DAVID PLUMMER & ASSOCIATES
TRAFFIC ENGINEERING • CIVIL ENGINEERING • TRANSPORTATION PLANNING

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May 29, 2019

Ms. Carmen Vilariño
Las Vegas Beach Corp.
6970 Collins Avenue
Miami Beach, FL 33141
954.914.4884
Cvilar16@gmail.com

Re: Las Vegas Beach - #19176

Dear Carmen,

David Plummer and Associates has been retained to conduct a trip generation analysis for the proposed redevelopment of Las Vegas Restaurant located at 6970 Collins Avenue in Miami Beach, Florida. The project proposes a new residential building with 21 residential dwelling units and a restaurant on the ground floor. The intent of this letter is to provide a Traffic Statement for the project as requested by the City of Miami Beach to address trip generation, the current loading and trash pick-up operations, bicycle parking and transit operations.

Trip Generation

A trip generation comparison has been performed in order to compare trips associated with the existing use and the proposed uses. The project trip generation was based on the rates/equations published by the Institute of Transportation Engineers (ITE) Trip Generation Manual, 10th Edition. Trip generation calculations were performed for typical weekday daily, am and pm peak hours of the adjacent street for the existing building and for the proposed development (see Attachment A for the project trip generation worksheets).

Due to the incorporation of a residential use to the restaurant use, it is anticipated that some trips will be satisfied on-site. An internalization matrix was developed to establish internal trips (also included in Attachment A).

ITE research shows that a certain percent of retail trips are "*pass-by*" trips. These are described as trips "attracted from the traffic passing the site on an adjacent street". These are not new trips, but trips already using the existing roadway network that stop at the proposed use and go back to their original path. Pass-by trips were established based on guidelines provided in ITE's *Trip Generation Manual*, 10th Edition for the restaurant component of the project.

Las Vegas Restaurant is located in an area where pedestrian and bicycle activity is common. The project site is located in an area serviced by several Miami Dade transit bus routes and the City of Miami Beach Trolley routes (see Attachment B for routes). The project is located in a vibrant area with many destinations accessible to pedestrians and bikers encouraging other modes of transportation. The US and Census Bureau has estimated that for the City of Miami Beach, the use of other modes of transportation is approximately 24.6% (data included in Attachment B). The trip generation for the project is summarized in Exhibit 1.

Trip Distribution and Assignment

Project traffic was distributed and assigned to the study area using the Cardinal Distribution for TAZ 626 shown in Exhibit 2. The Cardinal Distribution gives a generalized distribution of trips from a TAZ to other parts of Miami-Dade County. Documentation is provided in Attachment C. For estimating trip distribution for the project traffic, consideration was given to conditions such as the roadway network accessed by the project traffic, roadways available to travel in the desired direction, and attractiveness of traveling on a specific roadway. The project trip distribution is graphically portrayed in Exhibit 3. The resulting am and pm peak hour assignments of the net new trips to be generated by the proposed uses are also included in Exhibit 3.

Area Mobility

The project is located adjacent to Collins Avenue where sidewalks are provided on both sides of the street. Crosswalks are also provided at most intersections. The area is also serviced by two City of Miami Trolley routes and five Metro Bus Routes. A description of the transit service is provided below:

- **Collins Express:** Collins Express runs along Collins Avenue/Harding Avenue between Lincoln Road and 88th Street providing connections to other Trolley Loops and several Metrobus routes.

Exhibit 1
Project Trip Generation

Proposed ITE Land Use Designation	Number of Units	Daily Two-way Volume	AM Peak Hour Vehicle Trips			PM Peak Hour Vehicle Trips		
			In	Out	Total	In	Out	Total
Existing Use								
High Turnover Sit-Down Restaurant *Land Use Code: 932*	2,926 Square Feet	329	16	13	29	18	11	29
Pass By: 43%		-141	-7	-6	-12	-8	-5	-12
[1] Other Modes of Transportation: *24.7%*		-46	-2	-2	-4	-2	-1	-4
Net External Trips (Existing)		**142**	**7**	**5**	**13**	**8**	**5**	**13**
Proposed Uses								
High Turnover Sit-Down Restaurant *Land Use Code: 932*	3,653 Square Feet	409	20	16	36	22	14	36
Multifamily Housing (Low Rise) *Land Use Code: 220*	21 Dwelling Units	118	3	8	11	8	7	15
Subtotal Gross Trips		***527***	***23***	***24***	***47***	***30***	***21***	***51***
Internalization 8.5% (AM), 7.8% (PM)		-43	-2	-2	-4	-2	-2	-4
Pass By[2]: 43%		-167	-8	-7	-15	-9	-6	-15
[1] Other Modes of Transportation: *24.7%*		-78	-3	-3	-6	-5	-3	-8
Net External Trips (Proposed)		**239**	**10**	**12**	**22**	**14**	**10**	**24**
Network New Trips		**97**	**3**	**7**	**9**	**6**	**5**	**11**

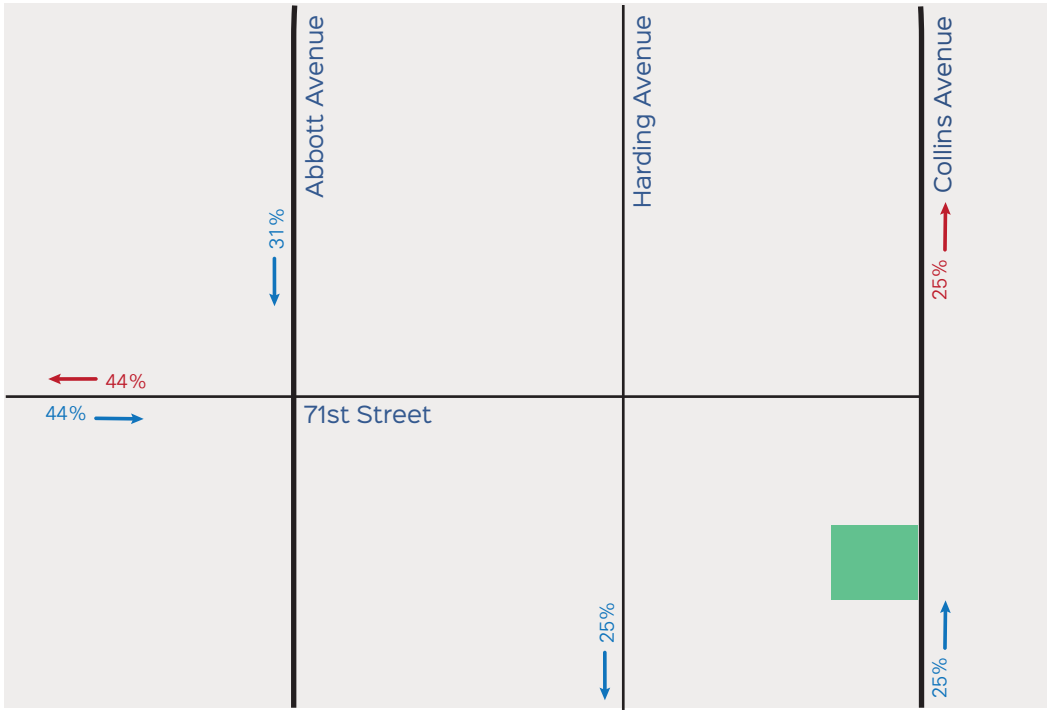
[1] Information obtained from the U.S. census bureau for Miami Beach.

Source: ITE Trip Generation, 10th Edition

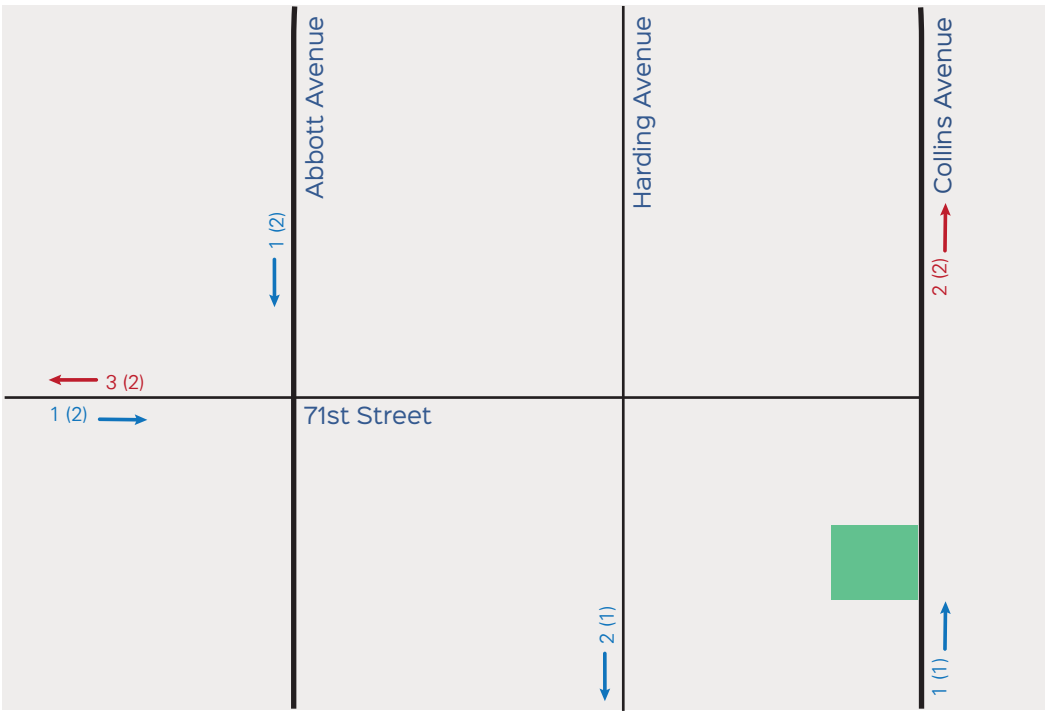
[2] For Restaurant use only.

Exhibit 2
TAZ 626 Cardinal Distribution

DIRECTION	2010	2040	2021
NNE	0.9%	0.8%	0.9%
ENE	0.0%	0.0%	0.0%
ESE	0.0%	0.0%	0.0%
SSE	0.0%	0.0%	0.0%
SSW	23.0%	27.2%	24.5%
WSW	30.1%	27.2%	29.0%
WNW	16.5%	13.4%	15.4%
NNW	29.5%	31.5%	30.2%



Project Trip Distribution



00 AM Peak
(00) PM Peak

Project Trip Assignment

Project Location

Exhibit 3

Project Trip Distribution & Assignment

NORTH
MAP NOT TO SCALE

- **North Beach Loop:** The North Beach Loop provides a reliable and frequent connection between Allison Park, Publix on 69th Street, North Shore Open Space Park, Stillwater Park, North Shore Branch Library, Crespi Park, North Shore Youth Center, Normandy Isle Park and Pool, and other destinations. It connects to Miami-Dade Transit routes: 120, S, H, L, 115, and 79. The North Beach loop is an enhanced transit service with ample interior floor space to provide easy access, ambassador style customer service, security cameras, free Wi-FI, and wheelchair ramps and lifts that will allow easy access of wheelchairs and disabled passengers.
- **Metrobus Route 120 Beach Max:** This route runs along Collins Avenue providing interconnectivity between Sunny Isles Beach, Surfside, North and South Beach. This route provides access to the following destinations: Downtown Bus Terminal, Main Library, Historical Museum, Miami Art Museum, Govt. Center Metrorail Station, Miami-Dade College Wolfson Campus, Omni Bus Terminal, MacArthur Causeway, City of Miami Beach, Collins Avenue, Town of Surfside, City of Bal Harbour, Haulover Park Marina, Aventura Mall.
- **Metrobus Route 119 S:** This route runs along Collins Avenue and Alton Road between 193rd Street and 5th Street. It provides acess to the Downtown (Miami) Bus Terminal, Main Library, Historical Museum, Miami Art Museum, Government Center Metrorail station, Omni Bus Terminal, MacArthur Causeway, City of Miami Beach, South Beach, Lincoln Road, Collins Avenue, 192nd Street Causeway, City of Aventura, Aventura Mall.
- **Metrobus Route 112 L:** This route runs along Collins Avenue between 73rd Street and Lincoln Road. It provides access to Lincoln Road Mall, Miami Beach Convention Center, Miami Beach Senior High School, 41st St./Indian Creek Dr., JFK Causeway, Northside Metrorail station, Amtrak Terminal, Hialeah Metrorail Station.
- **Metrobus Route 115:** Runs along Alton Road between 17th Street and 63rd Street and along Collins Avenue north of 63rd Street to 88th Street. It provides access to Harding/88th St., Alton Road, Sheridan Avenue, Lincoln/Washington, Mt. Sinai Medical Center, 17th St./Washington Ave.
- **Metrobus Route 79 Street MAX:** This is a weekday rush hour service only route providing access to Northside Metrorail Station, NW 79th St., 79th Street Causeway, North Bay Island, Normandy Isle, Miami Beach, Collins Ave., Harding Ave., 73rd St.

Transit Maps and schedules are provided in Attachment B.

The project has also committed to providing bicycle parking as described below.

- Long Term: 30 Spaces

  These spaces will be located on Level 2 of the building in a dedicated storage area. Access to this level will be granted to residents & restaurant staff.

- Short Term: 5 Spaces

  Short term bicycle spaces will be located on the ground level of the building.

Garbage Pick-Up

The trash room is currently located on the ground level with direct access from the service path located south of the building. Garage Pick-up will remain unchanged. Currently, waste management picks up trash daily between 5 and 7 am.

Conclusions

Net new vehicular traffic associated with the redevelopment of this site will be distributed along the Collins Avenue/SR A1A one-way pair to/from the north, Collins Avenue/Harding Avenue and 71st Street one-way pair to/from the south, and 71st Street to the west. During the am and pm peak hours, increases in one-way project traffic will range between 1 and 3 vehicles per hour in the area roadways. This increase can be considered a de-minimus.

We stand ready to provide any support needed for this project. Should you have any questions or comments, please call me at (305) 447-0900.

