David Plummer & Associates







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EXECUTIVE SUMMARY

In February 2008, the City of Doral launched the Doral Transit System (DTS) as a two year pilot program to provide an intra-city circulator, known as the Doral Trolley. The purpose of the trolley system is to help relieve localized traffic congestion, increase transit ridership, and off-set parking shortages. Today the City operates three trolley Routes; Route 1 – Cross-town Connector (Blue Route), Route 2 – Commercial/Metrorail Connector (Yellow Route) and Route 3 – Residential/Metrorail Connector (Green Route).

The Doral Trolley has been extremely successful and has surpassed many projections within the first year. During the Fiscal Year 2015/2016 the total yearly ridership was in excess of 550,000 boardings. This represents a 25% increase over the previous year. With the tremendous success of the Doral Trolley, the City wants to explore the feasibility of providing a new route that provides services between the City and Florida International University (FIU).

The new route was developed considering population density, activity centers, interconnection to other transit systems, and coverage area. Existing Miami-Dade Transit service within the study area, as well as existing Doral Trolley Routes, Sweetwater Trolley Routes, and FIU Shuttles were reviewed and documented in order to provide connectivity to the new trolley route.

Three distinct alignments and route alternatives were developed for the FIU Trolley Route. After further analysis that included reviewing that each route meets Miami-Dade County (MDC) requirements, travel time runs, ridership estimates, and coordination with the City, Alternative 3 was recommended as the preferred route. A summary of the proposed FIU Trolley Route is provided below.

Prop	Proposed FIU Trolley Route								
Schedule	Weekday	Saturday	Sunday						
Route Length	15.2 miles								
No. of Trolleys	2								
Average Speed	11 mph		Service not proposed						
Peak Hour Trolley Headways	30 – 45 minutes	Service not							
Off-Peak Hour Trolley Headways	30 – 43 minutes	proposed							
Service Span	6:00 AM – 11:00 PM								
Number of Stops	42								
Number of Stations	9								
Spacing between Stops 500 to 3500 feet									

The student/faculty class schedule at FIU begins early in the morning and since the proposed route primarily serves as a connection between FIU and the residential/commercial areas along NW 107^{th} Avenue within the City of Doral, the proposed trolley is recommended to operate Monday through Friday from 6 A.M. to 11 P.M; with approximate 30-45 minute headways. It is estimated that the Alternative 3 will have 137,020 yearly boardings. In order to maintain the proposed 30-45 minute headways, the FIU Trolley Route would require two trolleys.

As discussed with the City's Trolley Manager, the circulator will continue to be a free service. The benefits of having a free circulator system are apparent. Free fare gives the system the opportunity to maximize its ridership, reflecting the City's desire for a successful system. Also, there would be less potential for operational delays along the Route. The desired headways would therefore be easier to maintain.

The costs of the new trolley route was estimated using information provided by the City. The approximate capital costs associated with the proposed Route is \$400,000, the approximate annual operating and maintenance costs is \$550,000 and the approximate annual technology service costs is \$3,400.

1.0 INTRODUCTION

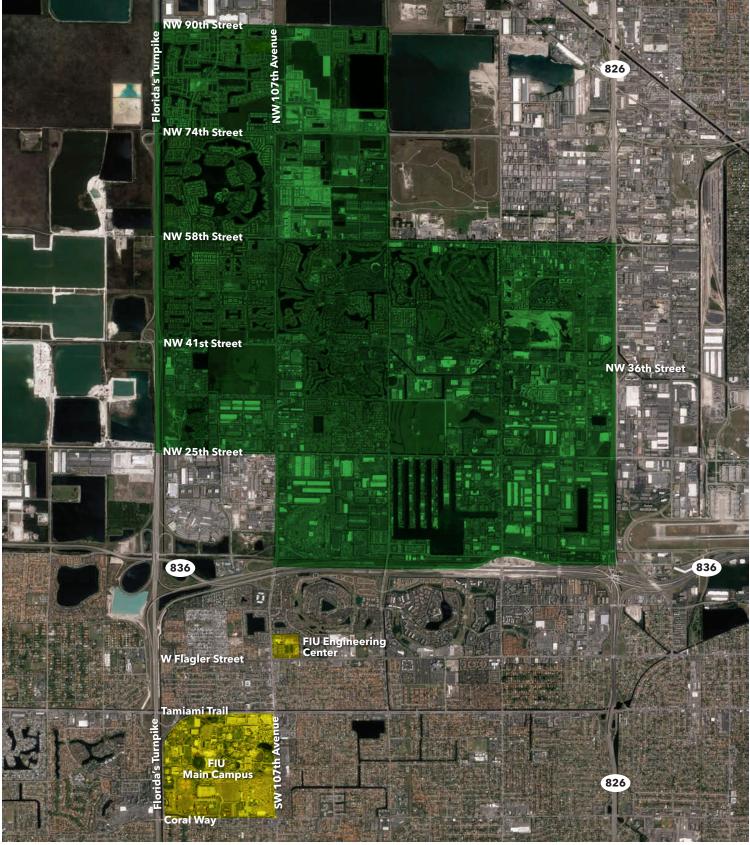
1.1 Project Background

In February 2008, the City of Doral launched the Doral Transit System (DTS) as a two year pilot program to provide an intra-city circulator, known as the Doral Trolley. The purpose of the trolley system is to help relieve localized traffic congestion, increase transit ridership, and offset parking shortages. Today the City operates three trolley Routes; Route 1 – Cross-town Connector (Blue Route), Route 2 – Commercial/Metrorail Connector (Yellow Route) and Route 3 – Residential/Metrorail Connector (Green Route).

The Doral Trolley has been extremely successful and has surpassed many projections within the first year. During the Fiscal Year 2015/2016 the total yearly ridership was in excess of 550,000 boardings. This represents a 25% increase over the previous year. With the tremendous success of the Doral Trolley, the City wants to explore the feasibility of providing a new route that provides services between the City and Florida International University (FIU). The location map shown as Exhibit 1.

The success of the existing trolley system can be attributed to several specific factors that should also be taken into account when considering the potential route expansion. Those factors include:

- Short headways
- Interconnectivity between the trolley and existing mass transit system (i.e., Metrorail)
- Free fare
- Connectivity to major activity centers



City of Doral

Florida International University

Exhibit 1 Location Map



1.2 Study Objective

The objective of this study is to develop up to three potential route alternatives that will connect the City of Doral and provide services to FIU. The route were developed considering population density, activity centers, interconnection to other transit systems, and coverage area. Preliminary trolley stops/spacing will also be identified.

1.3 Study Methodology

The data collection and analysis presented in this report were performed in accordance with the scope of work presented to the City of Doral. A summary of the data collected is provided below:

- Existing Miami-Dade Transit (MDT) service information such as alignments and frequencies, as well as ridership within the route expansion areas was documented.
- Existing bus stop information from both MDT and City of Sweetwater to explore the possibility of co-locating future trolley stops were reviewed.
- Existing Doral Trolley Routes, the Sweetwater Trolley Routes as well as transit hub information at FIU and Miami International Mall was also collected.
- The 2010 Southeast Florida Regional Planning Model was reviewed for population and employment estimates along the proposed routes alternatives. Ridership estimates were projected based on demographics and actual experience from the Doral Trolley.
- Travel time runs were collected during a regular weekday for the am (7-9am), midday (11:30am-1:30pm), and pm (4-6pm) peak periods.

Three route alternatives and alignments were developed with the coordination of the City of Doral staff. In addition, several meetings with the City of Doral, City of Sweetwater and FIU were held during the development of proposed route alternatives.

2.0 STUDY AREA

The three proposed alternatives connect the City of Doral with the FIU Main Campus and the FIU Engineering Center, using the NW 107th Avenue corridor generally from SW 8th Street to NW 90th Street.

2.1 Existing Miami-Dade Transit Service

Information regarding existing MDT transit route within the area of the proposed trolley routes was obtained from the County. The routes that run on NW 107th Avenue were reviewed since they may potentially provide connectivity to the new trolley routes. The following MDT Routes run along a segment or cross NW 107th Avenue between the FIU Main Campus and NW 41st Street: Routes 7, 8, 11, 24, 36, 51, 71, 82, 137, 212, 238, and 338. These existing Routes are shown in Exhibit 2.

Bus Routes 7, 36, 71, 137, and 238 specifically circulate around the Dolphin Mall. With the exception of Bus Route 238, the bus routes mentioned previously operates on weekdays and weekends on their daily schedule. Bus Route 238 only operates on the weekdays making an east west connection from the Miami International Airport to the Dolphin Mall and vice-versa. Bus Routes 8, 11, 24, and 82 circulate around FIU on a weekday and weekend schedule. Bus Route 51 circulates around the downtown area making its way west to Tamiami on a regular weekday schedule. Bus Route 212 only circulates within Sweetwater on a regular weekday schedule. The routes can also be seen in Exhibit 2.

Additionally, route schedules and ridership information was obtained from MDT for these routes. Headway were summarize by route and have been included in Appendix A. Information provided by MDT shows approximately 45 bus stop locations. Stop locations within the study area have also been summarize (see Exhibit 3). Detailed route information is included in Appendix A.

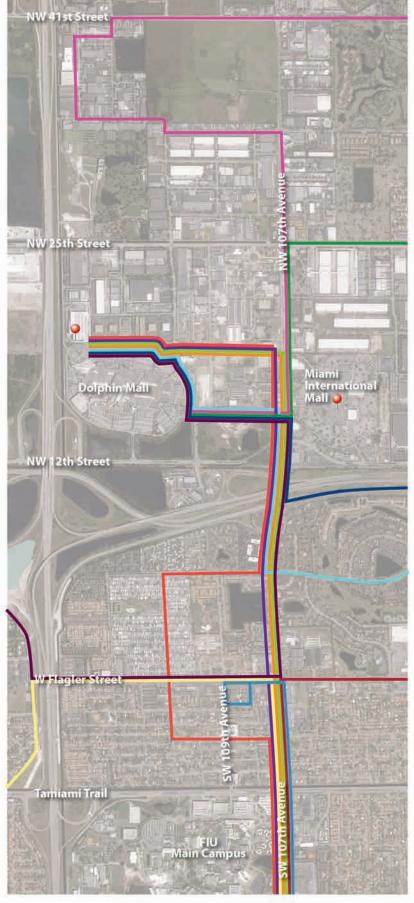




Exhibit 2

Existing Miami-Dade Transit Bus Routes



Exhibit 3 – Miami-Dade Transit Bus Stop Locations

	NORTHBOUND STOPS				MIA	MI-D	ADE T	RANSI	T ROL	JTES				NOTES
	NORTHBOOND STOPS	7	8	11	24	36B	51	71	82	137	212	238	338	NOTES
1	FIU MAIDIQUE CAMPUS BUS TERM		8	11	24			71	82					
2	SW 107 AV #1431		8	11				71						
3	SW 107 AV # 1225		8	11				71						
4	SW 107 AV # 917		8	11				71						
5	SW 107 AV SW 6 ST			11				71						
6	SW 107 AVE & 4 ST			11							212			
7	SW 4 ST SW 107 AV							71			212			on SW 4 St
8	W FLAGLER ST & SW 107 AVE			11			51							on Flager E of NW 107 Ave
9	W FLAGLER ST & SW 107 AVE										212			on Flager W of NW 107 Ave
10	FOUNTAINEBLEAU BD NW 107 AVE	7												on Fountainebleue Blvd
11	NW 107 AV FLAGLER ST									137				
12	NW 107 AV FLAGLER ST									137				
13	NW 107 AV NW 12 ST	7						71						
14	NW 14 ST NW 107 AV	7						71						on NW 14 St
15	NW 107 AV NW 14 ST											238		
16	NW 107 AV NW 15 ST					36						238		
17	NW 107 AV NW 19 ST					36						238		
18	NW 107 AV NW 25 ST					36						238		
19	NW 107 AV & NW 25 ST					36								
20	NW 107 AV NW 27 ST					36								
21	NW 107 AV NW 31 TR					36								
22	NW 41 ST & 107 AVE					36								

	SOUTHBOUND STOPS				MIA	MI-D	ADE T	RANSI	T ROL	JTES				NOTES
	300 THBOOND STOPS		8	11	24	36	51	71	82	137	212	238	338	NOTES
1	NW 41 ST & 107 AVE					36								on NW 41 St
2	NW 107 AV NW 31 TR					36								
3	NW 107 AV NW 27 ST					36								
4	NW 107 AV NW 24 ST					36						238		
5	NW 107 AV NW 19 ST					36						238		
6	NW 107 AV NW 15 ST					36		71				238		
7	NW 14 ST NW 107 AV					36						238		on NW 14 St
8	NW 107 AV & NW 14 ST	7								137				north of NW 14 St
9	NW 107 AV NW 14 ST	7						71		137			338	south of NW 14 st
10	FOUNTAINEBLEAU BD NW 107 AV	7												on Fountainebleue Blvd
11	NW 7 ST NW 107 AVE							71						on NW 7 St
12	NW 107 AV NW 7 ST									137				
13	NW 107 AV # 322									137				
14	NW 107 AV # 230									137				
15	W FLAGLER ST & NW 107 AVE						51			137				on Flager W of NW 107 Ave
16	SW 107 AVE & W FLAGLER ST			11							212			
17	SW 107 AV SW 3 ST			11							212			
18	SW 4 ST SW 107 AV							71			212			on SW 4 St
19	SW 107 AV SW 5 ST			11				71						
20	SW 107 AV SW 7 ST			11				71						
21	SW 107 AV SW 11 ST		8	11				71						
22	SW 107 AV SW 14 ST		8	11				71						
23	FIU MAIDIQUE CAMPUS BUS TERM		8	11	24			71	82					

2.2 Other Circulators

The City of Sweetwater provides trolley services to the public free of charge. The trolley provides services to popular locations, such as the Dolphin Mall, parks and the Sweetwater Municipal Complex. The trolley service routes operates Monday through Friday from 8:00 am to 7:00 pm and Saturday and Sunday from 8:30 am to 5:00 pm.

FIU provides a shuttle service (CATS) free of charge to students, faculty, staff and visitors. The shuttle provides service to most of the major campus buildings, parking lots/garages, the Engineering Center, and the Main Campus. The service operates two shuttles Monday through Friday from 6:00 am to 11:00 pm, with departures every 15 minutes at the top of the hour. In addition to the CATS Shuttle, FIU provides the Golden Panther Express (GPE) Shuttle which provides an alternative to driving between FIU's Main Campus and the Biscayne Bay Campus. The GPE Shuttle service operates Monday through Friday, from 6:00 am to 11:00 pm, with departures every half hour. Detailed information for the City of Sweetwater trolley and the FIU Shuttles is also included in Appendix A.

3.0 OPERATING OPTIONS

3.1 Preliminary Analysis

The proposed trolley route alternatives will serve the City of Doral, the FIU Engineering Center, and the FIU Main Campus. Within the City of Doral, alternatives were chosen to also provide service to other potential generators such as Ronald W. Reagan Doral Sr. High School, and Divine Savior Academy. These and other potential generators were taken into account as possible stops for the proposed trolley route alternatives.

Ronald W. Reagan Doral Sr. High School is located south of NW 88th Street and west of NW 107th Avenue. Access to the school is provided through NW 86th Street. The high school has a population of approximately 2,300 students. It should be noted that the school is currently serviced by the existing Trolley Route 3 (the green route).

Divine Savior Academy is located south of NW 66th Street and east of NW 107th Avenue. Access to the school is provided on NW 104th Avenue just north of NW 58th Street. The school serves students from Pre-K to 12th grade and has approximately 900 students.

The FIU Engineering Center is located north of W. Flagler Street and east of NW 107th Avenue. Access to the University can be either through its main entrance located on W. Flagler Street or through a side entrance located on NW 107th Avenue. The FIU Engineering Center enrolls approximately 2,800 undergraduate students, and over 700 graduate students.

The FIU Main Campus is located on the southwest corner of the SW 8th Street and SW 107th Avenue intersection. The FIU Main Campus provides various entrance locations along SW 8th Street and SW 107th Avenue with two main entrance locations; one is located on the SW 16th Street / SW 107th Avenue intersection and another on the SW 8th Street / SW 112th Avenue intersection. FIU has a population of approximately 54,000 students.

All of the proposed route alternatives will mainly traverse along the NW 107th Avenue corridor therefore the type of land uses and potential generators adjacent to and accessed via the corridor were reviewed. The segment of NW 107th Avenue south of NW 12th Street consist of some commercial uses adjacent to the corridor, surrounded by residential areas. Just north of NW 12th Street, the NW 107th Avenue corridor provides access to both the Dolphin Mall and the Miami International Mall and is mainly a commercial district until NW 41st Street. The segment of NW 107th Avenue north of NW 41st Street is primarily a residential area with sporadic commercial shopping strips.

3.2 Proposed Route Alternatives / Alignments

As part of this study, three alternatives were developed and analyzed to determine the feasibility of the new FIU Trolley Route. These alternatives in general connect the City of Doral with the FIU Main Campus and the FIU Engineering Center, using NW 107th Avenue. Exhibits 4 through 6 illustrate on a base aerial of the study area, the proposed FIU Trolley alternatives.

FIU Trolley Route Alternative 1

The first alternative provides a northern circulation to service NW 66th Street, Divine Savior Academy, Landmark, and Doral Cay. The southern circulation services the FIU Engineering Center, the 109 Tower and the FIU Main Campus.

Route alignment is as follows: this alternative travels northbound along NW 107th Avenue turning eastbound on NW 66th Street, southbound on NW 102nd Avenue and westbound on NW 58th Street. It then turns left back onto NW 107th Avenue to travel southbound. The route continues traveling south on NW 107th Avenue until W Flagler Street. After turning westbound on W Flagler Street the route turns left on SW 109th Avenue heading south toward the FIU Main Campus Entrance on SW 8th Street. Once inside campus the route travels to the designated parking garage stop and circulates back outside of campus to travel north on NW 109th Avenue. The route then

turns right on W Flagler Street and left on NW 107th Avenue to travel northbound and complete the circulation. This alternative is 12.1 miles in length.

FIU Trolley Route Alternative 2

The second alternative provides a northern circulation to service NW 90th Street, Ronald W. Reagan Doral Sr. High School Islands at Doral, Landmark, and Midtown. The southern circulation services the FIU Engineering Center, the 109 Tower and the FIU Main Campus.

