October 3, 2017

Josiel Ferrer-Diaz, E.I. City of Miami Beach 1688 Meridian Avenue, Suite 801 Miami Beach, Florida 33139

Re: Flamingo Traffic Assessment Miami Beach, Florida

Dear Mr. Ferrer-Diaz:

Kimley-Horn and Associates, Inc. has performed a traffic assessment for the Flamingo redevelopment located on the west side of Bay Road and generally bounded by 14th Street and 16th Street in Miami Beach, Florida, refer to Attachment A for a location map. The site currently contains 426 residential condominiums and 1,261 apartments. The existing apartments will be consolidated into larger units but fewer units as part of the redevelopment.

The Flamingo redevelopment consists of 426 residential condominiums, 1,093 apartments, a 299-seat restaurant, and 6,318 square-feet of retail space. The redevelopment is expected to result in a reduction of traffic. A site plan is provided in Attachment A.

The traffic assessment's methodology is consistent with the requirements outlined by the City of Miami Beach. Methodology correspondence detailing the study requirements is included in Attachment B. The following sections summarize the valet service and rideshare operations, trip generation, valet analysis, rideshare analysis, pedestrian traffic operations analysis, parking analysis, and transportation demand management strategies.

SITE ACCESS, VALET SERVICE, AND RIDESHARE OPERATIONS

The site proposed for redevelopment is currently accessed via three (3) driveways along Bay Road, including the following:

- 1. A resident-only access is provided to the south tower (condominiums) via a gated driveway at 14th Terrace.
- 2. The center driveway at 15th Street provides access to the valet for residents and guests. All guests currently valet their vehicles.
- 3. A second resident and deliveries driveway for the north tower (apartments) is provided south of 16th Street.

The redevelopment will consist of the following access:

- 1. A resident self-park, resident valet, and rideshare access is provided to the south tower (426 condominiums and 154 apartments) via a gated driveway at 14th Terrace.
- 2. Please note that the 18 apartment units in the south tower fronting Bay Road will have designated self-parking spaces directly adjacent to the units and will not utilize valet services.

Kimley *Whorn*

- 3. A rideshare and valet drop-off/pick-up area will be provided for the north tower (939 apartments, 299-seat restaurant, and 6,318 square-foot retail area) with an ingress driveway south of 15th Terrace and egress at the existing driveway south of 16th Street. The center driveway will be removed as part of the redevelopment.
- 4. Please note that the eight (8) apartment units in the north tower fronting Bay Road will have designated self-parking spaces directly adjacent to the units and will not utilize valet services.
- 5. The resident-only driveway for the north tower remains south of 16th Street. Note that this driveway will also be used for deliveries, food deliveries, and short-term retail parking.

A site plan depicting the driveways, valet, and rideshare areas is provided in Attachment A. The Flamingo redevelopment will provide two (2) designated drop-off/pick-up areas located on the north and south sides of the property for both valet and rideshare/taxi modes. The south tower drop-off/pick-up area, located at the existing 14th Terrace driveway, is expected to serve the adjacent 426 condominiums and 154 apartments and provides a dedicated valet drop-off/pick-up lane with an approximate vehicle queuing capacity of 75 feet (approximately three [3] vehicle lengths) and a dedicated rideshare/taxi drop-off/pick-up lane with an approximate vehicle queuing capacity of 66 feet (approximately three [3] vehicle lengths). Valeted vehicles will be parked in the south parking garage and/or surface parking lot.

The north tower drop-off/pick-up area, with an ingress driveway south of 15th Terrace and egress at the existing driveway south of 16th Street, is expected to serve the adjacent 939 apartments, 299-seat restaurant, and 6,318 square-foot retail area and provides a dedicated valet drop-off station, valet pick-up station, and a dedicated rideshare/taxi drop-off/pick-up lane. The north tower valet drop-off/pick-up area provides a valet drop-off station with an approximate vehicle queuing capacity of 130 feet (approximately seven [7] vehicle lengths), a valet pick-up station with an approximate vehicle queuing capacity of 50 feet (approximately two [2] vehicle lengths), and a rideshare/taxi drop-off/pick-up area containing two (2) 100-foot vehicle queuing lanes (approximately 10 vehicle lengths) and one (1) by-pass lane with a storage capacity of four (4) vehicles. Valeted vehicles will be parked in the north parking garage. Please note that due to the configuration of the parking garage, more than 10 vehicles may be stacked within the drive aisle of the north valet pick-up area.

Self-parking is provided on-site for residents. Residents access the south parking garage and surface parking lot via the redevelopment's south access driveway at the intersection of Bay Road and 14th Terrace. Residents access the north parking garage via the redevelopments north access driveway along Bay Road between 15th Terrace and 16th Street. All restaurant and retail patrons are expected to valet. However, 16 parking spaces for short-term retail self-parking and food deliveries will also be provided. Attachment C contains graphics illustrating drop-off/pick-up area stacking, proposed valet routes to and from the site's parking garages, and rideshare/taxi pick-up/drop-off routes.

RIDESHARE ANALYSIS

A rideshare/taxi accumulation analysis was previously conducted and is included in Attachment D. The purpose of the rideshare/taxi accumulation analysis was to determine the amount rideshare/taxi space needed to accommodate demand. Data for the previously submitted accumulation analysis *Flamingo Miami Beach Shared-Ride/Taxi Drop-off/Pick-up Accumulation Analysis*, April 6, 2017 was collected during a seven (7) hour period from Friday, March 24, 2017 at 6:00 P.M. to Saturday March 25, 2017

at 1:00 A.M. in one (1) minute intervals. Results of the analysis indicate that a maximum vehicle accumulation of two (2) vehicles was observed on Bay Road between 14th Street and 15th Street, in the area that will be serviced by the south tower drop-off/pick-up area. A maximum vehicle accumulation of nine (9) vehicles was observed on Bay Road between 15th Street and 16th Street, in the area serviced by the north tower rideshare/taxi drop-off/pick-up area. Note that the proposed redevelopment is providing stacking distance for three (3) vehicles at the south tower drop-off/pick-up area.

TRIP GENERATION ANALYSIS

Trip generation calculations for the proposed redevelopment were performed using the Institute of Transportation Engineers' (ITE's) *Trip Generation Manual*, 9th Edition. ITE Land Use Code (LUC) 230 (Residential Condominium/Townhouse) was utilized for the proposed 426 condominium residential units, LUC 220 (Apartment) was utilized for the proposed 1,093 apartments, LUC 931 (Quality Restaurant) was utilized for the 299-seat restaurant, and LUC 820 (Shopping Center) was utilized for the 6,318 square-foot retail area. The redevelopment has minimal self-parking for non-residents. Therefore, it is anticipated that the non-residents that will use the facility will walk and not drive to the site. LUC 220 (Apartment) and LUC 230 (Residential Condominium/Townhouse) were utilized for the existing land uses. Project trips were estimated for the A.M. and P.M. peak hours.

A multimodal (public transit, bicycle, and pedestrian) factor based on US Census *Means of Transportation to Work* data was reviewed for the census tract containing the redevelopment. A multimodal factor of 19.6 percent (19.6%) was determined for the area based on the census data for this tract. However, based on City of Miami Beach input, a multimodal reduction factor of 10.0 percent (10.0%) was applied to the trip generation. It is expected that residents and guests will choose to walk, bike, or use public transit to and from the proposed redevelopment. City of Miami Beach Trolley's Alton/West Loop route provides service along West Avenue. Miami-Dade Transit (MDT) Metrobus route 123 serves the study area along West Avenue.

A portion of the trips generated by the development will be captured internally within the site based on the interaction between the residential and restaurant land uses. Internal capture rates were based upon values contained in ITE's, *Trip Generation Handbook*, August 2014. An internal capture rate of 2.1 percent (2.1%) was calculated during the A.M. peak hour and 10.8 percent (10.8%) during the P.M. peak hour.

The Flamingo redevelopment is expected to result in a net reduction of 54 A.M. peak hour trips and a net reduction of 24 P.M. peak hour trips. Detailed trip generation calculations and US Census *Means of Transportation to Work* data are included in Attachment E. Table 1 provides a summary of the trip generation for the proposed redevelopment.

| Table 1: Trip Generation Summary | | | | | | | | | | | | |
|--|-----|-----|-------|-----|-----|-------|--|--|--|--|--|--|
| Development Plan A.M. Peak Hour P.M. Peak Hour | | | | | | | | | | | | |
| Development Plan | In | Out | Total | In | Out | Total | | | | | | |
| Existing Development | 137 | 571 | 708 | 535 | 282 | 817 | | | | | | |
| Proposed Redevelopment South | 39 | 177 | 216 | 165 | 81 | 247 | | | | | | |
| Proposed Redevelopment North | 96 | 342 | 438 | 356 | 191 | 546 | | | | | | |
| Net Trip Generation | -2 | -52 | -54 | -14 | -10 | -24 | | | | | | |

VALET ANALYSIS

The Flamingo redevelopment will be served by two (2) valet and rideshare/taxi drop-off/pick-up areas. Valet vehicles from the south tower drop-off/pick-up area will be driven by a valet attendant to the south tower surface parking lot or parking garage. Valet vehicles from the north tower drop-off/pick-up area will be driven by a valet attendant to the north tower parking garage. Some residents and all guests are expected to valet vehicles with a portion of residents self-parking. All restaurant and retail patrons are expected to valet.

The proportion of valet and self-park vehicles was determined based on existing conditions at the project site. Valet and self-park data from the existing development were collected on Friday, June 9, 2017 between 4:00 P.M. to 8:00 P.M. to determine the ratio of valet to self-parked vehicles. The collected data indicated that 4 percent (4%) of peak hour trips are valeted and 96 percent (96%) are self-parked. However, to provide a conservative analysis, the analysis assumed that 10 percent (10%) of residential trips of the proposed redevelopment will be valeted and 100 percent (100%) of the restaurant and retail trips of the proposed redevelopment will be valeted. It was determined that approximately 16 valet drop-off vehicles and eight (8) valet pick-up vehicles are expected at the south tower valet drop-off/pick-up area while 85 valet drop-off vehicles and 46 valet pick-up vehicles are expected at the north tower valet drop-off/pick-up area during P.M. peak hour based on assuming 10 percent (10%) of residential trips is contained in Table 2. valet Detailed valet utilization data is included in Attachment F.

| Table 2: Expected Valet Trips | | | | | | | | | | | |
|-------------------------------|---|--------|----------|---------|--|--|--|--|--|--|--|
| Valet Station | Land Use Se | erved | Drop-Off | Pick-Up | | | | | | | |
| South Valet Station | 426 Condominiur 136 Apartments | ms and | 16 | 8 | | | | | | | |
| North Valet Station | 931 Apartments, 299-Seat Restau 6,318 sf Retail A | | 85 | 46 | | | | | | | |
| | | Total | 101 | 54 | | | | | | | |

The valet queuing operations analysis was performed based on the methodology outlined in ITE's *Transportation and Land Development*, 1988. The analysis was performed to determine if valet operations could accommodate vehicular queues without blocking travel lanes on Bay Road.

Valet Assumptions

The queuing analysis used the multiple-channel waiting line model with Poisson arrivals and exponential service times. The queuing analysis is based on the coefficient of utilization, ρ , which is the ratio of the average vehicle arrival rate over the average service rate multiplied by the number of channels.

Valet attendants for the south tower will be stationed at the south tower and will walk/run to and from the south surface lot and parking garage. Valet attendants for the north tower will be stationed at the north tower and will walk/run to and from the north garage. A valet drop-off trip service time was calculated based on the time it would take a valet parking attendant to obtain and park a drop-off vehicle for both south and north valet areas. Similarly, a valet pick-up trip service time was calculated based

on the time it would take a valet parking attendant to bring a parked vehicle back to a patron for both south and north valet areas.

The calculated service time for vehicles valeted at the south tower is 3.7 minutes for valet drop-off and 3.6 minutes for valet pick-up. Similarly, the calculated service time for vehicles valeted at the north tower is 2.6 minutes for valet drop-off and pick-up. To provide a conservative analysis a 4.0 minute service time was used for the south tower valet drop-off and pick-up operations and a 3.0 minute service time was used for the north tower valet drop-off and pick-up operations. Detailed trip length calculations are included in Attachment G.

If the coefficient of utilization (average service rate/valet attendant service capacity) is greater than one (>1), the calculation methodology does not yield a finite queue length. This result indicates overcapacity conditions for the valet area. The valet attendant service capacity is the number of total trips a valet attendant can make in a one-hour period multiplied by the number of valet attendants.

The analysis determined the required queue storage, M, which is exceeded P percent of the time. Since this analysis seeks to examine if the queue length exceeds the storage provided, at a level of confidence of 95 percent (95%). Three (3) vehicle drop-off/pick-up spaces are provided at the south tower drop-off/pick-up area. Seven (7) vehicle drop-off spaces and two (2) designated pick-up spaces are provided at north tower drop-off/pick-up area. However, please note that due to the configuration of the parking garage, more than 10 vehicles may be stacked within the drive aisle of the north valet area for valet pick-up.

Valet Analysis

An iterative approach was used to determine the number of valet attendants required to accommodate the proposed redevelopment demand during the analysis hour and ensure that the 95th percentile valet queue does not extend beyond the designated valet service area. Detailed valet analysis worksheets are provided in Attachment F.

Results of the valet operations analysis demonstrate that three (3) valet attendants would be required at the south tower and ten (10) valet attendants would be required at the north tower so that the vehicle queues from the drop-off/pick-up areas do not extend beyond the designated valet areas.

Valet Conclusion

Based on the valet operations analysis performed, it was determined that the 95th percentile valet queues will not extend beyond the valet drop-off/pick-up areas. Based upon the conservative assumptions applied to the traffic demand conditions, it was estimated that three (3) valet attendants may be required at the south tower valet drop-off/pick-up area and ten (10) valet attendants may be required at the north tower valet drop-off/pick-up area. It should be noted that projected vehicular volumes and estimated valet processing times were conservatively assumed in the analysis. If it is determined that valet processing times can be performed more efficiently and/or actual traffic volumes are lower than projected, a reduced number of valet attendants may be adequate to serve the site.

PEDESTRIAN ASSESSMENT

A graphic depicting pedestrian circulation paths within the proposed redevelopment is included in Attachment H. Pedestrian features including sidewalks, crosswalks, and pedestrian amenities were

evaluated along Bay Road between 14th Street and south of 16th Street. A detailed evaluation of pedestrian features is provided below:

Bay Road between 14th Street and south of 16th Street

Bay Road between 14th Street and south of 16th Street functions as a two-lane, undivided roadway with on-street parking along the east and west sides of Bay Road. Sidewalk widths vary from five (5) feet to 13 feet along the east and west side of Bay Road.

14th Street and Bay Road Intersection

The intersection of 14th Street and Bay Road operates under one-way, stop-controlled conditions and is located southeast of the proposed redevelopment. 14th Street functions as a two-lane, undivided roadway with on-street parking along the north and south sides of 14th Street. Sidewalks vary from five (5) to eight (8) feet along the north and south sides of 14th Street. Pedestrian ramps are provided for the crosswalk at the north leg of the intersection.

14th Terrace/South Project Driveway and Bay Road Intersection

The intersection of 14th Terrace and Bay Road operates under two-way, stop-controlled conditions and is located east of the proposed redevelopment. 14th Terrace functions as a two-lane, undivided roadway and aligns with the redevelopments south access driveway. Sidewalks vary from five (5) to 13 feet along the north and south sides of 14th Terrace. Crosswalks are provided at the east and west legs of the intersection. Additionally, pedestrian ramps with detectable warning surfaces are provided at all corners of the intersection.

Flamingo Way and Bay Road Intersection

The intersection of Flamingo Way and Bay Road operates under one-way, stop-controlled conditions and is located to the east of the proposed redevelopment. Flamingo Way functions as a two-lane, undivided roadway. Sidewalks vary from five (5) to 13 feet along the north and south sides of Flamingo Way. Additionally, a crosswalk with detectable warning surface pedestrian ramps is provided at the east leg of the intersection.

15th Street/Center Project Driveway and Bay Road Intersection

The intersection of 15th Street and Bay Road operates under two-way, stop-controlled conditions and is located to the east of the proposed redevelopment. 15th Street functions as a two-lane, undivided roadway with on-street parking located along the north and south sides of 15th Street. Sidewalk widths vary from eight (8) to 13 feet along the north and south sides of 15th Street. Additionally, crosswalks with detectable warning surface pedestrian ramps are provided at all legs of the intersection. Please note that high-emphasis crosswalks with in-street pedestrian crossing signs are provided on the north and south sides of 15th Street.

Furthermore, pedestrian count data was collected at the intersection of 15th Street and Bay Road on Friday, June 9, 2017 between 4:00 P.M. and 8:00 P.M. to determine the placement of crosswalks at the intersection of 15th Street and Bay Road. The collected pedestrian data was adjusted to account for seasonality using the appropriate Florida Department of Transportation (FDOT) seasonal factors for Miami Beach of 1.13. The data indicates that approximately 50 percent (50%) of pedestrian crossing

the intersection of 15th Street and Bay Road do so at the north leg of the intersection. Figure 1 summarizes the peak hour pedestrian data.

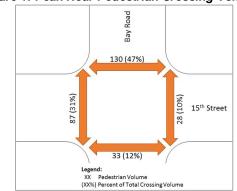


Figure 1: Peak Hour Pedestrian Crossing Volumes

As shown in Figure 1, pedestrians utilize the pedestrian crossings along the four legs of the intersection. Please note that the redevelopment will reconfigure the intersection and eliminate the existing center driveway along the west leg of the intersection thereby improving pedestrian connectivity. Based on the pedestrian volumes it is recommended to maintain both high-emphasis crosswalks on Bay Road, north and south of 15th Street and the crosswalk on the east side Bay Road on 15th Street. Pedestrian data and FDOT seasonal factors are contained in Attachment I.

15th Terrace and Bay Road Intersection

The intersection of 15th Terrace and Bay Road operates under one-way, stop-controlled conditions and is located to the east of the proposed redevelopment. 15th Terrace functions as a two-lane, undivided roadway with on-street parking located along the north and south sides of 15th Terrace. Sidewalk widths vary from five (5) to 13 feet along the north and south sides of 15th Terrace. Additionally, a crosswalk with detectable warning surface pedestrian ramps is provided at the east leg of the intersection.

North Project Driveway and Bay Road Intersection

The intersection of the north project driveway and Bay Road operates under one-way, stop-controlled conditions and is located to the northeast of the proposed redevelopment. A crosswalk with detectable warning surface pedestrian ramps with is provided at the west leg of the intersection.

PARKING ASSESSMENT

The existing development provides 30 scooter parking spaces, 60 bicycle parking spaces (10 shortterm and 50 long-term), and 2,032 passenger vehicle parking spaces. The proposed redevelopment will provide 98 scooter parking spaces (an increase of 68 spaces), 100 long-term bicycle parking spaces and 12 short-term bicycle parking spaces (an increase of 52 spaces), and 2,032 passenger vehicle parking spaces, including16 short-term (food delivery/retail) parking spaces.

TRANSPORTATION DEMAND MANAGEMENT STRATEGIES

Transportation Demand Management (TDM) strategies are proposed to reduce the impacts of the project traffic on the surrounding roadway network. Typical measures promote bicycling and walking, encourage car/vanpooling and offer alternatives to the typical workday hours. The applicant will provide 100 long-term on-site bicycle parking spaces as well as 12 short-term on-site bicycle parking spaces.

A Citibike station with 24 bike docks will also be provided on-site. The applicant will also commit to providing transit information within the site including route schedules and maps, subsidized transit passes for the 30 employees, and designated parking spaces for scooters. The applicant is also contemplating providing designated parking spaces for carpool/vanpool vehicles within the parking garages. Note that the Mr. Lee Hodges will be coordinating the implementation of the TDM strategies on behalf of the applicant. Mr. Hodges may be reached at lee.hodges@aimco.com.

A graphic indicating the locations of proposed bicycle and scooter parking, and Citibike station is included in Attachment H.

CONCLUSION

The analysis results indicate that the proposed redevelopment is expected to result in a reduction of 54 net new vehicle trips during the A.M. peak hour and a reduction of 24 net new vehicle trips during the P.M. peak hour.

The rideshare/taxi accumulation analysis indicated that a maximum vehicle accumulation of two (2) vehicles was observed on Bay Road between 14th Street and 15th Street, in the area serviced by the south tower drop-off/pick-up area and a maximum vehicle accumulation of nine (9) vehicles was observed on Bay Road between 15th Street and 16th Street, in the area serviced by the north tower drop-off/pick-up area. Note that the proposed redevelopment is providing stacking distance for three (3) vehicles at the south tower rideshare drop-off/pick-up area.

The valet operations analysis performed determined that the 95th percentile valet queues will not extend beyond the valet drop-off/pick-up areas. Based upon the conservative assumptions applied to the traffic demand conditions, it was estimated that three (3) valet attendants may be required at the south tower valet drop-off/pick-up area and ten (10) valet attendants may be required at the north tower valet drop-off/pick-up area.