Sincerely,

Juan Espinosa, PE
Vice-President – Transportation

Attachment

ATTACHMENT A

Trip Generation

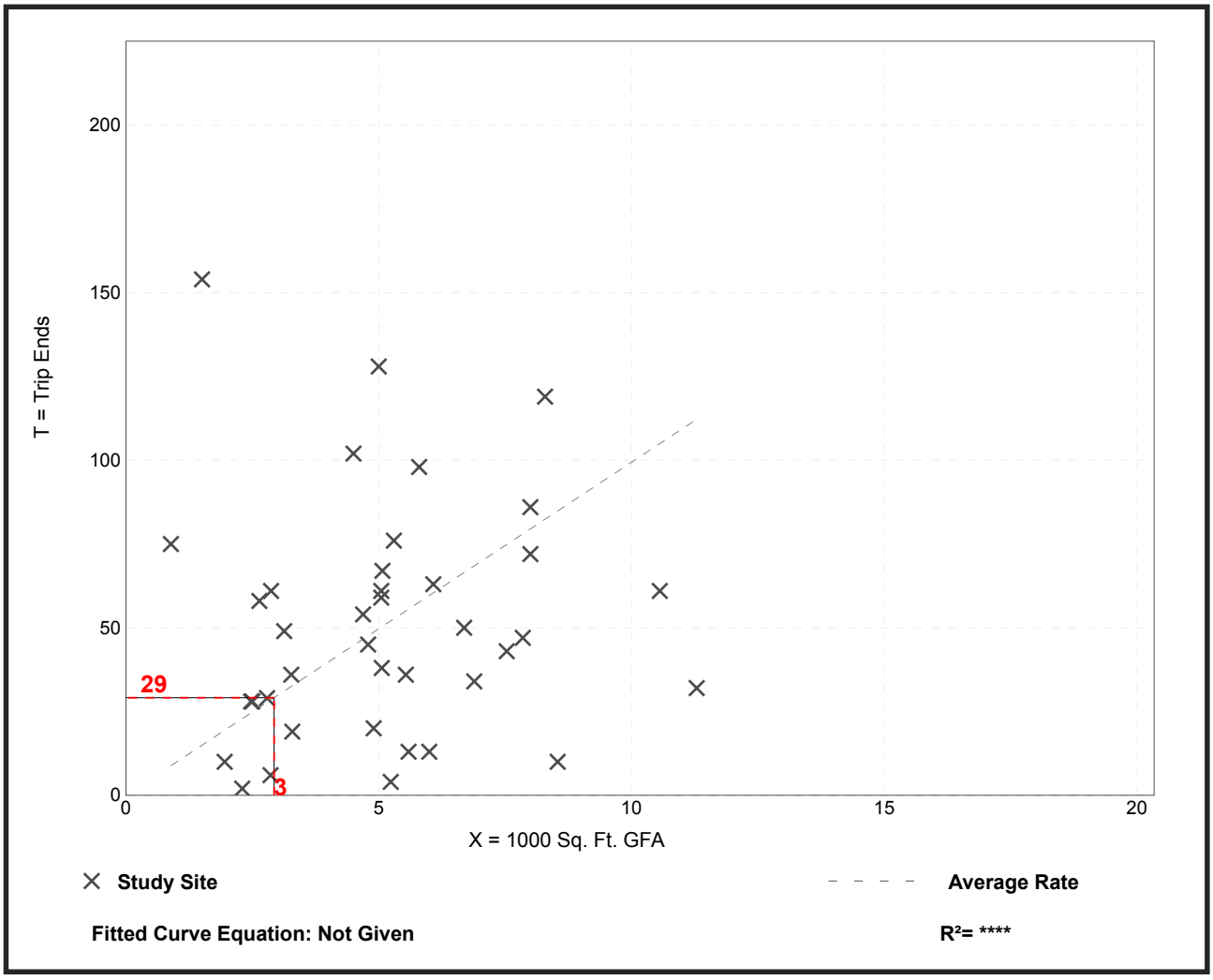
High-Turnover (Sit-Down) Restaurant
(932)

Vehicle Trip Ends vs: **1000 Sq. Ft. GFA**
On a: **Weekday,**
Peak Hour of Adjacent Street Traffic,
One Hour Between 7 and 9 a.m.
Setting/Location: **General Urban/Suburban**
Number of Studies: 39
Avg. 1000 Sq. Ft. GFA: 5
Directional Distribution: 55% entering, 45% exiting

Vehicle Trip Generation per 1000 Sq. Ft. GFA

Average Rate	Range of Rates	Standard Deviation
9.94	0.76 - 102.39	11.33

Data Plot and Equation



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High-Turnover (Sit-Down) Restaurant
(932)

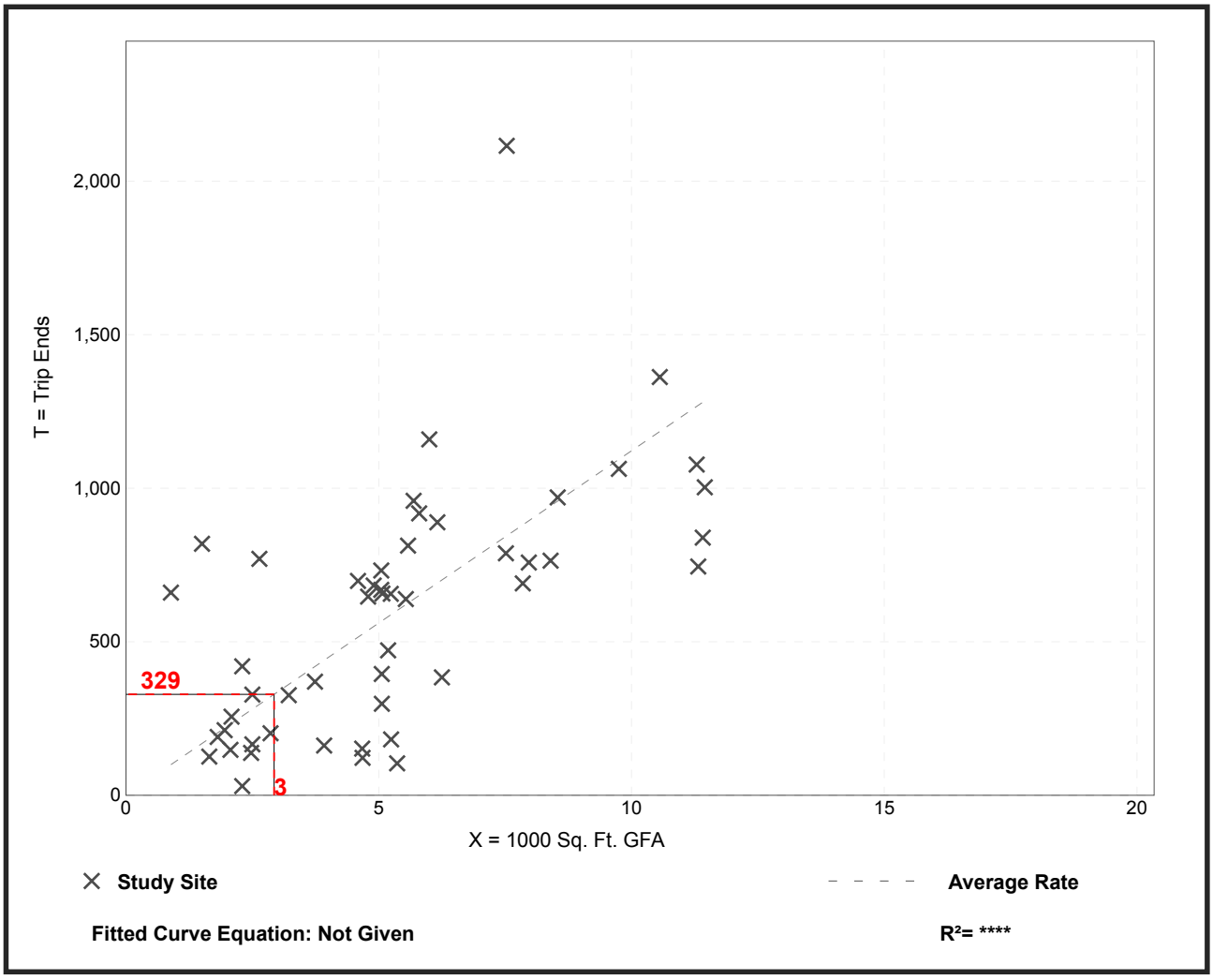
Vehicle Trip Ends vs: **1000 Sq. Ft. GFA**
On a: **Weekday**

Setting/Location: **General Urban/Suburban**
Number of Studies: 50
Avg. 1000 Sq. Ft. GFA: 5
Directional Distribution: 50% entering, 50% exiting

Vehicle Trip Generation per 1000 Sq. Ft. GFA

Average Rate	Range of Rates	Standard Deviation
112.18	13.04 - 742.41	72.51

Data Plot and Equation



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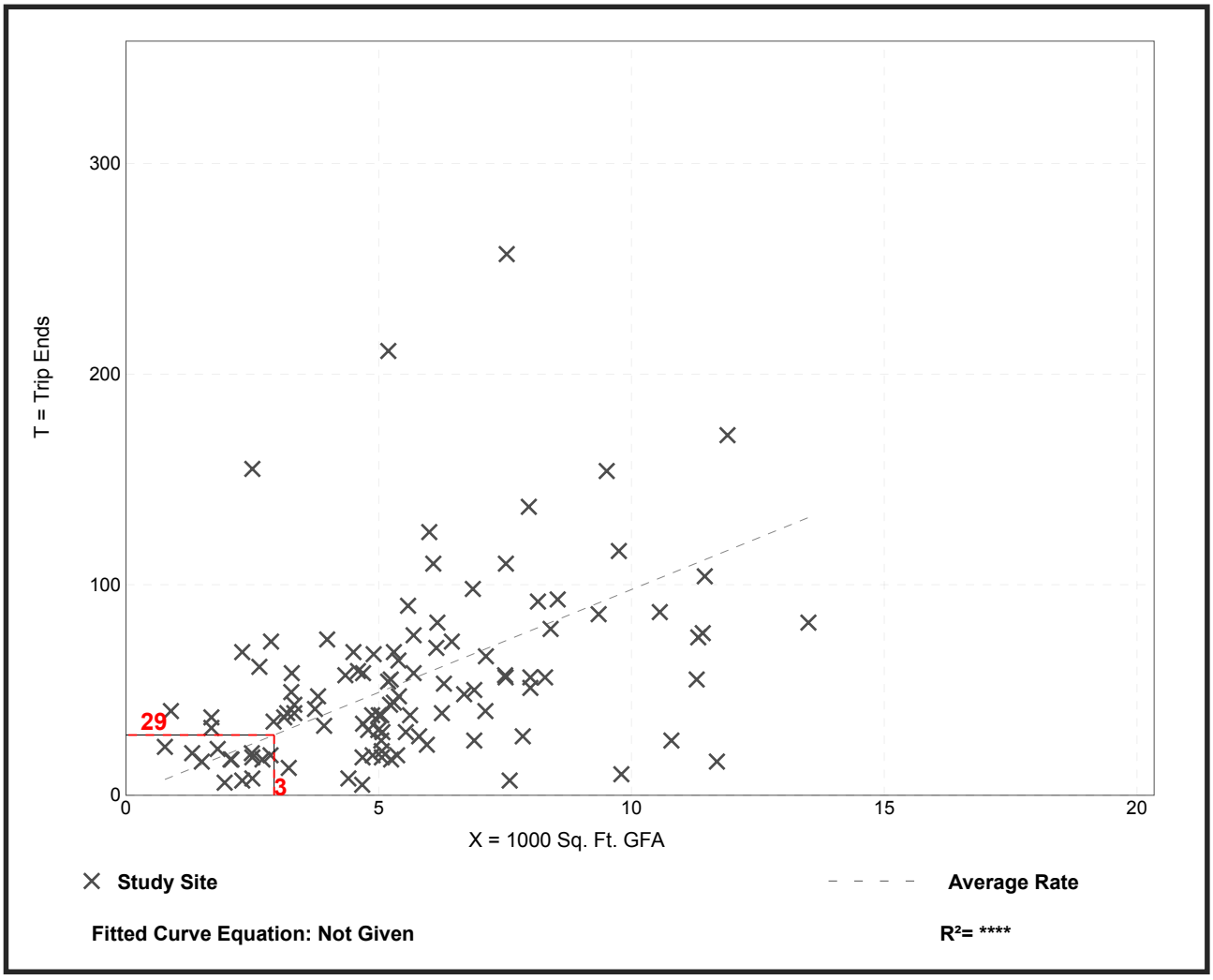
High-Turnover (Sit-Down) Restaurant
(932)

Vehicle Trip Ends vs: **1000 Sq. Ft. GFA**
On a: **Weekday,**
Peak Hour of Adjacent Street Traffic,
One Hour Between 4 and 6 p.m.
Setting/Location: **General Urban/Suburban**
Number of Studies: 107
Avg. 1000 Sq. Ft. GFA: 6
Directional Distribution: 62% entering, 38% exiting

Vehicle Trip Generation per 1000 Sq. Ft. GFA

Average Rate	Range of Rates	Standard Deviation
9.77	0.92 - 62.00	7.37

Data Plot and Equation



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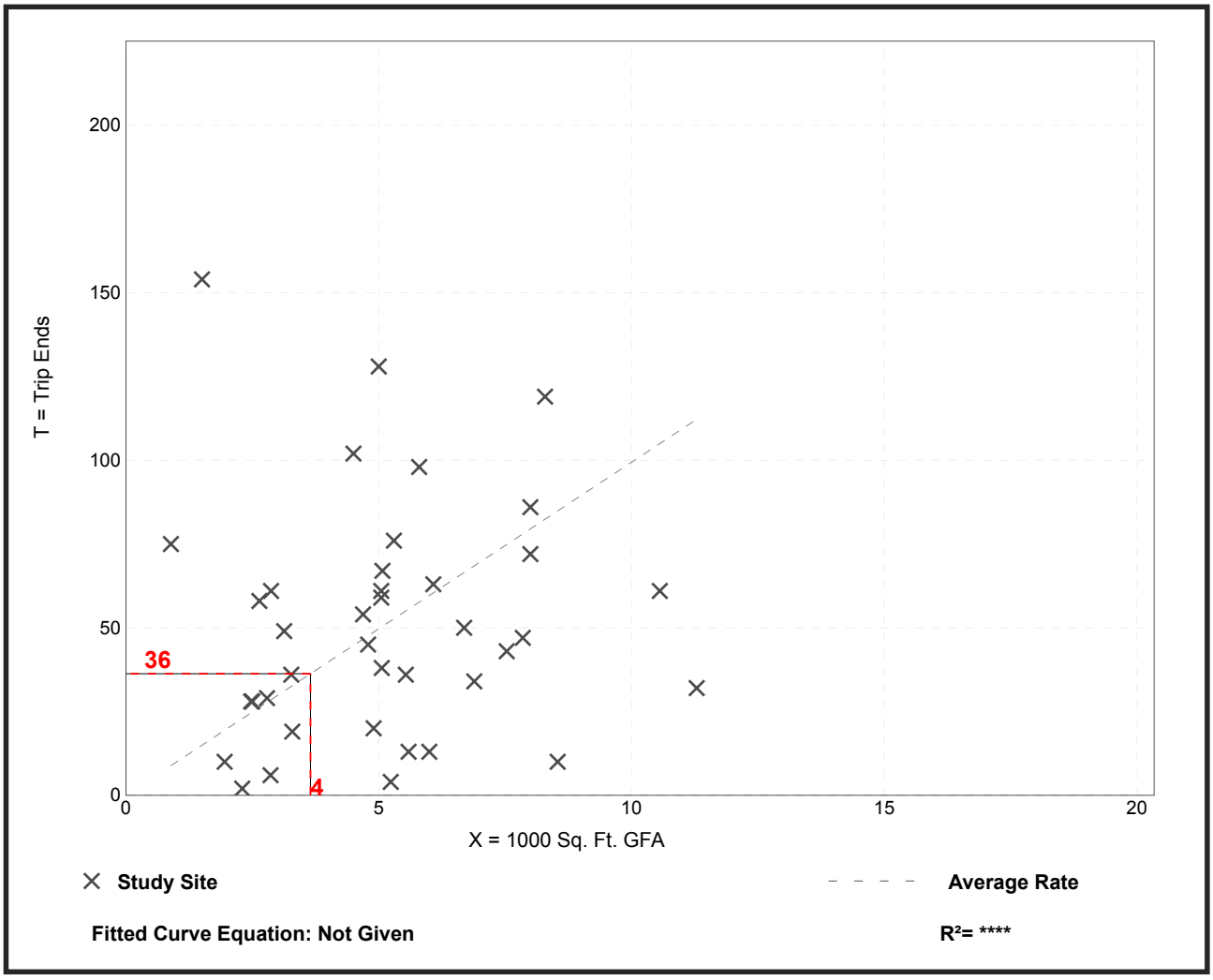
High-Turnover (Sit-Down) Restaurant
(932)