Route alignment is as follows: this alternative travels northbound along NW 107th Avenue turning westbound on NW 90th Street, southbound on NW 109th Court and eastbound on NW 82nd Street. It then turns right back onto NW 107th Avenue to travel southbound. The route continues traveling south on NW 107th Avenue until W Flagler Street. After turning westbound on W Flagler Street the route turns left on SW 109th Avenue heading south toward the FIU Main Campus Entrance on SW 8th Street. Once inside campus the route travels to the designated parking garage stop and circulates back outside of campus to travel north on NW 109th Avenue. The route then turns right on W Flagler Street and left on NW 107th Avenue to travel northbound and complete the circulation. This alternative is 14.6 miles in length.

FIU Trolley Route Alternative 3

The third alternative provides a northern circulation to service NW 90th Street, Ronald W. Reagan Doral Sr. High School, Islands at Doral, Landmark, and Midtown and servicing NW 102nd Avenue to Divine Savior Academy. The southern circulation services the FIU Engineering Center, the 109 Tower and the FIU Main Campus.

Route alignment is as follows: this alternative travels northbound along NW 107th Avenue turning eastbound on NW 90th Street, southbound on NW 102nd Avenue and westbound on NW 58th Street. It then turns left back onto NW 107th Avenue to travel southbound. The route continues traveling south on NW 107th Avenue until W Flagler Street. After turning westbound on W Flagler Street the route turns left on SW 109th Avenue heading south towards the FIU Main Campus

Entrance on SW 8th Street. Once inside campus the route travels to the designated parking garage stop and circulates back outside of campus to travel north on NW 109th Avenue. The route then turns right on W Flagler Street and left on NW 107th Avenue to travel northbound and complete the circulation. This alternative is 15.2 miles in length.





Florida International University

Exhibit 4

FIU Trolley Route Alternative 1







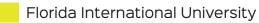


Exhibit 5

FIU Trolley Route Alternative 2







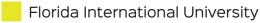


Exhibit 6

FIU Trolley Route Alternative 3



3.3 Travel Time Runs

Based on the three conceptual alternatives, travel time runs were conducted for each Route. The City provided one of its trolleys from its fleet of 11 to conduct travel time runs, since the trolleys maneuver differently than a passenger vehicle. Travel time runs were collected on Thursday, February 23, 2017. Data for each alternative was collected during the AM peak period (7:00 AM – 9:00 AM), Mid-day peak period (11:30 AM – 1:30 PM), and PM Peak period (4:00 PM – 6:00 PM).

It should be noted that for alternative 1 and alternative 3, the proposed route traverses a roadway segment that is currently closed. Therefore time was added to each of these segments based on travel time run collected on a roadway segment parallel and similar in distance. Detailed travel time run spreadsheets are included in Appendix B. The time it takes for each alternative to complete a roundtrip is shown in Exhibit 7.

Exhibit 7: Travel Time Run Results

Proposed FIU	Calculated Travel Time (HH:MM:SS)							
Trolley Routes	AM	MID-DAY	PM					
Alternative 1	0:59:19	0:54:0 0	1:12:44					
Alternative 2	1:06:31	1:02:05	1:26:03					
Alternative 3	1:08:06	1:00:56	1:22:52					

3.4 MDC Requirement

As described in the sections above, the proposed FIU Trolley will be connecting the City of Doral to FIU. Since the FIU Main Campus and FIU Engineering Center are both located outside of the city limits, the proposed route must meet the MDC requirement for circulator routes with segments outside city limits. Article 1 of the Interlocal Agreement between MDC and the City of Doral for Provision of Public Transportation Services states:

"Circulator" shall mean fixed route or semi-fixed route public transportation circulator services where at least seventy (70%) percent of the route is within the City and said circulator service is operated by the City, directly or by contract, pursuant to this Agreement and Chapter 31 of the code of Miami-Dade County.

The percent of alignment within City limits was calculated for each alternative and is shown in Exhibit 8. The results show that the proposed Alternative 1 is less than 70% within the city limits, hence not meeting the MDC requirement.

Exhibit 8: MDC Requirement for Circulators

Proposed FIU Trolley Routes	Total Route Distance (Miles)	Route Distance Outside City (Miles)	Percent Outside City Limits	Percent Inside City Limits	Meets MDC Requirement?
Alternative 1	12.1	4.38	36.2%	63.8%	NO
Alternative 2	14.6	4.38	30.0%	70.0%	YES
Alternative 3	15.2	4.38	28.8%	71.2%	YES

3.5 Ridership Estimates

As discuss earlier, one of the reasons for the success of the existing trolley system is its ability to attract a vast number residents and employees within the area, and provide a direct connection to multiple commercial areas throughout the City of Doral. Therefore, when estimating the potential ridership of the proposed FIU Trolley Route these criteria were considered.

The 2010 Southeast Florida Regional Planning Model (SERPM) was reviewed for population and employment estimates along the proposed routes alternatives. For Alternative 1, a total of 35 Traffic Analysis Zones (TAZ) were considered. The model estimates that approximately 36,800 employees and residents are within 1-mile in either side of NW 107th avenue between SW 16th Street and NW 66th Street. For Alternative 2, a total of 38 Traffic Analysis Zones (TAZ) were considered. The model estimates that approximately 48,700 employees and residents are within 1-mile in either side of NW 107th avenue between SW 16th Street and NW 90th Street (west side circulation). For Alternative 3, a total of 38 Traffic Analysis Zones (TAZ) were considered. The model estimates that approximately 52,700 employees and residents are within 1-mile in either side of NW 107th avenue between SW 16th Street and NW 90th Street (east side circulation). The number of employees and residents within the 1-mile distance is what is considered the potential riders. This number includes potential riders from FIU. In addition to the potential riders living and working in the area, there are bus riders using the MDT Routes (discussed in section 2.1) that could use the Doral trolley system as connectivity to their final destination.

To estimate the annual number of boardings per year that the proposed route could have, a percentage was applied to the number of potential riders. This is done because even though there are a large number of potential riders within the area of the route, the actual number of riders is smaller. A conservative 1% was applied to the total potential riders to estimate the total ridership. Based on this methodology, Alternative 1 will have 95,867, Alternative 2 will have 126,732 and

Alternative 3 will have 137,020 yearly boardings. SERPM model documentation and ridership calculations are included in Appendix D.

The distribution of FIU faculty, staff, and students living within the city limits was evaluated. Review of the "hot spots" maps provided by FIU show that there is high density of students living along NW 107th Avenue. This further establishes the potential riders in need of the proposed connection between the City of Doral and the FIU campuses. It should be noted, that the student maps shows that the highest density is concentrated on the west side of NW 107th Avenue. It is expected that with the future development of the east side of NW 107th Avenue, student/staff/faculty density will increase in that area. FIU faculty, staff, and students distribution maps are also included in Appendix D.

In addition to the targeted population along the corridor, there is a group of "bonus riders" that will also use the system. This group includes:

- Visitors to City of Doral and FIU who will be attracted to the service.
- Riders that are attracted to the service for the connectivity from the Doral Trolley system to MDC Transit Routes and the Palmetto Metrorail Station.
- Shoppers destined for Dolphin Mall, Miami International Mall, and CityPlace Doral.
- Area employees who have businesses at the Downtown Doral area and CityPlace Doral.

Because they are not specifically targeted, it is difficult to assess how many would be attracted at the new route. However, it can be safely assumed that this number would be small in comparison to the base riders.

3.6 Recommended Alternative

Three route alternatives were developed for the FIU Trolley Route. The evaluation matrix shown in Exhibit 9 was used to select the preferred alternative. After further analysis that included checking that each alternative meets the county requirement, travel time runs, ridership estimates, and coordination with the City, the Alternative 3 was recommended as the preferred route. Therefore, only Alternative 3 was considered in the remainder of this study.

Exhibit 9: Evaluation Matrix

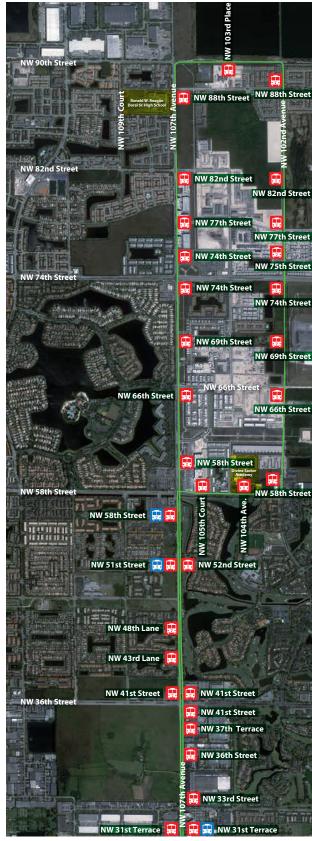
	Pros / Cons
Alternative 1	 Pros: Connects the City of Doral with FIU Main Campus and Engineering Campus Provides Access to Commercial Uses along NW 107th Avenue In close proximity to Students and Faculty "Hot Spots" Cons: Does not meet the 70% Requirement from the MDC Interlocal Agreement Pros:
Alternative 2	 Connects the City of Doral with FIU Main Campus and Engineering Campus Provides Access to Commercial Uses along NW 107th Avenue In Close Proximity to Students "Hot Spots" Meets the 70% Requirement from the MDC Interlocal Agreement Cons: Overlaps with Existing Routes 1 and 3 (Blue and Green Routes) Further Away From Faculty "Hot Spots"
Alternative 3	 Pros: Connects the City of Doral with FIU Main Campus and Engineering Campus Provides Access to Commercial Uses along NW 107th Avenue In Close Proximity to Students "Hot Spots" Provides trolley service to an area currently not being service by the City Trolley Meets the 70% Requirement from the MDC Interlocal Agreement Provides service to the highest number of potential riders Cons: Further Away From Faculty "Hot Spots" Segment of NW 102 Avenue between NW 74 Street and NW 66 Street is not completed

3.6.1 Stop Locations

The proposed FIU Trolley Route Alternative 3 is intended to provide connection between the FIU Main Campus on SW 8th Street, the FIU Engineering Center on Flagler Street, and the City of Doral on the NW 107th Avenue corridor up to NW 90th Street. This alternative, travels north along NW 107th Avenue and turns east on NW 90th Street, serving the Ronald Regan Doral High School, the Divine Savior Academy, and the residential/commercial area currently being developed to the east of NW 107th Avenue. In order to provide connectivity, existing Miami-Dade Transit bus stops (discussed in section 2.1) and existing City of Doral trolley stops were used along the proposed alternative. Additional stops were also recommended along the route were there was a need of stops for near-by residential areas or commercial destinations and a lack of existing stops. It should be noted that two of the proposed stops are to service the FIU 109 Tower, which is located within the City of Sweetwater, therefore coordination with the City of Sweetwater is required. The existing and proposed trolley stops along the route are relatively closely-spaced and conveniently located in order to attract a high number of riders. The location of trolley stops is important since the distance that people are willing to walk to catch the circulator is generally proportional to the distance they wish to ride it. The preliminary trolley stop locations for Alternative 3 are shown in Exhibit 10. A list of the preliminary locations is also included in Appendix C.

3.6.2 Boarding Process

It is anticipated that the circulator will be a free service. Therefore boarding and alighting would be very quick and efficient, as patrons would be able to board without having to take time paying fares. Circulator systems of this type are generally well-patronized because they offer the promise of quicker service in addition to no fare. In some cases, the time savings achieved by offering free service can offset the need to acquire an additional vehicle or hire an additional driver.





Florida International University

Exhibit 10Stop Locations







Existing Doral Trolley Stop



Proposed FIU Route Trolley Stop



3.6.3 Hours of Operations and Headways

The student/faculty class schedule at FIU begins early in the morning and since the proposed route primarily serves as a connection between FIU and the residential/commercial areas along NW 107th Avenue within the City, the proposed trolley is recommended to operate Monday through Friday from 6 A.M. to 11 P.M. Based on the travel time runs, it is recommended that the trolley operates at 30-45 minute headways.

3.7 Vehicular Requirements

The City currently has a trolley fleet of 11 biodiesel vehicles. Four of the vehicles are Specialty Vehicles and seven are Hometown Trolleys. Vehicles are equipped with seating capacity for 24-34 passengers, a wheelchair lift and capacity for two wheelchairs in the rear of the trolley. They are also equipped with bicycle racks, GPS, Wi-Fi, security cameras, automatic passenger counters, audio and visual destination signs.

As discussed in Section 3.6.3, the proposed FIU Trolley Route is to maintain approximately a 30-45 minute headway. In order to provide these headways, the FIU Trolley Route would require two additional vehicles. This would increase the existing 11 vehicles in the City's fleet to 13 vehicles.

3.8 Fare Structure

As with the existing trolley routes, the proposed FIU Trolley Route will be a free service. The benefits of having a free circulator system are apparent. Free fare gives the system the opportunity to maximize its ridership, reflecting the City's desire for a successful system. Also, there would be less potential for operational delays along the route. The desired headways would therefore be easier to maintain.

4.0 COSTS

Vehicle procurement is generally the largest capital cost. According to the City, the cost to purchase a new biodiesel vehicle is approximately \$175,000. In order to maintain the proposed 30-45 minute headways for Alternative 3, the route would require two vehicles, for a cost of \$350,000. Additional capital costs are required for trolley body wrapping and installation/purchase of technology. Based on City figures, it costs approximately \$15,000 per trolley for wrapping and technology. The total additional cost for both trolleys is \$30,000. Therefore the total capital cost of the proposed Alternative 3 with two trolley vehicles is approximately \$400,000. The annual operating and maintenance costs was estimated at approximately \$550,000. This is based on proposed hours of operations of Monday through Friday 6:00 AM to 11:00 PM (17 hours) for two trolley vehicles. The proposed FIU Trolley Route will have an annual technology service cost of approximately \$3,400 for the two trolleys. Exhibit 11 provides the breakdown of the costs associated with the FIU Trolley Route Alternative 3.

Exhibit 11 Proposed FIU Trolley Route Cost Breakdown

	Item	Cost (per vehicle)	# Trolleys	Total Cost
	Purchase of Trolley Vehicle	\$175,000	x 2	\$350,000
ital	Printing and Trolley Body Wrapping	\$8,000	x 2	\$16,000
Сар	Printing and Trolley Body Wrapping Purchase and Installation of Technology		x 2	\$14,000
	Total Capital Cost	\$190,000	x 2	\$380,000
Annua	l Operation & Maintenance Cost	\$275,000	x 2	\$550,000
Annua	l Technology Service Cost	\$1,680	x 2	\$3,360

Source: City of Doral

5.0 PUBLIC INVOLVEMENTS

In addition to several coordination meetings with City of Doral staff, City of Sweetwater and FIU, two public workshops were held. A FIU Trolley Route Workshop was held on June 28, 2017 at the FIU Main Campus. City of Doral Public Works Department, City of Doral Commissioner, City of Sweetwater staff were all represented. There was a high student attendance and several FIU departments were also represented. The three alternative routes were presented and discussed. Feedback/comments from FIU students, faculty and staff were collected and reviewed. A second workshop was held on September 5, 2017 at the Islands at Doral Clubhouse to present and discuss the proposed alternatives with Doral residents of the area. Event documentation is included in Appendix E. The proposed FIU Trolley Route Expansion Study was heard by City Council on November 8, 2017. The City Council approved the implementation of the recommended alternative Route 3. The City's Resolution No.17-206 is also included in Appendix E.

6.0 CONCLUSIONS AND RECOMMENDATIONS

A feasibility study to extend the existing City of Doral Trolley system has been completed. The purpose of the proposed route is to connect the City of Doral with the FIU Main Campus and the FIU Engineering Center, using NW 107th Avenue. The new route was developed considering population density, activity centers, interconnection to other transit systems, and coverage area. Existing Miami-Dade Transit service within the study area, as well as existing Doral Trolley Routes, Sweetwater Trolley Routes, and FIU Shuttles were reviewed and documented in order to provide connectivity to the new trolley route.

Three distinct alignments and route alternatives were developed for the FIU Trolley Route. After further analysis that included checking that each alternative meets the county requirement, travel time runs, ridership estimates, and coordination with the City, the Alternative 3 was recommended as the preferred alternative. Exhibit 12 provides a summary of the preferred FIU Trolley Route.

Exhibit 12

Prop	Proposed FIU Trolley Route								
Schedule	Weekday	Saturday	Sunday						
Route Length	15.2 miles								
No. of Trolleys	2								
Average Speed	11 mph		Service not proposed						
Peak Hour Trolley Headways	30 – 45 minutes	Service not							
Off-Peak Hour Trolley Headways	50 – 43 minutes	proposed							
Service Span	6:00 AM – 11:00 PM								
Number of Stops	42								
Number of Stations	9								
Spacing between Stops	500	0 to 3500 feet							

The student/faculty class schedule at FIU begins early in the morning and since the proposed route primarily serves as a connection between FIU and the residential/commercial areas along NW 107^{th} Avenue within the City of Doral, the proposed trolley is recommended to operate Monday through Friday from 6 A.M. to 11 P.M, with approximate 30-45 minute headways. It is estimated that Alternative 3 will have 137,020 yearly boardings. In order to maintain the proposed 30-45 minute headways, the FIU Trolley Route Alternative 3 would require two trolleys.

As with the existing trolley routes, the proposed FIU Trolley Route will be a free service. The benefits of having a free trolley system are apparent. Free fare gives the system the opportunity to maximize its ridership, reflecting the City's desire for a successful system. Also, there would be less potential for operational delays along the route. The desired headways would therefore be easier to maintain.

The costs of extending the trolley system were estimated based on information provided by the City. The approximate capital costs associated with the proposed route is \$400,000, the approximate annual operating and maintenance costs is \$550,000 and the approximate annual technology service costs is \$3,400.