As a result of the pedestrian evaluation, it was determined that pedestrian amenities such as sidewalks and crosswalks are provided in the vicinity of the proposed redevelopment. Furthermore, data collected at the intersection of 15th Street and Bay Road indicates that pedestrians utilize the pedestrian crossings along the four legs of the intersection. However, note that the redevelopment will reconfigure the intersection and eliminate the existing center driveway along the west leg of the intersection thereby improving pedestrian connectivity. Based on the pedestrian volumes it is recommended to maintain both high-emphasis crosswalks on Bay Road, north of 15th Street and south of 15th Street and the crosswalk on the east side Bay Road on 15th Street.

The parking assessment indicated that the existing development provides 30 scooter parking spaces, 60 bicycle parking spaces, and 2,032 passenger vehicle parking spaces. The proposed redevelopment will provide 98 scooter parking spaces (an increase of 68 spaces), 100 long-term bicycle parking spaces and 12 short-term bicycle parking spaces (an increase of 52 spaces), and 2,032 passenger vehicle parking spaces, including16 short-term (food delivery/retail) parking spaces.

Josiel Ferrer-Diaz, E.I., October 3, 2017, Page 9

TDM strategies are also proposed as part of the redevelopment to reduce the impacts of the project traffic on the surrounding roadway network. The applicant will provide 100 long-term on-site bicycle parking spaces as well as 12 short-term on-site bicycle parking spaces. A Citibike station with 24 bike docks will also be provided on-site. The applicant will also commit to providing transit information within the site including route schedules and maps, subsidized transit passes for employees, and designated parking spaces for scooters. The applicant is also contemplating designated parking spaces for carpool/vanpool vehicles within the parking garages.

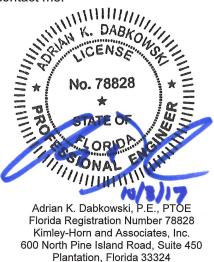
If you have any questions regarding this analysis, please feel free to contact me.

Sincerely,

KIMLEY-HORN AND ASSOCIATES, INC.

Adrian K. Dabkowski, P.E., PTOE Associate

Attachments



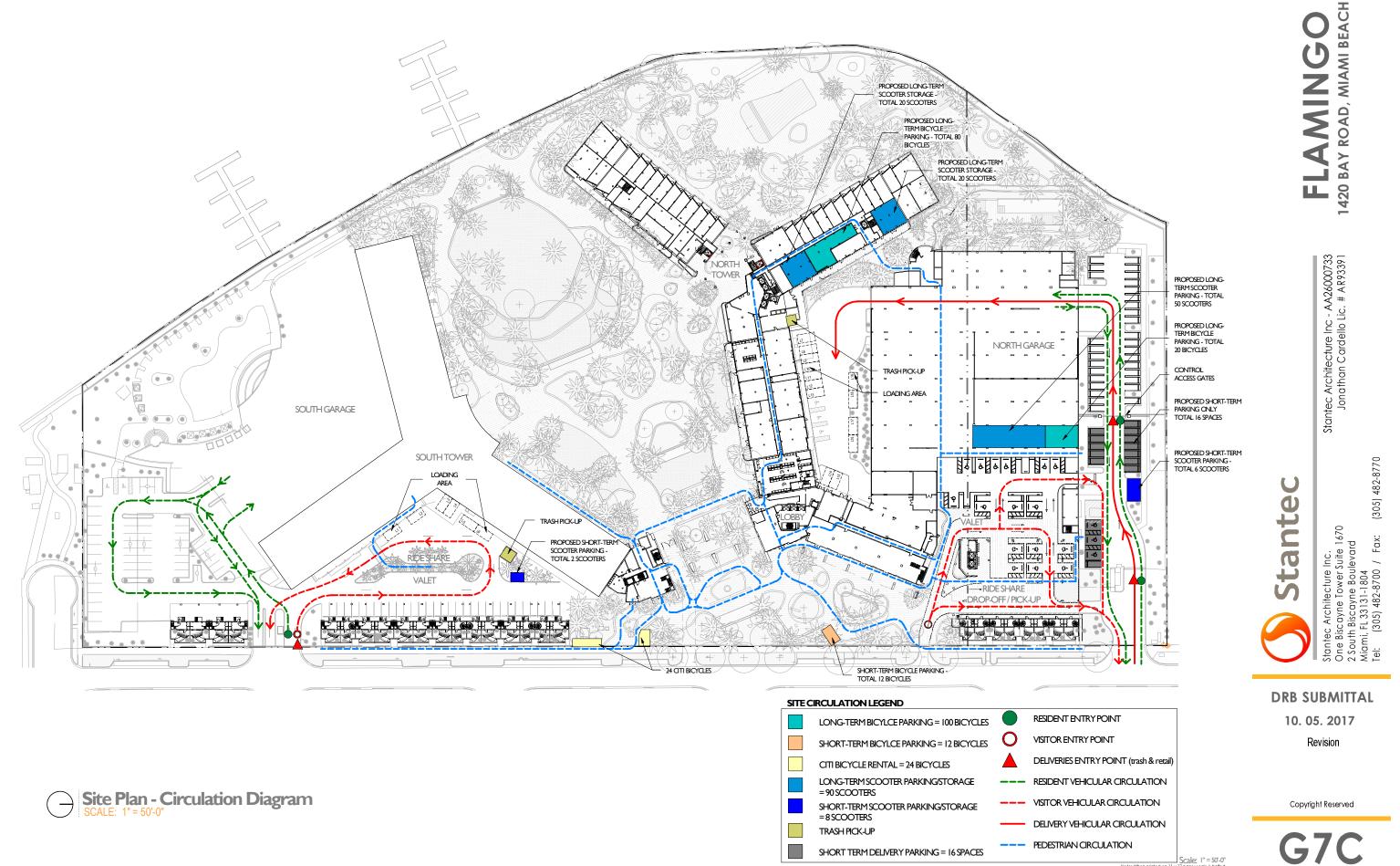
CA # 00000696

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Attachment A:

Conceptual Site Plan and Location Map





CIRCULATION DIAGRAM

Scale: 1" = 50'-0" Note: When printed on 11 x 17 paper scale is halfed

Attachment B:

Methodology Correspondence

Kanaan, Omar

| From: | Akcay, Firat <firatakcay@miamibeachfl.gov></firatakcay@miamibeachfl.gov> |
|--------------|--|
| Sent: | Monday, June 19, 2017 10:49 AM |
| То: | Dabkowski, Adrian; Ferrer, Josiel |
| Cc: | Matthew Amster; Kanaan, Omar |
| Subject: | RE: Flamingo Traffic Study Methodology |
| Attachments: | 20925.fo.pdf; 20925.oct.pdf; DRB9191 FINAL ORDER.PDF; DRB9191.NOV.PDF; |
| | B9803540 FULL PLANS - Grand Flamingon SITEPLAN ONLY.PDF; DRB20925_ |
| | 02Oct2007.pdf |

Hello Adrian,

As per the attached DRB order and based on direction received from the Planning Department, all calculations regarding the internal queueing shall include the drop-off lane approved by the board in 2007 and not current conditions (guard house and gate)

We also require the internal queuing to reflect the restaurant/retail valet services, as well as the locations for delivery vehicles and their queuing.

Thank you

MIAMIBEACH

Firat Akcay, *Transportation Analyst* TRANSPORTATION DEPARTMENT 1688 Meridian Avenue, Suite 801, Miami Beach, FL 33139 Tel: 305-673-7000 X 6839 / <u>www.miamibeachfl.gov</u>

We are committed to providing excellent public service and safety to all who live, work and play in our vibrant, tropical, historic, community.



From: Dabkowski, Adrian [mailto:Adrian.Dabkowski@Kimley-horn.com] Sent: Monday, June 05, 2017 7:33 PM To: Ferrer, Josiel Cc: Akcay, Firat; Matthew Amster; Kanaan, Omar Subject: Flamingo | Traffic Study Methodology

This message's contents have been archived by the Barracuda Message Archiver. 06 05 17 Flamingo - Methodology Memo.pdf (3.1M)

Good evening Josiel:

Based on the discussions at our meeting last Friday for the Flamingo redevelopment, attached is our proposed methodology. Please let me know if the City has any comments.

Thank you Adrian

Kanaan, Omar

| From: | Dabkowski, Adrian |
|--------------|--|
| Sent: | Monday, July 10, 2017 1:06 PM |
| То: | 'Ferrer, Josiel'; 'Matthew Amster' |
| Cc: | Akcay, Firat; Claudia Lamus (clamus@fteinc.net); Oliver Rodrigues (oliver@fteinc.net); |
| | Belush, Michael; Murphy, James |
| Subject: | RE: Flamingo Traffic Study Methodology |
| Attachments: | Flamingo Updated Trip Generation_07 10 17.pdf |

Good afternoon Josiel:

In order to provide a conservative analysis we will analyze the retail space (6,318 square-feet) as ITE Land Use Code (LUC) Shopping Center in order to provide the redevelopment flexibility to include a wider range of retail uses. We have updated the trip generation for the redevelopment to include the retail space. Please note that during the A.M. peak hour the redevelopment results in a 54 trip reduction and a 24 trip reduction during the P.M. peak hour when compared to the existing development program.

Thank you Adrian

Adrian K. Dabkowski, P.E., PTOE Kimley-Horn | 600 North Pine Island Road, Suite 450, Plantation, FL 33324 Direct: 954-535-5144 | Main: 954-535-5100

From: Ferrer, Josiel [mailto:JOSIELFERRER@miamibeachfl.gov]

Sent: Thursday, July 06, 2017 11:31 AM To: Dabkowski, Adrian <Adrian.Dabkowski@Kimley-horn.com>; 'Matthew Amster' <MAmster@brzoninglaw.com> Cc: Akcay, Firat <FiratAkcay@miamibeachfl.gov>; Claudia Lamus (clamus@fteinc.net) <clamus@fteinc.net>; Oliver Rodrigues (oliver@fteinc.net) <oliver@fteinc.net>; Belush, Michael <MichaelBelush@miamibeachfl.gov>; Murphy,

James <JamesMurphy@miamibeachfl.gov>

Subject: RE: Flamingo | Traffic Study Methodology

Adrian,

We have been discussing internally whether the retail could be considered ancillary and it is our opinion that it can be considered ancillary depending on the use. If the proposed use is a neighborhood retail, daycare, dry-cleaners or a similar use, then the use can be considered ancillary; however, the commercial license approved by the City would also permit entertainment use which we could not consider to be ancillary even if there is limited parking. As you know, Quality Restaurant and Drinking Place patrons are relying heavily on ride sharing services which produces vehicular trips. To get over this hurdle, we can allow you to consider it ancillary for this study; however, there will be a condition on the development order requiring that a follow-up traffic memo be completed once the tenant is identified. In addition, there should be short term parking identified for this retail if it is a high turn over establishment.

We have no further comments on the methodology.

Respectfully,

Memorandum

To: Josiel Ferrer-Diaz, E.I. City of Miami Beach

From: Adrian K. Dabkowski, P.E., PTOE

Date: June 8, 2017

Subject: Flamingo Traffic Assessment Methodology

The purpose of this correspondence is to summarize the traffic study methodology for the Flamingo redevelopment based on our discussions at our meeting on June 2, 2017. The proposed redevelopment is located on the west side of Bay Road and is generally bounded by 14th Street and 16th Street. A location map is provided in Attachment A.

Currently, the site contains of 426 residential condominiums and 1,261 apartments.

The existing apartments will be consolidated into larger units but fewer units as part of the redevelopment. The Flamingo redevelopment consists of 426 residential condominiums, 1,093 apartments, a 299-seat restaurant, and 6,318 square-feet of retail space. The 6,318 square-feet of retail is considered ancillary, is not expected to be a destination facility, and is expected to be primarily used by residents. The redevelopment has minimal self-parking for non-residents. Furthermore, the absence of visible designated on-site self-parking will deter the public from driving to the site to use the retail space. Therefore, it is anticipated that the small amount of general public that will use the facility will walk and not drive to the site.

The site proposed for redevelopment is currently accessed via three (3) driveways along Bay Road, including the following:

- 1. A resident-only access is provided to the south tower (condominiums) via a gated driveway at 14th Terrace.
- 2. The center driveway at 15th Street provides access to the valet for residents and guests. All guests currently valet their vehicles.
- A second resident-only driveway for the north tower (apartments) is provided south of 16th Street.

The redevelopment will provide a rideshare and valet drop-off/pick-up area at the 14th Terrace driveway serving the south tower. The center driveway will be removed as part of the redevelopment. A rideshare and valet drop-off/pick-up area will be provided by the redevelopment for the north tower with an ingress driveway south of 15th Terrace and egress at the existing driveway south of 16th Street. The driveway south of 16th Street will continue to be used for resident-only ingress and egress. The existing site plan and detailed redevelopment conceptual site plan are provided in Attachment A.

The following sections summarize the proposed assessment methodology.

TRIP GENERATION ANALYSIS

Trip generation calculations for the existing and proposed redevelopment were performed using Institute of Transportation Engineers' (ITE's) *Trip Generation Manual*, 9th Edition. ITE Land Use Code (LUC) 230 (Residential Condominium/Townhouse) was utilized for the proposed 426 condominium residential units, LUC 220 (Apartment) was utilized for the proposed 1,093 apartments, and LUC 931 (Quality Restaurant) was utilized for the 299-seat restaurant. The 6,318 square-foot retail area is considered ancillary to the residential component and was not included in trip generation calculations. LUC 220 (Apartment) and LUC 230 (Residential Condominium/Townhouse) were utilized for the existing land uses. Project trips were estimated for the A.M. and P.M. peak hours.

A multimodal (public transit, bicycle, and pedestrian) factor based on US Census *Means of Transportation to Work* data was reviewed for the census tract containing the redevelopment. A multimodal factor of 19.6 percent (19.6%) was determined for the area based on the census data for this tract. However, based on City of Miami Beach input, a multimodal reduction factor of 10.0 percent (10.0%) was applied to the trip generation. It is expected that residents and guests will choose to walk or use public transit to and from the proposed redevelopment. Transit route information will be documented in the technical letter.

A portion of the trips generated by the development will be captured internally within the site based on the interaction between the residential and restaurant land uses. Internal capture rates were based upon values contained in ITE's, *Trip Generation Handbook*, August 2014. An internal capture rate of 0.3 percent (0.3%) was calculated during the A.M. peak hour and 2.7 percent (2.7%) during the P.M. peak hour.

The Flamingo redevelopment is expected to result in a net decrease of 68 A.M. peak hour trips and a net decrease of 34 P.M. peak hour trips. Detailed trip generation calculations are included in Attachment B.

VALET AND RIDESHARE ANALYSIS

The Flamingo redevelopment will be served by two (2) valet and rideshare drop-off/pick-up areas. A valet and rideshare drop-off/pick-up is located at the 14th Terrace driveway. This valet and rideshare drop-off/pick-up will serve the south tower. The second valet and rideshare drop-off/pick-up is provided with an ingress driveway south of 15th Terrace and egress at the existing driveway south of 16th Street. Valet vehicles will be driven by a valet attendant to the parking garages. Some residents and all guests are expected to valet vehicles with a portion of residents self-parking. Valet and self-park data from the existing facility will be collected to determine the ratio of valet to self-parked vehicles. This ratio will be used in the valet analysis. Valet and self-park data will be collected on a Friday between 4:00 P.M. to 8:00 P.M. A valet operations queuing analysis will be prepared for the vehicle drop-off/pick-up area so that queues are not expected to spill back into public right-of-way.

Trip generation estimates will be utilized to provide for the highest demand (peak hour of generator) scenario. The valet operations queuing analysis will be conducted consistent with procedures described in ITE's *Transportation and Land Development*, 1988. The queuing analysis will document analysis assumptions and results, including the required vehicle queuing area and the required number of valet attendants to service the facility under the highest demand will be prepared. A traffic circulation figure will be prepared to illustrate the valet routes to and from the vehicle drop-off/pick-up areas.

Josiel Ferrer-Diaz, E.I. June 8, 2017, Page 3

The Flamingo *Shared-Ride/Taxi Drop-off/Pick-up Accumulation Analysis* dated April 6, 2017 will also be included in the analysis. A traffic circulation figure will be prepared to illustrate the rideshare/taxi routes to and from the vehicle drop-off/pick-up areas.

PEDESTRIAN ASSESSMENT

Pedestrian features and infrastructure around the site will be evaluated. The evaluation will include examining sidewalks, crosswalks, and pedestrian amenities along Bay Road between 14th Terrace and the project driveway south of 16th Street.

Additionally, pedestrian count data will be collected at the intersection of 15th Street and Bay Road on a Friday between 4:00 P.M. and 8:00 P.M. All traffic counts will be adjusted to account for seasonality using the appropriate Florida Department of Transportation (FDOT) seasonal factors for Miami Beach. The count data will used to determine the placement of crosswalks at the intersection of 15th Street and Bay Road.

A pedestrian circulation figure illustrating ingress and egress to the site will also be prepared.

PARKING ASSESSMENT

The existing and proposed parking for vehicles, scooters and bicycles (short-term, long-term, and Citibike locations) will be documented. The City of Miami Beach's *Bicycle Parking Guidelines*, March 2011 will be used in determining on-site bicycle parking feasibility. The site plan will denote bicycle parking that can be accommodated on-site.

TRANSPORTATION DEMAND MANAGEMENT STRATEGIES

Transportation Demand Management (TDM) strategies will be developed to reduce the impact of project traffic on the surrounding roadway network and promote trip reduction. Typical measures promote bicycling and walking, encourage car/vanpooling and offer alternatives to the typical workday hours.

DOCUMENTATION OF FINDINGS

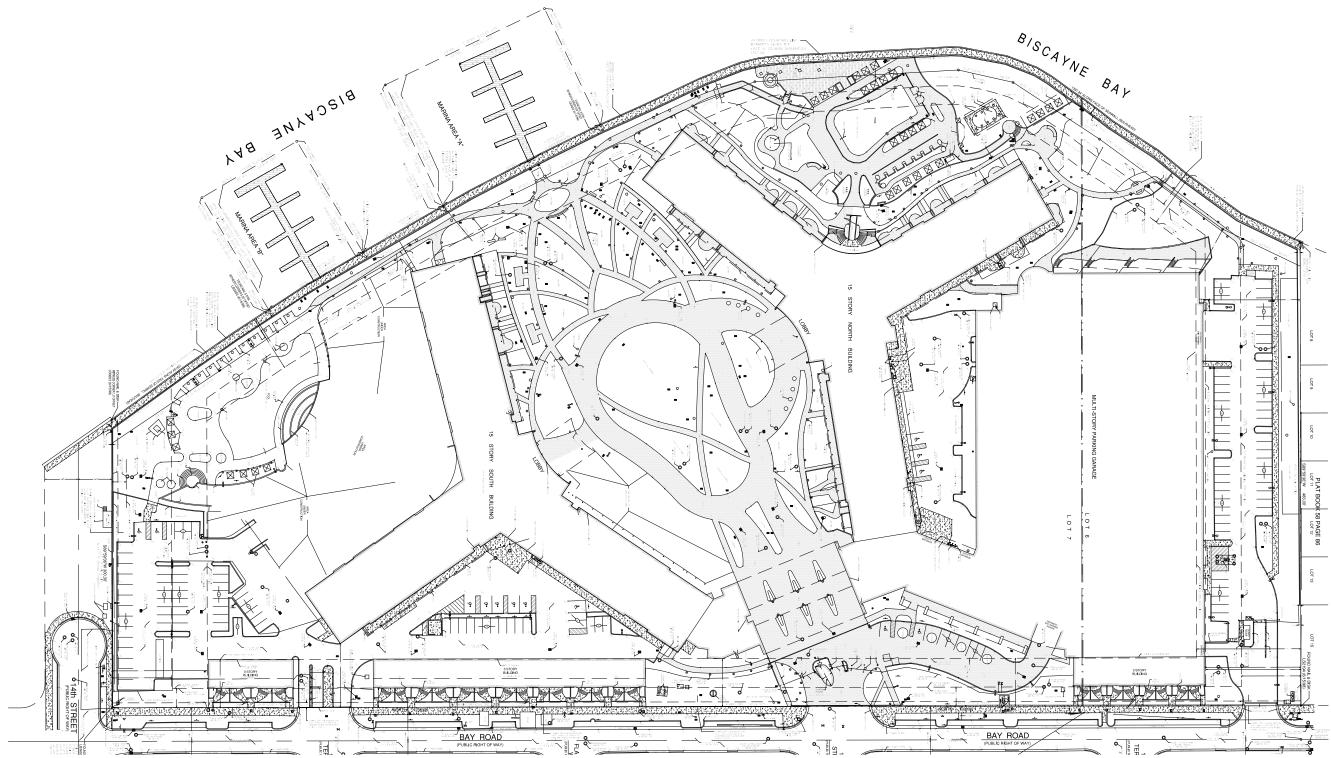
A technical letter documenting the trip generation analysis, valet and rideshare analysis, pedestrian assessment, and parking assessment will be provided. The letter will include supporting documents including data collection, calculations, and analysis findings. The letter will also include text and graphics necessary to summarize the assumptions and analysis.