Vehicle Trip Ends vs: **1000 Sq. Ft. GFA**
On a: **Weekday,**
Peak Hour of Adjacent Street Traffic,
One Hour Between 7 and 9 a.m.
Setting/Location: **General Urban/Suburban**
Number of Studies: 39
Avg. 1000 Sq. Ft. GFA: 5
Directional Distribution: 55% entering, 45% exiting

Vehicle Trip Generation per 1000 Sq. Ft. GFA

Average Rate	Range of Rates	Standard Deviation
9.94	0.76 - 102.39	11.33

Data Plot and Equation



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High-Turnover (Sit-Down) Restaurant
(932)

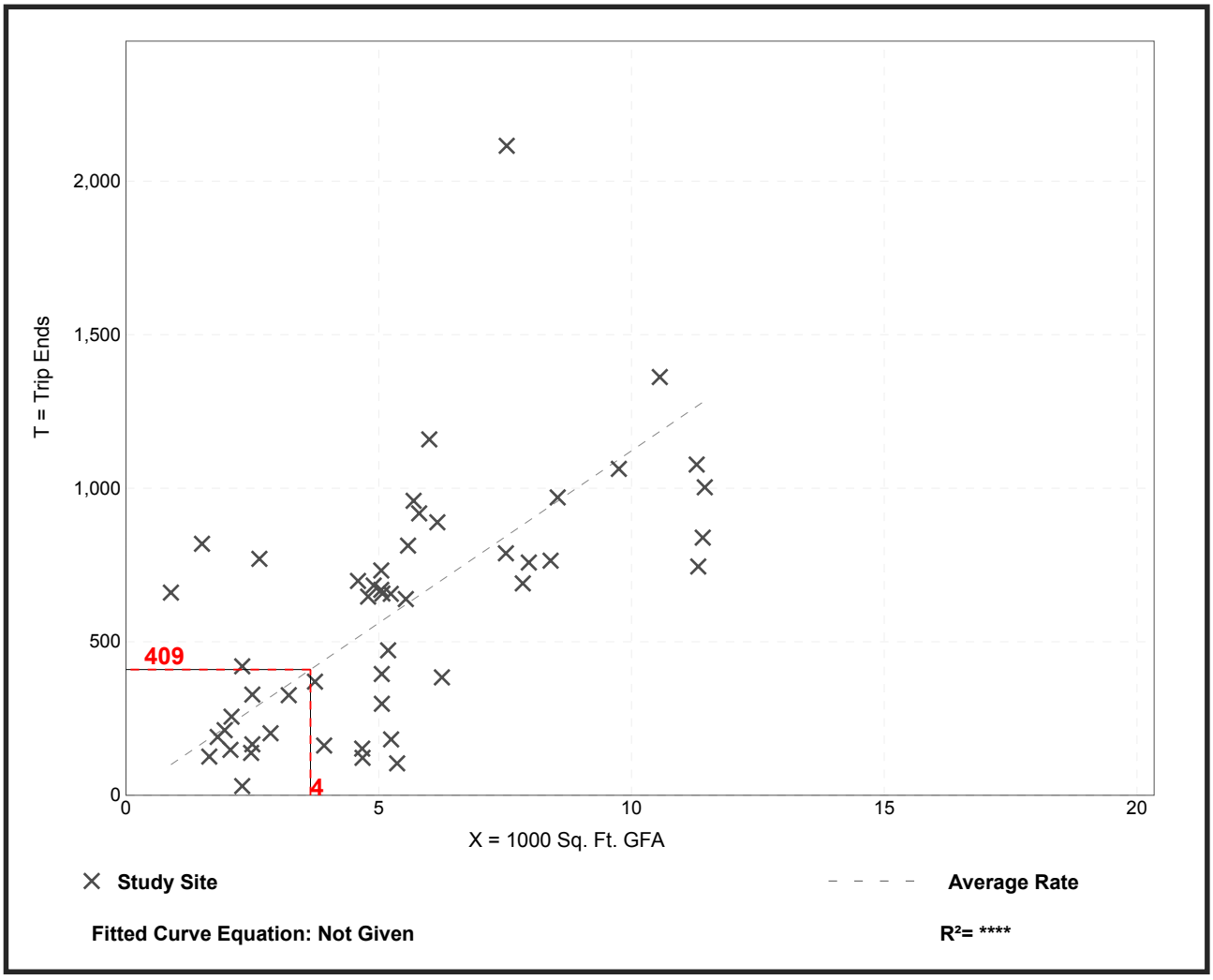
Vehicle Trip Ends vs: **1000 Sq. Ft. GFA**
On a: **Weekday**

Setting/Location: **General Urban/Suburban**
Number of Studies: 50
Avg. 1000 Sq. Ft. GFA: 5
Directional Distribution: 50% entering, 50% exiting

Vehicle Trip Generation per 1000 Sq. Ft. GFA

Average Rate	Range of Rates	Standard Deviation
112.18	13.04 - 742.41	72.51

Data Plot and Equation



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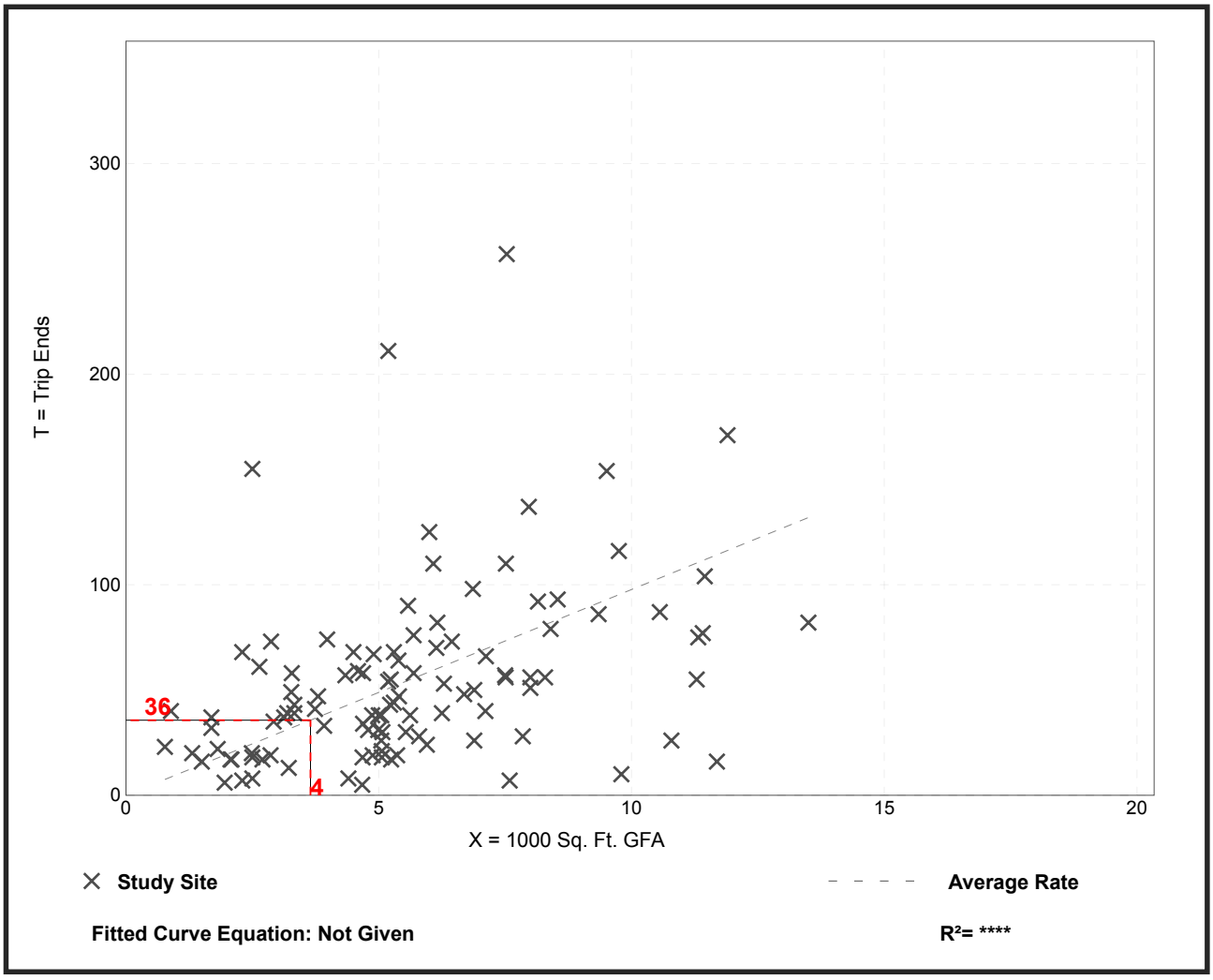
High-Turnover (Sit-Down) Restaurant
(932)

Vehicle Trip Ends vs: **1000 Sq. Ft. GFA**
On a: **Weekday,**
Peak Hour of Adjacent Street Traffic,
One Hour Between 4 and 6 p.m.
Setting/Location: **General Urban/Suburban**
Number of Studies: 107
Avg. 1000 Sq. Ft. GFA: 6
Directional Distribution: 62% entering, 38% exiting

Vehicle Trip Generation per 1000 Sq. Ft. GFA

Average Rate	Range of Rates	Standard Deviation
9.77	0.92 - 62.00	7.37

Data Plot and Equation



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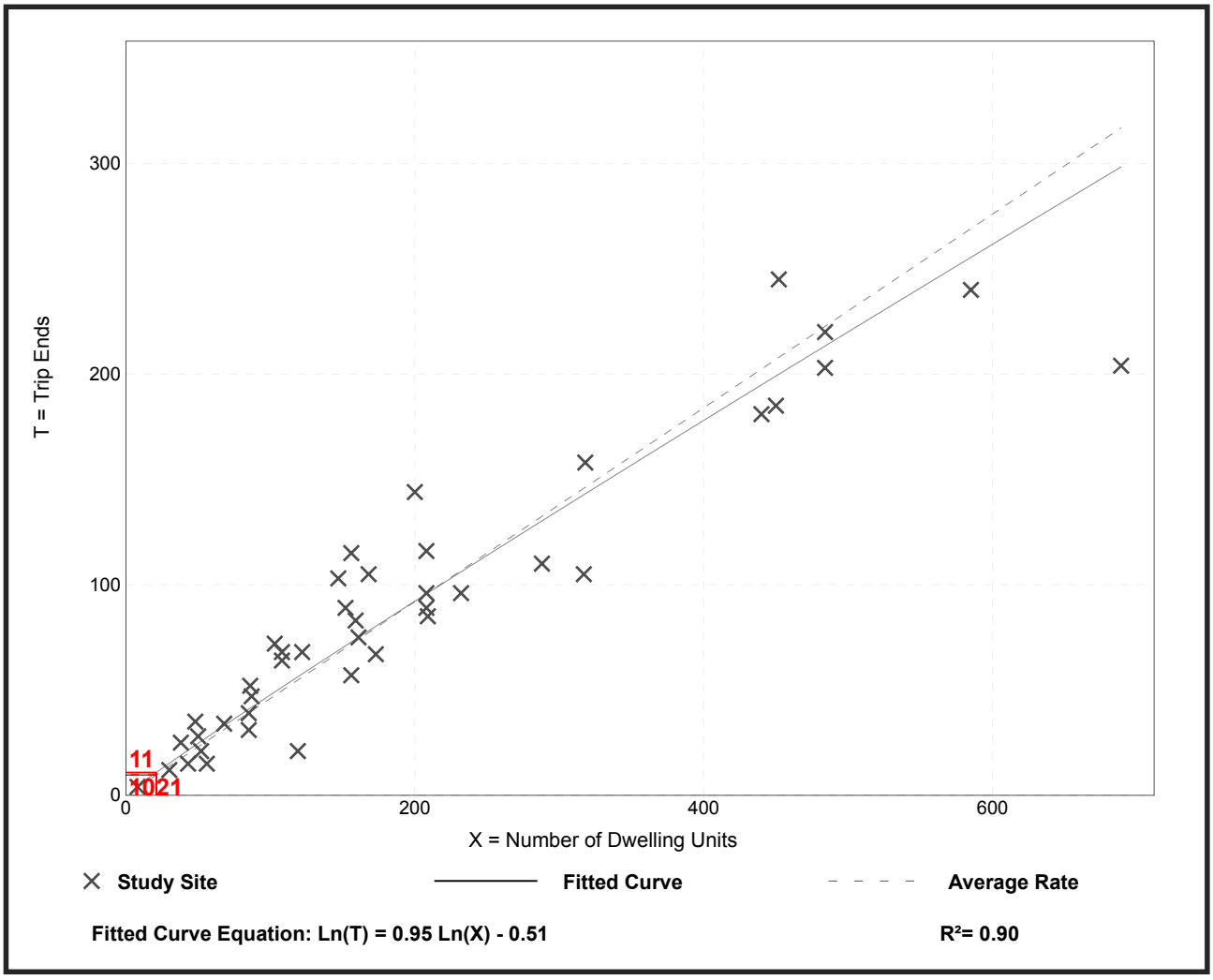
Multifamily Housing (Low-Rise)
(220)

Vehicle Trip Ends vs: **Dwelling Units**
On a: **Weekday,**
Peak Hour of Adjacent Street Traffic,
One Hour Between 7 and 9 a.m.
Setting/Location: **General Urban/Suburban**
Number of Studies: 42
Avg. Num. of Dwelling Units: 199
Directional Distribution: 23% entering, 77% exiting

Vehicle Trip Generation per Dwelling Unit

Average Rate	Range of Rates	Standard Deviation
0.46	0.18 - 0.74	0.12

Data Plot and Equation



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Multifamily Housing (Low-Rise)
(220)