Doral Trolley Route Expansion Study_November 2017

Appendix A Existing Transit MDT Routes /Schedules / Ridership

MDT Routes /Schedules / Ridership
FIU Shuttle
City of Sweetwater Circulator

MIAMI-DADE TRANSIT ROUTES (NW 107th AVENUE)

ROUTE		SCHEDULE		WAIT TIMES (PEAK HOUR)	DIRECTION	STOP
	Weekday	5:30 AM	10:39 PM	40 min (30min)		FOUNTAINEBLEAU BD NW 107 AVE
	Saturday	6:30 AM	9:59 PM	40 min (40min)	NB	NW 107 AV NW 12 ST
7	Sunday	6:30 AM		60 min (40min)		NW 14 ST NW 107 AV
'	Weekday	4:41 AM		40 min (30min)		NW 107 AVE & 14 ST
	Saturday	5:51 AM		40 min (40min)	SB	NW 107 AV NW 14 ST
	Sunday	6:22 AM		60 min (40min)		FOUNTAINEBLEAU BD NW 107 AV
	Weekday	4:37 AM		60 min (15min)		FIU MAIDIQUE CAMPUS BUS TERM
	Saturday	5:16 AM	10:55 PM	, ,	NB	SW 107 AV #1431
	Sunday	5:17 AM	10:50 PM	60min (30 min)		SW 107 AV # 1225
8						SW 107 AV # 917
	Weekday	5:26 AM		60 min (30min)	a-	SW 107 AV SW 11 ST
	Saturday	5:40 AM		60 min (15min)	SB	SW 107 AV SW 14 ST
	Sunday	6:00 AM	12:52 PM			FIU MAIDIQUE CAMPUS BUS TERM
	Weekday	4:41 AM		60 min (15min)		FIU MAIDIQUE CAMPUS BUS TERM
	Saturday	5:11 AM		60 min (30min)		SW 107 AV #1431
	Sunday	5:08 AM	4:55 AIVI	60 min (30min)	NB	SW 107 AV # 1225
					IND	SW 107 AV # 917 SW 107 AV SW 6 ST
						SW 107 AV SW 631 SW 107 AVE & 4 ST
						W FLAGLER ST & SW 107 AVE
11	Weekday	5:20 AM	5·53 AM	60 min (30min)		SW 107 AVE & W FLAGLER ST
	Saturday	5:50 AM		60 min (25min)		SW 107 AVE & WILAGLER SI
	Sunday	5:55 AM		60 min (30min)		SW 107 AV SW 5 ST
	Sunday	3.33 AIVI	3.30 AIVI	(3011111)	SB	SW 107 AV SW 3 ST
					36	SW 107 AV SW 7 ST
						SW 107 AV SW 14 ST
						FIU MAIDIQUE CAMPUS BUS TERM
	Weekday	5:07 AM	12:01 AM	40 min (30 min)		FIU MAIDIQUE CAMPUS BUS TERM
	Saturday	5:23 AM		60 min (30min)	NB	·
	Sunday	5:22 AM		60 min (30min)		
24	Weekday	5:22 AM	12:40 AM	40 min (40 min)		FIU MAIDIQUE CAMPUS BUS TERM
	Saturday	5:17 AM	12:44 AM	60 min (30min)	SB	
	Sunday	5:16 AM	10:46 PM	60 min (30min)		
	Weekday	5:37 AM	9:59 PM	60 min (60min)		NW 107 AV NW 15 ST
						NW 107 AV NW 19 ST
					NB	NW 107 AV NW 25 ST
					NB	NW 107 AV NW 27 ST
						NW 107 AV NW 31 TR
						NW 41 ST & 107 AVE
36B	Weekday	5:05 AM	9:06 PM	60 min (60min)		NW 41 ST & 107 AVE
						NW 107 AV NW 31 TR
						NW 107 AV NW 27 ST
					SB	NW 107 AV NW 24 ST
						NW 107 AV NW 19 ST
						NW 107 AV NW 15 ST
	Martist:				ND	NW 14 ST NW 107 AV
51	Weekday		0.16 014	20min /15min\	NB CD	W FLAGLER ST & SW 107 AVE
	Weekday	5:59 AM	A:TP LIN	30min (15min)	SB	W FLAGLER ST & NW 107 AVE

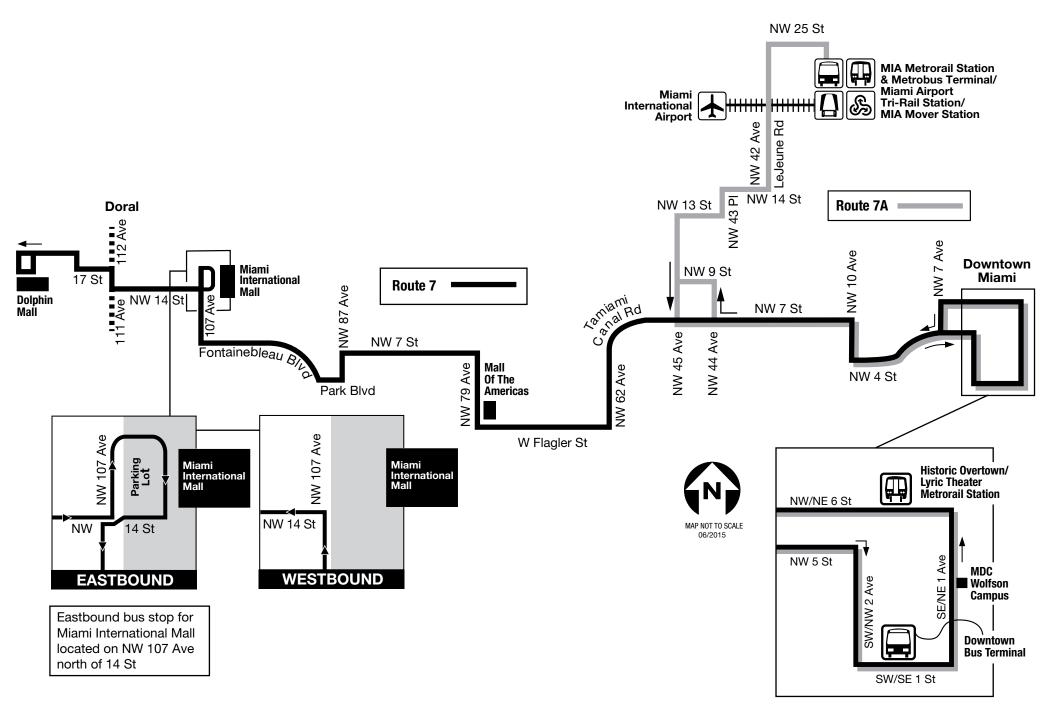
MIAMI-DADE TRANSIT ROUTES (NW 107th AVENUE)

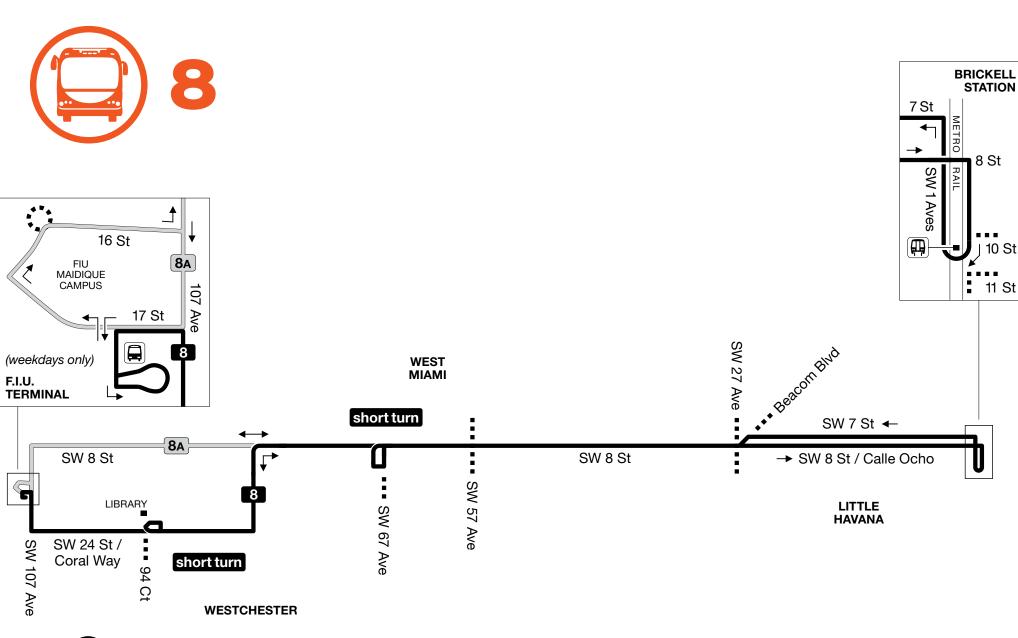
ROUTE		SCHEDULE		WAIT TIMES (PEAK HOUR)	DIRECTION	STOP
	Weekday	6:36 AM		65 min (30 min)		FIU MAIDIQUE CAMPUS BUS TERM
	Saturday	7:14 AM		60 min (60 min)		SW 107 AV #1431
	Sunday	9:35 AM	6:26 PM	60 min (60 min)		SW 107 AV # 1225
					NB	SW 107 AV # 917
					NB	SW 107 AV SW 6 ST
						SW 4 ST SW 107 AV
						NW 107 AV NW 12 ST
						NW 14 ST NW 107 AV
71	Weekday	6:09 AM	8:40 PM	65 min (30min)		NW 107 AV NW 15 ST
	Saturday	7:00 AM	7:10 PM	60 min (60 min)	SB	NW 107 AV NW 14 ST
	Sunday	9:37 AM	6:28 PM	60 min (60 min)		NW 7 ST NW 107 AVE
						SW 4 ST SW 107 AV
						SW 107 AV SW 5 ST
						SW 107 AV SW 7 ST
						SW 107 AV SW 11 ST
						SW 107 AV SW 14 ST
						FIU MAIDIQUE CAMPUS BUS TERM
	Weekday	8:30 AM	5:01 PM	60 min (60min)	NB	FIU MAIDIQUE CAMPUS BUS TERM
82	Weekday	8:00 AM		60 min (60min)	SB	FIU MAIDIQUE CAMPUS BUS TERM
	Weekday	5:35 AM	9:27 PM	45 min (30min)		NW 107 AV FLAGLER ST
	Saturday	5:30 AM	9:51 PM	45 min (40min)	NB	NW 107 AV FLAGLER ST
	Sunday	5:30 AM	9:49 PM	45 min (40min)		-
	Weekday	5:25 AM	10:28 PM	45 min (30min)		NW 107 AVE & 14 ST
137	Saturday	6:05 AM	10:26 PM	45 min (40min)		NW 107 AV NW 14 ST
	Sunday	6:10 AM	10:21 PM	45 min (40min)	CD.	NW 107 AV NW 7 ST
					SB	NW 107 AV # 322
						NW 107 AV # 230
						W FLAGLER ST & NW 107 AVE
	Weekday	9:21 AM	3:00 PM	30 min (30 min)		SW 4 ST SW 107 AV
					NB	SW 107 AVE & 4 ST
242						W FLAGLER ST & NW 107 AVE
212	Weekday	9:00 AM	3:13 PM	30 min (30 min)		SW 107 AVE & W FLAGLER ST
					SB	SW 107 AV SW 3 ST
						SW 4 ST SW 107 AV
	Weekday	6:30 AM	8:21 PM	60 min (45min)		NW 107 AV & NW 14 ST
					ND	NW 107 AV & NW 15 ST
					NB	NW 107 AV & NW 19 ST
220						NW 107 AV & NW 25 ST
238	Weekday	6:55 AM	8:15 PM	60 min (45 min)		NW 107 AV NW 24 ST
					CD	NW 107 AV NW 19 ST
					SB	NW 107 AV NW 15 ST
						NW 14 ST NW 107 AV
	Saturday	11:00 AM	7:25 PM	60 min (60min)	NID	-
220	Sunday	11:00 AM	7:25 PM		NB	-
338	Saturday	11:25 AM	7:49 PM	60 min (60min)	CD	NW 107 AV & NW 14 ST
	Sunday	11:25 AM	7:49 PM		SB	

NORTHBOUND STORS				NOTEC										
	NORTHBOUND STOPS		8	11	24	36B	51	71	82	137	212	238	338	NOTES
1	FIU MAIDIQUE CAMPUS BUS TERM		8	11	24			71	82					
2	SW 107 AV #1431		8	11				71						
3	SW 107 AV # 1225		8	11				71						
4	SW 107 AV # 917		8	11				71						
5	SW 107 AV SW 6 ST			11				71						
6	SW 107 AVE & 4 ST			11							212			
7	SW 4 ST SW 107 AV							71			212			on SW 4 St
8	W FLAGLER ST & SW 107 AVE			11			51							on Flager E of NW 107 Ave
9	W FLAGLER ST & SW 107 AVE										212			on Flager W of NW 107 Ave
10	FOUNTAINEBLEAU BD NW 107 AVE	7												on Fountainebleue Blvd
11	NW 107 AV FLAGLER ST									137				
12	NW 107 AV FLAGLER ST									137				
13	NW 107 AV NW 12 ST	7						71						
14	NW 14 ST NW 107 AV	7						71						on NW 14 St
15	NW 107 AV NW 14 ST											238		
16	NW 107 AV NW 15 ST					36						238		
17	NW 107 AV NW 19 ST					36						238		
18	NW 107 AV NW 25 ST					36						238		
19	NW 107 AV & NW 25 ST					36								
20	NW 107 AV NW 27 ST					36								
21	NW 107 AV NW 31 TR					36								
22	NW 41 ST & 107 AVE					36								

COUTUROUND STORS						NOTEC								
	SOUTHBOUND STOPS		8	11	24	36	51	71	82	137	212	238	338	NOTES
1	NW 41 ST & 107 AVE					36								on NW 41 St
2	NW 107 AV NW 31 TR					36								
3	NW 107 AV NW 27 ST					36								
4	NW 107 AV NW 24 ST					36						238		
5	NW 107 AV NW 19 ST					36						238		
6	NW 107 AV NW 15 ST					36		71				238		
7	NW 14 ST NW 107 AV					36						238		on NW 14 St
8	NW 107 AV & NW 14 ST	7								137				north of NW 14 St
9	NW 107 AV NW 14 ST	7						71		137			338	south of NW 14 st
10	FOUNTAINEBLEAU BD NW 107 AV	7												on Fountainebleue Blvd
11	NW 7 ST NW 107 AVE							71						on NW 7 St
12	NW 107 AV NW 7 ST									137				
13	NW 107 AV # 322									137				
14	NW 107 AV # 230									137				
15	W FLAGLER ST & NW 107 AVE						51			137				on Flager W of NW 107 Ave
16	SW 107 AVE & W FLAGLER ST			11							212			
17	SW 107 AV SW 3 ST			11							212			
18	SW 4 ST SW 107 AV							71			212			on SW 4 St
19	SW 107 AV SW 5 ST			11				71						
20	SW 107 AV SW 7 ST			11				71						
21	SW 107 AV SW 11 ST		8	11				71						
22	SW 107 AV SW 14 ST		8	11				71						
23	FIU MAIDIQUE CAMPUS BUS TERM		8	11	24			71	82					