A CD and electronic copy of the reports will be provided as part of the submittal package. The submittal package will also include the latest site plan.

k:\ftl_tpto\043347005-flamingo sobe\correspondence\memo\06 08 17 flamingo - methodology memo.docx

Attachment A







BOUDARY SURVEY

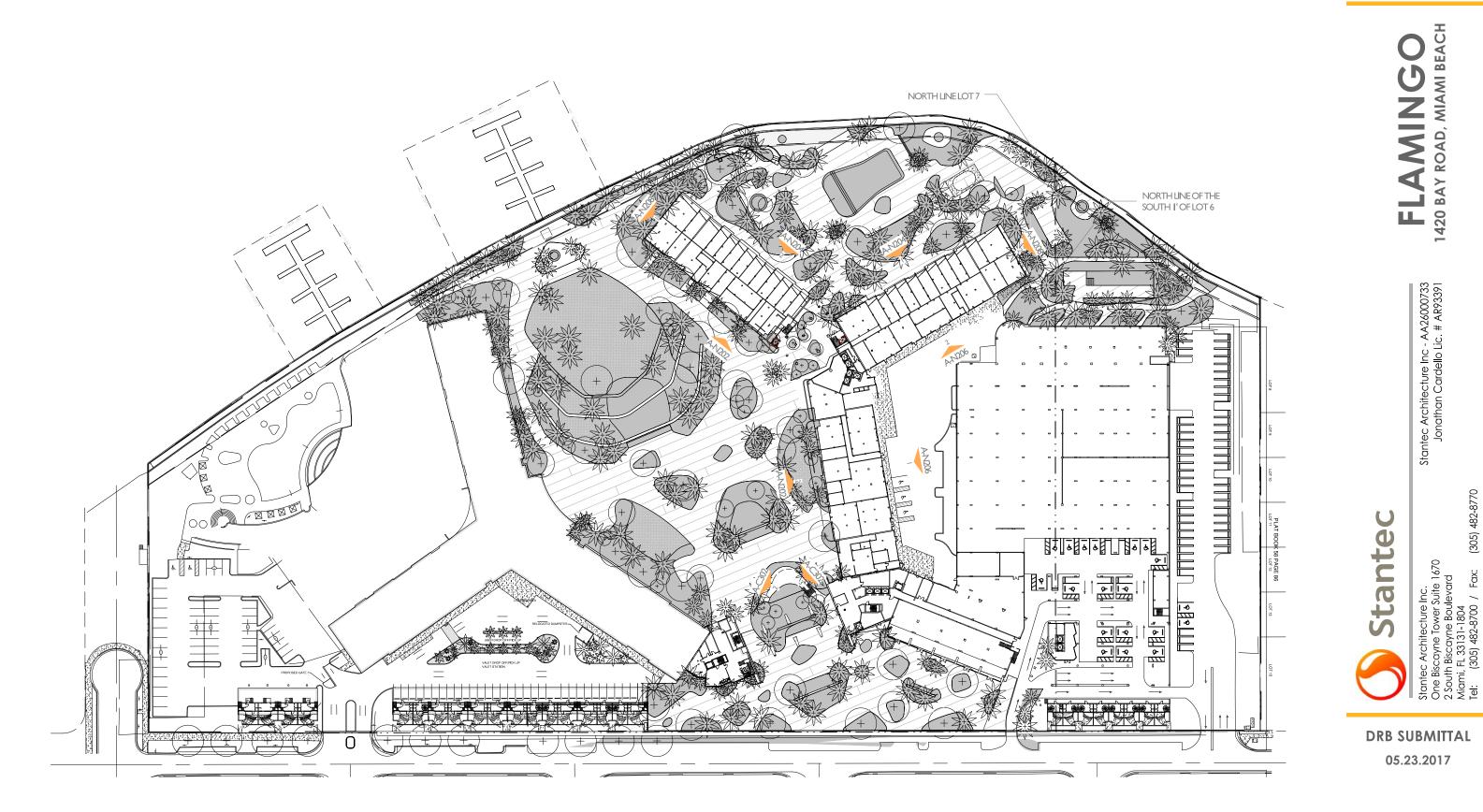


DRB SUBMITTAL 05.23.2017

Copyright Reserved



Scale: I'' = 50-0''Note: When printed on 11 x 17 paper scale is halfed





PROPOSED SITE PLAN

Copyright Reserved

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Attachment B

PEAK HOUR TRIP GENERATION COMPARISON

| | | ITE TRIP GENERATIO | N CHAR/ | ACTERIS | STICS | | | TIONAL BUTION | | GROS VOLUM | | MULTII REDU | | EXT | ERNAL TH | RIPS | | RNAL TURE | EXT | FERNAL | TRIPS | - | S-BY TURE | EX | NET NEW FERNAL TR | |
|---|----|-----------------------------------|---------|---------|----------------------------|-------|-----|------------------|-----|---------------|-------|----------------|-------|-----|----------|-------|---------|--------------|-----|--------|-------|---------|--------------|-----|----------------------|-------|
| | | | ITE | ITE | | ITE | Per | cent | | | | | MR | | | | | IC | | | | | PB | | | |
| _ | _ | Land Use | Edition | Code | Scale | Units | In | Out | In | Out | Total | Percent | Trips | In | Out | Total | Percent | Trips | In | Out | Total | Percent | Trips | In | Out | Total |
| | | Residential Condominium/Townhouse | 9 | 230 | 426 | du | 17% | 83% | 28 | 137 | 165 | 10.0% | 17 | 25 | 123 | 148 | 0.0% | 0 | 25 | 123 | 148 | 0.0% | 0 | 25 | 123 | 148 |
| | | Apartment | 9 | 220 | 1261 | du | 20% | 80% | 124 | 498 | 622 | 10.0% | 62 | 112 | 448 | 560 | 0.0% | 0 | 112 | 448 | 560 | 0.0% | 0 | 112 | 448 | 560 |
| | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 4 | | | | | | | | | | | | | | | | | | | | | | | | | |
| G | 5 | | | | | | | | | | | | | | | | | | | | | | | | | |
| R | 6 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 7 | | | | | | | | | | | | | | | | | | | | | | | | | |
| U | 8 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Р | 9 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 10 | | | | | | | | | | | | | | | | | | | | ` | | | | | |
| 1 | 11 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 12 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 13 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 14 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 15 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | ITE Land Use Code | | Ra | ate or Equa | ation | | Total: | 152 | 635 | 787 | 10.0% | 79 | 137 | 571 | 708 | 0.0% | 0 | 137 | 571 | 708 | 0.0% | 0 | 137 | 571 | 708 |
| | | 230 220 | - | | = 0.8*LN(2 = 0.49*(X)+3 | | • | | | | | - | | - | | | - | | - | • | | - | | - | | |

EXISTING WEEKDAY AM PEAK HOUR TRIP GENERATION

PROPOSED WEEKDAY AM PEAK HOUR TRIP GENERATION

| | | ITE TRIP GENERATIO | | | | | | TIONAL BUTION | | GROS: VOLUM | | MULTII REDU | - | EXT | ERNAL TI | RIPS | | RNAL TURE | EXT | ERNAL | TRIPS | | S-BY TURE | EX | NET NEW | |
|---|----|-----------------------------------|---------|------------|--------------|-------|-----------|------------------|----------|----------------|-------|----------------|----------|----------|------------|--------------|-----------------|--------------|----------|------------|--------------|-----------------|--------------|----------|------------|--------------|
| | | L and the s | ITE | ITE | 0 | ITE | | rcent | | | Tetel | Durant | MR | | | Tetal | Durant | IC | | 0.1 | Tetal | Descent | PB | | 0.1 | Tetal |
| _ | 14 | Land Use | Edition | | Scale 426 | Units | In 17% | Out 83% | In 28 | Out 137 | Total | Percent | Trips | in 05 | Out 124 | Total 149 | Percent 0.2% | Trips | In 25 | Out | Total 149 | Percent 0.0% | Trips | in 05 | Out 124 | Total 149 |
| | | Residential Condominium/Townhouse | 9 | 230 220 | 1093 | du | 20% | 83% | 108 | 431 | 165 | 10.0% | 16 54 | 25 | 388 | | 0.2% | 0 | - | 124 387 | | | 0 | 25 97 | 387 | |
| | _ | Apartment | | - | | du | | | 100 | 431 | 539 | 10.0% | 54 | 97 | 388 | 485 | | 1 | 97 | 387 | 484 | 0.0% | 0 | 97 | 387 | 484 |
| | _ | Quality Restaurant | 9 | 931 | 299 | seat | 50% | 50% | 5 | 4 | 9 | 10.0% | 1 | 4 | 4 | 8 | 12.5% | 1 | 3 | 4 | / | 0.0% | 0 | 3 | 4 | / |
| | 4 | | | | | | | | | | | | | | | | | | | | | | | | | |
| G | | | | | | | | | | | | | | | | | | | | | | | | | | |
| R | _ | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | _ | | | | | | | | | | | | | | | | | | | | | | | | | |
| U | - | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | 10 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 11 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 12 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 13 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 14 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 15 | | | | | | | | | | | | | | | | | | | | | | - | | | |
| | | ITE Land Use Code | _ | | te or Equa | | | Total: | 141 | 572 | 713 | 10.0% | 71 | 126 | 516 | 642 | 0.3% | 2 | 125 | 515 | 640 | 0.0% | 0 | 125 | 515 | 640 |
| | | 230 | | | = 0.8*LN() | | | | | | | | | | | | | | | | | | | - | | |
| | | 220 | | Y= | 0.49*(X)+3 | | | | | | | | | | | | | | | | | | | IN | OUT | TOTAL |
| | | 931 | | | Y=0.03(X) | | | | | | | | | | | | | | | | Net I | New Vehicl | e Trips | -12 | -56 | -68 |

PEAK HOUR TRIP GENERATION COMPARISON

| | | ITE TRIP GENERATION | I CHARA | CTERIS | TICS | | | TIONAL BUTION | | GROS: VOLUMI | | MULTI REDU | | EXT | ERNAL TR | RIPS | | RNAL TURE | EXT | ERNAL | TRIPS | - | S-BY TURE | EXT | NET NEW ERNAL TR | |
|---|----|-----------------------------------|---------|--------|--------------------------|-------|-----|------------------|-----|-----------------|-------|---------------|-------|-----|----------|-------|---------|--------------|-----|-------|-------|---------|--------------|-----|---------------------|-------|
| | | | ITE | ITE | | ITE | Per | cent | | | | | MR | | | | | IC | | | | | PB | | | |
| _ | | Land Use | Edition | Code | Scale | Units | In | Out | In | Out | Total | Percent | Trips | In | Out | Total | Percent | Trips | In | Out | Total | Percent | Trips | In | Out | Total |
| | 1 | Residential Condominium/Townhouse | 9 | 230 | 426 | du | 67% | 33% | 132 | 65 | 197 | 10.0% | 20 | 119 | 58 | 177 | 0.0% | 0 | 119 | 58 | 177 | 0.0% | 0 | 119 | 58 | 177 |
| | 2 | Apartment | 9 | 220 | 1261 | du | 65% | 35% | 462 | 249 | 711 | 10.0% | 71 | 416 | 224 | 640 | 0.0% | 0 | 416 | 224 | 640 | 0.0% | 0 | 416 | 224 | 640 |
| | 3 | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| | 4 | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| G | 5 | | | | | | | | | | | | | | | | | | | | | | | | | |
| R | 6 | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| 0 | 7 | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| U | 8 | | | | | | | | | | | | | | | | | | | | | | | | | |
| P | 9 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 10 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 11 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 12 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 13 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 14 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 15 | | | | | | | | | | | | | | | | | | | | | | | | | |
| _ | | ITE Land Use Code | | Ra | te or Equa | tion | | Total: | 594 | 314 | 908 | 10.0% | 91 | 535 | 282 | 817 | 0.0% | 0 | 535 | 282 | 817 | 0.0% | 0 | 535 | 282 | 817 |
| | | 230 220 | - | | = 0.82*LN().55*(X)+1 | | | | | | | | | | | | | | | | | - | - | | | |

EXISTING WEEKDAY PM PEAK HOUR TRIP GENERATION

PROPOSED WEEKDAY PM PEAK HOUR TRIP GENERATION

| | | ITE TRIP GENERATION | | | | | | | | | | TIONAL BUTION | | GROS: VOLUM | | MULTI REDU | | EXT | | RIPS | | RNAL TURE | EXT | ERNAL | TRIPS | | SS-BY TURE | EX | NET NEW | |
|---|----|-----------------------------------|---------|-----|-------------|-------|------------|--------|-----------|-----|-------|------------------|-------|----------------|-----|---------------|----------|-------|-----------|------|-------|--------------|---------|-----------|-------|-------|---------------|----|---------|--|
| | | Lond Here | ITE | | 0 | ITE | | rcent | | | Tetel | Demonst | MR | | 0.1 | Tetal | D | IC | | 0.1 | Tetal | D t | PB | | 0.1 | Tetal | | | | |
| _ | | Land Use | Edition | | Scale | Units | In 070/ | Out | In 100 | Out | Total | Percent | Trips | In 110 | Out | Total | Percent | Trips | ln 440 | Out | Total | Percent | Trips | In 110 | Out | Total | | | | |
| | _ | Residential Condominium/Townhouse | 9 | 230 | 426 | du | 67% | 33% | 132 | 65 | 197 | 10.0% | 19 | 119 | 59 | 178 | 1.5% | 3 | 118 | 57 | 175 | 0.0% | 0 | 118 | 57 | 175 | | | | |
| | - | Apartment | 9 | 220 | 1093 | du | 65% | 35% | 402 | 217 | 619 | 10.0% | 62 | 362 | 195 | 557 | 1.5% | 8 | 359 | 190 | 549 | 0.0% | 0 | 359 | 190 | 549 | | | | |
| | | Quality Restaurant | 9 | 931 | 299 | seat | 67% | 33% | 52 | 26 | 78 | 10.0% | 8 | 47 | 23 | 70 | 15.7% | 11 | 40 | 19 | 59 | 0.0% | 0 | 40 | 19 | 59 | | | | |
| | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| G | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| R | 6 | | | | | | | | | | | | | | | | | | | | | | | - | | | | | | |
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| U | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| P | 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | 14 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 15 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | ITE Land Use Code | _ | | ite or Equa | | | Total: | 586 | 308 | 894 | 10.0% | 89 | 528 | 277 | 805 | 2.7% | 22 | 517 | 266 | 783 | 0.0% | 0 | 517 | 266 | 783 | | | | |
| | | 230 | | | = 0.82*LN(| | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 220 | | | 0.55*(X)+1 | | | | | | | | | | | | | | | | | | | IN | OUT | TOTAL | | | | |
| | | 931 | | | Y=0.26(X) | 1 | | | | | | | | | | | | | | | Net | New Vehicl | e Trips | -18 | -16 | -34 | | | | |

Internal Capture Reduction Calculations

Methodology for A.M. Peak Hour and P.M. Peak Hour

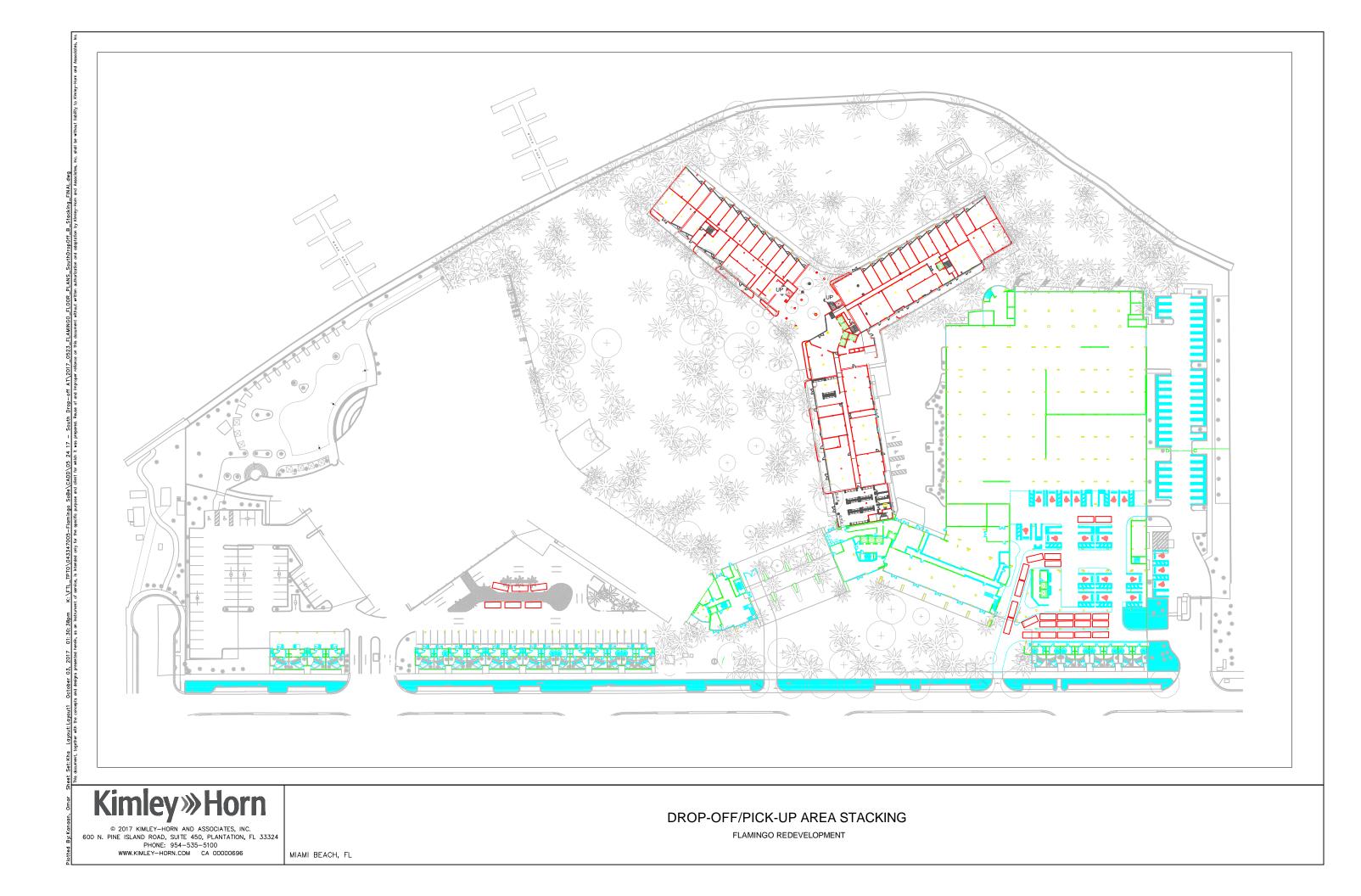
based on the Trip Generation Handbook, 3rd Edition, published by the Institute of Transportation Engineers

Methodology for Daily

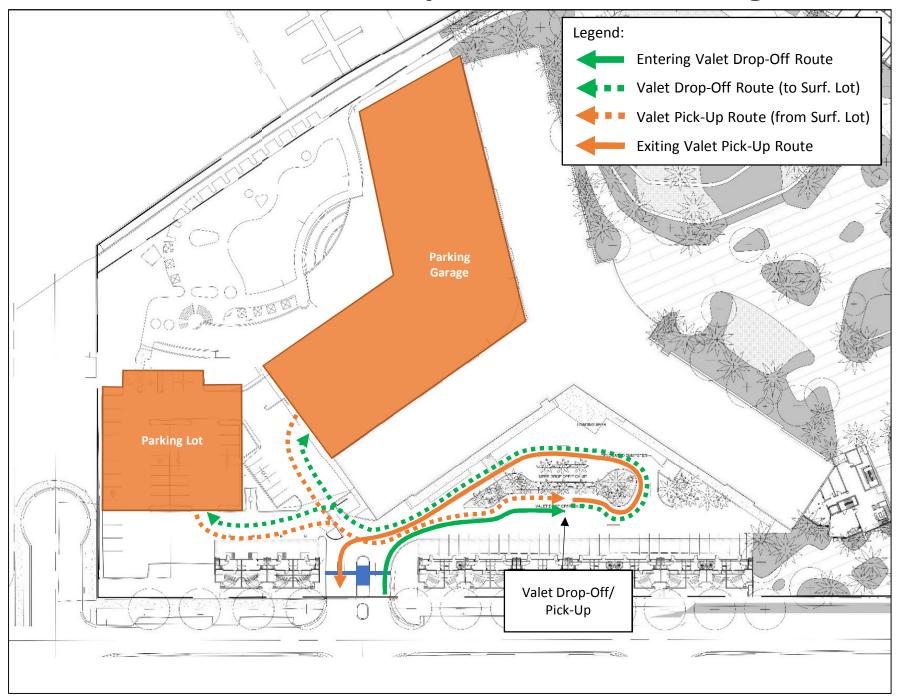
based on the average of the Unconstrained Rates for the A.M. Peak Hour and P.M. Peak Hour