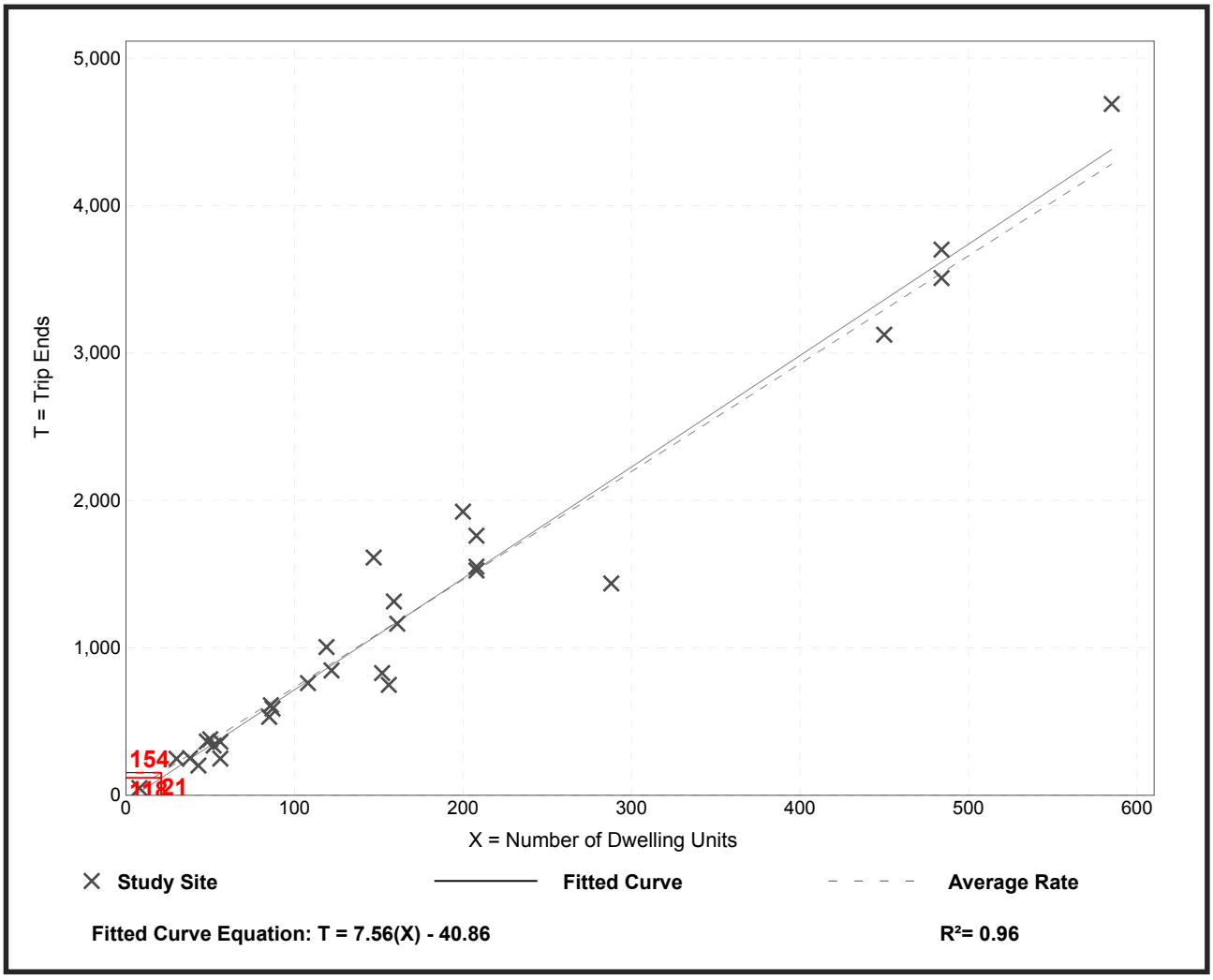
Vehicle Trip Ends vs: **Dwelling Units**
On a: **Weekday**

Setting/Location: **General Urban/Suburban**
Number of Studies: 29
Avg. Num. of Dwelling Units: 168
Directional Distribution: 50% entering, 50% exiting

Vehicle Trip Generation per Dwelling Unit

Average Rate	Range of Rates	Standard Deviation
7.32	4.45 - 10.97	1.31

Data Plot and Equation



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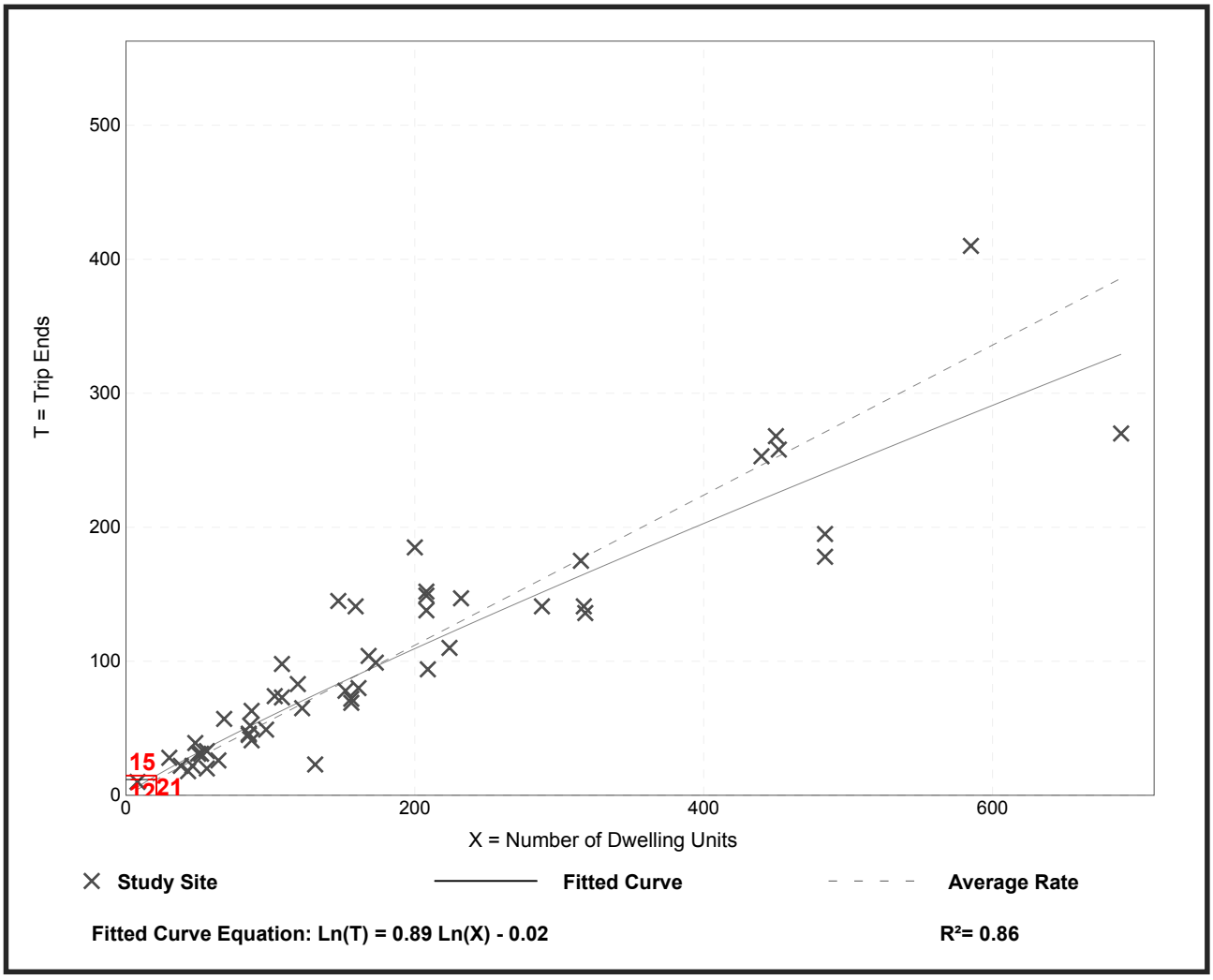
Multifamily Housing (Low-Rise)
(220)

Vehicle Trip Ends vs: **Dwelling Units**
On a: **Weekday,**
Peak Hour of Adjacent Street Traffic,
One Hour Between 4 and 6 p.m.
Setting/Location: **General Urban/Suburban**
Number of Studies: 50
Avg. Num. of Dwelling Units: 187
Directional Distribution: 63% entering, 37% exiting

Vehicle Trip Generation per Dwelling Unit

Average Rate	Range of Rates	Standard Deviation
0.56	0.18 - 1.25	0.16

Data Plot and Equation



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AM Peak Hour Internalization

	Restaurant		Residential			
	In	Out	In	Out		
AM ITE	**20**	**16**	**3**	**8**	**47**	
	20%			20%		
		4%	5%			
Unconstrained	-4			-2		
		-1	0			
Constrained	-2			-2	-4	-8.5%
		0	0			
External	18	16	3	6	43	
Pass-by	-8	-7				-43%
Other Modes	-2	-2	-1	-1		-24.60%
Net New External	**8**	**7**	**2**	**5**	**22**	

PM Peak Hour Internalization

	Restaurant		Residential			
	In	Out	In	Out		
PM ITE	**22**	**14**	**8**	**7**	**51**	
	14%			21%		
		18%	16%			
Unconstrained	-3			-1		
		-3	-1			
Constrained	-1			-1	-4	-7.8%
		-1	-1			
External	21	13	7	6	47	
Pass-by	-9	-6				-43%
Other Modes	-3	-2	-2	-1		-24.60%
Net New External	**9**	**5**	**5**	**5**	**24**	

ATTACHMENT B

Transit

S0801

COMMUTING CHARACTERISTICS BY SEX

2013-2017 American Community Survey 5-Year Estimates

Supporting documentation on code lists, subject definitions, data accuracy, and statistical testing can be found on the American Community Survey website in the Technical Documentation section.

Sample size and data quality measures (including coverage rates, allocation rates, and response rates) can be found on the American Community Survey website in the Methodology section.

Although the American Community Survey (ACS) produces population, demographic and housing unit estimates, it is the Census Bureau's Population Estimates Program that produces and disseminates the official estimates of the population for the nation, states, counties, cities, and towns and estimates of housing units for states and counties.

Subject	Miami Beach city, Florida				
	Total		Male		Female
	Estimate	Margin of Error	Estimate	Margin of Error	Estimate
Workers 16 years and over	52,030	+/-1,205	30,813	+/-878	21,217
MEANS OF TRANSPORTATION TO WORK					
Car, truck, or van	60.5%	+/-1.8	60.4%	+/-2.2	60.8%
Drove alone	53.9%	+/-1.8	54.4%	+/-2.3	53.2%
Carpooled	6.7%	+/-1.0	6.0%	+/-1.2	7.6%
In 2-person carpool	5.8%	+/-0.9	5.1%	+/-1.1	6.9%
In 3-person carpool	0.5%	+/-0.3	0.6%	+/-0.4	0.4%
In 4-or-more person carpool	0.3%	+/-0.2	0.4%	+/-0.2	0.2%
Workers per car, truck, or van	1.06	+/-0.01	1.06	+/-0.01	1.07
Public transportation (excluding taxicab)	9.5%	+/-1.1	8.6%	+/-1.3	10.8%
Walked	10.7%	+/-1.4	10.2%	+/-2.0	11.4%
Bicycle	4.5%	+/-1.0	5.1%	+/-1.3	3.5%
Taxicab, motorcycle, or other means	5.1%	+/-0.8	5.3%	+/-1.0	4.8%
Worked at home	9.7%	+/-1.1	10.4%	+/-1.5	8.7%
PLACE OF WORK					
Worked in state of residence	98.0%	+/-0.4	97.9%	+/-0.6	98.2%
Worked in county of residence	93.0%	+/-0.8	92.3%	+/-1.1	94.0%
Worked outside county of residence	5.0%	+/-0.7	5.6%	+/-1.0	4.2%
Worked outside state of residence	2.0%	+/-0.4	2.1%	+/-0.6	1.8%
Living in a place	100.0%	+/-0.1	100.0%	+/-0.1	100.0%
Worked in place of residence	46.9%	+/-1.5	46.3%	+/-2.1	47.8%
Worked outside place of residence	53.1%	+/-1.5	53.7%	+/-2.1	52.2%
Not living in a place	0.0%	+/-0.1	0.0%	+/-0.1	0.0%
Living in 12 selected states	0.0%	+/-0.1	0.0%	+/-0.1	0.0%
Worked in minor civil division of residence	0.0%	+/-0.1	0.0%	+/-0.1	0.0%
Worked outside minor civil division of residence	0.0%	+/-0.1	0.0%	+/-0.1	0.0%
Not living in 12 selected states	100.0%	+/-0.1	100.0%	+/-0.1	100.0%
Workers 16 years and over who did not work at home	46,980	+/-1,143	27,607	+/-898	19,373
TIME LEAVING HOME TO GO TO WORK					

Subject	Miami Beach city, Florida				
	Total		Male		Female
	Estimate	Margin of Error	Estimate	Margin of Error	Estimate
12:00 a.m. to 4:59 a.m.	2.5%	+/-0.6	3.4%	+/-1.0	1.3%
5:00 a.m. to 5:29 a.m.	1.2%	+/-0.4	1.6%	+/-0.6	0.6%
5:30 a.m. to 5:59 a.m.	1.7%	+/-0.6	1.5%	+/-0.6	2.0%
6:00 a.m. to 6:29 a.m.	4.8%	+/-0.8	5.8%	+/-1.2	3.3%
6:30 a.m. to 6:59 a.m.	4.1%	+/-0.7	4.2%	+/-1.0	4.1%
7:00 a.m. to 7:29 a.m.	9.9%	+/-1.1	10.5%	+/-1.5	9.1%
7:30 a.m. to 7:59 a.m.	8.0%	+/-0.9	7.0%	+/-1.1	9.4%
8:00 a.m. to 8:29 a.m.	16.5%	+/-1.3	16.4%	+/-1.9	16.7%
8:30 a.m. to 8:59 a.m.	10.3%	+/-1.0	8.0%	+/-1.3	13.6%
9:00 a.m. to 11:59 p.m.	40.9%	+/-1.5	41.7%	+/-2.3	39.8%
TRAVEL TIME TO WORK					
Less than 10 minutes	9.1%	+/-1.1	8.8%	+/-1.4	9.7%
10 to 14 minutes	15.3%	+/-1.7	14.6%	+/-2.1	16.4%
15 to 19 minutes	12.3%	+/-1.2	11.5%	+/-1.5	13.6%
20 to 24 minutes	15.7%	+/-1.5	15.9%	+/-2.0	15.5%
25 to 29 minutes	4.9%	+/-0.8	5.7%	+/-1.1	3.6%
30 to 34 minutes	19.8%	+/-1.9	20.7%	+/-2.2	18.5%
35 to 44 minutes	6.8%	+/-0.9	6.7%	+/-1.1	6.9%
45 to 59 minutes	8.4%	+/-1.0	8.1%	+/-1.2	8.9%
60 or more minutes	7.6%	+/-1.0	8.1%	+/-1.3	7.0%
Mean travel time to work (minutes)	26.6	+/-0.7	27.0	+/-0.9	26.1
VEHICLES AVAILABLE					
Workers 16 years and over in households	51,825	+/-1,206	30,697	+/-877	21,128
No vehicle available	17.3%	+/-1.7	17.4%	+/-1.9	17.2%
1 vehicle available	44.0%	+/-2.3	44.2%	+/-2.6	43.7%
2 vehicles available	29.0%	+/-2.1	29.6%	+/-2.5	28.1%
3 or more vehicles available	9.7%	+/-1.8	8.8%	+/-1.6	11.0%
PERCENT ALLOCATED					
Means of transportation to work	8.0%	(X)	(X)	(X)	(X)
Private vehicle occupancy	10.4%	(X)	(X)	(X)	(X)
Place of work	9.7%	(X)	(X)	(X)	(X)
Time leaving home to go to work	15.3%	(X)	(X)	(X)	(X)
Travel time to work	10.6%	(X)	(X)	(X)	(X)
Vehicles available	1.1%	(X)	(X)	(X)	(X)