Route 7







www.miamidade.gov/transit



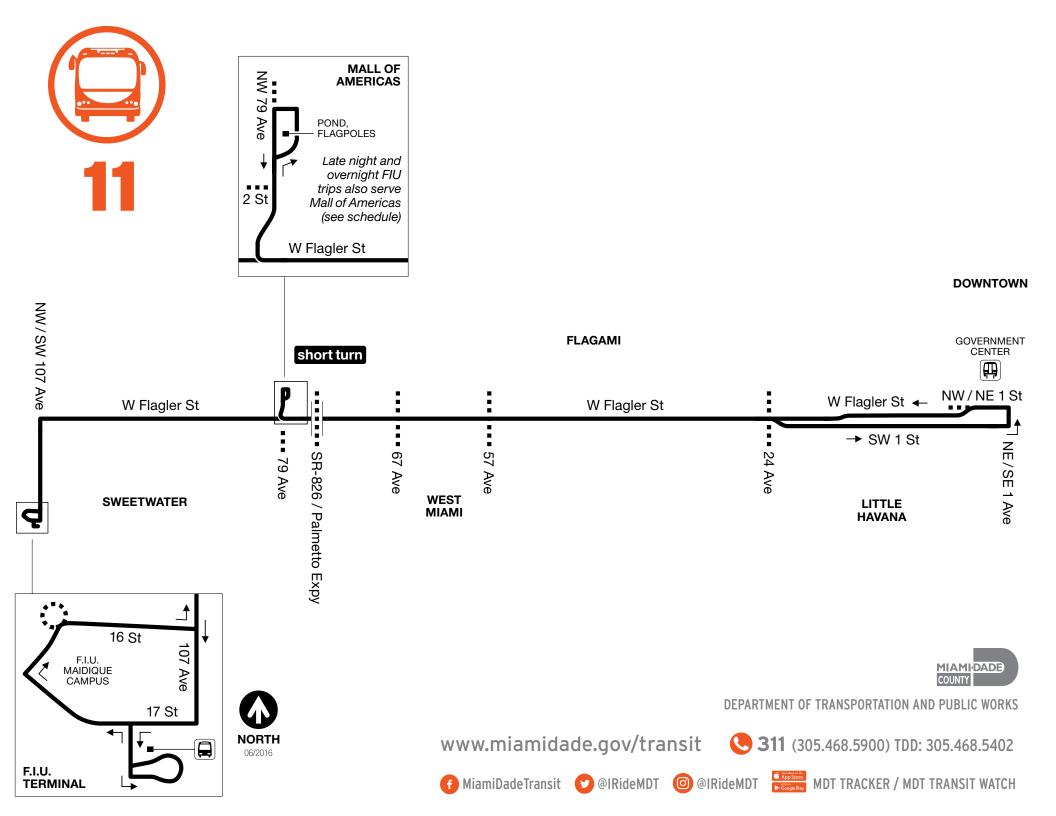




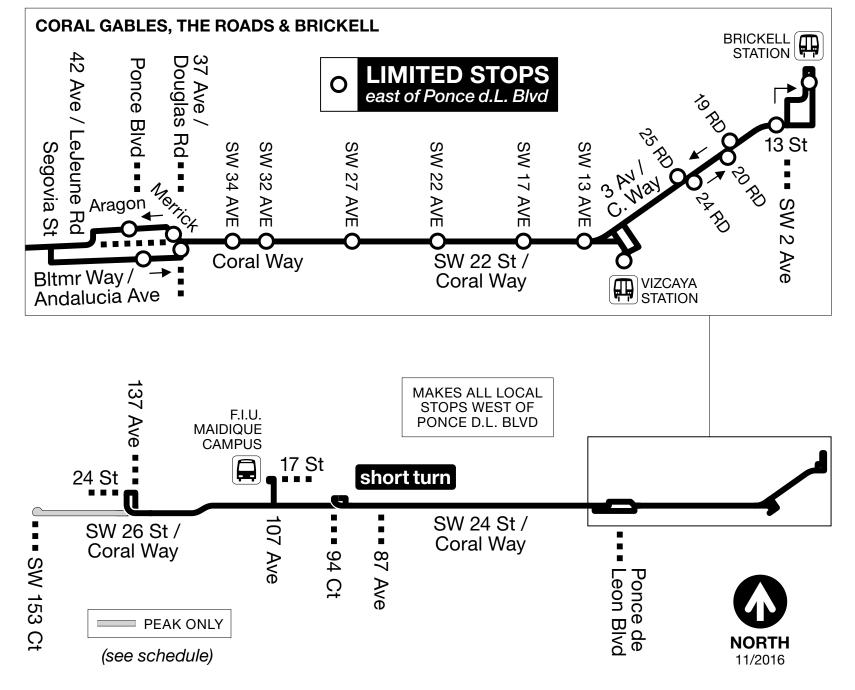


















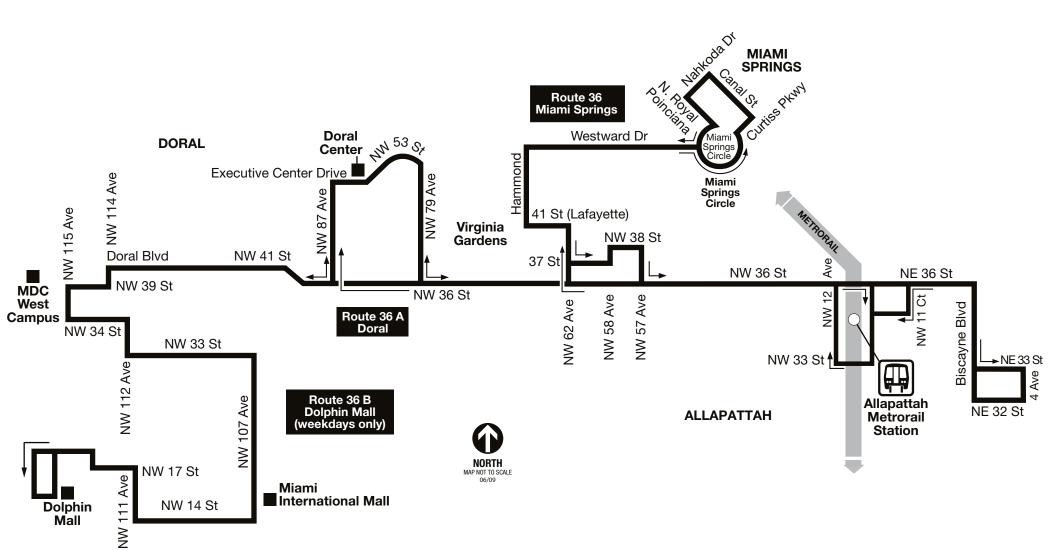






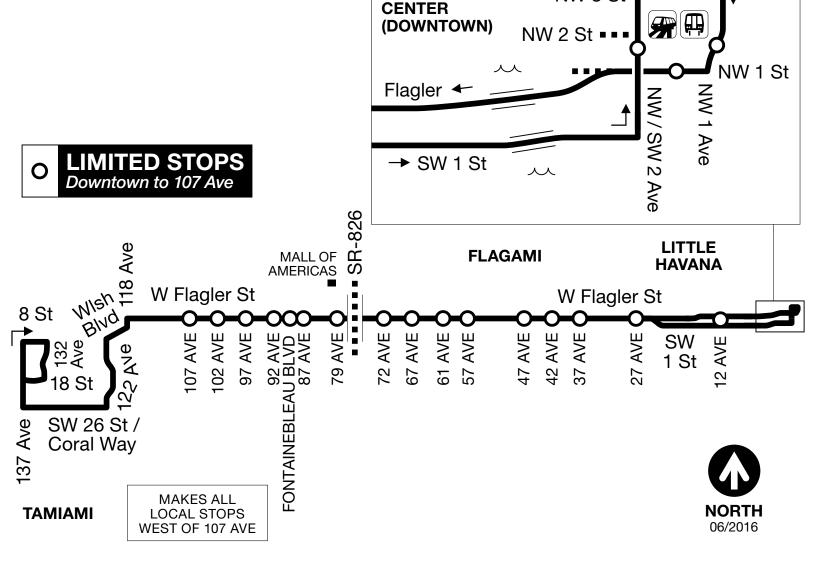


Route 36





FLAGLER MAX



GOVERNMENT

NW 3 St









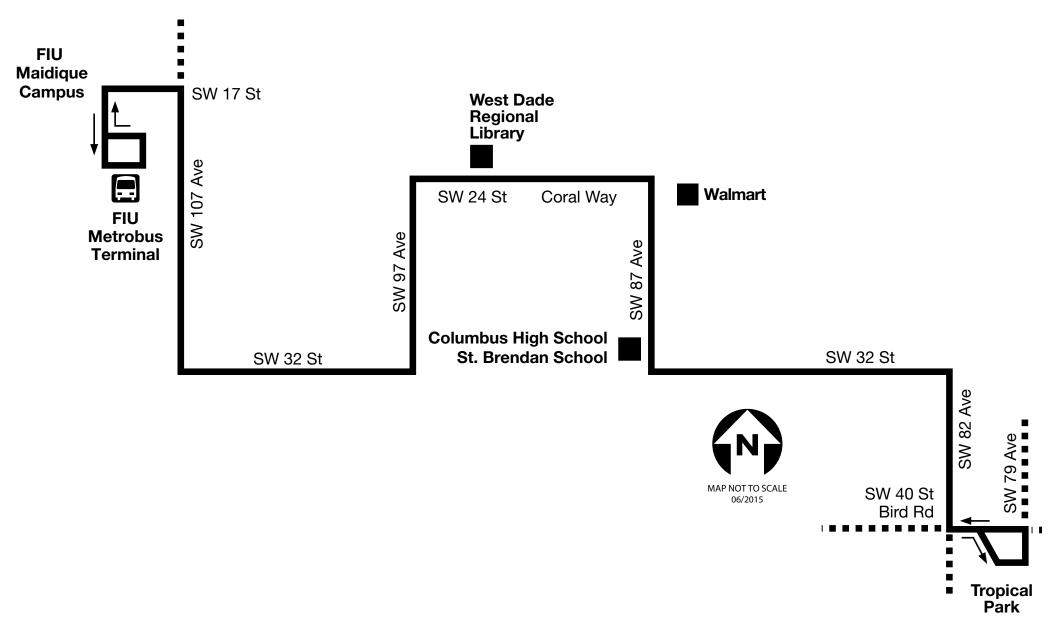






Route 71 Southbound bus stop for Miami International Mall 112 Ave located on NW 107 Ave north of 14 St NW 17 St Miami International Dolphin Mall Mall 111 Ave **NW 14 St** Miami International Mall NW 107 Parking Lot NW 107 Ave NW 7 St NW 14 St 112 Ave SOUTHBOUND SW 4 St NW 107 Ave FIU Modesto A. Maidique Campus (Bus Terminal) Miami International Mall NW 14 St **WESTCHESTER NORTHBOUND** SW 32 St **SW 112 Ave** MAP NOT TO SCALE SOUTHBOUND **NORTHBOUND** Snapper Creek Dr **WEEKDAY WEEKDAY MIDDAY ONLY MIDDAY ONLY** Ave Ave M.D.C., SW 72 St M.D.C. Ave SW 107 SW 107 107 **KENDALL** SW 88 St SW 104 St SW 104 St Ave Ave Miami Dade College **Kendall Campus** 107 ರ SW 112 SW 112 109 SW SW 104 St SW 107 St SW 107 St

WESTCHESTER Circulator

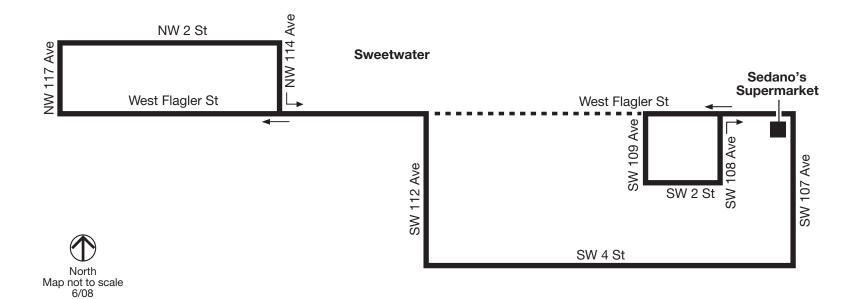


Route 137 **Doral West Dade** NW 107 Ave Miami 17 St **Connection** Dolphin Mall International Miami International Mall NW 14 St NW 14 St **NW 107 Ave** NW 6 St **NORTHBOUND** SW/NW 132 Ave W Flagler St Parking Lot NW 107 Miami **Sweetwater** International Mall NW 14 St SW 8 St **SOUTHBOUND** Southbound bus stop for Miami International Mall WEEKENDS ONLY located on NW 107 Ave north of 14 St Tamiami Pineland Industrial SW 8 St Miami Executive **Airport** Park Ave SW 132 Ave ■■■ SW 137 ರ SW 129 PI SW 160 St SW 10 St **SW 142 Ave** SW 168 St SW 147 Ave Serena Lakes Ave Larry & Penny SW 137 Thompson Memorial Park SW 180 St SW 184 St SW 200 St Cutler Bay SW 122 Ave Park Southland Mall 211 St **South Dade** MAP NOT TO SCALE Government Center

Route 212Sweetwater Circulator

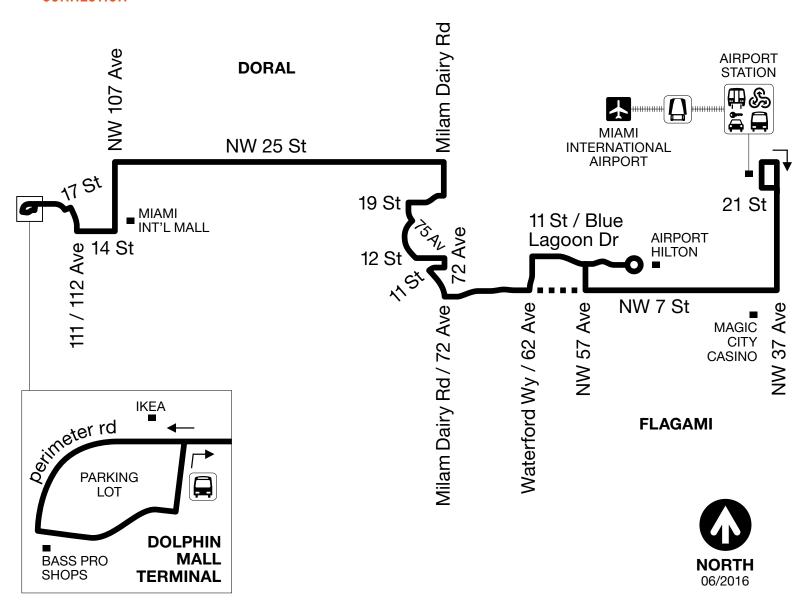








EAST-WEST CONNECTION



www.miamidade.gov/transit







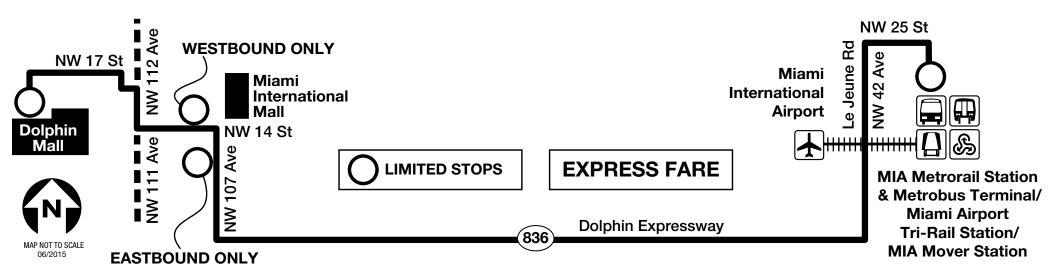








Route 338 Weekend Express

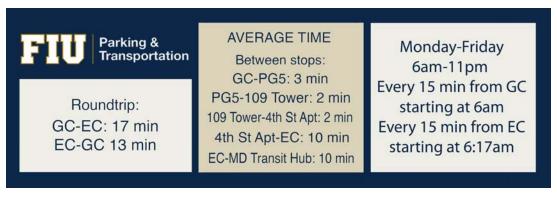


Service

The CATS shuttle travels between Modesto A. Maidique Campus and the Engineering Center. The service operates two shuttles from 6:00am-11:00pm, with departures every 15 minutes at the top of the hour starting at 6:00am from MMC and starting at 6:17am from EC. All shuttles will provide additional stops east of PG5, the Miami–Dade transit hub located at 107th Ave and 17th street, and at the new housing towers in the City of Sweetwater.

Schedule





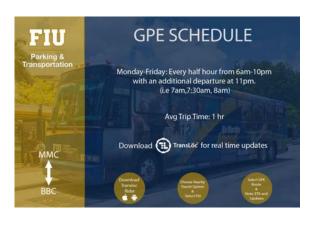
Did you Know?

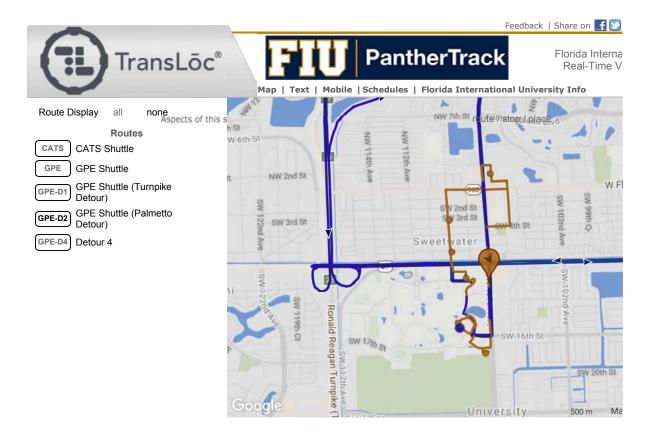
Shuttles do not operate on non-class days and during semester breaks

- Martin Luther King, Jr. January 16, 2017
- Memorial Day May 29, 2017
- Independence
 Day July 4, 2017
- Labor Day September 4, 2017
- Veterans Day November 10, 2017
- Thanksgiving November 23, 2017









Service

The Golden Panther Express (GPE) Shuttle provides an alternative to driving between FIU's two main campuses: Modesto A. Maidique Campus and Biscayne Bay Campus. The pick-up and drop-off stop for Modesto A. Maidique Campus is in Lot 3, east of the Graham Center Building and next to the Gold Parking Garage. The pick-up and drop-off stop for Biscayne Bay Campus is located in front of the AC1 Building.

- > Currently Registered Students \$2.50
- > Non-Students & Affiliates \$5.00

Manage Your One Card Account

On-Campus Options



THE OFFICIAL WEBSITE FOR THE MUNICIPAL GOVERNMENT OF SWEETWATER, FL







CONTACT US

Administration (administration.htm)

Police (police.htm)

Finance (finance.htm)

Elderly Program (elderly.htm)

Human Resources (humanresources.html)

Parks & Recreation (parks.htm)

Public Works (public-works.html)

Maintenance (maintenance.htm)

Special Projects (projects.htm)

Building & Zoning (building-zoning-html)

IMPORTANT LINKS

City Charter and Code of Ordinances (http://www.municode.com/Resources/gateway.asp?pid=10062&sid=9.)

Stay Connected

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Sweetw

Florida/9

Community Information

City of Sweetwater Transit Schedule

The trolley services are free and open to the public. This route have been thoughtfully designed to provide every hour and a half, a reliable transportation to all of Sweetwater's most popular locations, such as, Dolphin Mall, parks and the Sweetwater Municipal Complex. For the Trolley route we have also taken into consideration that there are locations on the fringes of the city's borders that are also popular destinations and have included stops in Florida International University and International Mall.

The trolley service route runs from 8:00 am to 7:00 p.m. Monday through Friday and from 8:30 am to 5:00 pm. Saturday and Sunday. The trolley service does not run on Thanksgiving, Christmas day and New Year's. The Trolley runs from 8:30 am to 5:00 pm on other legal holidays.

The Trolley Route starts in Sweetwater Maintenance and Transit Department, 1701 NW 110TH Avenue, every hour and a half beginning at the designated weekday and weekend hours. Please see the detailed schedule.

Routes are subject to change depending on rider input.

Please email us at trolley@cityofsweetwater.fl.gov or call 305-633-0891 for questions, comments and to request the most updated trolley schedule.

Servicio de Trolley

Los servicios de los Trolleys son Gratuitos y abiertos al público. Esta ruta ha sido cuidadosamente diseñada para proporcionar cada hora y media, un transporte confiable a todos los lugares más populares de La Ciudad de Sweetwater, por ejemplo, Dolphin Mall, parques y los complejos Municipales de La Ciudad de Sweetwater.

Para la ruta del Trolley también se han tomado en consideración que hay lugares en los márgenes de las fronteras de la Ciudad que también son destinos populares y se han incluido paradas en Florida International University (FIU) y el centro comercial International Mall.

La ruta de servicio de Trolley, corre de:

- 8:00 am a 7:00 pm de Lunes a Viernes
- 8:30 a 5:00 pm de Sábado a Domingos

El servicio de Trolley no trabaja el dia de acción de Gracias, navidad y año nuevo y funciona de 8:30 a 5:00 pm y en los otros días de fiesta legales. La ruta del Trolley comienza en el Departamento de Mantenimiento y Transito de la Ciudad de Sweetwater, 1701 NW 110 Avenida, cada hora y media.

Por favor vea el horario. Las rutas están sujetas a cambios dependiendo de su participación. Por favor escríbanos a trolley@cityofsweetwater.fl.gov o llame al 786-507-4850 para preguntas, comentarios y solicitar el calendario más actualizado de Trolley.