SUMMARY (PROPOSED) GROSS TRIP GENERATION A.M. Peak Hour P.M. Peak Hour Land Use Enter Exit Enter Exit INPUT Office Retail 4 4 47 Restaurant 23 Cinema/Entertainment Residential 122 512 481 254 Hotel 516 528 277 126 **INTERNAL TRIPS** A.M. Peak Hour P.M. Peak Hour Land Use Enter Exit Enter Exit OUTPUT Office 0 0 0 0 0 0 0 0 Retail 0 7 4 Restaurant 1 0 Cinema/Entertainment 0 0 0 Residential 0 1 4 7 Hotel 0 0 0 0 1 1 11 11 **Total % Reduction** 0.3% 2.7% Office OUTPUT Retail 12.5% 15.7% Restaurant Cinema/Entertainment 0.2% 1.5% Residential Hotel **EXTERNAL TRIPS** A.M. Peak Hour P.M. Peak Hour Land Use Enter Enter Exit Exit OUTPUT Office 0 0 0 0 Retail 0 0 0 0 3 4 40 19 Restaurant Cinema/Entertainment 0 0 0 0 Residential 511 477 247 122 Hotel 0 0 0 0 125 515 517 266

Attachment C: Drop-Off/Pick-Up Area Stacking and Valet Routes



South Tower Proposed Valet Routing



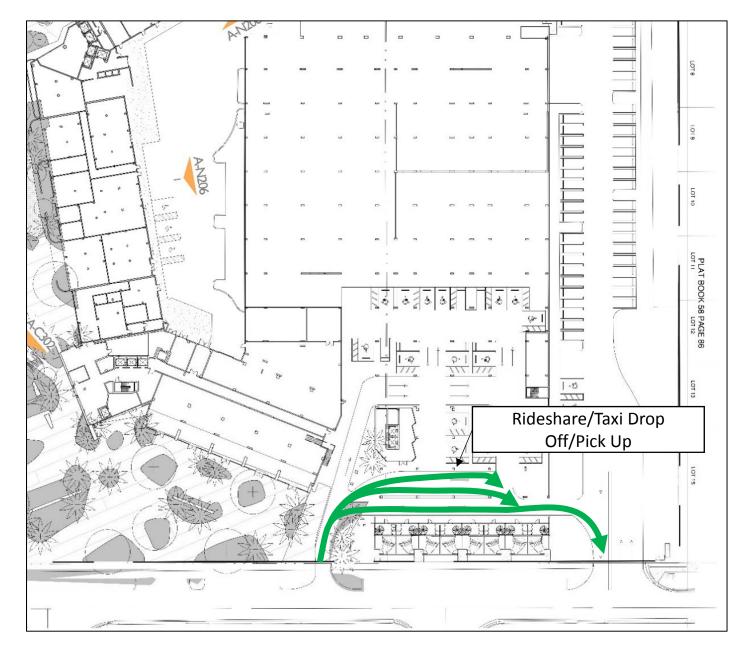
North Tower Proposed Valet Routing



Rideshare/Taxi Drop Off/Pick Up VALET DROP OFFICIELU VALET STATION

South Tower Proposed Rideshare/Taxi Routing

North Tower Proposed Rideshare/Taxi Routing



Attachment D:

Rideshare/Taxi Accumulation Analysis

Memorandum

To: Lee Hodges Flamingo South Beach

From: Adrian K. Dabkowski, P.E., PTOE

Date: April 6, 2017

Subject: Flamingo Miami Beach Shared-Ride/Taxi Drop-off/Pick-up Accumulation Analysis

The purpose of this memorandum is to summarize the shared-ride/taxi drop-off/pick-up accumulation analysis completed for the Flamingo Miami Beach residential development. Flamingo Miami Beach is located on the west side of Bay Road and is generally bounded by 14th Street and 16th Street. A location map is provided in Attachment A.

SITE OPERATIONS

Flamingo Miami Beach consists of three (3) residential towers (south, central, and north towers). The south tower contains condominium units while the central and north towers contain rental apartment units. Parking for residents and guests is provided via one (1) parking garage, located at the north end of the site, and several premium surface parking lots. The project site currently does not provide a shared-ride/taxi drop-off/pick-up area. However, three (3) on-street parking spaces along the west side of Bay Road between 15th Terrace and 15th Street are designated for shared-ride/taxi drop-off/pick-up operations.

Flamingo Miami Beach is served by three (3) driveways along Bay Road. The northernmost and southernmost driveways serve residential vehicular traffic accessing the site's internal parking garage and surface parking lots while the central driveway, which aligns with 15th Street, provides vehicular access, valet service, and access to pedestrians utilizing shared-ride/taxi drop-off/pick-up operations.

The south condominium tower is served by two (2) premium surface parking lots and a loading area. However, residents of the southern tower typically self-park or valet in the Flamingo Miami Beach's parking garage located in the north end of the site and walk to/from the south condominium tower. Residents that require assistance to load/unload their vehicles typically do so at the tower's loading area before parking in the site's parking garage.

Parking for the central and north apartment towers is provided in the site's parking garage located in the north end of the site.

DATA COLLECTION/FIELD OBSERVATIONS

Weekend peak period shared-ride/taxi drop-off/pick-up accumulation data was collected during a seven (7) hour period from Friday, March 24, 2017 at 6:00 P.M. to Saturday March 25, 2017 at 1:00 A.M. in one (1) minute intervals. All traffic counts were adjusted to account for seasonality using the appropriate Florida Department of Transportation (FDOT) seasonal adjustment factors specific for Miami Beach. The appropriate seasonal adjustment factor for the date on which the counts were collected is 1.00.

Vehicular accumulation data was collected in three (3) zones utilized for shared-ride/taxi drop-off/pickup operations for the Flamingo Miami Beach. The data collection zones included segments along Bay Road from 14th Street to Lincoln Terrace, 15th Street, 15th Terrace, and 16th Street from Bay Road to West Avenue and are listed below. A graphic depicting the data collection zone boundaries, accumulation data, and FDOT seasonal factors are contained in Attachment B.

| | Table 1: Vehicular Accumulation Data Collection Zones | | | | | | | | | | | |
|------|--|--|--|--|--|--|--|--|--|--|--|--|
| Zone | Boundary | | | | | | | | | | | |
| А | Bay Road between Lincoln Terrace and 15th Terrace, and 16th Street and 15th | | | | | | | | | | | |
| | Terrace between Bay Road and West Avenue (contains north driveway) | | | | | | | | | | | |
| В | Bay Road between 15 th Terrace and 15 th Street, and 15 th Street between Bay | | | | | | | | | | | |
| Б | Road and West Avenue (contains main driveway) | | | | | | | | | | | |
| С | Bay Road between 15 th Street and 15 th Street (contains south driveway) | | | | | | | | | | | |

Field observations were conducted on March 17, 2017 (Friday) from 8:00 P.M. to 8:30 P.M. and from 11:00 P.M. to 11:30 P.M. throughout the study area. A photo log and qualitative information collected from the field review are included in Attachment C. The following observations are noted:

Bay Road

- Shared-ride drop-off/pick-up operations occur along Bay Road generally between Flamingo Way and 15th Terrace and are more prevalent near 15th Street (Central Site Driveway).
- 2. Shared-ride drop-off/pick-up operations occur within both the northbound and southbound travel lanes along Bay Road.
- 3. Shared-ride drop-off/pick-up operations were observed to occur within the intersections of Bay Road at 15th Street and Bay Road at 15th Terrace.
- 4. Three (3) on-street parking spaces along the west side of Bay Road between 15th Terrace and 15th Street are designated for shared-ride/taxi drop-off/pick-up operations.

15th Terrace

1. Shared-ride drop-off/pick-up operations were observed to occur within the eastbound and westbound travel lanes along 15th Terrace near Bay Road.

15th Street

- 1. Shared-ride drop-off/pick-up operations were observed to occur within the eastbound and westbound travel lanes along 15th Street between Bay Road and West Avenue.
- Shared-ride drop-off/pick-up operations were observed to occur within the intersection of Bay Road and 15th Street.

Central Site Driveway

- 1. Shared-ride drop-off/pick-up operations were observed to occur within the central site driveway.
- 2. Shared-ride drop-off/pick-up vehicles were observed using the newly installed pavement markings and flex-posts as a drop-off/pick-up porte-cochere/roundabout.
- 3. Shared-ride drop-off/pick-up vehicles were observed driving the wrong-way within the central site driveway.

Please note that shared-ride drop-off/pick-up operations disrupt vehicular and pedestrian crossing operations when completed within travel lanes and intersections.

SHARED-RIDE/TAXI DROP-OFF/PICK-UP

The accumulation data indicates that a maximum vehicle accumulation of nine (9) vehicles was observed at 7:20 P.M. comprised of 9 shared-ride vehicles and at 8:19 P.M. comprised of six (6) shared-ride vehicles and three (3) taxi vehicles. Please note that the maximum observed taxi accumulation was three (3) vehicles. The accumulation data also indicated that the average shared-ride/taxi vehicle accumulation (50th percentile) during the peak period was three (3) vehicles and the 95th percentile shared-ride/taxi vehicle accumulation was five (5) vehicles. A summary of the maximum observed, average (50th percentile), and 95th percentile vehicle accumulations is provided in Table 2.

| Table 2: Vehicle Accumulation Data Summary | | | | | | | | | | | |
|--|-----------------------------|----------------|--|--|--|--|--|--|--|--|--|
| Zone | Accumulation | UBER/LYFT/Taxi | | | | | | | | | |
| | Maximum | 9 | | | | | | | | | |
| A, B, and C | 50 th Percentile | 3 | | | | | | | | | |
| | 95 th Percentile | 6 | | | | | | | | | |
| | Maximum | 3 | | | | | | | | | |
| A | 50 th Percentile | 0 | | | | | | | | | |
| | 95 th Percentile | 2 | | | | | | | | | |
| | Maximum | 9 | | | | | | | | | |
| В | 50 th Percentile | 2 | | | | | | | | | |
| | 95 th Percentile | 5 | | | | | | | | | |
| | Maximum | 2 | | | | | | | | | |
| С | 50 th Percentile | 0 | | | | | | | | | |
| | 95 th Percentile | 1 | | | | | | | | | |

K:\FTL_TPTO\043347005-Flamingo SoBe\correspondence\memo\04 06 17 hodges memo.docx

Attachment A



Attachment B

Flamingo Shared-Ride/Taxi Drop-Off/Pick-Up

·IE.

B

Flamingo Way

14th Terrace

1

AT STON

15th Terrace

14th Ct

907

800 ft

14th St

19 - E -

incoln Terrace

-

16th St

ath

Legend Data Collection Zone

Jeddad

15th St

491 44



A

-

4

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| MacArthu | r Causeway P | eak Seaso | n Convers | ion Factor |
|----------|------------------|--------------|-----------|----------------|
| Week | Weekly Volume | PSCF | Month | Days |
| 1 | 97461 | 1.08 | Jan | 1-2 |
| 2 | 94621 | 1.11 | | 5-9 |
| 3 | 92597 | 1.14 | | 12-16 |
| 4 | 94820 | 1.11 | | 19-23 |
| 5 | 95103 | 1.11 | | 26-30 |
| 6 | 93310 | 1.13 | Feb | 2-6 |
| 7 | 97965 | 1.07 | | 9-13 |
| 8 | 97595 | 1.08 | | 16-20 |
| 9 | 98306 | 1.07 | | 23-27 |
| 10 | 99061 | 1.06 | Mar | 2-6 |
| 11 | 103197 | 1.02 | | 9-13 |
| 12 | 104700 | 1.00 | | 16-20 |
| 13 | 105181 | 1.00 | | 23-27 |
| 14 | 103378 | 1.02 | Apr | 30-3 |
| 15 | 98388 | 1.07 | | 6-10 |
| 16 | 97132 | 1.08 | | 13-17 |
| 10 | 92368 | 1.14 | <u> </u> | 20-24 |
| 18 | 93079 | 1.13 | May | 27-1 |
| 10 | 94513 | 1.13 | iviay | 4-8 |
| 20 | 96765 | 1.09 | | 11-15 |
| 20 | 90955 | 1.16 | | 18-22 |
| 21 | 88187 | 1.10 | | 25-29 |
| 23 | 94751 | 1.17 | June | 1-5 |
| 23 | 93310 | 1.13 | Julie | 8-12 |
| 24 | 94745 | 1.13 | | 15-12 |
| 25 | 95914 | 1.10 | | 22-26 |
| 20 | 92680 | 1.10 | July | 22-20 |
| 27 | 93320 | 1.13 | July | 6-10 |
| 28 | 95119 | 1.13 | | 13-17 |
| | | | | 20-24 |
| 30 | 95499 | 1.10 | | |
| 31 32 | 94958 | 1.11 | Aug | 27-31 |
| | 97362 | 1.08 | Aug | 3-7 |
| 33 34 | 94929 96230 | 1.11 1.09 | | 10-14 17-21 |
| | | | | |
| 35 36 | 92110 | 1.14 | Cont | 24-28 1-4 |
| | 91826 | 1.15 | Sept | - |
| 37 | 90955 | 1.16 | | 7-11 |
| 38 | 89712 | 1.17 | | 14-18 |
| 39 | 92517 | 1.14 | Oct | 21-25 |
| 40 | 90393 | 1.16 | Oct | 28-2 |
| 41 | 88712 | 1.19 | | 5-9 |
| 42 | 87533 | 1.20 | | 12-16 |
| 43 | 94636 | 1.11 | | 19-23 |
| 44 | 96168 | 1.09 | Nev | 26-30 |
| 45 | 96752 | 1.09 | Nov | 2-6 |
| 46 | 99482 | 1.06 | ┨───┤ | 9-13 |
| 47 | 96147 | 1.09 | | 16-20 |
| 48 | 90693 | 1.16 | | 23-27 |
| 49 | 102796 | 1.02 | Dec | 30-4 |
| 50 | 96703 | 1.09 | | 7-11 |
| 51 | 97695 | 1.08 | | 14-18 |
| 52 | 92309 | 1.14 | | 21-25 |
| 53 | 103003 | 1.02 | | 28-31 |

| Prepared by National Data & Surveying Services |
|---|
| Shared-Ride/Taxi Drop-off/Pick-up Accumulation Analysis |

| LOCATION: All | DAY: Friday | Miami Beach PSCF: | 1.00 |
|------------------|-----------------|-------------------|------|
| ZONE: A,B, and C | DATE: 3/24/2017 | | |
| | | | |

| | Vahieler | | | Vehieles | т (| | - | | | | | | |
|-----------|------------------------|----------------|----------------|------------------------|-----------|-------------|---|--------------------------------------|--------------------------------------|--|--|---|---|
| East/N | Vehicles North Side | TIME | West/S | Vehicles South Side | | of Vehicles | | | | | | | |
| UBER/LYFT | TAXI 0 | 18:00 | UBER/LYFT 2 | TAXI 0 | UBER/LYFT | TAXI 0 | - | UBER/LYFT | TAXI | Combined | | | |
| 2 | 0 | 18:00 18:01 | 2 | 0 | 4 | 0 | Time of Max Accumulation | UBER/LYFT 19:20 | 20:16 | 20:19 | | | Time |
| 3 | 0 | 18:01 | 3 | 0 | 4 4 | 0 | Maximum Accumulation | 9 | 20:16 | 20:19 | | | 7:20:00 PM |
| 0 | 0 | 18:02 | 3 | 0 | 3 | 0 | 50th % | 3 | 0 | 3 | | | |
| 0 | 0 | 18:04 | 2 | 0 | 2 | 0 | 95th % | 5 | 1 | 6 | | | |
| 0 | 1 | 18:05 | 3 | 1 | 3 | 2 | | | 1 | 1 | | | |
| 0 | 0 | 18:06 | 3 | 2 | 3 | 2 | | | | | | ZONE | A |
| 1 | 1 | 18:07 | 3 | 1 | 4 | 2 | | | | | | 0 | |
| 1 | 0 | 18:08 | 3 | 0 | 4 | 0 | 1 | | | | | | |
| 2 | 0 | 18:09 | 3 | 0 | 5 | 0 | 1 | | | | | | |
| 0 | 0 | 18:10 | 3 | 0 | 3 | 0 | | | | | | | |
| 2 | 0 | 18:11 | 3 | 0 | 5 | 0 | | | | | | | |
| 1 | 0 | 18:12 | 3 | 0 | 4 | 0 | | | | | | | |
| 3 | 0 | 18:13 | 3 | 0 | 6 | 0 | | | | | | | |
| 2 | 0 | 18:14 | 4 | 0 | 6 | 0 | | | | | | | |
| 0 | 0 | 18:15 | 3 | 0 | 3 | 0 | | | | | | ZONE | В |
| 3 | 0 | 18:16 | 2 | 0 | 5 | 0 | _ | | | | | 9 | |
| 1 | 0 | 18:17 | 1 | 0 | 2 | 0 | | | | | | | |
| 0 | 0 | 18:18 | 1 | 0 | 1 | 0 | | | | | | L | |
| 1 | 0 | 18:19 | 3 | 0 | 4 | 0 | _ | | | | | | |
| 1 | 0 | 18:20 | 2 | 0 | 3 | 0 | _ | | | | | | |
| 1 | 0 | 18:21 | 4 | 0 | 5 | 0 | _ | | | | | | |
| 1 | 0 | 18:22 | 2 | 2 | 3 | 2 | _ | | | | | | |
| 2 | 0 | 18:23 | 1 | 1 | 3 | 1 | _ | | | | | ZONE | с |
| 1 | 0 | 18:24 | 2 | 0 | 3 | 0 | _ | | | | | 0 | |
| 2 | 0 | 18:25 | 0 | 0 | 2 | 0 | _ | | | | | | |
| 2 | 0 | 18:26 | 0 | 0 | 2 | 0 | - | | | | | | |
| 1 | 0 | 18:27 | 1 | 0 | 2 | 0 | - | | | | | | |
| 1 | 0 | 18:28 | 0 | 0 | 1 | 0 | _ | | | | | | |
| 1 | 0 | 18:29 | 0 | 0 | 1 | 0 | | | | | | | |
| 1 | 0 | 18:30 | 0 | 0 | 1 | 1 | _ | | | | | | |
| 1 | 0 | 18:31 | | 0 | 3 | 0 | 10 | | | | | | |
| 2 | 0 | 18:32 18:33 | 1 | 0 | 3 | 0 | 9 | | | | | | |
| 1 | 0 | 18:33 | 1 | 0 | 2 | 0 | - | | | | | | |
| 0 | 0 | 18:35 | 2 | 0 | 2 | 0 | 8 | | | | | | |
| 1 | 0 | 18:36 | 0 | 0 | 1 | 0 | 7 | | | | | | |
| 0 | 0 | 18:37 | 2 | 0 | 2 | 0 | _ 6 | | | | | | |
| 0 | 0 | 18:38 | 0 | 0 | 0 | 0 | ation | | | | | | |
| 1 | 0 | 18:39 | 2 | 0 | 3 | 0 | | | | | | | |
| 1 | 1 | 18:40 | 1 | 0 | 2 | 1 | A A A | | | | | -111 - 11 - 1 | |
| 2 | 0 | 18:41 | 3 | 0 | 5 | 0 | 3 | | | | / I I I I I I I I I I I I I I I I I I I | | |
| 1 | 0 | 18:42 | 2 | 2 | 3 | 2 | | | | | | | |
| 2 | 0 | 18:43 | 3 | 0 | 5 | 0 | 2 | | | | | <u>│</u> /── <u>\</u> ∦ <u>/</u> / _/ / ¹ ////////////////////////////////// | |
| 2 | 0 | 18:44 | 1 | 1 | 3 | 1 | 1 | | | II III | | ╏╴╹╢╢╏╢╿╎┦╹ | |
| 2 | 0 | 18:45 | 2 | 0 | 4 | 0 | 0 | | | | | | |
| 0 | 1 | 18:46 | 1 | 0 | 1 | 1 | 300 308 316 3324 3324 3324 3324 3328 3328 3328 3328 | 8:56 9:04 9:12 9:12 7:28 | 9:36 9:44 9:52 9:52 0:00 | 0:16 0:24 0:24 0:28 0:40 0:48 0:56 | 1104 1112 1128 1128 1128 1128 | 22:00 22:08 22:16 22:15 22:24 22:32 22:32 22:40 22:40 22:40 22:40 22:40 22:40 | 223:04 23:12 23:12 23:28 23:52 23:52 0:00 0:16 0:16 |
| 0 | 0 | 18:47 | 1 | 0 | 1 | 0 | 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | 11 19 19 | 5 2 2 2 2 | 8 8 8 8 8 8 8 8 | | ********* | 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 |
| 2 | 0 | 18:48 | 2 | 0 | 4 | 0 | | | | | - | | |
| 0 | 0 | 18:49 | 0 | 0 | 0 | 0 | - | | | | | | |
| 1 | 1 | 18:50 | 0 | 1 | 1 | 2 | _ | | | | | | |
| 1 | 0 | 18:51 | 1 | 0 | 2 | 0 | _ | | | | | | |
| 0 | 0 | 18:52 | 3 | 0 | 3 | 0 | | | | | | | |
| 0 | 1 | 18:53 | 1 | 0 | 1 | 1 | | | | | | | |
| 0 | 0 | 18:54 | 2 | 0 | 2 | 0 | | | | | | | |
| 1 | 0 | 18:55 18:56 | 1 | 0 | 2 | 0 | | | | | | | |
| 1 | 0 | 18:56 | 1 | 1 | 2 | 1 | | | | | | | |
| 1 | 0 | 18:57 | 2 | 1 | 3 | 1 | - | | | | | | |
| 3 | 0 | 18:58 | 2 | 1 | 4 | 1 | | | | | | | |
| 3 | 0 | 18:59 | 2 | 0 | 5 | 0 | | | | | | | |
| 3 | 0 | 19:00 | 2 | 0 | 3 | 0 | - | | | | | | |
| 0 | 0 | 19:01 | 0 | 0 | 3 | 0 | | | | | | | |
| 1 | 0 | 19:02 19:03 | 0 | 0 | 1 | 0 | | | | | | | |
| 1 | 0 | _ | 0 | 0 | 2 | 0 | - | | | | | | |
| 2 | | 19:04 | 1 | | - | | | | | | | | |
| | 0 | 19:05 | | 1 | 5 | 1 | | | | | | | |
| 1 | 0 | 19:06 | 2 | 1 | 3 | 1 | _ | | | | | | |
| 2 | 0 | 19:07 | 3 | 0 | 5 | 0 | _ | | | | | | |
| 1 | 0 | 19:08 | 3 | 0 | 4 | 0 | _ | | | | | | |
| 1 | 0 | 19:09 | 1 | 0 | 2 | 0 | _ | | | | | | |
| 1 | 0 | 19:10 | 3 | 0 | 4 | 0 | _ | | | | | | |
| 0 | 0 | 19:11 | 2 | 0 | 2 | 0 | _ | | | | | | |
| 0 | 0 | 19:12 | 4 | 0 | 4 | 0 | _ | | | | | | |
| 0 | 0 | 19:13 | 2 | 0 | 2 | 0 | _ | | | | | | |
| 0 | 0 | 19:14 | 1 | 0 | 1 | 0 | - | | | | | | |
| 2 | 0 | 19:15 | 3 | 0 | 5 | 0 | - | | | | | | |
| 1 | 0 | 19:16 | 3 | 0 | 4 | 0 | _ | | | | | | |
| 0 | 0 | 19:17 | 5 | 0 | 5 | 0 | _ | | | | | | |
| 3 | 0 | 19:18 | 5 | 0 | 8 | 0 | 1 | | | | | | |