Subject	Miami Beach city, Florida
	Female
	Margin of Error
Workers 16 years and over	+/-876
MEANS OF TRANSPORTATION TO WORK	
Car, truck, or van	+/-2.4
Drove alone	+/-2.6
Carpooled	+/-1.5
In 2-person carpool	+/-1.4
In 3-person carpool	+/-0.3
In 4-or-more person carpool	+/-0.2
Workers per car, truck, or van	+/-0.01
Public transportation (excluding taxicab)	+/-1.8
Walked	+/-1.7
Bicycle	+/-1.3
Taxicab, motorcycle, or other means	+/-1.1
Worked at home	+/-1.4
PLACE OF WORK	
Worked in state of residence	+/-0.6
Worked in county of residence	+/-1.1
Worked outside county of residence	+/-1.0
Worked outside state of residence	+/-0.6
Living in a place	+/-0.2
Worked in place of residence	+/-2.6
Worked outside place of residence	+/-2.6
Not living in a place	+/-0.2
Living in 12 selected states	+/-0.2
Worked in minor civil division of residence	+/-0.2
Worked outside minor civil division of residence	+/-0.2
Not living in 12 selected states	+/-0.2
Workers 16 years and over who did not work at home	+/-845
TIME LEAVING HOME TO GO TO WORK	
12:00 a.m. to 4:59 a.m.	+/-0.6
5:00 a.m. to 5:29 a.m.	+/-0.5
5:30 a.m. to 5:59 a.m.	+/-1.0
6:00 a.m. to 6:29 a.m.	+/-1.0
6:30 a.m. to 6:59 a.m.	+/-1.1
7:00 a.m. to 7:29 a.m.	+/-1.7
7:30 a.m. to 7:59 a.m.	+/-1.2
8:00 a.m. to 8:29 a.m.	+/-1.9
8:30 a.m. to 8:59 a.m.	+/-2.0
9:00 a.m. to 11:59 p.m.	+/-2.3
TRAVEL TIME TO WORK	
Less than 10 minutes	+/-1.6
10 to 14 minutes	+/-2.4
15 to 19 minutes	+/-1.8
20 to 24 minutes	+/-2.3
25 to 29 minutes	+/-0.9
30 to 34 minutes	+/-2.4
35 to 44 minutes	+/-1.3
45 to 59 minutes	+/-1.7
60 or more minutes	+/-1.6
Mean travel time to work (minutes)	+/-1.2
VEHICLES AVAILABLE	

Subject	Miami Beach city, Florida
	Female
	Margin of Error
Workers 16 years and over in households	+/-867
No vehicle available	+/-2.1
1 vehicle available	+/-3.0
2 vehicles available	+/-2.5
3 or more vehicles available	+/-2.3
PERCENT ALLOCATED	
Means of transportation to work	(X)
Private vehicle occupancy	(X)
Place of work	(X)
Time leaving home to go to work	(X)
Travel time to work	(X)
Vehicles available	(X)

Data are based on a sample and are subject to sampling variability. The degree of uncertainty for an estimate arising from sampling variability is represented through the use of a margin of error. The value shown here is the 90 percent margin of error. The margin of error can be interpreted roughly as providing a 90 percent probability that the interval defined by the estimate minus the margin of error and the estimate plus the margin of error (the lower and upper confidence bounds) contains the true value. In addition to sampling variability, the ACS estimates are subject to nonsampling error (for a discussion of nonsampling variability, see Accuracy of the Data). The effect of nonsampling error is not represented in these tables.

The 12 selected states are Connecticut, Maine, Massachusetts, Michigan, Minnesota, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, Vermont, and Wisconsin.

Workers include members of the Armed Forces and civilians who were at work last week.

When information is missing or inconsistent, the Census Bureau logically assigns an acceptable value using the response to a related question or questions. If a logical assignment is not possible, data are filled using a statistical process called allocation, which uses a similar individual or household to provide a donor value. The "Allocated" section is the number of respondents who received an allocated value for a particular subject.

While the 2013-2017 American Community Survey (ACS) data generally reflect the February 2013 Office of Management and Budget (OMB) definitions of metropolitan and micropolitan statistical areas; in certain instances the names, codes, and boundaries of the principal cities shown in ACS tables may differ from the OMB definitions due to differences in the effective dates of the geographic entities.

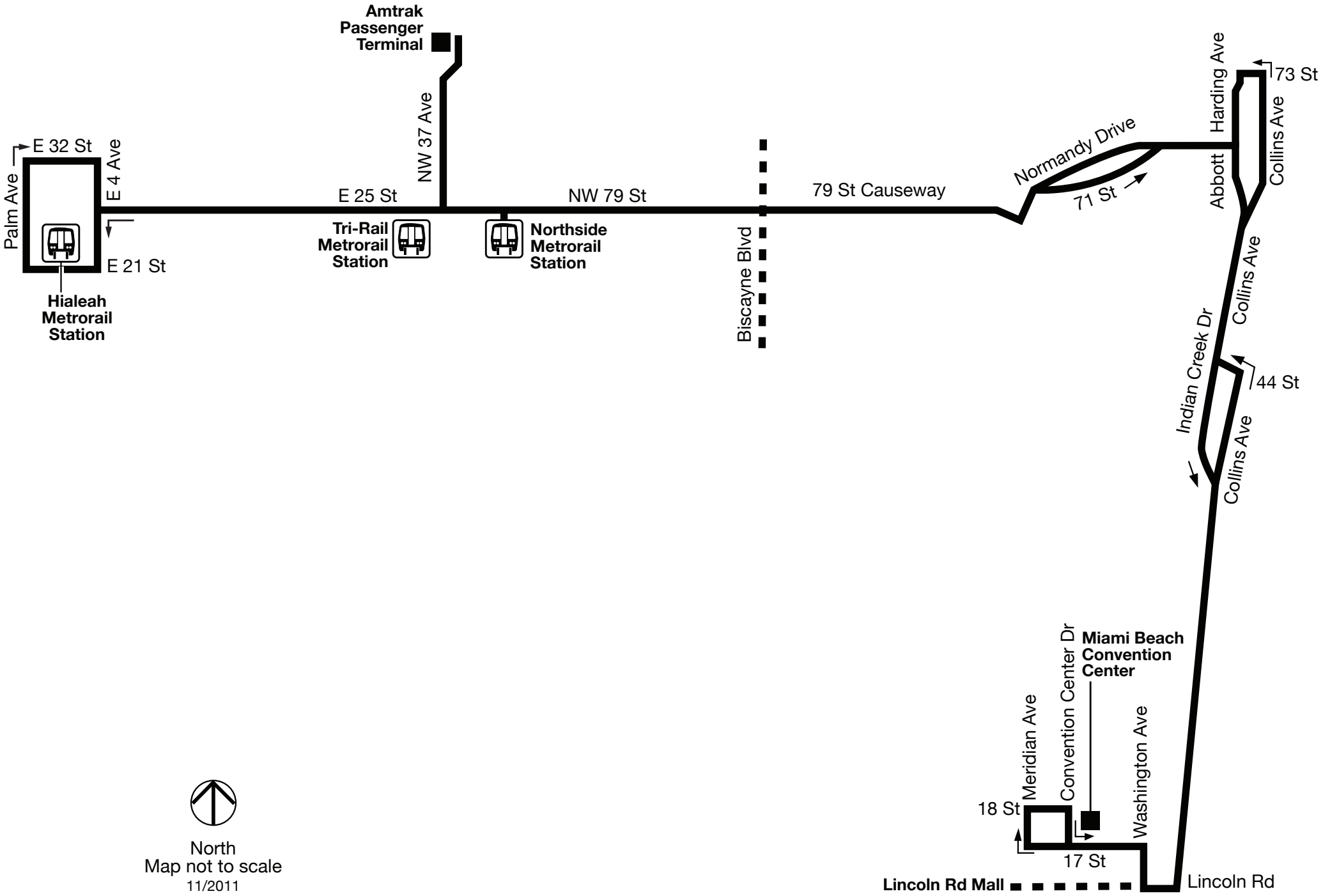
Estimates of urban and rural populations, housing units, and characteristics reflect boundaries of urban areas defined based on Census 2010 data. As a result, data for urban and rural areas from the ACS do not necessarily reflect the results of ongoing urbanization.

Source: U.S. Census Bureau, 2013-2017 American Community Survey 5-Year Estimates

Explanation of Symbols:

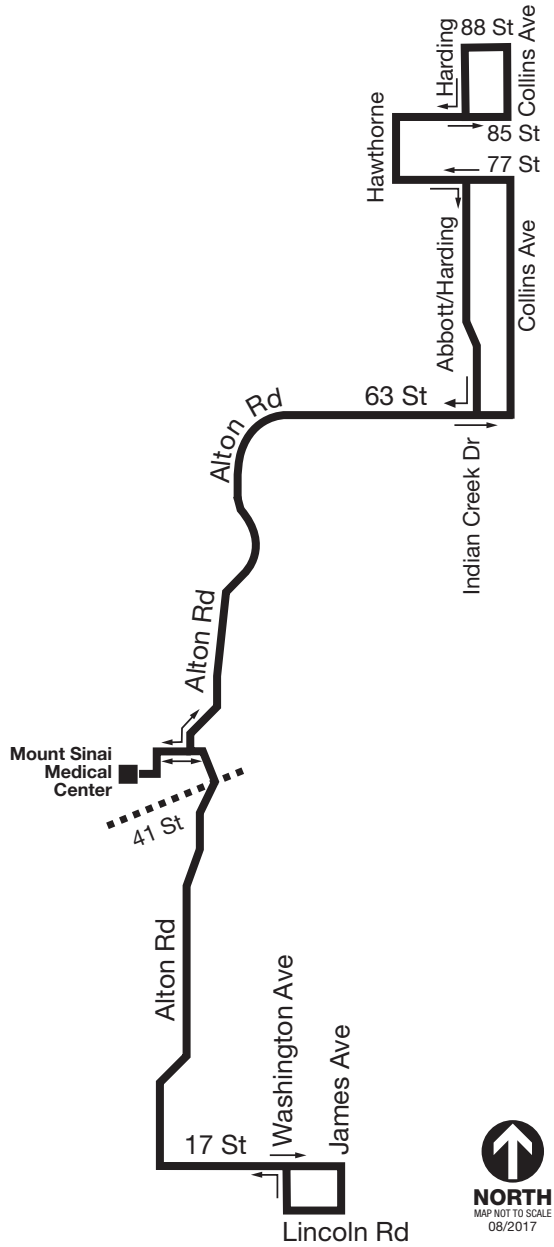
1. An '**' entry in the margin of error column indicates that either no sample observations or too few sample observations were available to compute a standard error and thus the margin of error. A statistical test is not appropriate.
2. An '-' entry in the estimate column indicates that either no sample observations or too few sample observations were available to compute an estimate, or a ratio of medians cannot be calculated because one or both of the median estimates falls in the lowest interval or upper interval of an open-ended distribution.
3. An '-' following a median estimate means the median falls in the lowest interval of an open-ended distribution.
4. An '+' following a median estimate means the median falls in the upper interval of an open-ended distribution.
5. An '***' entry in the margin of error column indicates that the median falls in the lowest interval or upper interval of an open-ended distribution. A statistical test is not appropriate.
6. An '*****' entry in the margin of error column indicates that the estimate is controlled. A statistical test for sampling variability is not appropriate.
7. An 'N' entry in the estimate and margin of error columns indicates that data for this geographic area cannot be displayed because the number of sample cases is too small.
8. An '(X)' means that the estimate is not applicable or not available.

Route L


Amtrak
Passenger
Terminal
NW 37 Ave
E 32 St
E 4 Ave
Palm Ave
E 25 St
NW 79 St
79 St Causeway
Normandy Drive
71 St
Harding Ave
73 St
Collins Ave
Abbott
Tri-Rail
Metrorail
Station
Northside
Metrorail
Station
Biscayne Blvd
E 21 St
Hialeah
Metrorail
Station
Indian Creek Dr
Collins Ave
44 St
Collins Ave
Miami Beach
Convention
Center
Convention Center Dr
Meridian Ave
Washington Ave
18 St
17 St
Lincoln Rd Mall
Lincoln Rd
North
Map not to scale
11/2011