Transit Routes (last updated January 2014)

01 NW 110 Ave - City of Sweetwater Maintenance and transit Dept.
01 NW 112th Avenue - Sweetwater Code Enforcement and Building and Zoning
401 NW 12th St - DOLPHIN MALL
try #8 Trio
try #7 Bloomindales' - The Outlet Store
rlington Coat Factory
try #5 Dolphin Mall
rshall / Home Goods
try #4 - Sacks Fifth Avenue Outlet.
NSS CONTRACTOR OF THE PROPERTY
in Entrance Texas Brazil and Cheesecake Factory
try #2 - Old Navy.
ss Pro Shop.
DLPHIN MALL Miami-Dade Main Bus Stop
01 NW 117th Avenue - IKEA
598 NW 25th St - US Postal Service

11411 NW 25th St - Our Lady of Mercy Catholic Cemetary
10730 NW 25th St La Covacha
2390 NW 107th Avenue - Midas
1890 NW 107th Avenue - BP gas station/ MD bus stop
1500 NW 107th Avenue - County Federal Credit Union
1414 NW 107th Avenue - MD bus stop
1390 NW 107th Avenue - MD bus stop
500 NW 107th Avenue - MD bus stop
318 NW 107th Avenue - MD bus stop
200 NW 107th Avenue - MD bus stop
10701 NW W. Flagler - Mobil / Food Star
10910 W. Flagler - My Pueblo Restaurant
10983 SW 4th Street - MD bus stop
110th Avenue SW 5th St - MD bus stop
500 SW 109th Avenue - City of Sweetwater
City Hall, POLICE Department and MD Clerk of Courts
512 SW 109th Avenue - City of Sweetwater Passport Office
7th SW 110th Avenue - Stop sign
7th Tr SW 110th Avenue - Stop sign
7th Tr SW 113th and 114th Avenue
250 SW 114th Avenue Jorge Mas Canosa Youth Center / Ronselli Park
11495 W. Flagler - Social Security / Robles / Villa Hermosa
11699 W. Flagler - Salon Del Reino De Los Testigos De Jehova
117th Avenue SW 1st St - Corner
11590 SW 2nd St - MD bus stop
11490 SW 2nd St - MD bus stop
455 NW 114th Avenue - (New Building)
4th Tr NW 110th Avenue
6th St NW 114th Avenue
7th NW 113th Avenue
7th NW 112th Avenue
606 NW 112th Avenue - MD bus Stop
11235 NW 5th St - Vann Academy / MD bus stop
112th Avenue NW 2nd Tr - MD bus stop
112th Avenue NW 1st St - MD bus stop
11200 W. Flagler - Tower Plaza / MD bus stop
11200 SW 2nd St - MD bus stop
7th Tr SW 113th and 114th Avenue
550 SW 115th Avenue - Sweetwater Creek 115th SW 2nd Street Stop sign
115th SW 2nd Street - Stop sign 11400 SW W. Flagler, Flagler Shopping Center / MD bus stop.
11400 SW W. Flagler - Flagler Shopping Center / MD bus stop
11388 W. Flagler - MD bus stop
113th Avenue W. Flagler - MD bus stop
11180 W. Flagler - MD bus stop
10900 W. Flagler - Finish Line Gas Station
10780 SW Flagler Madrono Restaurant
10720 W. Flagler - Sedanos
50 SW 108th Avenue - MD bus stop
10690 W. Flagler - Chase Bank

10500 SW W. Flagler - MacDonald 103ct SW W. Flagler - MD bus stop 10198 W. Flagler - Sunoco Gas Station / MD Bus stop 10044 W. Flagler - Navarro 99ct W. Flagler - MD bus stop 9695 W. Flagler - Winn Dixie 9825 W. Flagler - Ruben Dario Park 99ct W. Flagler - MD bus stop 102nd Avenue SW 1st St. 102nd Avenue SW 4th St. - Stop sign 10600 SW 4th St - Mildred & Claude Pepper Senior Center 300 SW 107th Ave - Continental National Bank of Miami 10750 SW 4th St - Sweetwater Towers 10899 SW 4th St - MD bus stop 740 SW 107th Avenue 1200 SW 108th Avenue - FIU 1525 SW 107th Avenue - Publix Supermarket / MD bus stop 1225 SW 107th Avenue - Palmer House / MD bus stop 595 SW 107th Avenue - MD bus stop 10555 W. Flagler (West Side) - FIU Engineering Center 561 NW 107th Ave -West Lake Village / MD bus stop 690 NW 107th Ave - Tropical Super Market 1455 NW 107 Ave- Macys & Old Navy - INTERNATIONAL MALL 10750 NW 14th Street - MD bus stop

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City Hall: (305) 221-0411

Appendix B Travel Time Runs

Route 1

From	То	Д	ΔM	MIC	DDAY	Р	PM	Notes
		Time	Travel Time	Time	Travel Time	Time	Travel Time	
Nw 107 Avenue / NW 66 Street	NW 102 Avenue / NW 66 Street	01:47	01:47	01:29	01:29	01:32	01:32	
NW 102 Avenue / NW 66 Street	NW 102 Avenue / NW 58 Street	05:27	03:40	02:54	01:25	03:04	01:32	Segment is closed. Uses travel time from Route 1 - NW 107 Ave/NW 66 St to NW 107 Ave/NW 58 St
NW 102 Avenue / NW 58 Street	NW 107 Avenue / NW 58 Street	07:27	02:00	04:45	01:51	05:37	02:33	Segment is closed. Uses travel time from Route 1- NW 102 Ave/NW 66 St to NW 107 Ave/NW 66 St
NW 107 Avenue / NW 58 Street	NW 107 Avenue / NW 41 Street	12:15	04:48	08:26	03:41	11:27	05:50	
NW 107 Avenue / NW 41 Street	NW 107 Avenue / NW 33 Street	13:09	00:54	09:22	00:57	12:59	01:32	
NW 107 Avenue / NW 33 Street	NW 107 Avenue / NW 25 Street	15:19	02:10	12:18	02:57	16:18	03:19	
NW 107 Avenue / NW 25 Street	NW 107 Avenue / NW 12 Street	17:31	02:12	15:20	03:02	25:03	08:45	
NW 107 Avenue / NW 12 Street	NW 107 Avenue / NW 7 Street	20:56	03:25	17:27	02:07	26:46	01:42	
NW 107 Avenue / NW 7 Street	SW 107 Avenue / Flagler Street	22:22	01:26	19:22	01:55	29:44	02:59	
SW 107 Avenue / Flagler Street	SW 109 Avenue / Flagler Street	23:47	01:25	20:38	01:17	31:06	01:22	
SW 109 Avenue / Flagler Street	SW 109 Avenue / NW 4 Street	24:31	00:44	21:25	00:47	31:54	00:47	
SW 109 Avenue / SW 4 Street	SW 109 Avenue / SW 8 Street	26:58	02:28	23:27	02:02	35:26	03:32	
SW 109 Avenue / SW 8 Street	SW 109 Avenue / University Circle	28:38	01:40	25:23	01:57	36:50	01:24	
SW 109 Avenue / University Circle	SW 109 Avenue / University Circle	31:58	03:20	29:52	04:29	41:55	05:05	Travel Time is Average of two travel runs
SW 109 Avenue / University Circle	SW 109 Avenue / SW 8 Street	33:29	01:31	31:18	01:26	43:34	01:39	
SW 109 Avenue / SW 8 Street	SW 109 Avenue / SW 4 Street	34:29	01:00	32:18	01:00	44:25	00:51	
SW 109 Avenue / SW 4 Street	SW 109 Avenue / Flagler Street	35:57	01:28	34:51	02:33	46:04	01:39	
SW 109 Avenue / Flagler Street	SW 107 Avenue / Flagler Street	39:51	03:54	37:30	02:38	48:33	02:29	
SW 107 Avenue / Flagler Street	NW 107 Avenue / NW 7 Street	41:40	01:49	39:08	01:38	52:44	04:11	
NW 107 Avenue / NW 7 Street	NW 107 Avenue / NW 12 Street	43:47	02:07	41:16	02:08	55:23	02:39	
NW 107 Avenue / NW 12 Street	NW 107 Avenue / NW 25 Street	47:44	03:58	45:24	04:09	59:13	03:50	
NW 107 Avenue / NW 25 Street	NW 107 Avenue / NW 33 Street	49:10	01:26	46:31	01:07	1:00:40	01:27	
NW 107 Avenue / NW 33 Street	NW 107 Avenue / NW 41 Street	53:56	04:46	49:07	02:36	1:06:21	05:41	
NW 107 Avenue / NW 41 Street	NW 107 Avenue / NW 58 Street	57:33	03:37	52:46	03:39	1:11:32	05:11	
NW 107 Avenue / NW 58 Street	Nw 107 Avenue / NW 66 Street	59:19	01:46	54:00	01:14	1:12:44	01:12	
		59):19	54	:00	1:1	2:44	

Route 2

From	То	A	M	MII	DDAY	Р	М	Notes
		Time	Travel Time	Time	Travel Time	Time	Travel Time	
NW 109 Avenue / NW 82 Street	NW 109 Avenue / NW 90 Street	01:02	01:02	01:50	01:50	01:35	01:35	
NW 109 Avenue / NW 90 Street	NW 107 Avenue / NW 90 Street	01:58	00:56	02:49	00:59	02:28	00:53	
NW 107 Avenue / NW 90 Street	NW 107 Avenue / NW 82 Street	04:18	02:20	04:15	01:26	03:51	01:23	
NW 107 Avenue / NW 82 Street	NW 107 Avenue / NW 74 Street	07:26	03:08	06:32	02:17	08:55	05:04	
NW 107 Avenue / NW 74 Street	NW 107 Avenue / NW 66 Street	08:42	01:16	07:30	00:58	10:01	01:06	
NW 107 Avenue / NW 66 Street	NW 107 Avenue / NW 58 Street	10:55	02:13	08:27	00:57	12:51	02:50	
NW 107 Avenue / NW 58 Street	NW 107 Avenue / NW 41 Street	15:43	04:48	12:07	03:41	18:41	05:50	
NW 107 Avenue / NW 41 Street	NW 107 Avenue / NW 33 Street	16:37	00:54	13:04	00:57	20:13	01:32	
NW 107 Avenue / NW 33 Street	NW 107 Avenue / NW 25 Street	18:47	02:10	16:00	02:57	23:32	03:19	
NW 107 Avenue / NW 25 Street	NW 107 Avenue / NW 12 Street	20:59	02:12	19:02	03:02	32:17	08:45	
NW 107 Avenue / NW 12 Street	NW 107 Avenue / NW 7 Street	24:24	03:25	21:09	02:07	34:00	01:42	
NW 107 Avenue / NW 7 Street	SW 107 Avenue / Flagler Street	25:50	01:26	23:03	01:55	36:58	02:59	
SW 107 Avenue / Flagler Street	SW 109 Avenue / Flagler Street	27:15	01:25	24:20	01:17	38:20	01:22	
SW 109 Avenue / Flagler Street	SW 109 Avenue / NW 4 Street	27:59	00:44	25:06	00:47	39:07	00:47	
SW 109 Avenue / SW 4 Street	SW 109 Avenue / SW 8 Street	30:26	02:28	27:09	02:02	42:39	03:32	
SW 109 Avenue / SW 8 Street	SW 109 Avenue / University Circle	32:06	01:40	29:05	01:57	44:03	01:24	
SW 109 Avenue / University Circle	SW 109 Avenue / University Circle	35:26	03:20	33:34	04:29	49:09	05:05	Travel Time is Average of two travel runs
SW 109 Avenue / University Circle	SW 109 Avenue / SW 8 Street	36:57	01:31	35:00	01:26	50:48	01:39	
SW 109 Avenue / SW 8 Street	SW 109 Avenue / SW 4 Street	37:57	01:00	36:00	01:00	51:39	00:51	
SW 109 Avenue / SW 4 Street	SW 109 Avenue / Flagler Street	39:25	01:28	38:33	02:33	53:17	01:39	
SW 109 Avenue / Flagler Street	SW 107 Avenue / Flagler Street	43:19	03:54	41:11	02:38	55:47	02:29	
SW 107 Avenue / Flagler Street	NW 107 Avenue / NW 7 Street	45:08	01:49	42:50	01:38	59:58	04:11	
NW 107 Avenue / NW 7 Street	NW 107 Avenue / NW 12 Street	47:15	02:07	44:58	02:08	1:02:37	02:39	
NW 107 Avenue / NW 12 Street	NW 107 Avenue / NW 25 Street	51:12	03:58	49:07	04:09	1:06:27	03:50	
NW 107 Avenue / NW 25 Street	NW 107 Avenue / NW 33 Street	52:38	01:26	50:13	01:07	1:07:53	01:27	
NW 107 Avenue / NW 33 Street	NW 107 Avenue / NW 41 Street	57:24	04:46	52:49	02:36	1:13:34	05:41	
NW 107 Avenue / NW 41 Street	NW 107 Avenue / NW 58 Street	1:01:01	03:37	56:28	03:39	1:18:46	05:11	
NW 107 Avenue / NW 58 Street	Nw 107 Avenue / NW 66 Street	1:02:25	01:24	57:30	01:02	1:20:18	01:32	
Nw 107 Avenue / NW 66 Street	Nw 107 Avenue / NW 74 Street	1:03:31	01:06	59:59	02:29	1:21:34	01:16	
Nw 107 Avenue / NW 74 Street	Nw 107 Avenue / NW 82 Street	1:05:32	02:01	1:01:15	01:16	1:25:23	03:49	
Nw 107 Avenue / NW 82 Street	Nw 109 Avenue / NW 82 Street	1:06:31	00:59	1:02:05	00:50	1:26:03	00:40	
		1:0	6:31	1:0	2:05	1:2	6:03	

Route 3

From	То	Α	ΔM	MIC	DDAY	P	'M	Notes
		Time	Travel Time	Time	Travel Time	Time	Travel Time	
NW 107 Avenue / NW 90 Street	NW 102 Avenue / NW 90 Street	01:28	01:28	01:18	01:18	01:56	01:56	
NW 102 Avenue / NW 90 Street	NW 102 Avenue / NW 74 Street	04:00	02:32	03:09	01:51	03:57	02:01	
NW 102 Avenue / NW 74 Street	NW 102 Avenue / NW 66 Street	05:16	01:16	04:07	00:58	05:03	01:06	Segment is closed. Uses travel time from Route 2 - NW 107 Ave/NW 74 St to NW 107 Ave/NW 66 St
NW 102 Avenue / NW 66 Street	NW 102 Avenue / NW 58 Street	07:29	02:13	05:04	00:57	07:53	02:50	Segment is closed. Uses travel time from Route 2 - NW 107 Ave/NW 66 St to NW 107 Ave/NW 58 St
NW 102 Avenue / NW 58 Street	NW 107 Avenue / NW 58 Street	09:29	02:00	06:55	01:51	10:26	02:33	Uses travel time from Route 1 - NW 102 Ave/NW 66 St to NW 107 Ave/NW 66 St
NW 107 Avenue / NW 58 Street	NW 107 Avenue / NW 41 Street	14:17	04:48	10:35	03:41	16:16	05:50	
NW 107 Avenue / NW 41 Street	NW 107 Avenue / NW 33 Street	15:11	00:54	11:32	00:57	17:48	01:32	
NW 107 Avenue / NW 33 Street	NW 107 Avenue / NW 25 Street	17:21	02:10	14:28	02:57	21:07	03:19	
NW 107 Avenue / NW 25 Street	NW 107 Avenue / NW 12 Street	19:33	02:12	17:30	03:02	29:52	08:45	
NW 107 Avenue / NW 12 Street	NW 107 Avenue / NW 7 Street	22:58	03:25	19:37	02:07	31:35	01:42	
NW 107 Avenue / NW 7 Street	SW 107 Avenue / Flagler Street	24:24	01:26	21:31	01:55	34:33	02:59	
SW 107 Avenue / Flagler Street	SW 109 Avenue / Flagler Street	25:49	01:25	22:48	01:17	35:55	01:22	
SW 109 Avenue / Flagler Street	SW 109 Avenue / NW 4 Street	26:33	00:44	23:34	00:47	36:43	00:47	
SW 109 Avenue / SW 4 Street	SW 109 Avenue / SW 8 Street	29:00	02:28	25:37	02:02	40:15	03:32	
SW 109 Avenue / SW 8 Street	SW 109 Avenue / University Circle	30:40	01:40	27:33	01:57	41:39	01:24	
SW 109 Avenue / University Circle	SW 109 Avenue / University Circle	34:00	03:20	32:02	04:29	46:44	05:05	Travel Time is Average of two travel runs
SW 109 Avenue / University Circle	SW 109 Avenue / SW 8 Street	35:31	01:31	33:29	01:26	48:23	01:39	
SW 109 Avenue / SW 8 Street	SW 109 Avenue / SW 4 Street	36:31	01:00	34:28	01:00	49:14	00:51	
SW 109 Avenue / SW 4 Street	SW 109 Avenue / Flagler Street	37:59	01:28	37:01	02:33	50:53	01:39	
SW 109 Avenue / Flagler Street	SW 107 Avenue / Flagler Street	41:53	03:54	39:39	02:38	53:22	02:29	
SW 107 Avenue / Flagler Street	NW 107 Avenue / NW 7 Street	43:42	01:49	41:18	01:38	57:33	04:11	
NW 107 Avenue / NW 7 Street	NW 107 Avenue / NW 12 Street	45:49	02:07	43:26	02:08	1:00:12	02:39	
NW 107 Avenue / NW 12 Street	NW 107 Avenue / NW 25 Street	49:46	03:58	47:34	04:09	1:04:02	03:50	
NW 107 Avenue / NW 25 Street	NW 107 Avenue / NW 33 Street	51:12	01:26	48:41	01:07	1:05:29	01:27	
NW 107 Avenue / NW 33 Street	NW 107 Avenue / NW 41 Street	55:58	04:46	51:17	02:36	1:11:10	05:41	
NW 107 Avenue / NW 41 Street	NW 107 Avenue / NW 58 Street	59:35	03:37	54:56	03:39	1:16:21	05:11	
NW 107 Avenue / NW 58 Street	NW 107 Avenue / NW 66 Street	1:01:21	01:46	56:10	01:14	1:17:33	01:12	Uses travel time from Route 1 - NW 107 Ave/NW 58 St to NW 107 Ave/NW 66 St
Nw 107 Avenue / NW 66 Street	Nw 107 Avenue / NW 74 Street	1:04:32	03:11	57:48	01:38	1:18:50	01:17	
Nw 107 Avenue / NW 74 Street	Nw 107 Avenue / NW 82 Street	1:06:37	02:05	59:09	01:21	1:21:18	02:28	
Nw 107 Avenue / NW 82 Street	Nw 107 Avenue / NW 90 Street	1:08:06	01:29	1:00:56	01:47	1:22:52	01:34	
		1:0	8:06	1:0	0:56	1:2	2:52	