0 0

| 2 | 0 | 19:21 | 2 | 0 | 4 | 0 |
|---|---|-------|---|---|---|---|
| 3 | 0 | 19:22 | 5 | 0 | 8 | 0 |
| 2 | 0 | 19:23 | 3 | 0 | 5 | 0 |
| 1 | 0 | 19:24 | 2 | 0 | 3 | 0 |
| 2 | 0 | 19:25 | 3 | 0 | 5 | 0 |
| 1 | 0 | 19:26 | 2 | 0 | 3 | 0 |
| 1 | 0 | 19:27 | 2 | 0 | 3 | 0 |
| 0 | 0 | 19:28 | 4 | 0 | 4 | 0 |
| 0 | 0 | 19:29 | 4 | 0 | 4 | 0 |
| 0 | 0 | 19:30 | 2 | 0 | 2 | 0 |
| 0 | 1 | 19:31 | 3 | 0 | 3 | 1 |
| 2 | 0 | 19:32 | 4 | 0 | 6 | 0 |
| 0 | 0 | 19:33 | 3 | 0 | 3 | 0 |
| 0 | 0 | 19:34 | 2 | 2 | 2 | 2 |
| 0 | 1 | 19:35 | 2 | 0 | 2 | 1 |
| 4 | 0 | 19:36 | 4 | 0 | 8 | 0 |
| 3 | 0 | 19:37 | 0 | 0 | 3 | 0 |
| 4 | 1 | 19:38 | 1 | 1 | 5 | 2 |
| 2 | 0 | 19:39 | 1 | 1 | 3 | 1 |
| 1 | 1 | 19:40 | 2 | 0 | 3 | 1 |
| 1 | 0 | 19:41 | 1 | 0 | 2 | 0 |
| 3 | 0 | 19:42 | 2 | 0 | 5 | 0 |
| 2 | 0 | 19:43 | 1 | 0 | 3 | 0 |
| 3 | 0 | 19:44 | 1 | 0 | 4 | 0 |
| 2 | 0 | 19:45 | 2 | 0 | 4 | 0 |
| 1 | 0 | 19:46 | 2 | 0 | 3 | 0 |
| 1 | 0 | 19:47 | 1 | 0 | 2 | 0 |
| 1 | 0 | 19:48 | 1 | 0 | 2 | 0 |

19:18

19:19 19:20

| | All A,B, and C | | DATE: | Friday 3/24/2017 | Miami Beach PSCF: | 1.0 |
|----------------------------------|-------------------|-------|-------|------------------------------|-------------------------|--------------------|
| # of Ve East/Nor UBER/LYFT | | TIME | | ehicles outh Side TAXI | Total # of UBER/LYFT | f Vehicles TAXI |
| 1 | 0 | 19:49 | 1 | 0 | 2 | 0 |
| 1 | 0 | 19:50 | 2 | 0 | 3 | 0 |
| 0 | 0 | 19:51 | 3 | 0 | 3 | 0 |
| 0 | 0 | 19:52 | 2 | 0 | 2 | 0 |
| 0 | 0 | 19:53 | 2 | 0 | 2 | 0 |
| 1 | 0 | 19:54 | 3 | 0 | 4 | 0 |
| 1 | 0 | 19:55 | 0 | 0 | 1 | 0 |
| 0 | 0 | 19:56 | 4 | 0 | 4 | 0 |
| 2 | 1 | 19:57 | 1 | 0 | 3 | 1 |
| 0 | 0 | 19:58 | 1 | 1 | 1 | 1 |
| 1 | 1 | 19:59 | 0 | 0 | 1 | 1 |
| 0 | 0 | 20:00 | 0 | 0 | 0 | 0 |
| 0 | 0 | 20:01 | 2 | 1 | 2 | 1 |
| 2 | 0 | 20:01 | 2 | 0 | 4 | 0 |
| | | _ | | | | |
| 3 | 0 | 20:03 | 1 | 0 | 4 | 0 |
| 1 | 0 | 20:04 | 3 | 0 | 4 | 0 |
| 0 | 0 | 20:05 | 1 | 0 | 1 | 0 |
| 0 | 0 | 20:06 | 1 | 0 | 1 | 0 |
| 0 | 0 | 20:07 | 3 | 0 | 3 | 0 |
| 0 | 0 | 20:08 | 4 | 0 | 4 | 0 |
| 0 | 0 | 20:09 | 2 | 0 | 2 | 0 |
| 0 | 0 | 20:10 | 2 | 0 | 2 | 0 |
| 2 | 0 | 20:11 | 4 | 1 | 6 | 1 |
| 3 | 1 | 20:12 | 2 | 0 | 5 | 1 |
| 1 | 2 | 20:12 | 2 | 0 | 3 | 2 |
| 1 | 1 | 20:13 | 3 | 0 | 4 | 1 |
| 1 | 1 | 20:14 | 3 | 0 | 4 4 | 1 |
| | | | | 2 | | |
| 1 | 1 | 20:16 | 2 | | 3 | 3 |
| 0 | 1 | 20:17 | 2 | 2 | 2 | 3 |
| 1 | 1 | 20:18 | 2 | 2 | 3 | 3 |
| 3 | 1 | 20:19 | 3 | 2 | 6 | 3 |
| 2 | 1 | 20:20 | 5 | 1 | 7 | 2 |
| 1 | 1 | 20:21 | 3 | 0 | 4 | 1 |
| 1 | 1 | 20:22 | 4 | 0 | 5 | 1 |
| 0 | 1 | 20:23 | 6 | 0 | 6 | 1 |
| 0 | 1 | 20:24 | 4 | 0 | 4 | 1 |
| 1 | 1 | 20:25 | 3 | 1 | 4 | 2 |
| 0 | 1 | 20:26 | 4 | 0 | 4 | 1 |
| 1 | 0 | 20:27 | 2 | 0 | 3 | 0 |
| 1 | 0 | 20:28 | 1 | 0 | 2 | 0 |
| | | | | | | |
| 1 | 0 | 20:29 | 0 | 0 | 1 | 0 |
| 3 | 0 | 20:30 | 1 | 0 | 4 | 0 |
| 1 | 0 | 20:31 | 1 | 0 | 2 | 0 |
| 0 | 0 | 20:32 | 0 | 0 | 0 | 0 |
| 0 | 0 | 20:33 | 1 | 0 | 1 | 0 |
| 1 | 0 | 20:34 | 1 | 0 | 2 | 0 |
| 1 | 0 | 20:35 | 3 | 0 | 4 | 0 |
| 1 | 0 | 20:36 | 1 | 0 | 2 | 0 |
| 2 | 0 | 20:37 | 0 | 0 | 2 | 0 |
| 0 | 0 | 20:38 | 1 | 0 | 1 | 0 |
| 0 | 0 | 20:39 | 0 | 0 | 0 | 0 |
| 0 | 0 | 20:40 | 2 | 0 | 2 | 0 |
| 1 | 0 | 20:40 | 1 | 0 | 2 | 0 |
| 0 | 0 | 20:41 | 0 | 0 | 0 | 0 |
| | | _ | | | | |
| 1 | 0 | 20:43 | 2 | 0 | 3 | 0 |
| 0 | 0 | 20:44 | 1 | 0 | 1 | 0 |
| 2 | 0 | 20:45 | 3 | 0 | 5 | 0 |
| 2 | 0 | 20:46 | 1 | 0 | 3 | 0 |
| 3 | 0 | 20:47 | 1 | 0 | 4 | 0 |
| 3 | 0 | 20:48 | 1 | 0 | 4 | 0 |
| 2 | 0 | 20:49 | 3 | 0 | 5 | 0 |
| 3 | 1 | 20:50 | 0 | 0 | 3 | 1 |
| 2 | 1 | 20:51 | 0 | 0 | 2 | 1 |
| 3 | 1 | 20:52 | 1 | 0 | 4 | 1 |
| 5 | 1 | 20:53 | 0 | 0 | 5 | 1 |
| 3 | 1 | 20:54 | 1 | 0 | 4 | 1 |
| 2 | 1 | 20:55 | 1 | 0 | 3 | 1 |
| 2 | 1 | 20:55 | 1 | | 3 | 1 |
| | | _ | | 0 | | |
| 2 | 1 | 20:57 | 0 | 0 | 2 | 1 |
| 4 | 1 | 20:58 | 0 | 0 | 4 | 1 |
| 2 | 0 | 20:59 | 3 | 0 | 5 | 0 |
| 1 | 0 | 21:00 | 1 | 0 | 2 | 0 |
| 0 | 0 | 21:01 | 1 | 0 | 1 | 0 |
| 0 | 0 | 21:02 | 3 | 0 | 3 | 0 |
| 0 | 0 | 21:03 | 4 | 0 | 4 | 0 |
| 0 | 0 | 21:04 | 2 | 1 | 2 | 1 |
| 3 | 0 | 21:05 | 1 | 0 | 4 | 0 |
| 1 | 0 | 21:06 | 3 | 0 | 4 | 0 |
| 1 | 0 | 21:00 | 2 | 1 | 3 | 1 |
| 2 | 0 | 21:07 | 4 | 0 | 6 | 0 |
| 2 | v | 21.00 | 4 | 0 | 3 | 0 |

| 1 | 0 | 21:10 | 3 | 2 | 4 | 2 |
|---|---|-------|---|---|---|---|
| 1 | 0 | 21:11 | 2 | 1 | 3 | 1 |
| 2 | 0 | 21:12 | 3 | 1 | 5 | 1 |
| 3 | 0 | 21:13 | 0 | 0 | 3 | 0 |
| 2 | 0 | 21:14 | 2 | 0 | 4 | 0 |
| 1 | 0 | 21:15 | 2 | 0 | 3 | 0 |
| 1 | 0 | 21:16 | 1 | 0 | 2 | 0 |
| 4 | 0 | 21:17 | 1 | 0 | 5 | 0 |
| 3 | 0 | 21:18 | 1 | 0 | 4 | 0 |
| 2 | 0 | 21:19 | 2 | 0 | 4 | 0 |
| 2 | 0 | 21:20 | 1 | 0 | 3 | 0 |
| 1 | 0 | 21:21 | 3 | 0 | 4 | 0 |
| 0 | 0 | 21:22 | 2 | 1 | 2 | 1 |
| 0 | 0 | 21:23 | 2 | 0 | 2 | 0 |
| 2 | 0 | 21:24 | 1 | 1 | 3 | 1 |
| 0 | 0 | 21:25 | 3 | 0 | 3 | 0 |
| 0 | 0 | 21:26 | 3 | 0 | 3 | 0 |
| 0 | 0 | 21:27 | 4 | 0 | 4 | 0 |
| 0 | 0 | 21:28 | 1 | 0 | 1 | 0 |
| 0 | 0 | 21:29 | 0 | 0 | 0 | 0 |
| 0 | 0 | 21:30 | 0 | 0 | 0 | 0 |
| 0 | 0 | 21:31 | 3 | 0 | 3 | 0 |
| 0 | 0 | 21:32 | 2 | 0 | 2 | 0 |
| 1 | 1 | 21:33 | 1 | 0 | 2 | 1 |
| 2 | 0 | 21:34 | 0 | 1 | 2 | 1 |
| 2 | 1 | 21:35 | 1 | 0 | 3 | 1 |
| 0 | 0 | 21:36 | 1 | 0 | 1 | 0 |
| 0 | 0 | 21:37 | 1 | 0 | 1 | 0 |

21:09

| LOCATION | ide/Taxi Drop- | National Data & Sur Off/Pick-U | ip Accumulatio DAY: | n Analysis ^{Friday} 3/24/2017 | Miami Beach PSCF: | 1.00 |
|----------|--------------------------------|-----------------------------------|------------------------|--|------------------------|--------------------|
| | Vehicles lorth Side TAXI | TIME | | ehicles outh Side TAXI | Total # o UBER/LYFT | f Vehicles TAXI |
| 1 | 0 | 21:38 | 2 | 0 | 3 | 0 |
| 1 | 0 | 21:39 | 1 | 0 | 2 | 0 |
| 0 | 0 | 21:40 | 1 | 0 | 1 | 0 |
| 1 | 0 | 21:41 | 1 | 0 | 2 | 0 |
| 0 | 0 | 21:42 | 1 | 0 | 1 | 0 |
| 1 | 0 | 21:43 | 2 | 0 | 3 | 0 |
| 1 | 0 | 21:44 | 2 | 0 | 3 | 0 |
| 0 | 0 | 21:45 | 0 | 0 | 0 | 0 |
| 0 | 0 | 21:46 | 1 | 0 | 1 | 0 |
| 1 | 1 | 21:47 | 1 | 0 | 2 | 1 |
| 0 | 0 | 21:48 | 3 | 0 | 3 | 0 |
| 1 | 0 | 21:49 | 1 | 0 | 2 | 0 |
| 0 | 0 | 21:50 | 1 | 0 | 1 | 0 |
| 1 | 0 | 21:51 | 2 | 0 | 3 | 0 |
| 2 | 0 | 21:52 | 1 | 0 | 3 | 0 |
| 1 | 0 | 21:53 | 0 | 0 | 1 | 0 |
| 0 | 0 | 21:54 | 0 | 0 | 0 | 0 |
| 0 | 1 | 21:55 | 0 | 0 | 0 | 1 |
| 0 | 0 | 21:56 | 1 | 0 | 1 | 0 |
| 0 | 0 | 21:57 | 1 | 0 | 1 | 0 |
| 4 | 0 | 21:58 | 0 | 0 | 4 | 0 |
| 1 | 0 | 21:59 | 1 | 0 | 2 | 0 |
| 1 | 0 | 22:00 | 2 | 0 | 3 | 0 |
| 0 | 0 | 22:01 | 2 | 1 | 2 | 1 |
| 1 | 0 | 22:02 | 4 | 1 | 5 | 1 |
| 0 | 0 | 22:03 | 2 | 1 | 2 | 1 |
| 2 | 0 | 22:04 | 3 | 0 | 5 | 0 |
| 2 | 0 | 22:05 | 3 | 0 | 5 | 0 |
| 0 | 0 | 22:06 | 4 | 0 | 4 | 0 |
| 0 | 0 | 22:07 | 3 | 0 | 3 | 0 |
| 2 | 0 | 22:08 | 0 | 0 | 2 | 0 |
| 0 | 1 | 22:09 | 0 | 0 | 0 | 1 |
| 0 | 0 | 22:10 | 1 | 0 | 1 | 0 |
| 0 | 0 | 22:11 | 1 | 0 | 1 | 0 |
| 2 | 0 | 22:12 | 0 | 1 | 2 | 1 |
| 1 | 0 | 22:12 | 1 | 0 | 2 | 0 |
| 0 | 0 | 22:13 | 0 | 0 | 0 | 0 |
| 1 | 0 | 22:14 | 2 | 0 | 3 | 0 |
| 1 | 0 | 22:15 | 1 | 0 | 2 | 0 |
| 0 | 0 | 22:10 | 0 | 0 | 0 | 0 |
| 1 | 0 | 22:17 | 0 | | 1 | 0 |
| 0 | 0 | 22:10 | 0 | 0 | 0 | 0 |
| 0 | 0 | 22:17 | 3 | 0 | 3 | 0 |
| 1 | 0 | 22:20 | 1 | 0 | 2 | 0 |
| 0 | 0 | 22:21 | 3 | 0 | 3 | 0 |
| 0 | 0 | 22:22 | 4 | 0 | 4 | 0 |
| 0 | 0 | 22:23 | 2 | 0 | 2 | 0 |
| 0 | 0 | 22:25 | 1 | 0 | 1 | 0 |
| 0 | 0 | 22:25 | 1 | 0 | 1 | 0 |
| 0 | 0 | 22:20 | 0 | 0 | 0 | 0 |
| 1 | 0 | 22:27 | 1 | 0 | 2 | 0 |
| 1 | 0 | 22:28 | 1 | 0 | 2 | 0 |
| 1 | 0 | 22:29 | 0 | 0 | 1 | 0 |
| 0 | 0 | 22:30 | 0 | 0 | 0 | 0 |
| 0 | 0 | 22:31 | 0 | 0 | 0 | 0 |
| 1 | 0 | 22:32 | 2 | 0 | 3 | 0 |
| 2 | 0 | 22:33 | 2 | 0 | 4 | 0 |
| 1 | 0 | 22:34 | 1 | 0 | 2 | 0 |
| 0 | 0 | 22:35 | 2 | 0 | 2 | 0 |
| 1 | 0 | 22:30 | 3 | 1 | 4 | 1 |
| 0 | 0 | 22:37 | 2 | 0 | 2 | 0 |
| 0 | 0 | 22:39 | 1 | 0 | 1 | 0 |
| 0 | 0 | 22:40 | 0 | 0 | 0 | 0 |
| 0 | 0 | 22:41 | 0 | 0 | 0 | 0 |
| 0 | 0 | 22:42 | 1 | 0 | 1 | 0 |
| 0 | 0 | 22:43 | 1 | 0 | 1 | 0 |
| 2 | 0 | 22:44 | 0 | 0 | 2 | 0 |
| 2 | 0 | 22:45 | 2 | 2 | 4 | 2 |
| 1 | 0 | 22:46 | 2 | 0 | 3 | 0 |
| 0 | 0 | 22:40 | 1 | 1 | 1 | 1 |
| 1 | 0 | 22:47 | 2 | 0 | 3 | 0 |
| 0 | 0 | 22:40 | 3 | 0 | 3 | 0 |
| 0 | 0 | 22:50 | 3 | 0 | 3 | 0 |
| 2 | 0 | 22:50 | 0 | 0 | 2 | 0 |
| 0 | 0 | 22:51 | 1 | 0 | 1 | 0 |
| 3 | 0 | 22:52 | 2 | 0 | 5 | 0 |
| 3 | 0 | 22:53 | 1 | 0 | 5 | 0 |
| 3 | 0 | 22:54 | 1 | 0 | 3 | 0 |
| 1 | 0 | 22:55 | 0 | 1 | 3 | 1 |
| 0 | 0 | 22:56 | 0 | 0 | 0 | 0 |
| 0 | 0 | 22.37 | 0 | | | 0 |

| 0 | 0 | 22:59 | 1 | 0 | 1 | 0 |
|---|---|-------|---|---|---|---|
| 1 | 0 | 23:00 | 1 | 0 | 2 | 0 |
| 1 | 0 | 23:01 | 1 | 0 | 2 | 0 |
| 0 | 0 | 23:02 | 2 | 0 | 2 | 0 |
| 1 | 0 | 23:03 | 0 | 0 | 1 | 0 |
| 0 | 0 | 23:04 | 2 | 0 | 2 | 0 |
| 1 | 0 | 23:05 | 0 | 0 | 1 | 0 |
| 1 | 0 | 23:06 | 1 | 0 | 2 | 0 |
| 1 | 0 | 23:07 | 1 | 0 | 2 | 0 |
| 1 | 0 | 23:08 | 1 | 0 | 2 | 0 |
| 2 | 0 | 23:09 | 2 | 0 | 4 | 0 |
| 2 | 0 | 23:10 | 1 | 0 | 3 | 0 |
| 1 | 0 | 23:11 | 3 | 0 | 4 | 0 |
| 0 | 0 | 23:12 | 2 | 0 | 2 | 0 |
| 1 | 0 | 23:13 | 0 | 0 | 1 | 0 |
| 1 | 0 | 23:14 | 2 | 1 | 3 | 1 |
| 2 | 0 | 23:15 | 1 | 0 | 3 | 0 |
| 0 | 0 | 23:16 | 0 | 0 | 0 | 0 |
| 4 | 0 | 23:17 | 0 | 1 | 4 | 1 |
| 1 | 0 | 23:18 | 2 | 0 | 3 | 0 |
| 0 | 0 | 23:19 | 2 | 0 | 2 | 0 |
| 1 | 0 | 23:20 | 0 | 0 | 1 | 0 |
| 0 | 0 | 23:21 | 3 | 0 | 3 | 0 |
| 1 | 0 | 23:22 | 1 | 0 | 2 | 0 |
| 0 | 0 | 23:23 | 1 | 0 | 1 | 0 |
| 3 | 0 | 23:24 | 1 | 0 | 4 | 0 |
| 0 | 0 | 23:25 | 0 | 0 | 0 | 0 |
| 0 | 0 | 23:26 | 0 | 0 | 0 | 0 |