115

MID-NORTH BEACH CONNECTION



NORTH
MAP NOT TO SCALE
08/2017

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MDT TRACKER
EASY PAY MIAMI
MDT TRANSIT WATCH

WEEKDAYS | *ENTRE SEMANA* | *LASEMÈN*

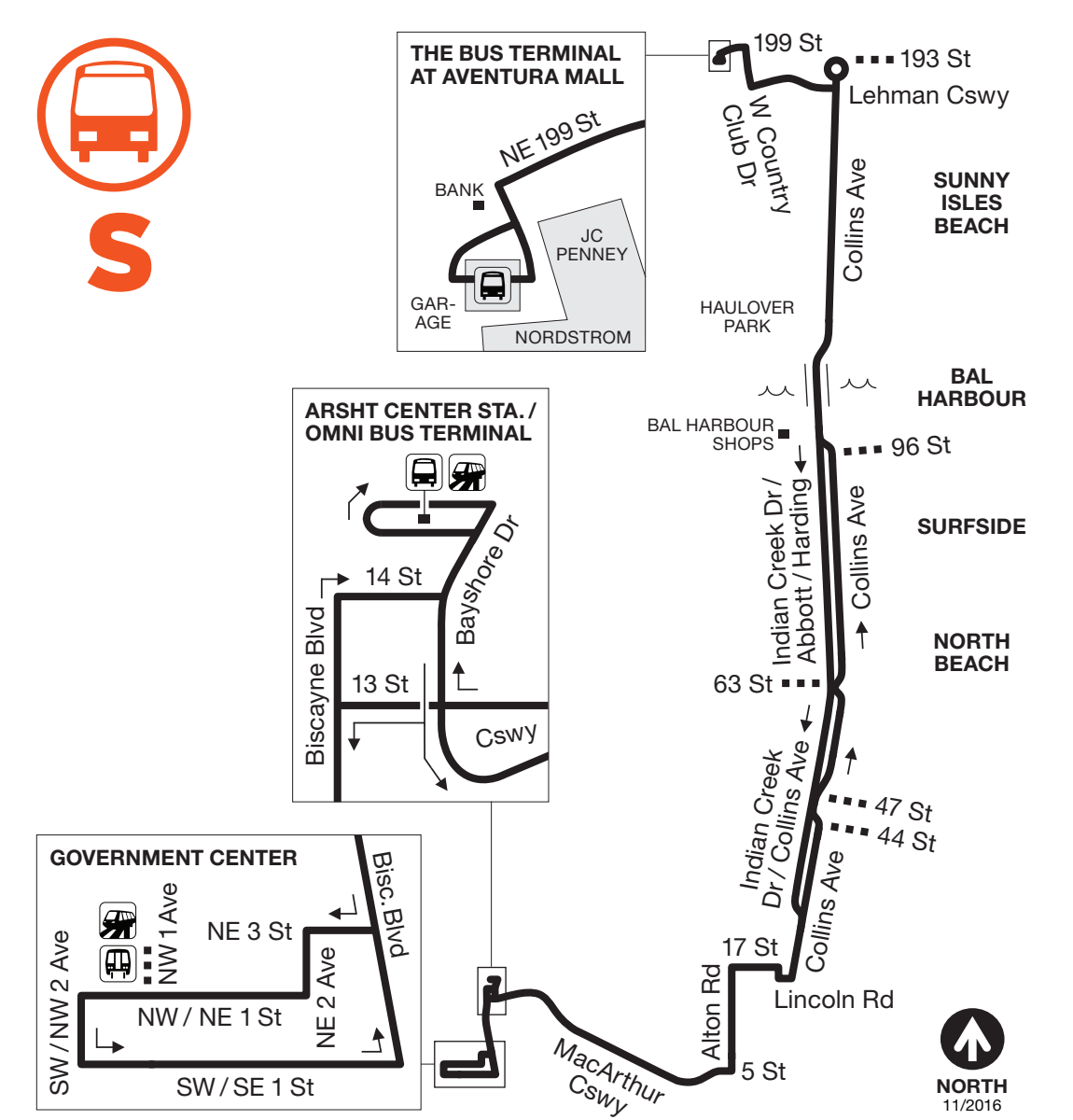
SOUTHBOUND *RUMBO SUR DIREKSYON SID*	MORNING *MAÑANA / MATIN* AM						AFTERNOON *TARDE / APREMIDI* PM								
Collins Ave & 87 St	7:20	8:10	9:00	9:50	10:40	11:30	12:20	1:10	2:00	2:50	3:40	4:30	5:20	6:10	7:00
Abbott Ave & 69 St	7:34	8:24	9:12	10:02	10:52	11:42	12:32	1:22	2:12	3:02	3:52	4:42	5:32	6:22	7:12
Mt Sinai Hospital	7:47	8:37	9:25	10:15	11:05	11:55	12:45	1:35	2:25	3:15	4:05	4:55	5:45	6:35	7:22
Lincoln & Washington	8:04	8:54	9:44	10:34	11:24	12:14	1:04	1:54	2:44	3:34	4:24	5:14	6:04	6:54	7:37

NORTHBOUND *RUMBO NORTE DIREKSYON NÒ*	MORNING *MAÑANA / MATIN* AM					AFTERNOON *TARDE / APREMIDI* PM								
Lincoln & Washington	8:06	8:56	9:46	10:36	11:26	12:16	1:06	1:56	2:46	3:36	4:26	5:16	6:06	6:56
Mt Sinai Hospital	8:21	9:11	10:00	10:50	11:40	12:30	1:20	2:10	3:00	3:50	4:40	5:30	6:20	7:10
Collins Ave & 69 St	8:35	9:25	10:14	11:04	11:54	12:44	1:34	2:24	3:14	4:04	4:54	5:44	6:34	7:22
Collins Ave & 87 St	8:51	9:41	10:30	11:20	12:10	1:00	1:50	2:40	3:30	4:19	5:09	5:59	6:49	7:37

WEEKENDS | *FINES DE SEMANA* | *WIKENN*

SOUTHBOUND *RUMBO SUR DIREKSYON SID*	MORNING *MAÑANA / MATIN* AM						AFTERNOON *TARDE / APREMIDI* PM								
Collins Ave & 87 St	7:20	8:10	9:00	9:50	10:40	11:30	12:20	1:10	2:00	2:50	3:40	4:30	5:20	6:10	7:00
Abbott Ave & 69 St	7:30	8:20	9:11	10:01	10:51	11:41	12:31	1:21	2:11	3:01	3:51	4:41	5:31	6:21	7:10
Mt Sinai Hospital	7:40	8:30	9:22	10:12	11:02	11:52	12:42	1:32	2:22	3:12	4:02	4:52	5:42	6:32	7:20
Lincoln & Washington	7:54	8:44	9:38	10:28	11:18	12:08	12:58	1:48	2:38	3:28	4:18	5:08	5:58	6:48	7:33

NORTHBOUND *RUMBO NORTE DIREKSYON NÒ*	MORNING *MAÑANA / MATIN* AM					AFTERNOON *TARDE / APREMIDI* PM								
Lincoln & Washington	7:56	8:46	9:40	10:30	11:20	12:10	1:00	1:50	2:40	3:30	4:20	5:10	6:00	6:50
Mt Sinai Hospital	8:08	8:58	9:52	10:42	11:32	12:22	1:12	2:02	2:52	3:42	4:32	5:22	6:12	7:02
Collins Ave & 69 St	8:20	9:11	10:05	10:55	11:49	12:35	1:25	2:15	3:05	3:55	4:46	5:36	6:26	7:13
Collins Ave & 87 St	8:34	9:25	10:19	11:09	11:59	12:49	1:39	2:29	3:19	4:09	5:00	5:50	6:40	7:25



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MIAMI-DADE COUNTY

11.2016

SOUTHBOUND
RUMBO SUR/ DIREKSYON SID

WEEKDAYS • DIAS LABORABLES • LACÈMEN

	MORNING *MAÑANA/MATIN*					EVERY CADA/CHAK 12-15 min FROM DESDE/DE	EVERY CADA/CHAK 12-15 min TO HASTA/A	EVENING *ANOCHECER / ASWÈ*					OVERNIGHT *DE NOCHE A MAÑANA / LANNWIT LAN*				
TERMINAL AT AVENTURA MALL	4:16	4:53	5:13	5:28	5:46	5:59 AM	9:32 PM	9:54	10:22	10:47	11:12	11:42 PM	12:13 AM	12:43	1:43	2:43	3:43
COLLINS AVE & 193 ST	4:23	5:00	5:20	5:35	5:53	6:08	9:47	10:09	10:34	10:59	11:24	11:54	12:23	12:53	1:53	2:53	3:53
COLLINS AVE & 163 ST	4:29	5:06	5:26	5:41	5:59	6:16	9:56	10:17	10:42	11:07	11:32	12:02	12:30	1:00	2:00	3:00	4:00
BAL HARBOUR SHOPS	4:35	5:12	5:32	5:47	6:06	6:23	10:03	10:23	10:48	11:13	11:38	12:08	12:36	1:06	2:06	3:06	4:06
ABBOTT AVE & 69 ST MIAMI BEACH	4:44	5:21	5:41	5:56	6:16	6:33	10:12	10:32	10:57	11:22	11:47	12:16	12:44	1:14	2:14	3:14	4:14
INDIAN CREEK DR & 40 ST	4:52	5:29	5:49	6:07	6:27	6:44	10:22	10:42	11:07	11:32	11:57	12:24	12:52	1:22	2:22	3:22	4:22
LINCOLN RD & WASHINGTON AVE	4:58	5:35	5:55	6:15	6:35	6:52	10:30	10:50	11:15	11:40	12:05	12:30	12:58	1:28	2:28	3:28	4:28
ALTON RD & LINCOLN RD	5:03	5:40	6:01	6:21	6:41	6:58	10:37	10:57	11:22	11:47	12:11	12:36	1:04	1:34	2:34	3:34	4:34
ALTON RD & 6 ST	5:08	5:45	6:07	6:27	6:47	7:04	10:42	11:02	11:27	11:52	12:16	12:41	1:09	1:39	2:39	3:39	4:39
OMNI TERM / ARSHT MOVER	5:14	5:51	6:15	6:35	6:55	7:12	10:49	11:09	11:34	11:59	12:22	12:47	1:15	1:45	2:45	3:45	4:45
STEPHEN P. CLARK CENTER	5:24	6:05	6:29	6:49	7:10	7:27	10:59	11:19	11:44	12:09	12:32	12:57	1:25	1:55	2:55	3:55	4:55

NORTHBOUND
RUMBO NORTE/ DIREKSYON NO

WEEKDAYS • DIAS LABORABLES • LACÈMEN

	MORNING *MAÑANA/MATIN*		EVERY CADA/CHAK 12-15 min FROM DESDE/DE	EVERY CADA/CHAK 12-15 min TO HASTA/A	EVENING *ANOCHECER / ASWÈ*									OVERNIGHT *DE NOCHE A MAÑANA / LANNWIT LAN*					
STEPHEN P. CLARK CENTER	5:00	5:24	5:36 AM	7:48 PM	8:10	8:35	9:00	9:25	9:50	10:15	10:40	11:10	11:40 PM	12:10 AM	12:40	1:10	2:10	3:10	4:10
OMNI TERM / ARSHT MOVER	5:09	5:33	5:45	8:02	8:24	8:49	9:14	9:39	10:04	10:28	10:53	11:23	11:53	12:21	12:51	1:21	2:21	3:21	4:21
ALTON RD & 6 ST	5:16	5:40	5:52	8:11	8:33	8:58	9:23	9:48	10:11	10:35	11:00	11:30	12:00	12:28	12:58	1:28	2:28	3:28	4:28
17 ST & LENNOX AVE	5:22	5:46	5:58	8:19	8:41	9:06	9:31	9:56	10:18	10:42	11:07	11:37	12:06	12:34	1:04	1:34	2:34	3:34	4:34
LINCOLN RD & JAMES AVE	5:27	5:51	6:04	8:27	8:49	9:14	9:39	10:04	10:26	10:50	11:15	11:45	12:13	12:41	1:11	1:41	2:41	3:41	4:41
COLLINS AVE & 41 ST	5:33	5:57	6:12	8:37	8:59	9:24	9:49	10:14	10:36	11:00	11:25	11:55	12:21	12:49	1:19	1:49	2:49	3:49	4:49
COLLINS AVE & 69 ST	5:41	6:08	6:23	8:49	9:11	9:36	10:01	10:26	10:48	11:12	11:37	12:07	12:30	12:58	1:28	1:58	2:58	3:58	4:58
COLLINS AVE & 96 ST MIAMI BEACH	5:49	6:18	6:33	8:58	9:20	9:45	10:10	10:35	10:57	11:21	11:46	12:15	12:38	1:06	1:36	2:06	3:06	4:06	5:06
COLLINS AVE & SUNNY ISLES BLVD	5:55	6:26	6:41	9:06	9:28	9:53	10:17	10:42	11:04	11:28	11:53	12:21	12:44	1:12	1:42	2:12	3:12	4:12	5:12
COLLINS AVE & 193 ST	6:03	6:34	6:49	9:14	9:36	10:01	10:24	10:49	11:11	11:35	12:00	12:27	12:50	1:18	1:48	2:18	3:18	4:18	5:18
TERMINAL AT AVENTURA MALL	6:10	6:41	6:56	9:22	9:44	10:08	10:31	10:56	11:18	11:42	12:06	12:33	12:55	1:24	1:54	2:24	3:24	4:24	5:24

SOUTHBOUND
RUMBO SUR/
DIREKSYON SID

SATURDAY • SÁBADO • SAMDI

	MORNING *MAÑANA/MATEN*		APPROX APROX/APEPRÈ 17-20 min		APPROX APROX/APEPRÈ 15-17 min		EVENING *ANOCHECER ASWÈ*		OVERNIGHT *DE NOCHE A MAÑANA / LANNWIT LAN*				
			FROM DESDE/DE	TO HASTA/A	FROM DESDE/DE	TO HASTA/A							
TERMINAL AT AVENTURA MALL	4:20	4:49	5:08	10:37	10:52 AM	10:54 PM	11:19	11:45 PM	12:15 AM	12:45	1:45	2:45	3:45
COLLINS AVE & 193 ST	4:27	4:56	5:15	10:47	11:02	11:03	11:28	11:52	12:22	12:52	1:52	2:52	3:52
COLLINS AVE & 163 ST	4:34	5:03	5:22	10:57	11:12	11:11	11:36	11:59	12:29	12:59	1:59	2:59	3:59
BAL HARBOUR SHOPS	4:42	5:11	5:30	11:07	11:22	11:19	11:44	12:07	12:37	1:07	2:07	3:07	4:07
ABBOTT AVE & 69 ST MIAMI BEACH	4:50	5:19	5:38	11:18	11:33	11:28	11:52	12:15	12:45	1:15	2:15	3:15	4:15
INDIAN CREEK DR & 40 ST	4:59	5:28	5:47	11:32	11:47	11:38	12:01	12:24	12:54	1:24	2:24	3:24	4:24
LINCOLN RD & WASHINGTON AVE	5:05	5:34	5:53	11:42	11:57	11:45	12:08	12:31	1:01	1:31	2:31	3:31	4:31
ALTON RD & LINCOLN RD	5:08	5:37	5:56	11:48	12:03	11:48	12:11	12:34	1:04	1:34	2:34	3:34	4:34
ALTON RD & 6 ST	5:13	5:42	6:02	11:57	12:12	11:53	12:16	12:39	1:09	1:39	2:39	3:39	4:39
OMNI TERM / ARSHT MOVER	5:20	5:49	6:09	12:07	12:22	12:00	12:23	12:46	1:16	1:46	2:46	3:46	4:46
STEPHEN P. CLARK CENTER	5:29	6:00	6:20	12:20	12:35	12:09	12:32	12:55	1:25	1:55	2:55	3:55	4:55

NORTHBOUND
RUMBO NORTE/
DIREKSYON NÒ

SATURDAY • SÁBADO • SAMDI

	MORNING *MAÑANA MATEN*			APPROX APROX/APEPRÈ 20 min		APPROX APROX/APEPRÈ 15 min		APPROX APROX/APEPRÈ 17-20 min		EVENING *ANOCHECER ASWÈ*		OVERNIGHT *DE NOCHE A MAÑANA / LANNWIT LAN*					
				FROM DESDE/DE	TO HASTA/A	FROM DESDE/DE	TO HASTA/A	FROM DESDE/DE	TO HASTA/A								
STEPHEN P. CLARK CENTER	5:00	5:18	5:39	5:59 AM	12:19 PM	12:34	8:05	8:25	10:45	11:10	11:40 PM	12:10 AM	12:40	1:10	2:10	3:10	4:10
OMNI TERM / ARSHT MOVER	5:09	5:27	5:48	6:09	12:33	12:48	8:18	8:38	10:55	11:20	11:50	12:19	12:49	1:19	2:19	3:19	4:19
ALTON RD & 6 ST	5:17	5:35	5:56	6:18	12:46	1:01	8:28	8:48	11:05	11:30	12:00	12:27	12:57	1:27	2:27	3:27	4:27
17 ST & LENNOX AVE	5:22	5:40	6:02	6:24	12:55	1:10	8:38	8:58	11:13	11:38	12:06	12:33	1:03	1:33	2:33	3:33	4:33
LINCOLN RD & JAMES AVE	5:26	5:44	6:06	6:28	1:02	1:17	8:44	9:04	11:17	11:42	12:10	12:37	1:07	1:37	2:37	3:37	4:37
COLLINS AVE & 41 ST	5:33	5:51	6:14	6:36	1:14	1:29	8:55	9:15	11:26	11:51	12:17	12:44	1:14	1:44	2:44	3:44	4:44
COLLINS AVE & 69 ST	5:42	6:02	6:25	6:47	1:27	1:42	9:07	9:27	11:37	12:02	12:26	12:53	1:23	1:53	2:53	3:53	4:53
COLLINS AVE & 96 ST MIAMI BEACH	5:47	6:09	6:32	6:54	1:36	1:51	9:16	9:36	11:44	12:07	12:31	12:58	1:28	1:58	2:58	3:58	4:58
COLLINS AVE & SUNNY ISLES BLVD	5:54	6:17	6:40	7:02	1:44	1:59	9:24	9:44	11:51	12:14	12:38	1:05	1:35	2:05	3:05	4:05	5:05
COLLINS AVE & 193 ST	6:02	6:25	6:48	7:11	1:54	2:09	9:33	9:53	11:58	12:21	12:45	1:12	1:42	2:12	3:12	4:12	5:12
TERMINAL AT AVENTURA MALL	6:09	6:32	6:55	7:19	2:02	2:17	9:41	10:01	12:04	12:27	12:51	1:18	1:48	2:18	3:18	4:18	5:18