Route 1

		Trial 1 - S	itart Time	Trial 2 - S	tart Time	Trial 3 - S	tart Time
From	То	To 6:59 AM		11:3	0 AM	4:02 PM	
		Time	Travel Time	Time	Travel Time	Time	Travel Time
Nw 107 Avenue / NW 66 Street	NW 102 Avenue / NW 66 Street	01:47	01:47	01:29	01:29	01:32	01:32
NW 102 Avenue / NW 66 Street	Nw 107 Avenue / NW 66 Street	03:47	02:00	03:20	01:51	04:05	02:33
Nw 107 Avenue / NW 66 Street	NW 107 Avenue / NW 58 Street	07:27	03:40	04:45	01:25	05:37	01:32
NW 107 Avenue / NW 58 Street	NW 107 Avenue / NW 41 Street	12:18	04:51	08:10	03:25	11:19	05:42
NW 107 Avenue / NW 41 Street	NW 107 Avenue / NW 33 Street	13:27	01:09	09:02	00:52	13:16	01:57
NW 107 Avenue / NW 33 Street	NW 107 Avenue / NW 25 Street	15:55	02:28	11:45	02:43	15:28	02:12
NW 107 Avenue / NW 25 Street	NW 107 Avenue / NW 12 Street	17:35	01:40	14:37	02:52	21:27	05:59
NW 107 Avenue / NW 12 Street	NW 107 Avenue / NW 7 Street	21:30	03:55	16:57	02:20	23:00	01:33
NW 107 Avenue / NW 7 Street	SW 107 Avenue / Flagler Street	22:43	01:13	18:50	01:53	25:32	02:32
SW 107 Avenue / Flagler Street	SW 109 Avenue / Flagler Street	24:15	01:32	20:09	01:19	27:11	01:39
SW 109 Avenue / Flagler Street	SW 109 Avenue / NW 4 Street	25:00	00:45	20:51	00:42	27:59	00:48
SW 109 Avenue / SW 4 Street	SW 109 Avenue / SW 8 Street	27:10	02:10	23:26	02:35	33:55	05:56
SW 109 Avenue / SW 8 Street	SW 109 Avenue / University Circle	29:14	02:04	26:14	02:48	34:20	00:25
SW 109 Avenue / University Circle	SW 109 Avenue / University Circle	32:15	03:01	30:22	04:08	38:55	04:35
SW 109 Avenue / University Circle	SW 109 Avenue / SW 8 Street	33:56	01:41	31:27	01:05	40:54	01:59
SW 109 Avenue / SW 8 Street	SW 109 Avenue / SW 4 Street	34:50	00:54	32:27	01:00	41:45	00:51
SW 109 Avenue / SW 4 Street	SW 109 Avenue / Flagler Street	36:35	01:45	34:24	01:57	42:30	00:45
SW 109 Avenue / Flagler Street	SW 107 Avenue / Flagler Street	41:50	05:15	37:00	02:36	46:29	03:59
SW 107 Avenue / Flagler Street	NW 107 Avenue / NW 7 Street	43:58	02:08	38:25	01:25	50:50	04:21
NW 107 Avenue / NW 7 Street	NW 107 Avenue / NW 12 Street	46:23	02:25	40:36	02:11	53:10	02:20
NW 107 Avenue / NW 12 Street	NW 107 Avenue / NW 25 Street	50:27	04:04	44:51	04:15	56:55	03:45
NW 107 Avenue / NW 25 Street	NW 107 Avenue / NW 33 Street	51:40	01:13	45:58	01:07	58:30	01:35
NW 107 Avenue / NW 33 Street	NW 107 Avenue / NW 41 Street	57:59	06:19	48:50	02:52	1:03:25	04:55
NW 107 Avenue / NW 41 Street	NW 107 Avenue / NW 58 Street	1:02:04	04:05	52:36	03:46	1:11:15	07:50
NW 107 Avenue / NW 58 Street	Nw 107 Avenue / NW 66 Street	1:03:50	01:46	53:50	01:14	1:12:27	01:12

Route 2

		Trial 1 - S	tart Time	Trial 2 - S	tart Time	Trial 3 - Start Time	
From	То	8:13	AM	12:3	2 AM	5:18	PM
		Time	Travel Time	Time	Travel Time	Time	Travel Time
NW 109 Avenue / NW 82 Street	NW 109 Avenue / NW 90 Street	01:02	01:02	01:50	01:50	01:35	01:35
NW 109 Avenue / NW 90 Street	NW 107 Avenue / NW 90 Street	01:58	00:56	02:49	00:59	02:28	00:53
NW 107 Avenue / NW 90 Street	NW 107 Avenue / NW 82 Street	04:18	02:20	04:15	01:26	03:51	01:23
NW 107 Avenue / NW 82 Street	NW 107 Avenue / NW 74 Street	07:26	03:08	06:32	02:17	08:55	05:04
NW 107 Avenue / NW 74 Street	NW 107 Avenue / NW 66 Street	08:42	01:16	07:30	00:58	10:01	01:06
NW 107 Avenue / NW 66 Street	NW 107 Avenue / NW 58 Street	10:55	02:13	08:27	00:57	12:51	02:50
NW 107 Avenue / NW 58 Street	NW 107 Avenue / NW 41 Street	15:40	04:45	12:23	03:56	18:49	05:58
NW 107 Avenue / NW 41 Street	NW 107 Avenue / NW 33 Street	16:20	00:40	13:24	01:01	19:56	01:07
NW 107 Avenue / NW 33 Street	NW 107 Avenue / NW 25 Street	18:11	01:51	16:34	03:10	24:22	04:26
NW 107 Avenue / NW 25 Street	NW 107 Avenue / NW 12 Street	20:55	02:44	19:45	03:11	35:54	11:32
NW 107 Avenue / NW 12 Street	NW 107 Avenue / NW 7 Street	23:50	02:55	21:39	01:54	37:45	01:51
NW 107 Avenue / NW 7 Street	SW 107 Avenue / Flagler Street	25:29	01:39	23:35	01:56	41:10	03:25
SW 107 Avenue / Flagler Street	SW 109 Avenue / Flagler Street	26:47	01:18	24:49	01:14	42:15	01:05
SW 109 Avenue / Flagler Street	SW 109 Avenue / NW 4 Street	27:30	00:43	25:40	00:51	43:02	00:47
SW 109 Avenue / SW 4 Street	SW 109 Avenue / SW 8 Street	30:15	02:45	27:10	01:30	44:10	01:08
SW 109 Avenue / SW 8 Street	SW 109 Avenue / University Circle	31:31	01:16	28:15	01:05	46:33	02:23
SW 109 Avenue / University Circle	SW 109 Avenue / University Circle	35:10	03:39	33:04	04:49	52:09	05:36
SW 109 Avenue / University Circle	SW 109 Avenue / SW 8 Street	36:31	01:21	34:52	01:48	53:28	01:19
SW 109 Avenue / SW 8 Street	SW 109 Avenue / SW 4 Street	37:36	01:05	35:51	00:59	54:19	00:51
SW 109 Avenue / SW 4 Street	SW 109 Avenue / Flagler Street	38:48	01:12	39:01	03:10	56:51	02:32
SW 109 Avenue / Flagler Street	SW 107 Avenue / Flagler Street	41:20	02:32	41:41	02:40	57:51	01:00
SW 107 Avenue / Flagler Street	NW 107 Avenue / NW 7 Street	42:50	01:30	43:33	01:52	01:52	04:01
NW 107 Avenue / NW 7 Street	NW 107 Avenue / NW 12 Street	44:39	01:49	45:38	02:05	04:50	02:58
NW 107 Avenue / NW 12 Street	NW 107 Avenue / NW 25 Street	48:30	03:51	49:40	04:02	08:45	03:55
NW 107 Avenue / NW 25 Street	NW 107 Avenue / NW 33 Street	50:09	01:39	50:46	01:06	10:03	01:18
NW 107 Avenue / NW 33 Street	NW 107 Avenue / NW 41 Street	53:22	03:13	53:06	02:20	16:30	06:27
NW 107 Avenue / NW 41 Street	NW 107 Avenue / NW 58 Street	56:31	03:09	56:38	03:32	19:03	02:33
NW 107 Avenue / NW 58 Street	Nw 107 Avenue / NW 66 Street	57:55	01:24	57:40	01:02	20:35	01:32
Nw 107 Avenue / NW 66 Street	Nw 107 Avenue / NW 74 Street	59:01	01:06	00:09	02:29	21:51	01:16
Nw 107 Avenue / NW 74 Street	Nw 107 Avenue / NW 82 Street	01:02	02:01	01:25	01:16	25:40	03:49
Nw 107 Avenue / NW 82 Street	Nw 109 Avenue / NW 82 Street	02:01	00:59	02:15	00:50	26:20	00:40

Route 3

		Trial 1 - S	tart Time	Trial 2 - S	tart Time	Trial 3 - 9	Start Time
From	То	9:27	' AM	1:37	AM	6:4	7 PM
		Time	Travel Time	Time	Travel Time	Time	Travel Time
NW 107 Avenue / NW 90 Street	NW 102 Avenue / NW 90 Street	01:28	01:28	01:18	01:18	01:56	01:56
NW 102 Avenue / NW 90 Street	NW 102 Avenue / NW 74 Street	04:00	02:32	03:09	01:51	03:57	02:01
NW 102 Avenue / NW 74 Street	NW 107 Avenue / NW 74 Street	10:07	06:07	10:05	06:56	15:09	11:12
NW 107 Avenue / NW 74 Street	NW 107 Avenue / NW 66 Street	11:20	01:13	11:05	01:00	18:10	03:01
NW 107 Avenue / NW 66 Street	NW 107 Avenue / NW 58 Street						
NW 107 Avenue / NW 58 Street	NW 107 Avenue / NW 41 Street						
NW 107 Avenue / NW 41 Street	NW 107 Avenue / NW 33 Street						
NW 107 Avenue / NW 33 Street	NW 107 Avenue / NW 25 Street						
NW 107 Avenue / NW 25 Street	NW 107 Avenue / NW 12 Street						
NW 107 Avenue / NW 12 Street	NW 107 Avenue / NW 7 Street						
NW 107 Avenue / NW 7 Street	SW 107 Avenue / Flagler Street						
SW 107 Avenue / Flagler Street	SW 109 Avenue / Flagler Street						
SW 109 Avenue / Flagler Street	SW 109 Avenue / NW 4 Street						
SW 109 Avenue / SW 4 Street	SW 109 Avenue / SW 8 Street						
SW 109 Avenue / SW 8 Street	SW 109 Avenue / University Circle						
SW 109 Avenue / University Circle	SW 109 Avenue / University Circle						
SW 109 Avenue / University Circle	SW 109 Avenue / SW 8 Street						
SW 109 Avenue / SW 8 Street	SW 109 Avenue / SW 4 Street						
SW 109 Avenue / SW 4 Street	SW 109 Avenue / Flagler Street						
SW 109 Avenue / Flagler Street	SW 107 Avenue / Flagler Street						
SW 107 Avenue / Flagler Street	NW 107 Avenue / NW 7 Street						
NW 107 Avenue / NW 7 Street	NW 107 Avenue / NW 12 Street						
NW 107 Avenue / NW 12 Street	NW 107 Avenue / NW 25 Street						
NW 107 Avenue / NW 25 Street	NW 107 Avenue / NW 33 Street						
NW 107 Avenue / NW 33 Street	NW 107 Avenue / NW 41 Street						
NW 107 Avenue / NW 41 Street	NW 107 Avenue / NW 58 Street						
NW 107 Avenue / NW 58 Street	Nw 107 Avenue / NW 66 Street	14:50	14:50	15:02	15:02	21:35	21:35
Nw 107 Avenue / NW 66 Street	Nw 107 Avenue / NW 74 Street	18:01	03:11	16:40	01:38	22:52	01:17
Nw 107 Avenue / NW 74 Street	Nw 107 Avenue / NW 82 Street	20:06	02:05	18:01	01:21	25:20	02:28
Nw 107 Avenue / NW 82 Street	Nw 107 Avenue / NW 90 Street	21:35	01:29	19:48	01:47	26:54	01:34

AVERAGES

From	То	А	М	MID	DAY	P	М
		Time	Travel Time	Time	Travel Time	Time	Travel Time
Nw 107 Avenue / NW 66 Street	NW 102 Avenue / NW 66 Street		00:00		00:00		00:00
NW 102 Avenue / NW 66 Street	Nw 107 Avenue / NW 66 Street		00:00		00:00		00:00
Nw 107 Avenue / NW 66 Street	NW 107 Avenue / NW 58 Street		00:00		00:00		00:00
NW 107 Avenue / NW 58 Street	NW 107 Avenue / NW 41 Street		04:48		03:41		05:50
NW 107 Avenue / NW 41 Street	NW 107 Avenue / NW 33 Street		00:54		00:57		01:32
NW 107 Avenue / NW 33 Street	NW 107 Avenue / NW 25 Street		02:10		02:57		03:19
NW 107 Avenue / NW 25 Street	NW 107 Avenue / NW 12 Street		02:12		03:02		08:45
NW 107 Avenue / NW 12 Street	NW 107 Avenue / NW 7 Street		03:25		02:07		01:42
NW 107 Avenue / NW 7 Street	SW 107 Avenue / Flagler Street		01:26		01:55		02:59
SW 107 Avenue / Flagler Street	SW 109 Avenue / Flagler Street		01:25		01:17		01:22
SW 109 Avenue / Flagler Street	SW 109 Avenue / NW 4 Street		00:44		00:47		00:47
SW 109 Avenue / SW 4 Street	SW 109 Avenue / SW 8 Street		02:28		02:02		03:32
SW 109 Avenue / SW 8 Street	SW 109 Avenue / University Circle		01:40		01:57		01:24
SW 109 Avenue / University Circle	SW 109 Avenue / University Circle		03:20		04:29		05:05
SW 109 Avenue / University Circle	SW 109 Avenue / SW 8 Street		01:31		01:26		01:39
SW 109 Avenue / SW 8 Street	SW 109 Avenue / SW 4 Street		01:00		01:00		00:51
SW 109 Avenue / SW 4 Street	SW 109 Avenue / Flagler Street		01:28		02:33		01:39
SW 109 Avenue / Flagler Street	SW 107 Avenue / Flagler Street		03:54		02:38		02:29
SW 107 Avenue / Flagler Street	NW 107 Avenue / NW 7 Street		01:49		01:38		04:11
NW 107 Avenue / NW 7 Street	NW 107 Avenue / NW 12 Street		02:07		02:08		02:39
NW 107 Avenue / NW 12 Street	NW 107 Avenue / NW 25 Street		03:58		04:09		03:50
NW 107 Avenue / NW 25 Street	NW 107 Avenue / NW 33 Street		01:26		01:07		01:27
NW 107 Avenue / NW 33 Street	NW 107 Avenue / NW 41 Street		04:46		02:36		05:41
NW 107 Avenue / NW 41 Street	NW 107 Avenue / NW 58 Street		03:37		03:39		05:11
NW 107 Avenue / NW 58 Street	Nw 107 Avenue / NW 66 Street		00:00		00:00		00:00

Appendix C Preliminary Stop Locations

	NORTHBOUND STOPS		D
1	FIU MAIDIQUE CAMPUS BUS TERM	1	
FIU Route	SW 109 AV SW 7 ST		
2	SW 107 AV #1431		
3	SW 107 AV # 1225		
4	SW 107 AV # 917		
5	SW 107 AV SW 6 ST		
6	SW 107 AVE & 4 ST		
11	NW 107 AV FLAGLER ST		
12	NW 107 AV FLAGLER ST		
13	NW 107 AV NW 12 ST		
15	NW 107 AV NW 14 ST		
16	NW 107 AV NW 15 ST		
DLoop1	NW 107 AV NW 17 ST		
17	NW 107 AV NW 19 ST		
18	NW 107 AV NW 25 ST		
19	NW 107 AV & NW 25 ST		
20	NW 107 AV NW 27 ST		
21	NW 107 AV NW 31 TR		
FIU Route	NW 107 AV NW 33 ST		
FIU Route	NW 107 AV NW 37 ST		
FIU Route	NW 107 AV NW 41 ST		
FIU Route	NW 107 AV & NW 41 ST		
FIU Route	NW 107 AV NW 52 ST		
FIU Route	NW 107 AV NW 58 ST		
FIU Route	NW 107 AV NW 66 ST		
FIU Route	NW 107 AV NW 69 ST		
FIU Route	NW 107 AV NW 74 ST		
FIU Route	NW 107 AV & NW 74 ST		
FIU Route	NW 107 AV NW 77 ST		
FIU Route	NW 107 AV NW 82 ST		
FIU Route	NW 107 AV NW 88 ST		
FIU Route	NW 90 ST NW 103 PL		

Dora	al Trolley	DORAL	. TROLLEY R	OUTES	NOTES
	Stop#	1	2	3	NOTES
	1006 1007 1079 1008 1009	1 1 1 1			South of NW 25 ST North of NW 25 ST
	1013	1			

Proposed Stops FIU Trolley Route 3	NOTES
FIU Route 3	Main Campus
FIU Route 3	109 Tower*
Outside City Limits	
	South of FIU CoE
FIU Route 3	College of Engineering
FIU Route 3	
FIU Route 3	Eastbound on NW 90

	SOUTHBOUND STOPS
FIU Route	NW 102 AV NW 88 ST
FIU Route	NW 102 AV NW 82 ST
FIU Route	NW 102 AV NW 77 ST
FIU Route	NW 102 AV NW 75 ST
FIU Route	NW 102 AV NW 74 ST
FIU Route	NW 102 AV NW 69 ST
FIU Route	NW 102 AV NW 66 ST
FIU Route	NW 102 AV NW 58 ST
FIU Route	NW 58 ST NW 104 AV
FIU Route	NW 58 ST NW 105 CT
DLoop1, 3	NW 107 AV NW 86 ST
DLoop1, 3	NW 107 AV NW 82 ST
DLoop3	NW 107 AV NW 80 LN
DLoop3	NW 107 AV NW 75 LN
DLoop3	NW 107 AV NW 74 ST
DLoop3	NW 107 AV NW 66 ST
DLoop3	NW 107 AV NW 58 ST
DLoop1	NW 107 AV NW 58 ST
DLoop1	NW 107 AV NW 51 ST
FIU Route	NW 107 AV NW 48 LN
FIU Route	NW 107 AV NW 43 LN
FIU Route	NW 107 AV NW 41 ST
2	NW 107 AV NW 31 TR
3	NW 107 AV NW 27 ST
4	NW 107 AV NW 24 ST
5	NW 107 AV NW 19 ST
6	NW 107 AV NW 15 ST
8	NW 107 AV & NW 14 ST
9 12	NW 107 AV NW 14 ST
13	NW 107 AV NW 7 ST NW 107 AV # 322
14	NW 107 AV # 322 NW 107 AV # 230
16	SW 107 AV # 230 SW 107 AVE & W FLAGLER ST
17	SW 107 AVE & W FLAGLER 31
19	SW 107 AV SW 5 ST
20	SW 107 AV SW 7 ST
21	SW 107 AV SW 7 31
22	SW 107 AV SW 11 ST
FIU Route	SW 109 AV SW 7 ST
23	FIU MAIDIQUE CAMPUS BUS TERM

