bicycle Repair Station
Bicycle Storage Locker

Infrastructure

Fill Sidewalk Gaps within ¼-Mile

Pedestrian Lighting
Landscape Enhancements
ADA Improvements

Midblock Crossing with Flashing Beacon & Signage
(where feasible)
High Emphasis Crosswalks
Bicycle Lanes / Shared Use Path
Pedestrian Crossing Signs

Increase Sidewalks to 8 – 10'

Street Furniture
Bicycle Signals (where feasible)
Bike Box (where feasible)



Neighborhood Hubs



Neighborhood
Hub



Figure 5: Neighborhood Hub Template

Neighborhood Hubs are recommended at the following locations:

1. Lakes by the Bay: SW 85 Ave. & SW 212 St.

- Existing Routes: 200 (Town Circulator) and 287
- Existing Amenities: Shelter, Seating, Trash Receptacle, Lighting, Bike Rack and Signage.
- Existing Nearby Facilities: Residential, Schools and Park.

2. Pine Wood: SW 87 Ave. & SW 190 St.

- Existing Routes: 200 (Town Circulator) and 287
- Existing Amenities: Shelter, Seating, Trash Receptacle, Lighting, Signage & System Map.
- Existing Facilities Nearby: Residential, Schools, Place of Worship and Park.

3. Whispering Pines: Caribbean Blvd. & Franjo Rd.

- Existing Routes: 1 and 200 (Town Circulator)
- Existing Amenities: Seating, Bicycle Rack, Bus Bay and Signage.
- Existing Nearby Facilities: Residential and Schools.

4. Cutler Ride: Caribbean Blvd. & Anchor Rd.

- Existing Routes: 1 and 200 (Town Circulator)
- Existing Amenities: Seating, Shelter, Bicycle Rack, Trash Receptacle, Lighting and Signage.
- Existing Nearby Facilities: Places of Worship, Schools, Residential and Park.

5. The Isles: SW 216 St. & SW 89 Pl

- Existing Routes: 200 (Town Circulator) & 287
- Existing Amenities: None
- Existing Nearby Facilities: Biscayne Trail, Park and Residential.

6. Eureka Drive East: Old Cutler Road & SW 184 St.

- Existing Routes: None
- Existing Amenities: None
- Existing Nearby Facilities: Old Cutler Trail, Residential, Places of Worship, Palmetto Bay Village Center, and Schools.

7. Community Health: SW 216 St. & SW 102 Ave.



- Existing Routes: 52 and 287
- Existing Amenities: Seating, Trash Receptacle, Lighting, Bus Bay & Signage.
- Existing Nearby Facilities: Hospital, Old Cutler Trail, Residential, Places of Worship, and Parks.

Recommendations

Amenities

Shelter
Seating
Real-Time Signage
Bikeshare

Public Art
Pedestrian Plaza / Pocket Park
Lending Library
USB Charge Station

Trash/Recycle Receptacle
Bicycle Rack
Emergency Callbox

Optional Amenities

Package Pickup Kiosk
Carshare
Pop-up Retail

Park & Ride
Security Camera

Air Misting System
Motion Sensing Lighting

Infrastructure

4-5' Bicycle Lanes

10' Shared Use Path
Landscape Enhancements
Enhanced Pedestrian Crossings

Midblock Crossings with Flashing Beacon, Inground
Lighting & Signage
Curb Extensions
Travel Lane Reductions
Fill Sidewalk Gaps within ¼-mile

Pedestrian Lighting

Bike Box
Bicycle Signal
Pedestrian Signage at Crossings

Town Circulator Recommendations

Short-Term Recommendations

1. Addition of counter-clockwise service to existing service to reduce wait times.
2. Extending hours of operation to include peak travel times.

Long-Term Recommendations

1. Bifurcate existing route into two routes and extend service to other areas of the community.
 - a. North Route would cover areas north of Old Cutler Road and west of SW 87 Ave., including the U.S. 1 / S. Dixie Hwy. commercial corridor.
 - b. South Route would cover areas south of Old Cutler Road and east of SW 87 Ave., including the Town Center District.
2. Commercial Circulator would cover the U.S. 1 / S. Dixie Hwy. corridor, at build out.

Other Recommendations

- Support of previous bicycle, pedestrian and transit recommendations from the following completed plans:
 - Town of Cutler Bay Bicycle & Pedestrian Master Plan
 - Town of Cutler Bay Complete Streets Corridor Analysis
 - Town of Cutler Bay Transportation Master Plan
 - Townwide Traffic Calming Master Plan
 - Town Street Tree Master Plan
 - Evaluation of Multimodal Mobility Options in the South Miami-Dade Area
 - Countywide Bus and Auto/Rideshare Access to Transit Facility Assessment Study
 - Miami-Dade County Vision Zero Plan
 - Miami-Dade TPO First Mile-Last Mile: Options with High Trip Generator Employers
 - The Strategic Miami Area Rapid Transit Plan (SMART) – South Dade Transitway Corridor
 - Miami-Dade TPO Protected Bike Lanes Demonstration Plan
- Support of Transit Corridor & Town Center Zoning Districts & Increased Density along U.S. 1 / S. Dixie Hwy.
- Incorporate Mobility Hub elements and amenities in future development projects.
- Allocate space for shared services such as on demand shuttles and rideshare companies, and consider the flexible use of that space where necessary.
- Partner with shared mobility service providers to integrate shared mobility services into a platform for trip planning and payment.
- Amend the development review process to encourage developers to incorporate Mobility Hub features into their projects.
- Adopt off-street parking requirements to better align with Mobility Hub investments.
- Implement flexible curb space to meet the needs of shared mobility services and the changing demands of users.
- Encourage businesses and/or developers to partner with government agencies to test technologies and service concepts in real world environments.
- Adopt a Branding & Marketing Plan and include a Wayfinding Signage Program.
- Explore the use of Shared Mobility Options.
- Explore the adoption of a Public Art Program to fund and implement Public Art throughout the Town.
- Create Transit Partnerships with neighboring communities.
- Implement Green Infrastructure Techniques for landscape enhancements.
- Create a Pedestrian Promenade along the east side of U.S. 1 / S. Dixie Hwy.
- Adopt of Curbside Management Plan.
- Adopt Transportation Demand Management policies.