SOUTHBOUND
RUMBO SUR/ DIREKSYON SID

SUNDAY • DOMINGO • DIMANCH

	MORNING *MAÑANA/ MATEN*		APPROX APROX/APEPRÈ 12-15 min		APPROX APROX/APEPRÈ 15-17 min		EVENING *ANOCHECER / ASWÈ*							OVERNIGHT *DE NOCHE A MAÑANA / LANNWIT LAN*				
			FROM DESDE/DE	TO HASTA/A	FROM DESDE/DE	TO HASTA/A												
TERMINAL AT AVENTURA MALL	4:23	4:40	4:53 AM	5:57 PM	6:22	8:08	8:43	9:12	9:46	10:16	10:46	11:16	11:46 PM	12:16 AM	12:46	1:46	2:46	3:46
COLLINS AVE & 193 ST	4:30	4:47	5:00	6:09	6:34	8:18	8:53	9:22	9:53	10:23	10:53	11:23	11:53	12:23	12:53	1:53	2:53	3:53
COLLINS AVE & 163 ST	4:37	4:54	5:07	6:18	6:43	8:26	9:01	9:30	10:00	10:30	11:00	11:30	12:00	12:30	1:00	2:00	3:00	4:00
BAL HARBOUR SHOPS	4:45	5:02	5:15	6:28	6:53	8:34	9:09	9:38	10:08	10:38	11:08	11:38	12:08	12:38	1:08	2:08	3:08	4:08
ABBOTT AVE & 69 ST MIAMI BEACH	4:53	5:10	5:23	6:39	7:04	8:44	9:19	9:46	10:16	10:46	11:16	11:46	12:16	12:46	1:16	2:16	3:16	4:16
INDIAN CREEK DR & 40 ST	5:02	5:19	5:32	6:53	7:15	8:55	9:30	9:55	10:25	10:55	11:25	11:55	12:25	12:55	1:25	2:25	3:25	4:25
LINCOLN RD & WASHINGTON AVE	5:09	5:26	5:39	7:05	7:25	9:05	9:37	10:02	10:32	11:02	11:32	12:02	12:32	1:02	1:32	2:32	3:32	4:32
ALTON RD & LINCOLN RD	5:12	5:29	5:42	7:10	7:30	9:10	9:40	10:05	10:35	11:05	11:35	12:05	12:35	1:05	1:35	2:35	3:35	4:35
ALTON RD & 6 ST	5:17	5:34	5:47	7:18	7:38	9:18	9:45	10:10	10:40	11:10	11:40	12:10	12:40	1:10	1:40	2:40	3:40	4:40
OMNI TERM / ARSHT MOVER	5:24	5:41	5:54	7:25	7:45	9:25	9:51	10:16	10:46	11:16	11:46	12:16	12:46	1:16	1:46	2:46	3:46	4:46
STEPHEN P. CLARK CENTER	5:33	5:50	6:05	7:35	7:55	9:35	10:00	10:25	10:55	11:25	11:55	12:25	12:55	1:25	1:55	2:55	3:55	4:55

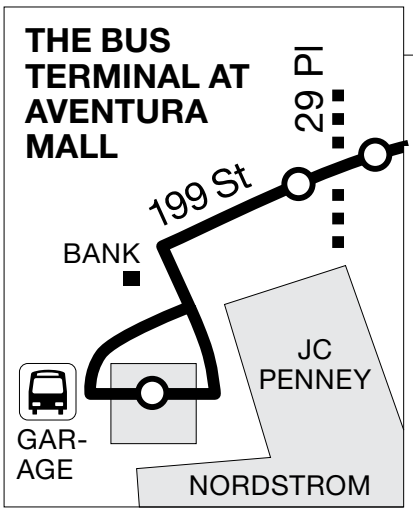
NORTHBOUND
RUMBO NORTE/ DIREKSYON NÒ

SUNDAY • DOMINGO • DIMANCH

	MORNING *MAÑANA MATEN*	APPROX APROX/APEPRÈ 15 - 17 min		EVENING *ANOCHECER / ASWÈ*										OVERNIGHT *DE NOCHE A MAÑANA / LANNWIT LAN*					
		FROM DESDE/DE	TO HASTA/A																
STEPHEN P. CLARK CENTER	5:00	5:19 AM	7:19 PM	7:39	7:59	8:19	8:40	9:10	9:40	10:10	10:40	11:10	11:40 PM	12:10 AM	12:40	1:10	2:10	3:10	4:10
OMNI TERM / ARSHT MOVER	5:08	5:27	7:30	7:50	8:10	8:30	8:51	9:21	9:49	10:19	10:49	11:19	11:49	12:19	12:49	1:19	2:19	3:19	4:19
ALTON RD & 6 ST	5:15	5:34	7:38	7:58	8:18	8:38	8:59	9:29	9:56	10:26	10:56	11:26	11:56	12:26	12:56	1:26	2:26	3:26	4:26
17 ST & LENNOX AVE	5:20	5:39	7:46	8:06	8:26	8:46	9:07	9:37	10:02	10:32	11:02	11:32	12:02	12:32	1:02	1:32	2:32	3:32	4:32
LINCOLN RD & JAMES AVE	5:24	5:43	7:52	8:12	8:32	8:52	9:13	9:42	10:07	10:37	11:07	11:37	12:07	12:37	1:07	1:37	2:37	3:37	4:37
COLLINS AVE & 41 ST	5:31	5:50	8:02	8:22	8:42	9:02	9:23	9:51	10:16	10:46	11:16	11:46	12:16	12:46	1:16	1:46	2:46	3:46	4:46
COLLINS AVE & 69 ST	5:41	6:01	8:13	8:33	8:53	9:13	9:34	10:01	10:26	10:56	11:26	11:56	12:26	12:56	1:26	1:56	2:56	3:56	4:56
COLLINS AVE & 96 ST MIAMI BEACH	5:46	6:07	8:21	8:41	9:01	9:21	9:41	10:08	10:33	11:03	11:33	12:03	12:33	1:03	1:33	2:03	3:03	4:03	5:03
COLLINS AVE & SUNNY ISLES BLVD	5:53	6:15	8:29	8:49	9:09	9:29	9:48	10:15	10:40	11:10	11:40	12:10	12:40	1:10	1:40	2:10	3:10	4:10	5:10
COLLINS AVE & 193 ST	6:01	6:23	8:36	8:56	9:16	9:36	9:55	10:22	10:47	11:17	11:47	12:17	12:47	1:17	1:47	2:17	3:17	4:17	5:17
TERMINAL AT AVENTURA MALL	6:08	6:30	8:44	9:04	9:24	9:42	10:01	10:28	10:53	11:23	11:53	12:23	12:53	1:23	1:53	2:23	3:23	4:23	5:23

120

BEACH MAX



199 St

Lehman Cswy

W Country Club Dr

Collins Ave

186 ST
183 ST
178 ST
174 ST
16900 BLK
ATLANTIC AVE
158 ST

SUNNY ISLES BEACH

HAULOVER PARK

short turn

HAULOVER MARINA

HARBOR WY
9700 BLK

LIMITED STOPS

Harding / Abbott / Ind. Crk Dr

94 ST
90 ST
85 ST

SURFSIDE

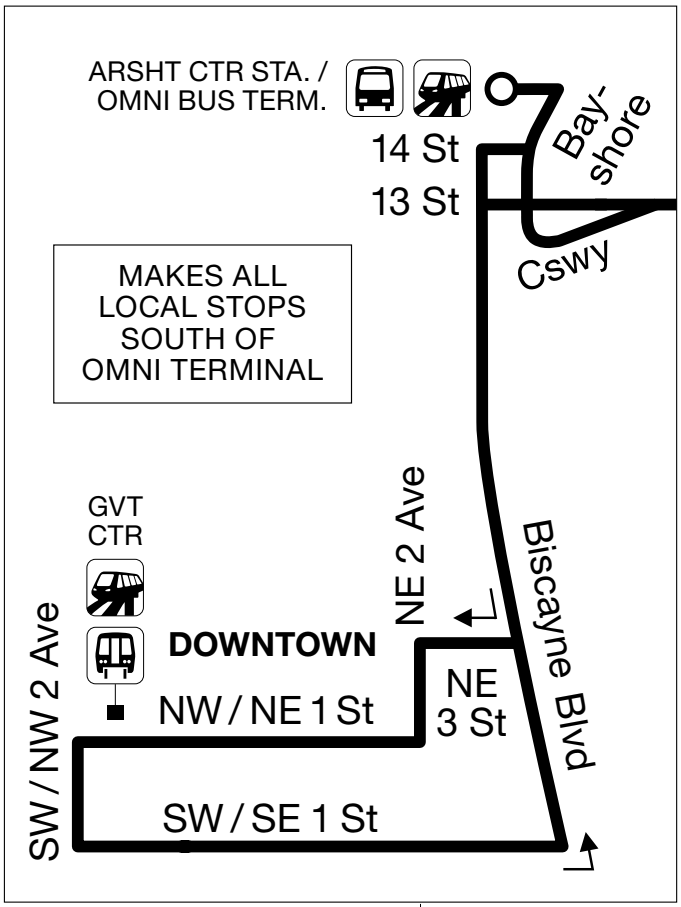
77 ST
72 ST
69 ST
63 ST

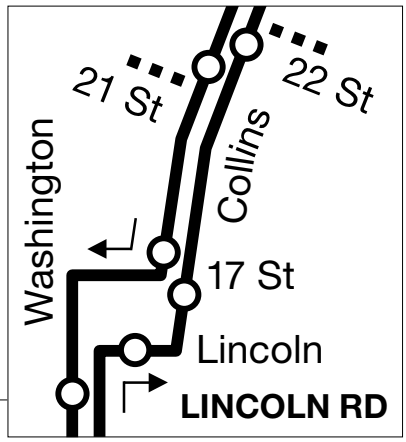
Collins Ave

NORTH BEACH

5600 BLK
4700 BLK
43 ST
41 ST
38 ST
31 ST
29 ST
24 ST

Collins / Ind. Crk





JUNGLE IS.