22:58

| LOCATION: A | All A,B, and C | | DATE: | Friday 3/24/2017 | Miami Beach PSCF: | 1.0 |
|----------------------------------|-------------------|----------------|-------|------------------------------|------------------------|--------------------|
| # of Ve East/Nor UBER/LYFT | | TIME | | ehicles outh Side TAXI | Total # o UBER/LYFT | f Vehicles TAXI |
| 1 | 0 | 23:27 | 1 | 1 | 2 | 1 |
| 1 | 0 | 23:28 | 2 | 1 | 3 | 1 |
| 0 | 0 | 23:29 23:30 | 3 4 | 0 | 3 | 0 |
| 1 | 0 | 23:30 | 3 | 0 | 4 4 | 0 |
| 3 | 0 | 23:32 | 1 | 0 | 4 | 0 |
| 1 | 0 | 23:33 | 1 | 0 | 2 | 0 |
| 1 | 0 | 23:34 | 0 | 0 | 1 | 0 |
| 2 | 0 | 23:35 | 3 | 0 | 5 | 0 |
| 0 | 0 | 23:36 | 2 | 0 | 2 | 0 |
| 1 | 0 | 23:37 | 2 | 0 | 3 | 0 |
| 0 | 0 | 23:38 | 3 | 0 | 3 | 0 |
| 0 | 0 | 23:39 | 1 | 0 | 1 | 0 |
| 0 | 0 | 23:40 23:41 | 0 | 0 | 0 | 0 |
| 0 | 0 | 23:41 | 2 | 0 | 2 | 0 |
| 1 | 0 | 23:42 | 1 | 0 | 2 | 0 |
| 1 | 0 | 23:44 | 1 | 0 | 2 | 0 |
| 0 | 0 | 23:45 | 0 | 0 | 0 | 0 |
| 1 | 0 | 23:46 | 0 | 0 | 1 | 0 |
| 2 | 0 | 23:47 | 4 | 0 | 6 | 0 |
| 0 | 2 | 23:48 | 1 | 0 | 1 | 2 |
| 1 | 0 | 23:49 | 3 | 0 | 4 | 0 |
| 2 | 0 | 23:50 | 1 | 0 | 3 | 0 |
| 1 | 0 | 23:51 | 1 | 0 | 2 | 0 |
| 2 | 0 | 23:52 | 2 | 0 | 4 | 0 |
| 2 | 0 | 23:53 | 3 | 0 | 5 | 0 |
| 0 | 0 | 23:54 | 2 | 0 | 2 | 0 |
| 2 | 0 | 23:55 | 1 | 0 | 3 | 0 |
| 0 | 0 | 23:56 23:57 | 2 4 | 1 | 2 | 1 |
| 0 | 0 | 23:57 | 4 | 0 | 4 | 0 |
| 1 | 0 | 23:59 | 1 | 0 | 2 | 0 |
| 0 | 0 | 0:00 | 2 | 1 | 2 | 1 |
| 0 | 1 | 0:01 | 2 | 0 | 2 | 1 |
| 0 | 0 | 0:02 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0:03 | 1 | 0 | 1 | 0 |
| 0 | 0 | 0:04 | 1 | 0 | 1 | 0 |
| 0 | 0 | 0:05 | 1 | 0 | 1 | 0 |
| 1 | 0 | 0:06 | 2 | 0 | 3 | 0 |
| 1 | 0 | 0:07 | 3 | 0 | 4 | 0 |
| 0 | 0 | 0:08 | 2 | 0 | 2 | 0 |
| 0 | 0 | 0:09 | 1 | 0 | 1 | 0 |
| 0 | 0 | 0:10 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0:11 0:12 | 1 | 1 | 1 | 1 |
| 0 | 0 | 0:12 | 1 | 1 | 1 | 1 |
| 0 | 0 | 0:14 | 2 | 0 | 2 | 0 |
| 1 | 0 | 0:15 | 3 | 0 | 4 | 0 |
| 1 | 0 | 0:16 | 2 | 0 | 3 | 0 |
| 0 | 0 | 0:17 | 2 | 0 | 2 | 0 |
| 0 | 0 | 0:18 | 3 | 0 | 3 | 0 |
| 1 | 0 | 0:19 | 1 | 1 | 2 | 1 |
| 1 | 0 | 0:20 | 2 | 0 | 3 | 0 |
| 0 | 0 | 0:21 | 2 | 0 | 2 | 0 |
| 1 | 0 | 0:22 | 1 | 1 | 2 | 1 |
| 1 | 0 | 0:23 | 2 | 0 | 3 | 0 |
| 0 | 0 | 0:24 | 5 | 0 | 5 | 0 |
| 4 | 0 | 0:25 | 2 | 0 | 6 | 0 |
| 1 | 0 | 0:26 | 2 | 0 | 3 | 0 |
| 2 | 0 | 0:27 | 3 | 0 | 5 | 0 |
| 1 | 0 | 0:29 | 1 | 0 | 2 | 0 |
| 0 | 0 | 0:30 | 1 | 0 | 1 | 0 |
| 0 | 0 | 0:31 | 2 | 0 | 2 | 0 |
| 1 | 0 | 0:32 | 2 | 0 | 3 | 0 |
| 0 | 0 | 0:33 | 1 | 0 | 1 | 0 |
| 0 | 0 | 0:34 | 1 | 0 | 1 | 0 |
| 0 | 0 | 0:35 | 2 | 0 | 2 | 0 |
| 2 | 0 | 0:36 | 3 | 0 | 5 | 0 |
| 4 | 0 | 0:37 | 1 | 0 | 5 | 0 |
| 1 | 0 | 0:38 | 1 | 0 | 2 | 0 |
| 2 | 0 | 0:39 | 2 | 0 | 4 | 0 |
| 2 | 0 | 0:40 | 0 | 0 | 2 | 0 |
| 0 | 0 | 0:41 | 1 | 0 | 1 | 0 |
| 0 | 0 | 0:42 | 4 | 0 | 4 | 0 |
| 1 | 0 | 0:43 | 3 | 0 | 4 | 0 |
| 0 | 0 | 0:44 | 0 | 0 | 0 | 0 |
| 1 | 1 | 0:45 | 0 | 0 | 1 2 | 1 |
| 1 | U | 0:46 | I | U | ۷ | U |

| 1 | 0 | 0:48 | 1 | 0 | 2 | 0 |
|---|---|------|---|---|---|---|
| 1 | 0 | 0:49 | 0 | 0 | 1 | 0 |
| 0 | 0 | 0:50 | 1 | 0 | 1 | 0 |
| 2 | 0 | 0:51 | 0 | 0 | 2 | 0 |
| 2 | 0 | 0:52 | 4 | 0 | 6 | 0 |
| 2 | 0 | 0:53 | 0 | 0 | 2 | 0 |
| 1 | 0 | 0:54 | 2 | 0 | 3 | 0 |
| 0 | 0 | 0:55 | 0 | 0 | 0 | 0 |
| 1 | 1 | 0:56 | 0 | 0 | 1 | 1 |
| 0 | 0 | 0:57 | 2 | 0 | 2 | 0 |
| 2 | 0 | 0:58 | 1 | 0 | 3 | 0 |
| 3 | 0 | 0:59 | 0 | 0 | 3 | 0 |
| 1 | 0 | 1:00 | 2 | 0 | 3 | 0 |

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0:47

0

| Prepared by National Data & Surveying Services |
|--|
| Shared-Ride/Taxi Drop-off/Pick-up Accumulation Analy |

lysis

Shared-Kide/TaXLDFOp-OIT/PICK-L Bay Rd Btwn Lincoln Ter & 15th LOCATIION: Ter, 15th Ter & 16th St Btwn Bay Rd & West Ave ZONE: A DAY: Friday Miami Beach PSCF: DATE: 3/24/2017

1.00

| ZONE: | A | | DATE: | 3/24/2017 | | | | | | |
|----------------|--------------------|----------------|----------------|-------------------|----------------|-----------|--------------------------|-----------|----------|-------------|
| | 'ehicles t Side | TIME | | ehicles t Side | Total # of | Vehicles | | | | |
| UBER/LYFT 0 | TAXI 0 | 18:00 | UBER/LYFT 0 | TAXI 0 | UBER/LYFT 0 | TAXI 0 | | UBER/LYFT | TAXI | Combined |
| 0 | 0 | 18:01 | 0 | 0 | 0 | 0 | Time of Max Accumulation | Multiple | Multiple | Multiple |
| 0 | 0 | 18:02 | 1 | 0 | 1 | 0 | Maximum Accumulation | 3 | 1 | 3 |
| 0 | 0 | 18:03 18:04 | 0 | 0 | 0 | 0 | 50th % 95th % | 0 | 0 | 0 |
| 0 | 0 | 18:05 | 0 | 0 | 0 | 0 | | | 1 | . <u></u> 1 |
| 0 | 0 | 18:06 18:07 | 1 | 0 | 2 | 0 | | | | |
| 1 | 0 | 18:08 | 1 | 0 | 2 | 0 | | | | |
| 1 | 0 | 18:09 18:10 | 1 | 0 | 2 | 0 | | | | |
| 1 | 0 | 18:11 | 1 | 0 | 2 | 0 | | | | |
| 0 | 0 | 18:12 | 0 | 0 | 0 | 0 | | | | |
| 1 | 0 | 18:13 18:14 | 0 | 0 | 1 | 0 | | | | |
| 0 | 0 | 18:15 | 0 | 0 | 0 | 0 | | | | |
| 0 | 0 | 18:16 18:17 | 0 | 0 | 0 | 0 | | | | |
| 0 | 0 | 18:18 | 0 | 0 | 0 | 0 | | | | |
| 0 | 0 | 18:19 18:20 | 1 | 0 | 0 | 0 | | | | |
| 0 | 0 | 18:21 | 2 | 0 | 2 | 0 | | | | |
| 0 | 0 | 18:22 18:23 | 1 | 0 | 1 | 0 | | | | |
| 0 | 0 | 18:24 | 2 | 0 | 2 | 0 | | | | |
| 0 | 0 | 18:25 18:26 | 0 | 0 | 0 | 0 | | | | |
| 0 | 0 | 18:27 | 0 | 0 | 0 | 0 | | | | |
| 0 | 0 | 18:28 | 0 | 0 | 0 | 0 | | | | |
| 0 | 0 | 18:29 18:30 | 0 | 0 | 0 | 0 | | | | |
| 0 | 0 | 18:31 | 0 | 0 | 0 | 0 | | | | |
| 0 | 0 | 18:32 18:33 | 0 | 0 | 0 | 0 | | | | |
| 0 | 0 | 18:34 | 0 | 0 | 0 | 0 | | | | |
| 0 | 0 | 18:35 18:36 | 0 | 0 | 0 | 0 | | | | |
| 0 | 0 | 18:37 | 1 | 0 | 1 | 0 | | | | |
| 0 | 0 | 18:38 18:39 | 0 | 0 | 0 | 0 | | | | |
| 0 | 0 | 18:40 | 0 | 0 | 0 | 0 | | | | |
| 0 | 0 | 18:41 18:42 | 0 | 0 | 0 | 0 | | | | |
| 0 | 0 | 18:43 | 0 | 0 | 0 | 0 | | | | |
| 0 | 0 | 18:44 18:45 | 1 | 0 | 1 | 0 | | | | |
| 0 | 0 | 18:46 | 0 | 0 | 0 | 0 | | | | |
| 0 | 0 | 18:47 18:48 | 0 | 0 | 0 | 0 | | | | |
| 0 | 0 | 18:49 | 0 | 0 | 0 | 0 | | | | |
| 0 | 0 | 18:50 18:51 | 0 | 1 | 0 | 1 | | | | |
| 0 | 0 | 18:52 | 1 | 0 | 1 | 0 | | | | |
| 0 | 0 | 18:53 18:54 | 1 | 0 | 1 | 0 | | | | |
| 1 | 0 | 18:55 | 0 | 0 | 1 | 0 | | | | |
| 1 | 0 | 18:56 18:57 | 0 | 0 | 1 | 0 | | | | |
| 0 | 0 | 18:58 | 1 | 0 | 1 | 0 | | | | |
| 0 | 0 | 18:59 19:00 | 1 | 0 | 1 | 0 | | | | |
| 0 | 0 | 19:01 | 0 | 0 | 0 | 0 | | | | |
| 0 | 0 | 19:02 19:03 | 0 | 0 | 0 | 0 | | | | |
| 0 | 0 | 19:04 | 0 | 0 | 0 | 0 | | | | |
| 1 | 0 | 19:05 19:06 | 0 | 0 | 1 | 0 | | | | |
| 0 | 0 | 19:07 | 0 | 0 | 0 | 0 | | | | |
| 1 | 0 | 19:08 19:09 | 1 | 0 | 2 | 0 | | | | |
| 0 | 0 | 19:10 | 1 | 0 | 1 | 0 | | | | |
| 0 | 0 | 19:11 19:12 | 1 | 0 | 1 | 0 | | | | |
| 0 | 0 | 19:13 | 0 | 0 | 0 | 0 | | | | |
| 0 | 0 | 19:14 19:15 | 0 | 0 | 0 | 0 | | | | |
| 0 | 0 | 19:16 | 0 | 0 | 0 | 0 | | | | |
| 0 | 0 | 19:17 19:18 | 1 | 0 | 1 | 0 0 | | | | |
| 0 | 0 | 19:19 | 0 | 0 | 0 | 0 | | | | |
| 0 | 0 | 19:20 19:21 | 0 | 0 | 0 | 0 | | | | |
| 0 | 0 | 19:22 | 0 | 0 | 0 | 0 | | | | |
| 0 | 0 | 19:23 19:24 | 0 | 0 | 0 | 0 | | | | |
| 0 | 0 | 19:25 | 0 | 0 | 0 | 0 | | | | |
| 1 | 0 | 19:26 19:27 | 0 | 0 | 1 | 0 | | | | |
| 0 | 0 | 19:28 | 0 | 0 | 0 | 0 | | | | |
| 0 | 0 | 19:29 19:30 | 0 | 0 | 0 | 0 | | | | |
| 0 | 0 | 19:31 | 0 | 0 | 0 | 0 | | | | |
| 1 | 0 | 19:32 19:33 | 0 | 0 | 1 | 0 | | | | |
| 0 | 0 | 19:34 | 0 | 0 | 0 | 0 | | | | |
| 0 | 0 | 19:35 19:36 | 0 | 0 | 0 | 0 | | | | |
| 0 | 0 | 19:37 | 0 | 0 | 0 | 0 | | | | |
| 0 | 0 | 19:38 19:39 | 0 | 0 | 0 | 0 | | | | |
| 0 | 0 | 19:40 | 0 | 0 | 0 | 0 | | | | |
| 0 | 0 | 19:41 19:42 | 0 | 0 | 0 | 0 | | | | |
| 1 0 | 0 | 19:42 19:43 | 0 | 0 | 1 | 0 | | | | |
| 0 | 0 | 19:44 | 0 | 0 | 0 | 0 | | | | |
| 0 | 0 | 19:45 19:46 | 0 | 0 | 0 | 0 | | | | |
| 0 | 0 | 19:47 | 0 | 0 | 0 | 0 | | | | |
| 0 | 0 | 19:48 19:49 | 0 | 0 | 0 | 0 | | | | |
| | | | | | I | | | | | |

| Prepared by National Data & Surveying Services |
|---|
| Shared-Ride/Taxi Drop-off/Pick-up Accumulation Analysis |
| Bay Rd Btwn Lincoln Ter & 15th |

| Prepared by National Data & Surveyin | * | | |
|--|-----------------------|-------------------|------|
| Shared-Ride/Taxi Drop-off/Pick-up A | Accumulation Analysis | | |
| Bay Rd Btwn Lincoln Ter & 15th | | | |
| LOCATION: Ter, 15th Ter & 16th St Btwn Bay | DAY: Friday | Miami Beach PSCF: | 1.00 |
| Rd & West Ave | | | |
| ZONE: A | DATE: 3/24/2017 | | |
| | | | |

| Part of a sec bootPart of a sec bootPart of a sec bootPart of a sec boot000 <th>East</th> <th>A</th> <th></th> <th></th> <th>3/24/2017</th> <th></th> <th></th> | East | A | | | 3/24/2017 | | |
|---|--|---|--|---|---|---|----------|
| | | | TIME | | | Total # of | Vehicles |
| | ODEIVEITT | TAXI | | | TAXI | | |
| | | | | | | | |
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| | | | | | | | |
| | | | | | | | |
| | 1 | 0 | 19:55 | 0 | 0 | 1 | |
| | 0 | 0 | 19:56 | 0 | 0 | 0 | |
| | 1 | 0 | 19:57 | 0 | 0 | 1 | |
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| | | | | | | | |
| | | | - | | | | |
| | | | - | | | | |
| | 0 | 0 | 20:04 | 0 | 0 | 0 | |
| | 0 | 0 | 20:05 | 0 | 0 | 0 | |
| | 0 | 0 | 20:06 | 0 | 0 | 0 | |
| | | | | | | - | |
| | | | | | | | |
| 102010000020100000201000002010000002010000002010000002010000002010000002010000002010000002010000002021000002020000002020000002020000002020000002020000002020000002020000002020000002030000002030000002040000002040000002040000002040 | | | | | | | |
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| 1023%000023%0001023%0001022%1001022%1001022%100023%1000023%000023%000023%000023%000023%000023%000023%000023%000033%000033%000033%000033%000033%000033%000034%000034%000034%000034%000034%000034%000034%000034%000034%000034%000034%000034% <td>0</td> <td>0</td> <td>20:14</td> <td></td> <td></td> <td>0</td> <td></td> | 0 | 0 | 20:14 | | | 0 | |
| 020020020000020100010201000102021000020210000202100002021000202000002020000020200000202000002020000020300000203000002030000020300000203000002030000020300000203000002030000020400000204000002040000020400000204000012050000120600001206000 <td>0</td> <td>0</td> <td>20:15</td> <td>1</td> <td>0</td> <td>1</td> <td></td> | 0 | 0 | 20:15 | 1 | 0 | 1 | |
| 003088060000000100001000000100000020210000202100002021000020210000202000002020000020200000202000002020000020300000203000002030000020300000203000002030000020300000203000002030000020300000203000002030000020300000204000002040001020400010204000 </td <td>1</td> <td>0</td> <td>20:16</td> <td>0</td> <td>0</td> <td>1</td> <td></td> | 1 | 0 | 20:16 | 0 | 0 | 1 | |
| 0000000103021000030210000302100003021000030210000302100003021000030300000303000003030000030300000303000003030000030300000303000003030000030400000304000003040000030400000000000000000000000000010000010000010000010000 | 0 | 0 | 20:17 | 0 | 0 | 0 | |
| 100 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<> | | | | | | | |
| 103030000003031000030310000303100003031000030300000303000003030000030300000303000003030000030300000303000003030000030300000303000003030000030400000304000003040000030400000304000003040000030400000304000103040001030400010304000103040 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<> | | | | | | | |
| 0030210000030251000030251000030250000030270000030270000030370000030330000030330000030330000030340000030351000030351000030350000303600000303700000303600000303600000303600000304600000304600010304600010304600010304600011304600011304600011304600011304500013045 | | | | | | | |
| 003021000030210000302100003020000030200000303000003030000030300000303000003030000030300000303000003030000030300000303000003030000030300000303000003040000030400000304000103040001030400010304000103040001030400011350001135000113500< | | | | | | | |
| 00304000003620000036200000362000003620000036200000363000003630000036300000363000003630000036300000363000003640000036400000364000003640000036400110364001103640011036400111351001113650011136500113650001136500011365000113650001136500 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<> | | | | | | | |
| 00202100002270.00.00.000.02270.00.00.002000.00.00.00.002002000.00.00.000.02030.00.00.000.02030.00.00.000.02030.00.00.000.02030.00.00.000.02030.00.00.000.02030.00.00.000.02030.00.00.000.02030.00.00.000.02030.00.00.000.02030.00.00.000.02040.00.00.000.02040.00.00.010.02040.00.00.010.02040.00.00.010.02040.00.00.010.02040.00.00.010.02040.00.00.010.02040.00.00.010.02050.00.00.010.02050.00.00.010.02060.00.00.0 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> | | | | | | | |
| 0009029030000020210.00.000.020210.00.000.020310.00.000.020310.00.000.020320.00.000.020330.00.000.020351.00.000.020360.00.000.020370.00.000.020370.00.000.020370.00.000.020370.00.000.020370.00.000.020370.00.000.020370.00.000.020380.00.000.020380.00.000.020340.00.000.020480.00.010.020470.00.010.020480.00.010.020490.00.010.020490.00.010.020490.00.010.020490.00.010.00.00.00.012050.00.00.012050.00.00.012050.00.00.0< | | | | | | | |
| 0003937000000003937000000003930000000003931000000003933000000003934000000003934000000003934000000003934000000003934000000003934000000003934000000003934000000003934000000003934000000003934000000003934000000003934000000103944000000103945000000139500000000013950000000139500000000139540000000000000000000000000000000000000 | | | | | | | |
| 002020000020300000203000002030000020300000203000002031000002031000002030000020300000203000002030000020300000204000002040001020400010204000102040001020400010204000112050001120500011205000112050000120500000000000000000000000000 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> | | | | | | | |
| 00203100000203100000203300000203300000203300000203300000203300000203400000203400000203400000204000000204100000204300000204400000204400010204500010204600110204700110204800111204800111204900111204900111205100111205300011205500001205500001205600001205700001 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> | | | | | | | |
| 00203100000203200000203400000203400000203600000203800000203800000203800000203900000203400000204400000204400000204400010204800010204800010204800011205000011205100011205200011205300001205400001205500001205400001205500001205600001205700001205800000000000 | 0 | 0 | 20:29 | 0 | 0 | 0 | |
| 00203200000203400000203310000203310000203700000203700000203800000204800000204000000204400000204400000204400010204400010204400110204400110204400110204700111205800111205900111205100111205500111205500111205500111205500111205500111205600111000111000111 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<> | | | | | | | |
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| 0 0 21:37 0 0 0 | 0 1 2 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 21:18 21:19 21:20 21:21 21:22 21:23 21:24 21:25 21:26 21:26 21:27 21:28 21:29 21:30 21:31 21:32 | 0 1 0 0 0 0 1 2 1 0 0 0 0 0 1 1 1 1 1 1 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 1 1 1 0 0 1 1 2 1 1 0 0 0 0 0 0 0 0 0 0 | |
| | 0 1 2 0 1 1 0 0 1 0 0 0 0 0 0 0 0 0 0 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 21:18 21:19 21:20 21:21 21:22 21:23 21:24 21:25 21:26 21:27 21:28 21:29 21:30 21:31 21:32 21:33 21:34 | 0 1 0 0 0 0 1 2 1 0 0 0 0 0 1 1 1 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 1 1 1 0 0 1 1 2 1 1 2 0 0 0 0 0 0 0 0 0 | |
| | 0 1 2 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 21:18 21:19 21:20 21:21 21:22 21:23 21:24 21:25 21:26 21:27 21:28 21:29 21:30 21:31 21:32 21:33 21:34 21:35 | 0 1 0 0 0 0 0 1 2 1 0 0 0 0 0 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 1 1 1 0 0 1 1 2 1 0 0 0 0 0 1 2 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 | |
| 0 0 21:38 0 0 0 0 0 21:39 0 0 0 | 0 1 2 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 21:18 21:19 21:20 21:21 21:22 21:23 21:24 21:25 21:26 21:27 21:28 21:29 21:30 21:31 21:32 21:33 21:34 21:35 21:36 21:37 | 0 1 0 0 0 0 0 1 2 1 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 1 1 1 0 0 1 1 1 2 1 0 0 0 0 0 0 1 2 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 | |