Doral Trolley		DORAL TROLLEY ROUTES		NOTES
Stop #	1	2	3	NOTES
1042 / 3035 1043 / 3036 3037 3038	1 1		3 3 3 3	One block N of Stop icon
3004 3005 3006			3 3 3	North of NW 58 ST
1058 1024	1 1			South of NW 58 ST Might be NEW Stop

FIU Route 3	Eastbound on NW 90
Proposed FIU Trolley	NOTES
Route Stop FIU Route 3	
FIU Route 3	
FIU Route 3	
FIU Route 3	
FIU Route 3	
FIU Route 3	
FIU Route 3	
FIU Route 3	
FIU Route 3	
FIU Route 3	
	Existing SB Stops on NW 107 AV Proposed Trolley Travels south on NW 102 AV
FIU Route 3	
FIU Route 3 FIU Route 3	
FIU Route 3	
FIU Route 3	
FIU Route 3	
FIU Route 3	
FIU Route 3	
FIU Route 3	
FIU Route 3	College of Engineering
Tio house 5	conces of Engineering
Outside City Limits	
FIU Route 3	109 Tower*
FIU Route 3	Main Campus

	NORTHBOUND STOPS	Proposed Stops FIU Trolley Route 3	NOTES
1	FIU MAIDIQUE CAMPUS BUS TERM	FIU Route 3	Main Campus
FIU Route	SW 109 AV SW 7 ST	FIU Route 3	109 Tower*
12	NW 107 AV FLAGLER ST	FIU Route 3	College of Engineering
13	NW 107 AV NW 12 ST	FIU Route 3	
15	NW 107 AV NW 14 ST	FIU Route 3	
16	NW 107 AV NW 15 ST	FIU Route 3	
DLoop1	NW 107 AV NW 17 ST	FIU Route 3	
17	NW 107 AV NW 19 ST	FIU Route 3	
18	NW 107 AV NW 25 ST	FIU Route 3	
19	NW 107 AV & NW 25 ST	FIU Route 3	
20	NW 107 AV NW 27 ST	FIU Route 3	
21	NW 107 AV NW 31 TR	FIU Route 3	
FIU Route	NW 107 AV NW 33 ST	FIU Route 3	
FIU Route	NW 107 AV NW 37 ST	FIU Route 3	
FIU Route	NW 107 AV NW 41 ST	FIU Route 3	
FIU Route	NW 107 AV & NW 41 ST	FIU Route 3	
FIU Route	NW 107 AV NW 52 ST	FIU Route 3	
FIU Route	NW 107 AV NW 58 ST	FIU Route 3	
FIU Route	NW 107 AV NW 66 ST	FIU Route 3	
FIU Route	NW 107 AV NW 69 ST	FIU Route 3	
FIU Route	NW 107 AV NW 74 ST	FIU Route 3	
FIU Route	NW 107 AV & NW 74 ST	FIU Route 3	
FIU Route	NW 107 AV NW 77 ST	FIU Route 3	
FIU Route	NW 107 AV NW 82 ST	FIU Route 3	
FIU Route	NW 107 AV NW 88 ST	FIU Route 3	
FIU Route	NW 90 ST NW 103 PL	FIU Route 3	Eastbound on NW 90

	SOUTHBOUND STOPS	Proposed FIU Trolley Route Stop	NOTES
FIU Route	NW 102 AV NW 88 ST	FIU Route 3	
FIU Route	NW 102 AV NW 82 ST	FIU Route 3	
FIU Route	NW 102 AV NW 77 ST	FIU Route 3	
FIU Route	NW 102 AV NW 75 ST	FIU Route 3	
FIU Route	NW 102 AV NW 74 ST	FIU Route 3	
FIU Route	NW 102 AV NW 69 ST	FIU Route 3	
FIU Route	NW 102 AV NW 66 ST	FIU Route 3	
FIU Route	NW 102 AV NW 58 ST	FIU Route 3	
FIU Route	NW 58 ST NW 104 AV	FIU Route 3	
FIU Route	NW 58 ST NW 105 CT	FIU Route 3	
DLoop1	NW 107 AV NW 58 ST	FIU Route 3	
DLoop1	NW 107 AV NW 51 ST	FIU Route 3	
FIU Route	NW 107 AV NW 48 LN	FIU Route 3	
FIU Route	NW 107 AV NW 43 LN	FIU Route 3	
FIU Route	NW 107 AV NW 41 ST	FIU Route 3	
2	NW 107 AV NW 31 TR	FIU Route 3	
3	NW 107 AV NW 27 ST	FIU Route 3	
4	NW 107 AV NW 24 ST	FIU Route 3	
5	NW 107 AV NW 19 ST	FIU Route 3	
6	NW 107 AV NW 15 ST	FIU Route 3	
8	NW 107 AV & NW 14 ST	FIU Route 3	
9	NW 107 AV NW 14 ST	FIU Route 3	
14	NW 107 AV # 230	FIU Route 3	College of Engineering
FIU Route	SW 109 AV SW 7 ST	FIU Route 3	109 Tower*
23	FIU MAIDIQUE CAMPUS BUS TERM	FIU Route 3	Main Campus

Appendix D Potential Ridership

SERPM Data
TAZ Map
FIU Faculty /Staff/ Student 'Hot Spots' Map

NW 107th Avenue (1 mile on each side)

N/S Limits: from NW 74th Street to SW 32nd Street
E/W Limits: NW 97th Avenue to NW 117th Avenue
TAZ pop emp total

	TAZ	pop	emp_total
1	3584	1985	163
2	3585	1589	220
3	3590	193	287
4	3628	1614	58
5	3629	1182	33
6	3630	524	29
7	3631	1054	36
8	3632	1038	33
9	3633	1532	33
10	3634	826	30
11	3635	354	955
12	3636	673	19
13	3637	82	389
14	3638	27	1313
15	3639	2	735
16	3640	0	1802
17	3641	522	492
18	3642	0	1690
19	3724	661	10
20	3725	581	177
21	3726	256	160
22	3727	0	0
23	3728	0	1557
24	3729	0	1687
25	3730	0	644
26	3731	0	3399
27	3732	0	571
28	3733	370	79
29	3734	1892	319
30	3735	746	104
31	3736	128	13
32	3737	534	39
33	3881	300	16
34	3882	394	35
35	3883	265	88
36	3884	215	13
37	3892	109	151
38	3891	1146	30
39	3890	487	16
40	3893	554	111
41	3894	320	14
42	3895	757	155

Total

22912

17705

NW 107th Avenue (1 mile on each side)

N/S Limits: NW 66th Street to SW 16th Street E/W Limits: NW 97th Avenue to NW 117th Avenue

,	•				
	TAZ	pop	emp_total	Total	
1	3584	992.5	81.5	1074	* TAZ 1 / I
2	3585	794.5	110	904.5	* TAZ 2 / I
3	3590	1787	191.5	1978.5	* TAZ 3 / ł
4	3628	1614	58	1672	
5	3629	1182	33	1215	
6	3630	524	29	553	
7	3631	1054	36	1090	İ
8	3632	1038	33	1071	
9	3633	1532	33	1565	
10	3634	826	30	856	
11	3635	354	955	1309	İ
12	3636	673	19	692	
13	3637	82	389	471	İ
14	3638	27	1313	1340	
15	3639	2	735	737	
16	3640	0	1802	1802	
17	3641	522	492	1014	
18	3642	0	1690	1690	
19	3724	661	10	671	
20	3725	581	177	758	
21	3726	256	160	416	
22	3727	0	0	0	
23	3728	0	1557	1557	
24	3729	0	1687	1687	
25	3730	0	644	644	
26	3731	0	3399	3399	
27	3732	0	571	571	
28	3733	370	79	449	
29	3734	1892	319	2211	
30	3735	746	104	850	
31	3736	128	13	141	
32	3737	534	39	573	
	-	-		-	
40	3893	554	111	665	İ
41	3894	320	14	334	†
42	3895	757	155	912	
					T
To	tal	19,803	17,069	36,872	

Southeast Florida Regional Planning Model (SERPM)

Doral Trolley FIU Route 1 Ridership Estimate

	Potential Daily	Estimate Daily	Estimate		
Route	Riders	Riders	Yearly Riders		
	[a]	[b] = [a]*0.01	[c] = [b]*52*5		
Proposed FIU Route 1	36,872	369	95,867		

- [a] = Based on SERMP total population + total employee
- [b] = Calculated based on 1% of Potential Riders
- [c] = Calculated based on weekday operations

NW 107th Avenue (1 mile on each side)

N/S Limits: from NW 74th Street to SW 32nd Street
E/W Limits: NW 97th Avenue to NW 117th Avenue

	TAZ	рор	emp_total
1	3584	1985	163
2	3585	1589	220
3	3590	193	287
4	3628	1614	58
5	3629	1182	33
6	3630	524	29
7	3631	1054	36
8	3632	1038	33
9	3633	1532	33
10	3634	826	30
11	3635	354	955
12	3636	673	19
13	3637	82	389
14	3638	27	1313
15	3639	2	735
16	3640	0	1802
17	3641	522	492
18	3642	0	1690
19	3724	661	10
20	3725	581	177
21	3726	256	160
22	3727	0	0
23	3728	0	1557
24	3729	0	1687
25	3730	0	644
26	3731	0	3399
27	3732	0	571
28	3733	370	79
29	3734	1892	319
30	3735	746	104
31	3736	128	13
32	3737	534	39
33	3881	300	16
34	3882	394	35
35	3883	265	88
36	3884	215	13
37	3892	109	151
38	3891	1146	30
39	3890	487	16
40	3893	554	111
41	3894	320	14
42	3895	757	155

Total

22912

17705

NW 107th Avenue (1 mile on each side)

N/S Limits: NW 90th Street to SW 16th Street E/W Limits: NW 97th Avenue to NW 117th Avenue

E/ VV LITTILS:	INVV 9/th AV	enue to MW 11	7 tii Avenue		-
	TAZ	pop	emp_total	Total	
1	3584	1985	163	2148	
2	3585	1589	220	1809	
3	3590	3574	383	3957	* TAZ 1 + 2
4	3628	1614	58	1672	
5	3629	1182	33	1215	
6	3630	524	29	553	
7	3631	1054	36	1090	
8	3632	1038	33	1071	
9	3633	1532	33	1565	
10	3634	826	30	856	
11	3635	354	955	1309	
12	3636	673	19	692	
13	3637	82	389	471	
14	3638	27	1313	1340	
15	3639	2	735	737	1
16	3640	0	1802	1802	1
17	3641	522	492	1014	
18	3642	0	1690	1690	
19	3724	661	10	671	
20	3725	581	177	758	
21	3726	256	160	416	
22	3727	0	0	0	
23	3728	0	1557	1557	
24	3729	0	1687	1687	
25	3730	0	644	644	
26	3731	0	3399	3399	
27	3732	0	571	571	
28	3733	370	79	449	
29	3734	1892	319	2211	
30	3735	746	104	850	
31	3736	128	13	141	
32	3737	534	39	573	
40	3893	554	111	665	
41	3894	320	14	334	
42	3895	757	155	912	
43	2903	1985	163	2148	* TAZ 1
44	3586	1589	220	1809	* TAZ 2
45	3587	3574	383	3957	* TAZ 1 + 2
To	tal	30,525	18,218	48,743]
		,	-,	-,	1

Doral Trolley FIU Route 2 Ridership Estimate

	Potential Daily	Estimate Daily	Estimate	
Route	Riders	Riders	Yearly Riders	
	[a]	[b] = [a]*0.01	[c] = [b]*52*5	
Proposed FIU Route 2	48,743	487	126,732	

- [a] = Based on SERMP total population + total employee
- [b] = Calculated based on 1% of Potential Riders
- [c] = Calculated based on weekday operations

NW 107th Avenue (1 mile on each side)

N/S Limits: from NW 74th Street to SW 32nd Street E/W Limits: NW 97th Avenue to NW 117th Avenue

E/W LIMIUS:		enue to NW 1	
	TAZ	pop	emp_total
1	3584	1985	163
2	3585	1589	220
3	3590	193	287
4	3628	1614	58
5	3629	1182	33
6	3630	524	29
7	3631	1054	36
8	3632	1038	33
9	3633	1532	33
10	3634	826	30
11	3635	354	955
12	3636	673	19
13	3637	82	389
14	3638	27	1313
15	3639	2	735
16	3640	0	1802
17	3641	522	492
18	3642	0	1690
19	3724	661	10
20	3725	581	177
21	3726	256	160
22	3727	0	0
23	3728	0	1557
24	3729	0	1687
25	3730	0	644
26	3731	0	3399
27	3732	0	571
28	3733	370	79
29	3734	1892	319
30	3735	746	104
31	3736	128	13
32	3737	534	39
33	3881	300	16
34	3882	394	35
35	3883	265	88
36	3884	215	13
37	3892	109	151
38	3891	1146	30
39	3890	487	16
40	3893	554	111
41	3894	320	14
42	3895	757	155
			1

22912

Total

17705

NW 107th Avenue (1 mile on each side)

N/S Limits: NW 90th Street to SW 16th Street E/W Limits: NW 97th Avenue to NW 117th Avenue

E/ VV LIMILS:	NW 97th Avenue to NW 117th Avenue			
	TAZ	рор	emp_total	Total
1	3584	1985	163	2148
2	3585	1589	220	1809
3	3590	7148	766	7914
4	3628	1614	58	1672
5	3629	1182	33	1215
6	3630	524	29	553
7	3631	1054	36	1090
8	3632	1038	33	1071
9	3633	1532	33	1565
10	3634	826	30	856
11	3635	354	955	1309
12	3636	673	19	692
13	3637	82	389	471
14	3638	27	1313	1340
15	3639	2	735	737
16	3640	0	1802	1802
17	3641	522	492	1014
18	3642	0	1690	1690
19	3724	661	10	671
20	3725	581	177	758
21	3726	256	160	416
22	3727	0	0	0
23	3728	0	1557	1557
24	3729	0	1687	1687
25	3730	0	644	644
26	3731	0	3399	3399
27	3732	0	571	571
28	3733	370	79	449
29	3734	1892	319	2211
30	3735	746	104	850
31	3736	128	13	141
32	3737	534	39	573
40	3893	554	111	665
41	3894	320	14	334
42	3895	757	155	912
43	2903	1985	163	2148
44	3586	1589	220	1809
45	3587	3574	383	3957
То	tal	34,099	18,601	52,700