MacArthur Cswy

LENOX

13 ST
9 ST
5 St

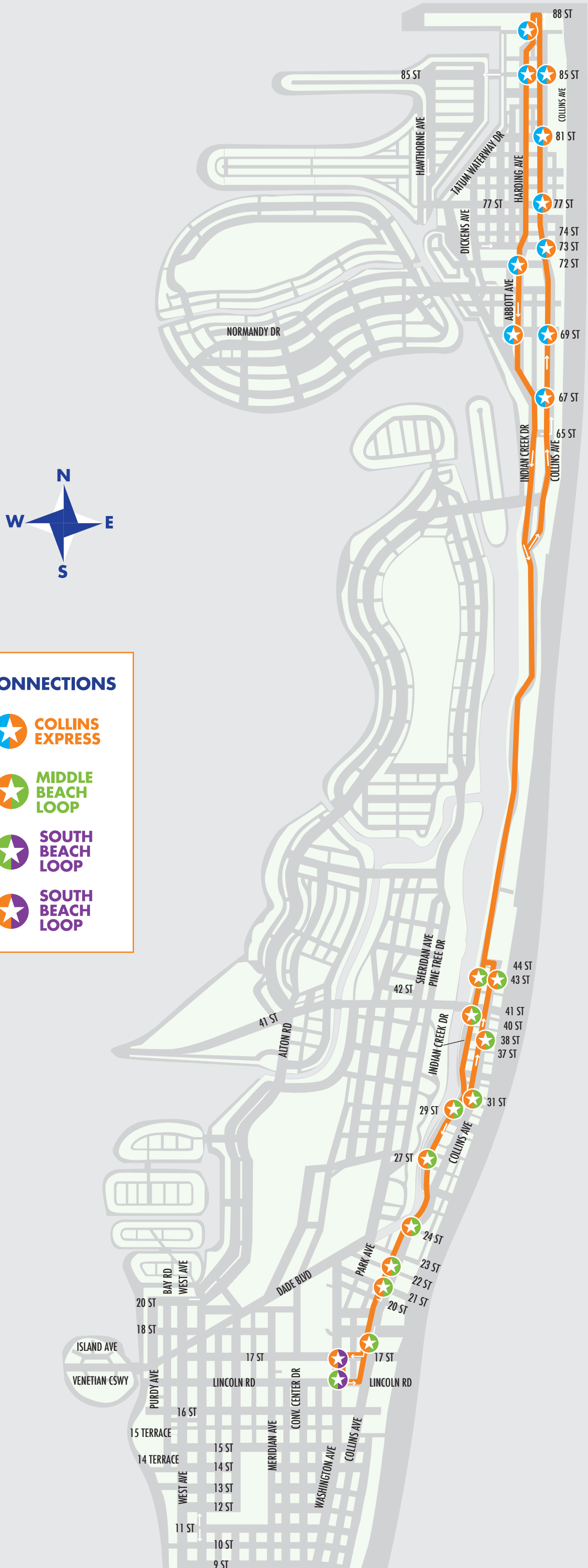
Wash. Ave

SOUTH BEACH

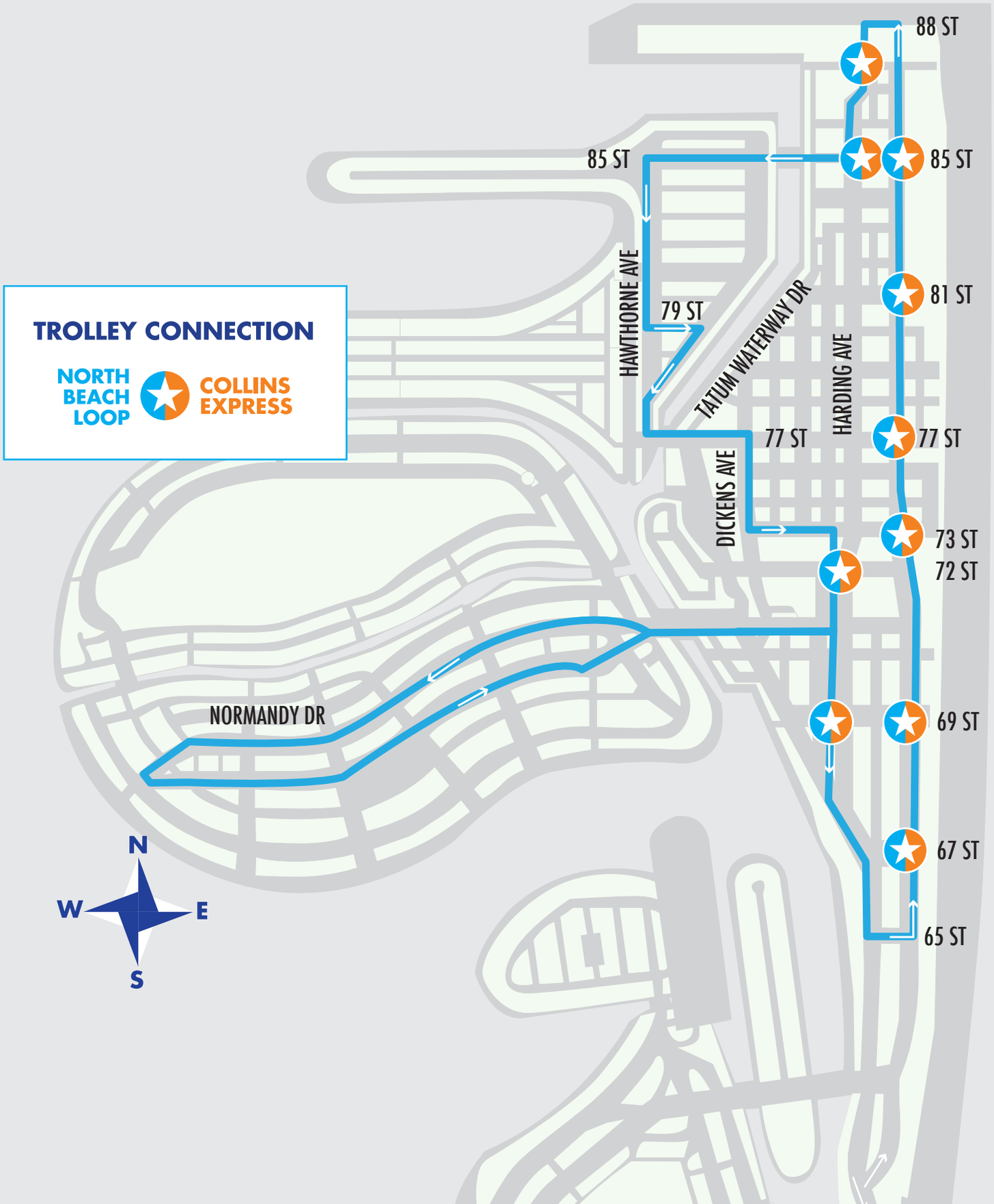
NORTH

03/2018

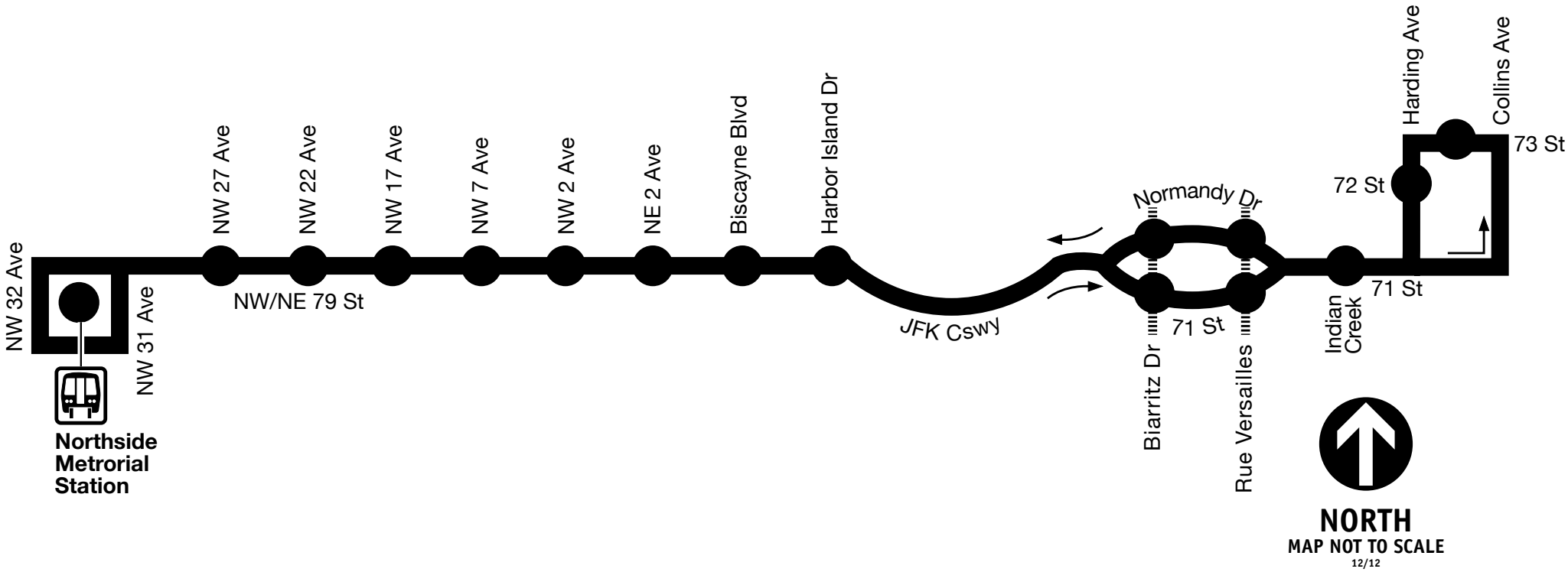
COLLINS EXPRESS



NORTH BEACH LOOP



Route 79 Street MAX



ATTACHMENT C

Directional Distribution

MOBILITY OPTIONS
2040 Miami-Dade Transportation Plan
EYES ON THE FUTURE

MIAMI-DADE **2040**

Long Range Transportation Plan

Directional Trip Distribution Report

October 23, 2014




MIAMI-DADE METROPOLITAN
PLANNING ORGANIZATION

Photo by Asad Gilani

Miami-Dade 2010 Directional Distribution Summary											
Origin TAZ			Cardinal Directions								Total
County TAZ	Regional TAZ		NNE	ENE	ESE	SSE	SSW	WSW	WNW	NNW	
616	3516	TRIPS	703	540	0	1,630	1,842	1,537	1,127	1,812	9,191
616	3516	PERCENT	7.7	5.9	0.0	17.7	20.0	16.7	12.3	19.7	
617	3517	TRIPS	0	10	0	0	10	0	0	20	40
617	3517	PERCENT	0.0	25.0	0.0	0.0	25.0	0.0	0.0	50.0	
618	3518	TRIPS	330	165	0	322	542	490	234	755	2,838
618	3518	PERCENT	11.6	5.8	0.0	11.4	19.1	17.3	8.3	26.6	
619	3519	TRIPS	158	0	0	588	1,822	1,431	915	2,017	6,931
619	3519	PERCENT	2.3	0.0	0.0	8.5	26.3	20.7	13.2	29.1	
620	3520	TRIPS	173	0	0	481	2,563	2,285	1,185	2,715	9,402
620	3520	PERCENT	1.8	0.0	0.0	5.1	27.3	24.3	12.6	28.9	
621	3521	TRIPS	750	0	271	730	1,325	1,008	570	1,178	5,832
621	3521	PERCENT	12.9	0.0	4.7	12.5	22.7	17.3	9.8	20.2	
622	3522	TRIPS	846	0	0	547	1,669	2,238	881	1,779	7,960
622	3522	PERCENT	10.6	0.0	0.0	6.9	21.0	28.1	11.1	22.4	
623	3523	TRIPS	865	314	362	1,036	918	2,053	953	915	7,416
623	3523	PERCENT	11.7	4.2	4.9	14.0	12.4	27.7	12.9	12.3	
624	3524	TRIPS	1,510	1,185	279	1,139	2,348	3,798	2,999	2,480	15,738
624	3524	PERCENT	9.6	7.5	1.8	7.2	14.9	24.1	19.1	15.8	
625	3525	TRIPS	904	151	0	713	469	1,573	902	1,029	5,741
625	3525	PERCENT	15.8	2.6	0.0	12.4	8.2	27.4	15.7	17.9	
626	3526	TRIPS	86	0	0	0	2,128	2,780	1,523	2,730	9,247
626	3526	PERCENT	0.9	0.0	0.0	0.0	23.0	30.1	16.5	29.5	
627	3527	TRIPS	268	0	0	0	2,782	2,384	1,028	1,982	8,444
627	3527	PERCENT	3.2	0.0	0.0	0.0	33.0	28.2	12.2	23.5	
628	3528	TRIPS	572	0	107	174	1,417	1,412	675	755	5,112
628	3528	PERCENT	11.2	0.0	2.1	3.4	27.7	27.6	13.2	14.8	
629	3529	TRIPS	2,040	549	224	1,939	1,885	5,257	2,755	2,552	17,201
629	3529	PERCENT	11.9	3.2	1.3	11.3	11.0	30.6	16.0	14.8	
630	3530	TRIPS	1,018	0	101	231	1,694	2,664	1,198	1,047	7,953
630	3530	PERCENT	12.8	0.0	1.3	2.9	21.3	33.5	15.1	13.2	
631	3531	TRIPS	422	0	0	0	1,119	1,636	433	741	4,351
631	3531	PERCENT	9.7	0.0	0.0	0.0	25.7	37.6	10.0	17.0	
632	3532	TRIPS	250	0	0	0	528	1,486	568	688	3,520
632	3532	PERCENT	7.1	0.0	0.0	0.0	15.0	42.2	16.1	19.6	
633	3533	TRIPS	330	0	0	0	1,045	1,375	758	776	4,284
633	3533	PERCENT	7.7	0.0	0.0	0.0	24.4	32.1	17.7	18.1	
634	3534	TRIPS	1,649	138	246	667	1,620	2,236	1,335	1,553	9,444
634	3534	PERCENT	17.5	1.5	2.6	7.1	17.2	23.7	14.1	16.4	
635	3535	TRIPS	768	0	0	0	1,106	1,912	1,284	1,253	6,323
635	3535	PERCENT	12.2	0.0	0.0	0.0	17.5	30.2	20.3	19.8	
636	3536	TRIPS	775	0	0	320	731	2,473	1,515	1,466	7,280

Miami-Dade 2040 Directional Distribution Summary											
Origin TAZ			Cardinal Directions								Total
County TAZ	Regional TAZ		NNE	ENE	ESE	SSE	SSW	WSW	WNW	NNW	
616	3516	TRIPS	887	556	0	1,876	1,859	1,836	1,423	2,112	10,549
616	3516	PERCENT	8.4	5.3	0.0	17.8	17.6	17.4	13.5	20.0	
617	3517	TRIPS	81	36	8	61	50	65	48	56	405
617	3517	PERCENT	20.0	8.9	2.0	15.1	12.4	16.1	11.9	13.8	
618	3518	TRIPS	245	194	0	283	618	438	292	527	2,597
618	3518	PERCENT	9.4	7.5	0.0	10.9	23.8	16.9	11.2	20.3	
619	3519	TRIPS	297	0	0	1,202	2,738	1,949	1,188	3,411	10,785
619	3519	PERCENT	2.8	0.0	0.0	11.2	25.4	18.1	11.0	31.6	
620	3520	TRIPS	59	0	0	691	2,586	2,659	1,388	3,229	10,612
620	3520	PERCENT	0.6	0.0	0.0	6.5	24.4	25.1	13.1	30.4	
621	3521	TRIPS	641	0	207	652	1,069	897	507	931	4,904
621	3521	PERCENT	13.1	0.0	4.2	13.3	21.8	18.3	10.3	19.0	
622	3522	TRIPS	1,041	0	0	1,013	1,705	2,290	939	1,768	8,756
622	3522	PERCENT	11.9	0.0	0.0	11.6	19.5	26.2	10.7	20.2	
623	3523	TRIPS	660	379	254	1,131	910	1,892	857	961	7,044
623	3523	PERCENT	9.4	5.4	3.6	16.1	12.9	26.9	12.2	13.6	
624	3524	TRIPS	1,731	1,417	382	1,244	2,520	3,891	3,312	2,764	17,261
624	3524	PERCENT	10.0	8.2	2.2	7.2	14.6	22.5	19.2	16.0	
625	3525	TRIPS	919	266	0	846	669	1,872	1,085	1,165	6,822
625	3525	PERCENT	13.5	3.9	0.0	12.4	9.8	27.4	15.9	17.1	
626	3526	TRIPS	108	0	0	0	3,832	3,818	1,879	4,428	14,065
626	3526	PERCENT	0.8	0.0	0.0	0.0	27.2	27.2	13.4	31.5	
627	3527	TRIPS	667	0	0	0	4,525	3,711	1,836	3,520	14,259
627	3527	PERCENT	4.7	0.0	0.0	0.0	31.7	26.0	12.9	24.7	
628	3528	TRIPS	555	0	175	168	1,097	1,212	405	514	4,126
628	3528	PERCENT	13.5	0.0	4.2	4.1	26.6	29.4	9.8	12.5	
629	3529	TRIPS	1,948	557	335	1,556	1,577	4,662	2,347	1,892	14,874
629	3529	PERCENT	13.1	3.7	2.3	10.5	10.6	31.3	15.8	12.7	
630	3530	TRIPS	1,398	0	223	373	1,797	2,860	1,105	1,164	8,920
630	3530	PERCENT	15.7	0.0	2.5	4.2	20.2	32.1	12.4	13.1	
631	3531	TRIPS	802	0	0	0	2,347	2,348	855	1,454	7,806
631	3531	PERCENT	10.3	0.0	0.0	0.0	30.1	30.1	11.0	18.6	
632	3532	TRIPS	603	0	0	0	1,583	2,022	1,057	919	6,184
632	3532	PERCENT	9.8	0.0	0.0	0.0	25.6	32.7	17.1	14.9	
633	3533	TRIPS	573	0	0	0	1,534	1,830	876	1,027	5,840
633	3533	PERCENT	9.8	0.0	0.0	0.0	26.3	31.3	15.0	17.6	
634	3534	TRIPS	1,445	71	167	680	1,389	1,930	1,212	1,265	8,159
634	3534	PERCENT	17.7	0.9	2.1	8.3	17.0	23.7	14.9	15.5	
635	3535	TRIPS	1,380	0	0	0	1,833	2,491	1,518	1,720	8,942
635	3535	PERCENT	15.4	0.0	0.0	0.0	20.5	27.9	17.0	19.2	
636	3536	TRIPS	1,729	0	0	727	1,308	2,610	1,308	1,181	8,863