| Prepared by National Data & Surveying Services | |
|---|----|
| Shared-Ride/Taxi Drop-off/Pick-up Accumulation Analys | si |
| Ray Pd Ptwp Lincoln Tor & 15th | |

| | Prepared by National Data & Surveying Services | | | |
|-------------|--|-----------------|-------------------|------|
| Shared-Rid | le/Taxi Drop-off/Pick-up Accumu | lation Analysis | | |
| В | ay Rd Btwn Lincoln Ter & 15th | | | |
| LOCATION: T | er, 15th Ter & 16th St Btwn Bay | DAY: Friday | Miami Beach PSCF: | 1.00 |
| R | d & West Ave | | | |
| ZONE: A | | DATE: 3/24/2017 | | |
| | | | | |

| ZONE: | A | | DATE: | 5/24/2017 | | |
|--|---|---|---|--|--|----------|
| | ehicles | 719.45 | | ehicles | Total # of V | /ehicles |
| East UBER/LYFT | Side TAXI | TIME | West UBER/LYFT | t Side TAXI | UBER/LYFT | TAXI |
| 0 | 0 | 21:40 | 1 | 0 | 1 | |
| 0 | 0 | 21:41 | 1 | 0 | 1 | |
| 0 | 0 | 21:42 | 1 | 0 | 1 | |
| 1 | 0 | 21:43 | 1 | 0 | 2 | |
| 1 | 0 | 21:44 | 1 | 0 | 2 | |
| 0 | 0 | 21:45 | 0 | 0 | 0 | |
| 0 | 0 | 21:46 | 0 | 0 | 0 | |
| 0 | 0 | 21:47 | 0 | 0 | 0 | |
| 0 | 0 | 21:48 | 0 | 0 | 0 | |
| 0 | 0 | 21:49 | 0 | 0 | 0 | |
| 0 | 0 | 21:50 | 0 | 0 | 0 | |
| 1 | 0 | 21:51 | 0 | 0 | 1 | |
| 0 | 0 | 21:52 | 0 | 0 | 0 | |
| 1 | 0 | 21:53 | 0 | 0 | 1 | |
| 0 | 0 | 21:54 | 0 | 0 | 0 | |
| 0 | 0 | 21:55 | 0 | 0 | 0 | |
| 0 | 0 | 21:56 | 0 | 0 | 0 | |
| 0 | 0 | 21:57 | 0 | 0 | 0 | |
| 1 | 0 | 21:58 | 0 | 0 | 1 | |
| 0 | 0 | 21:59 | 0 | 0 | 0 | |
| 0 | 0 | 22:00 | 0 | 0 | 0 | |
| 0 | 0 | 22:01 | 0 | 0 | | |
| 1 | 0 | 22:02 | 1 | 0 | 2 | |
| 0 | 0 | 22:03 | 0 | 0 | 0 | |
| 0 | 0 | 22:04 | 1 | 0 | 1 | |
| 0 | 0 | 22:05 | 1 | 0 | 1 | |
| 0 | 0 | 22:06 | 1 | 0 | 1 | |
| 0 | 0 | 22:07 | 1 | 0 | 1 | |
| 0 | 0 | 22:08 | 0 | 0 | 0 | |
| 0 | 0 | 22:09 | 0 | 0 | 0 | |
| 0 | 0 | 22:10 | 1 | 0 | 1 | |
| 0 | 0 | 22:11 | 0 | 0 | 0 | |
| 1 | 0 | 22:12 | 0 | 0 | 1 | |
| 1 | 0 | 22:13 | 0 | 0 | 1 | |
| 0 | 0 | 22:14 | 0 | 0 | 0 | |
| 0 | 0 | 22:15 | 0 | 0 | 0 | |
| 1 | 0 | 22:16 | 0 | 0 | 1 | |
| 0 | 0 | 22:17 | 0 | 0 | 0 | |
| 1 | 0 | 22:18 | 0 | 0 | 1 | |
| 0 | 0 | 22:19 | 0 | 0 | 0 | |
| 0 | 0 | 22:20 | 0 | 0 | 0 | |
| 1 | 0 | 22:21 | 0 | 0 | 1 | |
| 0 | 0 | 22:22 22:23 | 1 | 0 | 1 | |
| | | | | | | |
| 0 | 0 | 22:24 | 0 | 0 | 0 | |
| 0 | 0 | 22:25 | 0 | 0 | 0 | |
| 0 | 0 | 22:26 | 1 | 0 | | |
| 0 | 0 | 22:27 22:28 | 0 | 0 | 0 | |
| 0 | 0 | 22:28 | 0 | 0 | 0 | |
| 0 | 0 | 22:30 | 0 | 0 | 0 | |
| 0 | 0 | 22:31 | 0 | 0 | 0 | |
| 0 | 0 | 22:32 | 0 | 0 | 0 | |
| 0 | 0 | 22:33 | 0 | 0 | 0 | |
| 0 | 0 | 22:34 | 0 | 0 | 0 | |
| 0 | 0 | 22:35 | 0 | 0 | 0 | |
| 0 | 0 | 22:36 | 0 | 0 | 0 | |
| 1 | 0 | 22:37 | 1 | 0 | 2 | |
| 0 | 0 | 22:38 | 0 | 0 | 0 | |
| 0 | 0 | 22:39 | 0 | 0 | 0 | |
| 0 | 0 | 22:40 | 0 | 0 | 0 | |
| 0 | 0 | 22:41 | 0 | 0 | 0 | |
| 0 | 0 | 22:42 | 0 | 0 | 0 | |
| 0 | 0 | 22:43 | 0 | 0 | 0 | |
| 1 | 0 | 22:44 | 0 | 0 | 1 | |
| 1 | 0 | 22:45 | 1 | 0 | 2 | |
| 0 | 0 | 22:46 | 1 | 0 | 1 | |
| 0 | 0 | 22:47 | 1 | 0 | 1 | |
| 0 | 0 | 22:48 | 2 | 0 | 2 | |
| 0 | 0 | 22:49 | 3 | 0 | 3 | |
| 0 | 0 | 22:50 | 2 | 0 | 2 | |
| 0 | 0 | 22:51 | 0 | 0 | 0 | |
| 0 | 0 | 22:52 | 0 | 0 | 0 | |
| 2 | 0 | 22:53 | 1 | 0 | 3 | |
| 2 | 0 | 22:54 | 0 | 0 | 2 | |
| 1 | 0 | 22:55 | 0 | 0 | 1 | |
| 0 | 0 | 22:56 | 0 | 0 | 0 | |
| 0 | 0 | 22:57 | 0 | 0 | 0 | |
| 0 | 0 | 22:58 | 0 | 0 | 0 | |
| 0 | 0 | 22:59 | 0 | 0 | 0 | |
| 0 | 0 | 23:00 | 0 | 0 | 0 | |
| 0 | 0 | 23:01 | 0 | 0 | 0 | |
| 0 | 0 | 23:02 | 0 | 0 | 0 | |
| 0 | 0 | 23:03 | 0 | 0 | 0 | |
| 0 | 0 | 23:04 | 1 | 0 | 1 | |
| 0 | 0 | 23:05 | 0 | 0 | 0 | |
| | 0 | 23:06 | 0 | 0 | 0 | |
| 0 | | | 0 | 0 | 0 | |
| 0 | 0 | 23:07 | | | | |
| 0 | 0 | 23:08 | 0 | 0 | 0 | |
| 0 0 0 | 0 0 0 0 | 23:08 23:09 | 0 | 0 | 1 | |
| 0 0 0 0 | 0 0 0 0 | 23:08 23:09 23:10 | 0 1 1 | 0 | 1 | |
| 0 0 0 0 0 | 0 0 0 0 0 | 23:08 23:09 23:10 23:11 | 0 1 1 1 | 0 0 0 | 1 1 1 | |
| 0 0 0 0 0 0 | 0 0 0 0 0 | 23:08 23:09 23:10 23:11 23:12 | 0 1 1 1 0 | 0 0 0 0 | 1 1 1 0 | |
| 0 0 0 0 0 0 0 | 0 0 0 0 0 0 0 | 23:08 23:09 23:10 23:11 23:12 23:13 | 0 1 1 1 0 0 | 0 0 0 0 0 | 1 1 1 0 0 | |
| 0 0 0 0 0 0 1 | 0 0 0 0 0 0 0 0 | 23:08 23:09 23:10 23:11 23:12 23:13 23:14 | 0 1 1 0 0 0 | 0 0 0 0 0 0 | 1 1 0 0 | |
| 0 0 0 0 0 0 0 1 0 | 0 0 0 0 0 0 0 0 0 0 | 23:08 23:09 23:10 23:11 23:12 23:13 23:14 23:15 | 0 1 1 0 0 0 0 0 | 0 0 0 0 0 0 0 | 1 1 0 0 1 1 0 | |
| 0 0 0 0 0 0 0 1 0 0 0 | 0 0 0 0 0 0 0 0 0 0 0 0 0 | 23:08 23:09 23:10 23:11 23:12 23:13 23:14 23:15 23:16 | 0 1 1 0 0 0 0 0 0 0 | 0 0 0 0 0 0 0 0 0 | 1 1 0 0 1 1 0 0 | |
| 0 0 0 0 0 0 0 1 0 0 0 1 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 23:08 23:09 23:10 23:11 23:12 23:13 23:14 23:15 23:16 23:17 | 0 1 1 0 0 0 0 0 0 0 0 0 0 | 0 0 0 0 0 0 0 0 0 1 | 1 1 0 0 1 1 0 0 0 1 | |
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| 0 0 0 0 0 0 1 0 0 1 0 0 1 0 0 0 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 23:08 23:09 23:10 23:11 23:12 23:13 23:14 23:15 23:16 23:17 23:18 23:19 | 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0 0 0 0 0 0 0 0 0 1 0 0 0 | 1 1 0 0 1 1 0 0 0 1 1 0 0 0 | |
| 0 0 0 0 0 0 0 1 0 0 1 0 0 0 0 0 0 0 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 23:08 23:09 23:10 23:11 23:12 23:13 23:14 23:15 23:16 23:16 23:17 23:18 23:19 23:20 | 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 | 1 1 0 0 1 1 0 0 0 1 1 0 0 0 0 0 0 0 | |
| 0 0 0 0 0 0 1 0 0 1 0 0 1 0 0 0 0 0 0 0 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 23:08 23:09 23:10 23:11 23:12 23:13 23:14 23:15 23:16 23:17 23:18 23:19 23:20 23:21 | 0 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 | 1 1 1 0 0 1 1 0 0 0 1 1 0 0 0 0 0 0 0 0 | |
| 0 0 0 0 0 0 0 1 0 0 0 1 0 0 0 0 0 0 0 0 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 23:08 23:09 23:10 23:11 23:12 23:13 23:14 23:15 23:15 23:16 23:17 23:18 23:19 23:20 23:21 23:22 | 0 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 | 1 1 1 0 0 1 0 0 1 0 0 0 0 0 0 0 0 0 0 0 | |
| 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 23:08 23:09 23:10 23:11 23:12 23:13 23:14 23:15 23:16 23:16 23:17 23:18 23:19 23:20 23:21 23:22 23:22 23:23 | 0 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 | 1 1 1 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | |
| 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 23:08 23:09 23:10 23:11 23:12 23:13 23:14 23:15 23:16 23:16 23:17 23:18 23:19 23:20 23:21 23:22 23:22 23:23 23:24 | 0 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 | 1 1 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 | |
| 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 23:08 23:09 23:10 23:11 23:12 23:13 23:14 23:15 23:16 23:17 23:16 23:17 23:18 23:19 23:20 23:21 23:22 23:22 23:23 23:24 23:25 | 0 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 1 1 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 | |
| 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 23:08 23:09 23:10 23:11 23:12 23:13 23:14 23:15 23:16 23:17 23:18 23:19 23:20 23:21 23:22 23:22 23:23 23:24 23:25 23:26 | 0 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 1 1 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 | |
| 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 23:08 23:09 23:10 23:11 23:12 23:13 23:14 23:15 23:16 23:17 23:16 23:17 23:18 23:19 23:20 23:21 23:22 23:22 23:23 23:24 23:25 | 0 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 1 1 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 | |

| Prepared by National Data & Surveying Services |
|--|
| Shared-Ride/Taxi Drop-off/Pick-up Accumulation Analysi |
| Ray Pd Rtwo Lincoln Tor & 15th |

| Shared-R | Prepared by National Data & Surveying Services ide/Taxi Drop-off/Pick-up Accumu | lation Analysis | | |
|----------|---|-----------------|-------------------|------|
| | Bay Rd Btwn Lincoln Ter & 15th Ter, 15th Ter & 16th St Btwn Bay Rd & West Ave | DAY: Friday | Miami Beach PSCF: | 1.00 |
| ZONE: | A | DATE: 3/24/2017 | | |

| | A | | DATE. | 3/24/2017 | | |
|--|---|--|--|---|--|--------|
| | ehicles | | | ehicles | Total # of Vel | nicles |
| East UBER/LYFT | Side TAXI | TIME | West UBER/LYFT | Side TAXI | UBER/LYFT | TAXI |
| 0 | 0 | 23:30 | 2 | 0 | 2 | |
| 1 | 0 | 23:31 | 1 | 0 | 2 | |
| 1 | 0 | 23:32 | 0 | 0 | 1 | |
| 1 | 0 | 23:32 | 0 | 0 | 1 | |
| | | | | | | |
| 1 | 0 | 23:34 | 0 | 0 | 1 | |
| 1 | 0 | 23:35 | 1 | 0 | 2 | |
| 0 | 0 | 23:36 | 1 | 0 | 1 | |
| 0 | 0 | 23:37 | 0 | 0 | 0 | |
| 0 | 0 | 23:38 | 1 | 0 | 1 | |
| 0 | 0 | 23:39 | 0 | 0 | 0 | |
| 0 | 0 | 23:40 | 0 | 0 | 0 | |
| 1 | 0 | 23:41 | 0 | 0 | 1 | |
| 0 | 0 | 23:42 | 0 | 0 | 0 | |
| | | | | | | |
| 1 | 0 | 23:43 | 0 | 0 | 1 | |
| 0 | 0 | 23:44 | 0 | 0 | 0 | |
| 0 | 0 | 23:45 | 0 | 0 | 0 | |
| 1 | 0 | 23:46 | 0 | 0 | 1 | |
| 1 | 0 | 23:47 | 0 | 0 | 1 | |
| 0 | 1 | 23:48 | 0 | 0 | 0 | |
| 1 | 0 | 23:49 | 1 | 0 | 2 | |
| 2 | 0 | 23:50 | 0 | 0 | 2 | |
| | | | | | | |
| 1 | 0 | 23:51 | 0 | 0 | 1 | |
| 2 | 0 | 23:52 | 0 | 0 | 2 | |
| 1 | 0 | 23:53 | 1 | 0 | 2 | |
| 0 | 0 | 23:54 | 1 | 0 | 1 | |
| 1 | 0 | 23:55 | 0 | 0 | 1 | |
| 0 | 0 | 23:56 | 0 | 0 | 0 | |
| 0 | 0 | 23:57 | 1 | 0 | 1 | |
| 0 | 0 | 23:58 | 1 | 0 | 1 | |
| | | | | | | |
| 0 | 0 | 23:59 | 1 | 0 | 1 | |
| 0 | 0 | 0:00 | 1 | 0 | 1 | |
| 0 | 0 | 0:01 | 0 | 0 | 0 | |
| 0 | 0 | 0:02 | 0 | 0 | 0 | |
| 0 | 0 | 0:03 | 0 | 0 | 0 | |
| 0 | 0 | 0:04 | 0 | 0 | 0 | |
| 0 | 0 | 0:05 | 0 | 0 | 0 | |
| | | | | | | |
| 0 | 0 | 0:06 | 0 | 0 | 0 | |
| 0 | 0 | 0:07 | 0 | 0 | 0 | |
| 0 | 0 | 0:08 | 0 | 0 | 0 | |
| 0 | 0 | 0:09 | 0 | 0 | 0 | |
| 0 | 0 | 0:10 | 0 | 0 | 0 | |
| 0 | 0 | 0:11 | 0 | 0 | 0 | |
| 0 | 0 | 0:12 | 0 | 0 | 0 | |
| | | | | | | |
| 0 | 0 | 0:13 | 0 | 1 | 0 | |
| 0 | 0 | 0:14 | 1 | 0 | 1 | |
| 0 | 0 | 0:15 | 1 | 0 | 1 | |
| 1 | 0 | 0:16 | 1 | 0 | 2 | |
| 0 | 0 | 0:17 | 2 | 0 | 2 | |
| 0 | 0 | 0:18 | 1 | 0 | 1 | |
| 0 | 0 | 0:19 | 0 | 1 | 0 | |
| | | | | | | |
| 0 | 0 | 0:20 | 0 | 0 | 0 | |
| 0 | 0 | 0:21 | 0 | 0 | 0 | |
| 1 | 0 | 0:22 | 0 | 0 | 1 | |
| 1 | 0 | 0:23 | 2 | 0 | 3 | |
| 0 | 0 | 0:24 | 1 | 0 | 1 | |
| 1 | 0 | 0:25 | 0 | 0 | 1 | |
| 0 | 0 | 0:26 | 0 | 0 | 0 | |
| 0 | 0 | 0:20 | 0 | 0 | 0 | |
| | | | | | | |
| 0 | 0 | 0:28 | 0 | 0 | 0 | |
| 0 | 0 | 0:29 | 1 | 0 | 1 | |
| 0 | 0 | 0:30 | 0 | 0 | 0 | |
| 0 | 0 | 0:31 | 0 | 0 | 0 | |
| 0 | 0 | 0:32 | 0 | 0 | 0 | |
| 0 | 0 | 0:33 | 0 | 0 | 0 | |
| 0 | 0 | 0:34 | 0 | 0 | 0 | |
| 0 | 0 | 0:35 | 0 | 0 | 0 | |
| 0 | 0 | 0:35 | 0 | 0 | 0 | |
| | | | | | | |
| 1 | 0 | 0:37 | 0 | 0 | 1 | |
| 0 | 0 | 0:38 | 0 | 0 | 0 | |
| 0 | | | | 0 | 1 | |
| 1 | 0 | 0:39 | 0 | | | |
| | | 0:39 0:40 | 0 | 0 | 0 | |
| 1 | 0 | | | 0 | 0 | |
| 1 0 | 0 | 0:40 | 0 | | | |
| 1 0 0 0 | 0 0 0 | 0:40 0:41 0:42 | 0 0 1 | 0 | 0 | |
| 1 0 0 0 0 | 0 0 0 0 0 | 0:40 0:41 0:42 0:43 | 0 0 1 1 | 0 0 0 | 0 | |
| 1 0 0 0 0 0 | 0 0 0 0 0 0 | 0:40 0:41 0:42 0:43 0:44 | 0 0 1 1 0 | 0 0 0 0 | 0 | |
| 1 0 0 0 0 0 0 0 | 0 0 0 0 0 0 0 | 0:40 0:41 0:42 0:43 0:44 0:45 | 0 0 1 1 0 0 | 0 0 0 0 0 | 0 1 1 0 0 | |
| 1 0 0 0 0 0 0 0 0 | 0 0 0 0 0 0 0 0 0 | 0:40 0:41 0:42 0:43 0:44 0:45 0:46 | 0 0 1 1 0 0 0 | 0 0 0 0 0 0 | 0 1 0 0 0 | |
| 1 0 0 0 0 0 0 0 | 0 0 0 0 0 0 0 | 0:40 0:41 0:42 0:43 0:44 0:45 | 0 0 1 1 0 0 | 0 0 0 0 0 | 0 1 1 0 0 | |
| 1 0 0 0 0 0 0 0 0 | 0 0 0 0 0 0 0 0 0 | 0:40 0:41 0:42 0:43 0:44 0:45 0:46 | 0 0 1 1 0 0 0 | 0 0 0 0 0 0 | 0 1 0 0 0 | |
| 1 0 0 0 0 0 0 0 0 0 0 0 0 | 0 0 0 0 0 0 0 0 0 0 | 0:40 0:41 0:42 0:43 0:44 0:45 0:46 0:46 | 0 0 1 0 0 0 0 | 0 0 0 0 0 0 0 0 | 0 1 0 0 0 0 0 | |
| 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0:40 0:41 0:42 0:43 0:44 0:45 0:46 0:46 0:47 0:48 0:49 | 0 0 1 0 0 0 0 0 0 0 0 0 0 | 0 0 0 0 0 0 0 0 0 0 0 | 0 1 0 0 0 0 0 0 0 0 0 0 0 | |
| 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0:40 0:41 0:42 0:43 0:44 0:45 0:46 0:47 0:48 0:49 0:50 | 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 | 0 0 0 0 0 0 0 0 0 0 0 0 | 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | |
| 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0:40 0:41 0:42 0:43 0:44 0:45 0:46 0:47 0:48 0:49 0:50 0:51 | 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | |
| 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0:40 0:41 0:42 0:43 0:44 0:45 0:46 0:47 0:48 0:49 0:50 0:51 0:52 | 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | |
| 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0:40 0:41 0:42 0:43 0:44 0:45 0:46 0:47 0:48 0:49 0:50 0:51 | 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | |
| 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0:40 0:41 0:42 0:43 0:44 0:45 0:46 0:47 0:48 0:49 0:50 0:51 0:52 | 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | |
| 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0:40 0:41 0:42 0:43 0:44 0:45 0:46 0:47 0:48 0:49 0:50 0:51 0:52 0:53 | 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | |
| 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0:40 0:41 0:42 0:43 0:44 0:45 0:46 0:47 0:46 0:47 0:48 0:50 0:51 0:52 0:53 0:54 0:55 | 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | |
| 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0:40 0:41 0:42 0:43 0:44 0:45 0:46 0:47 0:48 0:49 0:50 0:50 0:51 0:52 0:53 0:54 0:55 0:56 | 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | |
| 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0:40 0:41 0:42 0:43 0:44 0:45 0:46 0:47 0:48 0:49 0:50 0:51 0:52 0:53 0:54 0:55 0:56 0:57 | 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 | |
| 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0:40 0:41 0:42 0:43 0:44 0:45 0:46 0:47 0:48 0:49 0:50 0:51 0:52 0:53 0:54 0:55 0:56 0:57 0:58 | 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | |
| 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0:40 0:41 0:42 0:43 0:44 0:45 0:46 0:47 0:48 0:49 0:50 0:51 0:52 0:53 0:54 0:55 0:56 0:57 | 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 | |