* TAZ (1 + 2)x2

* TAZ 1 * TAZ 2 * TAZ 1 + 2

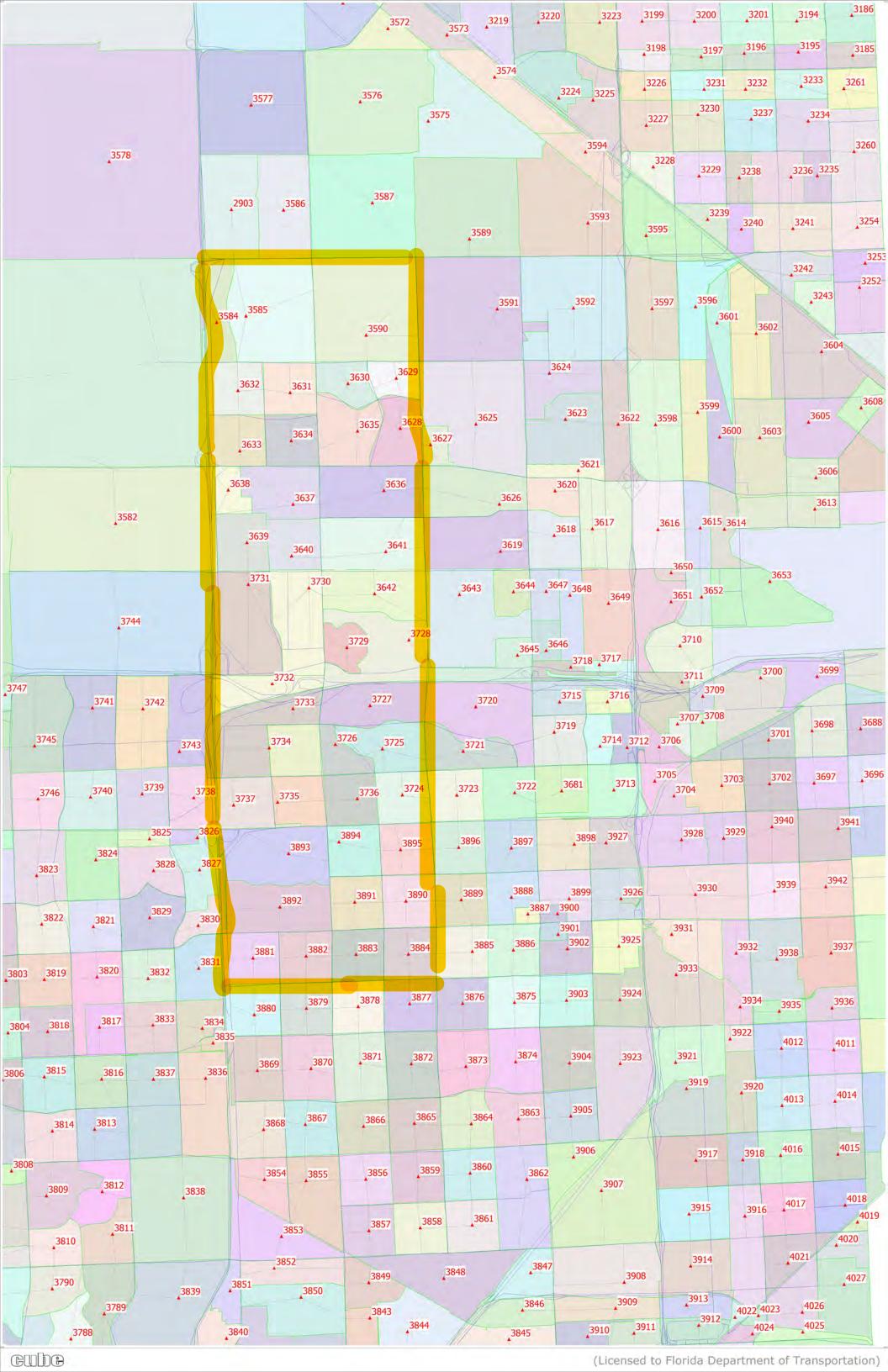
Total 34,099 18,601 52,700

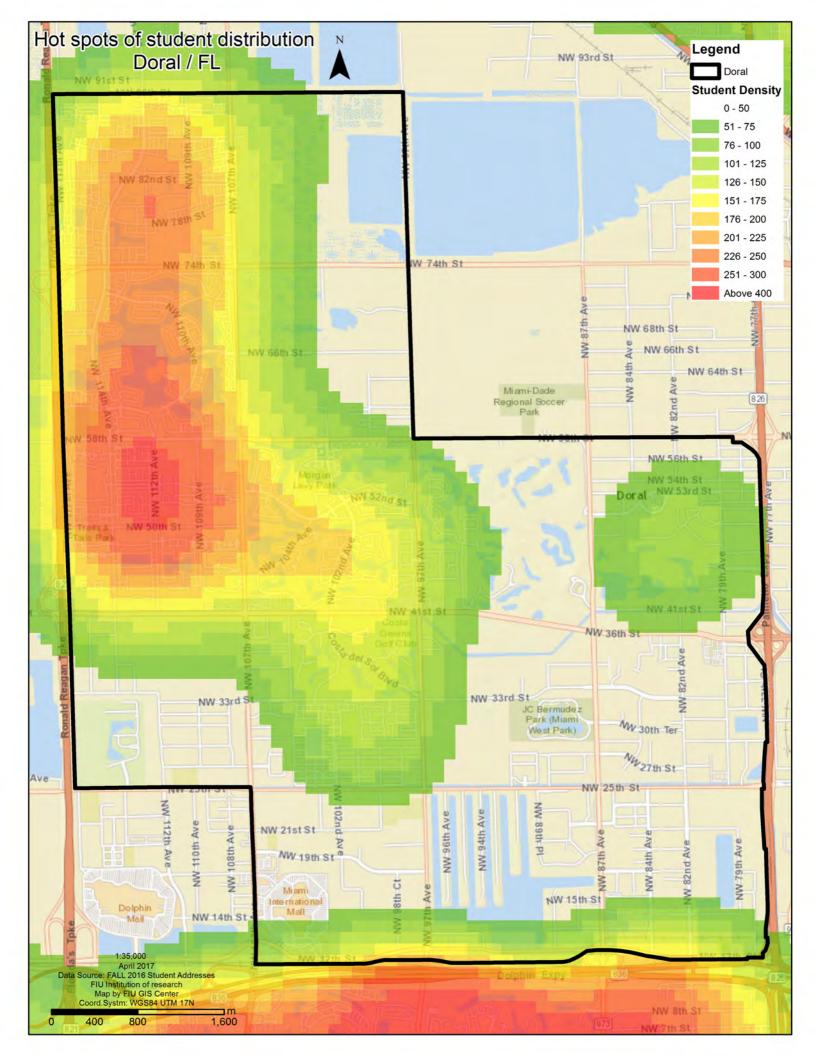
Southeast Florida Regional Planning Model (SERPM)

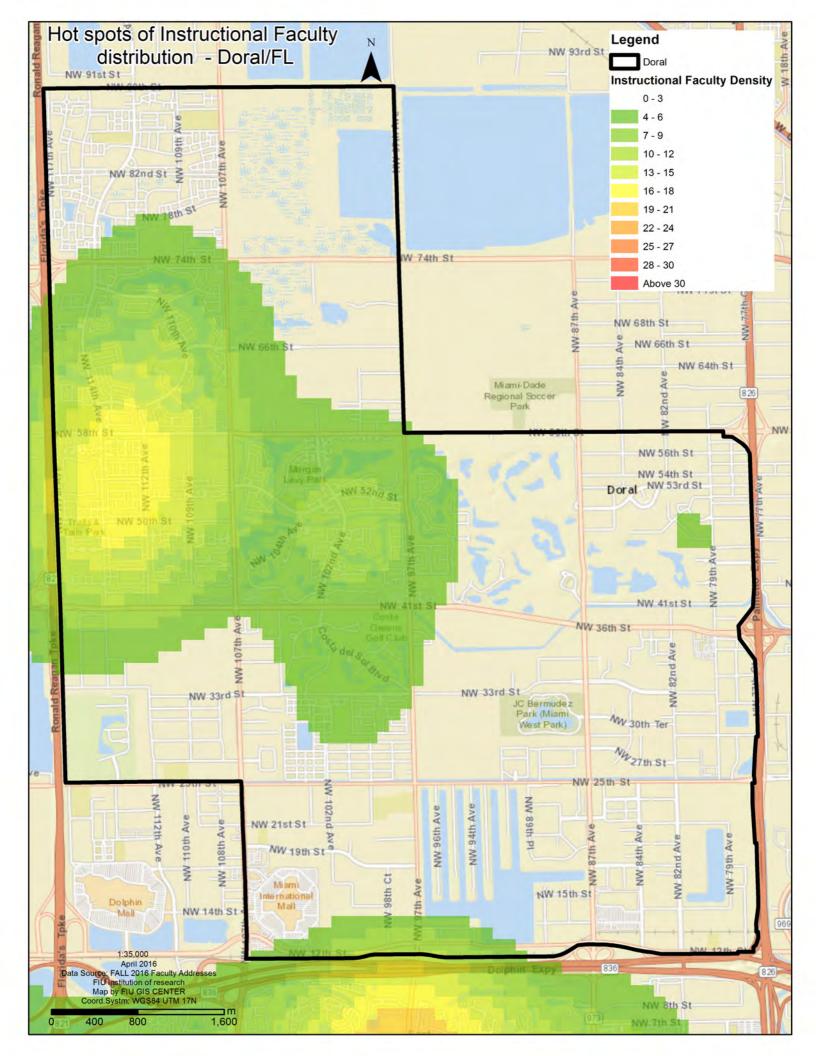
Doral Trolley FIU Route 3 Ridership Estimate

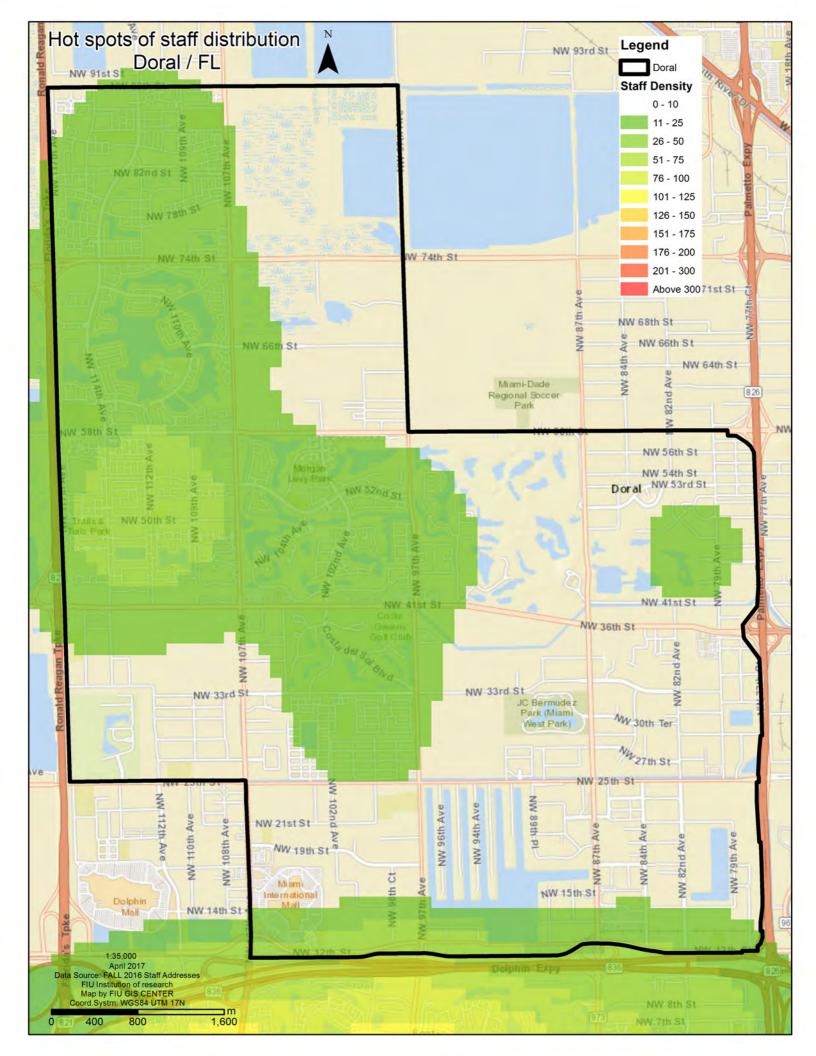
_					
	Potential Daily	Estimate Daily	Estimate Yearly		
Route	Riders	Riders	Riders		
	[a]	[b] = [a]*0.01	[c] = [b]*52*5		
Proposed FIU Route 3	52,700	527	137,020		

- [a] = Based on SERMP total population + total employee
- [b] = Calculated based on 1% of Potential Riders
- [c] = Calculated based on weekday operations









Appendix E Public Involvement

City of Doral Resolution No. 17-206 Meeting Sign-in Sheet Comment Forms

Res. No. 17-206 Page **1** of **3**

RESOLUTION No. 17-206

A RESOLUTION OF THE MAYOR AND THE CITY COUNCIL OF THE CITY OF DORAL, FLORIDA, APPROVING THE IMPLEMENTATION OF AN ALTERNATIVE ROUTE 3 OF THE FLORIDA INTERNATIONAL UNIVERSITY (FIU) DORAL TROLLEY ROUTE, AS PRESENTED IN THE DORAL TROLLEY EXPANSION STUDY, FOR AN APPROXIMATE INCREMENTAL OPERATION AND MAINTENANCE ANNUAL COST OF \$550,000.00; PROVIDING FOR IMPLEMENTATION; AND PROVIDING FOR AN EFFECTIVE DATE

WHEREAS, since its inception, the Doral Trolley System ("DTS") has grown from one (1) trolley on one (1) route to eleven (11) trolleys on three (3) routes; and

WHEREAS, the City of Doral (the "City") Public Works Department (PWD) continuously reviews the DTS to recommend improvements to keep up with passenger demands and better serve the community; and

WHEREAS, with the success of the Doral Trolley, the City Council wanted to explore the feasibility of providing a new trolley route that would provide service between the City and Florida International University ("FIU") as way to potentially service the over 5,000 Florida International University (FIU) students, faculty, and staff that reside within the City; and

WHEREAS, the City was awarded a \$28,000 from the Transportation Planning Organization to complete a \$35,000 Doral Trolley Route Expansion Study; and

WHEREAS, three alternative FIU Trolley Routes where developed, analyzed, and presented to the Public; and

WHEREAS, the funding for the FIU Trolley Route service was budgeted in the FY 2017 – 2018 Transportation Fund under account 101.80005.500341 (\$990,000) and the PTP Fund under account 106.80005.500341 (\$1,635,000); and

WHEREAS, the City is projected to receive \$2,362,667 in Fiscal Year 2017 – 2018 from the People's Transportation Plan that will help sustain the Doral Trolley service; and

Res. No. 17-206 Page **2** of **3**

WHEREAS, the City Council finds that the implementation of Alternative Route 3 for Monday through Friday service between 6:00 AM and 11:00 PM to be in the best interest of the City.

NOW, THEREFORE, BE IT RESOLVED BY THE MAYOR AND CITY COUNCIL OF THE CITY OF DORAL, FLORIDA, AS FOLLOWS:

<u>Section 1.</u> Recitals. The above recitals are confirmed, adopted, and incorporated herein and made part hereof by this reference.

Section 2. Approval. The City Council hereby approves Alternative Route 3 from the Florida International University Doral Trolley Route Expansion Study for an approximate incremental Operations and Maintenance cost of \$550,000.

Section 3. Authorization. The City Manager is authorized to implement Alternative Route 3 from the Florida International University Doral Trolley Route Expansion Study and expend budgeted funds on behalf of the City.

Section 4. Implementation. The City Manager and City Attorney are hereby authorized to take such action as may be necessary to implement the purpose and the provisions of this resolution.

<u>Section 5.</u> <u>Effective Date.</u> This Resolution shall take effect immediately upon adoption.

Res. No. 17-206 Page **3** of **3**

The foregoing Resolution was offered by Councilmember Cabrera who moved its adoption. The motion was seconded by Vice Mayor Rodriguez and upon being put to a vote, the vote was as follows:

Mayor Juan Carlos Bermudez	Yes
Vice Mayor Ana Maria Rodriguez	Yes
Councilman Pete Cabrera	Yes
Councilwoman Christi Fraga	Yes
Councilwoman Claudia Mariaca	Yes

PASSED AND ADOPTED this 8 day of November, 2017.

JUAN CARLOS BERMUDEZ, MAYOR

ATTEST:

CONNIE DIAZ, CMC

CITY CLERK

APPROVED AS TO FORM AND LEGAL SUFFIENCY FOR THE USE AND RELIANCE OF THE CITY OF DORAL ONLY:

WEISS, SEROTA, HELFMAN, COLE & BIERMAN, P.L.

CITY ATTORNEY







We want to hear from you!

WEDNESDAY, JUNE 28 1:00 PM **FIU - CAMPUS MODESTO A. MAIDIQUE GRAHAM CENTER 140**

FREE refreshments and giveaways will be provided! Courtesy of the City of Doral



RSVP to PublicWorks@CityofDoral.com







The City of Doral is studying the possible future connection to Florida International University.

Please join us!

TUESDAY, SEPTEMBER 5TH 7:00 PM - 8:00 PM **ISLANDS AT DORAL CLUBHOUSE 8250 NW 112 COURT**



For questions or comments, please contact us at: PublicWorks@CityofDoral.com or 305-593-6740





@CITYOFDORAL













June 28, 2017 - 1:00pm

NAME	TITLE/DEPARTMENT	PHONE NUMBER	EMAIL ADDRESS
Eazaz Sadeglvazini	Civil Elgineery/Transportation	in (305) 305-159	8 esodelle 3@ Frimedu
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Parmela Muruta	Swoten	561-212-6956	pmura 804@ fiv sedu
les I			



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NAME	TITLE/DEPARTMENT	PHONE NUMBER	EMAIL ADDRESS
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Branda Dome	Larling of	3 348-4366	Boloma Suid
USSUR HOLICZON	Parking	7018	pedrala afinical
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June 28, 2017 - 1:00pm

NAME	TITLE/DEPARTMENT	PHONE NUMBER	EMAIL ADDRESS
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Carlos Carrasco	staff	305-348-2297	carrascoctiu.edu
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June 28, 2017 - 1:00pm

NAME	TITLE/DEPARTMENT	PHONE NUMBER	EMAIL ADDRESS
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X Nelly Navaro	Qutreach - SFC	305-401-9151	nelly navamod wsp. com
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June 28, 2017 - 1:00pm

NAME	TITLE/DEPARTMENT	PHONE NUMBER	EMAIL ADDRESS
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Thomas Hartley			thartley Ofivedu
Glora Lopers	FIU History		glope 161 Cfiv. edu
Sandra landano	FIU History	726-6121613	Andor Ofwer.
Dovid Nivia	PIU student/ resident		driviooz@fiv.ese
Manahil Ansari	Alumni	954-789 - 4342	manizzlee@ain.com



June 28, 2017 - 1:00pm

Comment Form

The City of Doral is interested in receiving additional input from the Community. Please add any information you would like us to consider in the space provided below.

The Doeal Golley Oxervices skeat sexuice to the
The Doreal Godley Opericles skeat sexuice to the community. S've sken the tredley before and it's way
letter than the other trolley that's ricling. I think
It will help also international students that can't afford
a car. Slike bheit it goes shrough 109 street to pick up
students.
to the state of th

If you need more space, please use the back side of this form.

Should you want to provide input at a later time, please feel free to mail this comment form by Friday, July 14, 2017 to:

City of Doral Public Works Department City of Doral Government Center 8401 NW 53rd Street, 2nd Floor Doral, FL 33166



June 28, 2017 - 1:00pm

Comment Form

The City of Doral is interested in receiving additional input from the Community. Please add any information you would like us to consider in the space provided below.

for the	Stop infant of	FIU E	gincoving Contag	maybe it	better
to have	Redostrian (401)	fen or	RRFB.		
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I think this is a great IDEA to help the Students know around Doral.
Students Know around Doral.
Do mon Dems blan to 80
Students know around Doval. For Do ryon peyes plan to 80 +OFI UBBC.

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Thank you for the further improvements being developed.
being alveloped.
9
the main entrance where students usually
the main entrance where students usually penter through is on 107th and 16th,
there should be an extended route to
enter 16th since most students enter
through where and it is chosest to
through there and it is chosest to smalents classes
STATE OF THE STATE

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Thank you for providing and thinking
about the student in this county.
I personally clon't like in Miani, but
I so to sty. It you suys wanted
to Expend that would really be
apprediated. My eman em dil is
anestal+ba@gmail.com
Thank wow
The state of the s

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I live	in Dov	al and	work	at	FIU.
love +	10 1200	of vs	sine a	trolley	to
care t	in Dove le idea o FIU. FIU st provide	It is	Some	to hel	0
Many	FIU ST	idents.	Thank y	00 SO	much!
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This service is a great idea and the
This service is a great idea and the fact that it is free is fantastie. I will reco to go to Doral for an intership and the troller will be very helpful,
to co to Doral for an intership and the troller
will be very helpful,
9

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Excellent ide A! maybe extend the
Excellent ide A! Maybe extend the Poste to the students living in the on campus dorms so that they don't have to WALK so far A distance to the
on compris doems so that they don't
have to WALK So far A distance to the
P9 6 STOP.

If you need more space, please use the back side of this form.

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