 LOCATION: 15th St Btwn Bay Rd & West Ave
 DAY: Friday
 Miami Beach PSCF:
 1.00

 ZONE: B
 DATE: 3/24/2017

| ZONE: | | | | 3/24/2017 | 1 | _ | | | | |
|----------------|-------------------|----------------|----------------|-------------------|---------------------|--------|--------------------------------|-----------|-------|------------|
| East | ehicles t Side | TIME | West | ehicles t Side | Total # of Vehicles | | | | | |
| UBER/LYFT 2 | TAXI 0 | 18:00 | UBER/LYFT 1 | TAXI 0 | UBER/LYFT TAXI 3 | 0 | | UBER/LYFT | TAXI | Combined |
| 3 | 0 | 18:01 | 0 | 0 | 3 | 0 | Time of Max Accumulation | 19:20 | 20:16 | 20:19 9 |
| 0 | 0 | 18:02 18:03 | 2 | 0 | 3 | 0 | Maximum Accumulation 50th % | 9 2 | 3 | 2 |
| 0 | 0 | 18:04 | 2 | 0 | 2 | 0 | 95th % | 4 | 1 | 5 |
| 0 | 0 | 18:05 18:06 | 2 | 1 | 2 | 1 | | | | |
| 0 | 1 | 18:07 | 2 | 1 | 2 | 2 | | | | |
| 0 | 0 | 18:08 18:09 | 2 | 0 | 2 | 0 | | | | |
| 0 | 0 | 18:10 | 3 | 0 | 3 | 0 | | | | |
| 1 | 0 | 18:11 18:12 | 2 | 0 | 3 | 0 | | | | |
| 2 | 0 | 18:13 | 3 | 0 | 5 | 0 | | | | |
| 1 | 0 | 18:14 | 3 | 0 | 4 | 0 | | | | |
| 0 | 0 | 18:15 18:16 | 3 | 0 | 3 | 0 | | | | |
| 1 | 0 | 18:17 | 1 | 0 | 2 | 0 | | | | |
| 0 | 0 | 18:18 18:19 | 1 2 | 0 | 3 | 0 | | | | |
| 1 | 0 | 18:20 | 2 | 0 | 3 | 0 | | | | |
| 1 | 0 | 18:21 18:22 | 2 | 0 | 3 | 0 | | | | |
| 1 | 0 | 18:23 | 0 | 1 | 1 | 1 | | | | |
| 1 | 0 | 18:24 | 0 | 0 | 1 | 0 | | | | |
| 1 | 0 | 18:25 18:26 | 0 | 0 | 2 | 0 | | | | |
| 1 | 0 | 18:27 | 0 | 0 | 1 | 0 | | | | |
| 1 | 0 | 18:28 18:29 | 0 | 0 | 1 | 0 | | | | |
| 1 | 1 | 18:30 | 0 | 0 | 1 | 1 | | | | |
| 1 | 0 | 18:31 18:32 | 0 | 0 | 1 | 0 | | | | |
| 2 | 0 | 18:32 | 1 | 0 | 3 | 0 | | | | |
| 1 | 0 | 18:34 | 1 | 0 | 2 | 0 | | | | |
| 0 | 0 | 18:35 18:36 | 2 | 0 | 2 | 0 | | | | |
| 0 | 0 | 18:37 | 1 | 0 | 1 | 0 | | | | |
| 0 | 0 | 18:38 18:39 | 0 | 0 | 0 | 0 | | | | |
| 0 | 1 | 18:40 | 1 | 0 | 1 | 1 | | | | |
| 2 | 0 | 18:41 18:42 | 3 | 0 | 5 | 0 | | | | |
| 1 | 0 | 18:43 | 3 | 0 | 4 | 0 | | | | |
| 2 | 0 | 18:44 | 0 | 1 | 2 | 1 | | | | |
| 2 | 0 | 18:45 18:46 | 1 | 0 | 3 | 0 | | | | |
| 0 | 0 | 18:47 | 1 | 0 | 1 | 0 | | | | |
| 1 | 0 | 18:48 18:49 | 1 | 0 | 2 | 0 | | | | |
| 1 | 1 | 18:50 | 0 | 0 | 1 | 1 | | | | |
| 1 | 0 | 18:51 | 0 | 0 | 1 | 0 | | | | |
| 0 | 0 | 18:52 18:53 | 2 | 0 | 2 | 0 | | | | |
| 0 | 0 | 18:54 | 2 | 0 | 2 | 0 | | | | |
| 0 | 0 | 18:55 18:56 | 1 | 0 | 0 | 0 1 | | | | |
| 1 | 0 | 18:57 | 0 | 1 | 1 | 1 | | | | |
| 1 | 0 | 18:58 18:59 | 1 | 1 | 2 | 1 | | | | |
| 3 | 0 | 19:00 | 2 | 0 | 5 | 0 | | | | |
| 1 | 0 | 19:01 19:02 | 2 | 0 | 3 | 0 | | | | |
| 1 | 0 | 19:03 | 0 | 0 | 1 | 0 | | | | |
| 1 | 0 | 19:04 | 1 | 0 | 2 | 0 | | | | |
| 1 | 0 | 19:05 19:06 | 3 | 1 | 4 | 1 | | | | |
| 1 | 0 | 19:07 | 3 | 0 | 4 | 0 | | | | |
| 0 | 0 | 19:08 19:09 | 2 | 0 | 2 | 0 | | | | |
| 1 | 0 | 19:10 | 2 | 0 | 3 | 0 | | | | |
| 0 | 0 | 19:11 19:12 | 1 4 | 0 | 4 | 0 | | | | |
| 0 | 0 | 19:13 | 1 | 0 | 1 | 0 | | | | |
| 0 | 0 | 19:14 19:15 | 1 3 | 0 | 1 4 | 0 | | | | |
| 1 | 0 | 19:16 | 3 | 0 | 4 | 0 | | | | |
| 0 | 0 | 19:17 19:18 | 4 | 0 | 4 5 | 0 | | | | |
| 3 | 0 | 19:19 | 4 | 0 | 7 | 0 | | | | |
| 5 | 0 | 19:20 19:21 | 4 | 0 | <mark>9</mark> 4 | 0 | | | | |
| 3 | 0 | 19:21 | 4 | 0 | 7 | 0 | | | | |
| 2 | 0 | 19:23 19:24 | 3 | 0 | 5 | 0 | | | | |
| 0 | 0 | 19:24 19:25 | 3 | 0 | 5 | 0 | | | | |
| 0 | 0 | 19:26 | 2 | 0 | 2 | 0 | | | | |
| 0 | 0 | 19:27 19:28 | 2 4 | 0 | 3 | 0 | | | | |
| 0 | 0 | 19:29 | 3 | 0 | 3 | 0 | | | | |
| 0 | 0 | 19:30 19:31 | 2 | 0 | 2 | 0 | | | | |
| 0 | 0 | 19:32 | 4 | 0 | 4 | 0 | | | | |
| 0 | 0 | 19:33 19:34 | 3 | 0 | 3 | 0 | | | | |
| 0 | 0 | 19:34 19:35 | 2 | 2 | 2 | ∠ 1 | | | | |
| 3 | 0 | 19:36 | 2 | 0 | 5 | 0 | | | | |
| 3 | 0 | 19:37 19:38 | 0 | 0 | 3 | 0 2 | | | | |
| 2 | 0 | 19:39 | 1 | 1 | 3 | 1 | | | | |
| 1 | 1 | 19:40 19:41 | 1 | 0 | 2 | 1 0 | | | | |
| 2 | 0 | 19:42 | 1 | 0 | 3 | 0 | | | | |
| 2 | 0 | 19:43 | 1 | 0 | 3 | 0 | | | | |
| 3 | 0 | 19:44 19:45 | 1 | 0 | 4 | 0 | | | | |
| 1 | 0 | 19:46 | 2 | 0 | 3 | 0 | | | | |
| 1 | 0 | 19:47 19:48 | 1 | 0 | 2 | 0 | | | | |
| 1 | 0 | 19:49 | 1 | 0 | 2 | 0 | | | | |
| | | | | | | | | | | |

Miami Beach PSCF: 1.00 ZONE: B DATE: 3/24/2017

| ZONE: B # of Vehicles | | | DATE: | | | | |
|--------------------------|-----------|----------------|----------------|-----------|----------------|------|--|
| East | Side | TIME | West | | Total # of | | |
| UBER/LYFT 1 | TAXI 0 | 19:50 | UBER/LYFT 2 | TAXI 0 | UBER/LYFT 3 | TAXI | |
| 0 | 0 | 19:50 | 2 | 0 | 2 | (| |
| 0 | 0 | 19:52 | 1 | 0 | 1 | U | |
| 0 | 0 | 19:53 | 1 | 0 | 1 | (| |
| 1 | 0 | 19:54 19:55 | 2 | 0 | 3 | | |
| 0 | 0 | 19:56 | 4 | 0 | 4 | (| |
| 1 | 1 | 19:57 | 1 | 0 | 2 | | |
| 0 | 0 | 19:58 | 1 | 1 | 1 | | |
| 1 | 0 | 19:59 20:00 | 0 | 0 | 1 | (| |
| 0 | 0 | 20:01 | 1 | 1 | 1 | | |
| 2 | 0 | 20:02 | 2 | 0 | 4 | l | |
| 2 | 0 | 20:03 | 1 | 0 | 3 | U | |
| 1 | 0 | 20:04 20:05 | 2 | 0 | 3 | (| |
| 0 | 0 | 20:06 | 1 | 0 | 1 | (| |
| 0 | 0 | 20:07 | 3 | 0 | 3 | U | |
| 0 | 0 | 20:08 | 3 | 0 | 3 | (| |
| 0 | 0 | 20:09 20:10 | 2 | 0 | 2 | (| |
| 1 | 0 | 20:11 | 2 | 1 | 3 | | |
| 1 | 1 | 20:12 | 2 | 0 | 3 | | |
| 1 | 2 | 20:13 20:14 | 2 | 0 | 3 | | |
| 1 | 1 | 20:14 | 2 | 0 | 3 | | |
| 0 | 1 | 20:16 | 2 | 2 | 2 | | |
| 0 | 1 | 20:17 | 2 | 2 | 2 | | |
| 1 | 1 | 20:18 | 2 | 2 | 3 | | |
| 3 | 1 | 20:19 20:20 | 2 3 | 2 | 3 | | |
| 0 | 1 | 20:20 | 3 | 0 | 3 | | |
| 1 | 1 | 20:22 | 3 | 0 | 4 | | |
| 0 | 1 | 20:23 20:24 | 5 | 0 | 5 | | |
| 1 | 1 | 20:24 | 2 | 1 | 3 | | |
| 0 | 0 | 20:26 | 3 | 0 | 3 | (| |
| 0 | 0 | 20:27 | 2 | 0 | 2 | (| |
| 1 | 0 | 20:28 20:29 | 1 | 0 | 2 | (| |
| 3 | 0 | 20:29 | 1 | 0 | 4 | (| |
| 1 | 0 | 20:31 | 1 | 0 | 2 | (| |
| 0 | 0 | 20:32 | 0 | 0 | 0 | (| |
| 0 | 0 | 20:33 20:34 | 1 | 0 | 1 | (| |
| 1 | 0 | 20:35 | 1 | 0 | 2 | (| |
| 1 | 0 | 20:36 | 1 | 0 | 2 | (| |
| 2 | 0 | 20:37 20:38 | 0 | 0 | 2 | (| |
| 0 | 0 | 20:38 | 0 | 0 | 0 | | |
| 0 | 0 | 20:40 | 2 | 0 | 2 | (| |
| 1 | 0 | 20:41 | 1 | 0 | 2 | (| |
| 0 | 0 | 20:42 20:43 | 0 | 0 | 0 | (| |
| 0 | 0 | 20:44 | 1 | 0 | 1 | | |
| 0 | 0 | 20:45 | 2 | 0 | 2 | l | |
| 1 | 0 | 20:46 | 0 | 0 | 1 | (| |
| 2 | 0 | 20:47 20:48 | 1 | 0 | 3 | (| |
| 1 | 0 | 20:49 | 3 | 0 | 4 | (| |
| 1 | 0 | 20:50 | 0 | 0 | 1 | (| |
| 1 | 0 | 20:51 | 0 | 0 | 1 | (| |
| 1 | 0 | 20:52 20:53 | 0 | 0 | 3 | (| |
| 2 | 0 | 20:54 | 1 | 0 | 3 | (| |
| 2 | 0 | 20:55 | 1 | 0 | 3 | (| |
| 2 | 0 | 20:56 20:57 | 1 | 0 | 3 | (| |
| 2 | 0 | 20:57 | 0 | 0 | 2 | (| |
| 2 | 0 | 20:59 | 2 | 0 | 4 | (| |
| 1 | 0 | 21:00 | 1 | 0 | 2 | (| |
| 0 | 0 | 21:01 21:02 | 1 | 0 | 2 | (| |
| 0 | 0 | 21:02 | 2 | 0 | 2 | (| |
| 0 | 0 | 21:04 | 2 | 1 | 2 | | |
| 2 | 0 | 21:05 | 0 | 0 | 2 | (| |
| 0 | 0 | 21:06 21:07 | 1 | 0 | 1 | | |
| 1 | 0 | 21:08 | 3 | 0 | 4 | (| |
| 1 | 0 | 21:09 | 2 | 0 | 3 | l | |
| 1 | 0 | 21:10 21:11 | 3 | 1 | 4 | | |
| 1 | 0 | 21:11 21:12 | 1 | 0 | 2 | (| |
| 2 | 0 | 21:12 | 0 | 0 | 2 | (| |
| 1 | 0 | 21:14 | 1 | 0 | 2 | (| |
| 1 | 0 | 21:15 21:16 | 1 | 0 | 2 | (| |
| 2 | 0 | 21:16 | 1 | 0 | 3 | (| |
| 1 | 0 | 21:18 | 1 | 0 | 2 | (| |
| 1 | 0 | 21:19 | 1 | 0 | 2 | (| |
| 0 | 0 | 21:20 21:21 | 1 | 0 | 1 | | |
| 0 | 0 | 21:21 | 2 | 0 | 2 | | |
| 0 | 0 | 21:23 | 1 | 0 | 1 | (| |
| 0 | 0 | 21:24 | 1 | 0 | 1 | (| |
| 0 | 0 | 21:25 21:26 | 2 | 0 | 2 | (| |
| 0 | 0 | 21:26 | 3 | 0 | 3 | (| |
| 0 | 0 | 21:28 | 1 | 0 | 1 | | |
| 0 | 0 | 21:29 | 0 | 0 | 0 | (| |
| 0 | 0 | 21:30 | 0 | 0 | 0 | | |
| 0 | 0 | 21:31 21:32 | 2 | 0 | 2 | | |
| 0 | 1 | 21:32 | 0 | 0 | 0 | | |
| 0 | 0 | 21:34 | 0 | 0 | 0 | (| |
| 1 | 1 | 21:35 | 0 | 0 | 1 | | |
| | 0 | 21:36 | 1 | 0 | 1 | (| |
| 0 | | 21:37 | 1 | 0 | 1 | (| |
| 0 0 0 | 0 | 21:37 21:38 | 1 | 0 | 1 | | |

Miami Beach PSCF: DATE: 3/24/2017 ZONE: B

1.00

| ZONE: | ehicles | 1 | | 3/24/2017 ehicles | | |
|--------------------------------------|-----------------------|----------------------------------|------------------|----------------------|-------------------------|--------------------|
| East | Side | TIME | | t Side | Total # of UBER/LYFT | f Vehicles TAXI |
| UBER/LYFT 0 | TAXI 0 | 21:40 | 0 | TAXI 0 | 0 | 1441 |
| 0 | 0 | 21:41 | 0 | 0 | 0 | C |
| 0 | 0 | 21:42 21:43 | 0 | 0 | 0 | 0 |
| 0 | 0 | 21:43 | 0 | 0 | 0 | (|
| 0 | 0 | 21:45 | 0 | 0 | 0 | (|
| 0 | 0 | 21:46 | 1 | 0 | 1 | (|
| 0 | 0 | 21:47 | 1 | 0 | 1 | (|
| 0 | 0 | 21:48 21:49 | 3 | 0 | 3 | (|
| 0 | 0 | 21:50 | 1 | 0 | 1 | (|
| 0 | 0 | 21:51 | 2 | 0 | 2 | (|
| 1 | 0 | 21:52 | 1 | 0 | 2 | (|
| 0 | 0 | 21:53 21:54 | 0 | 0 | 0 | (|
| 0 | 1 | 21:55 | 0 | 0 | 0 | 1 |
| 0 | 0 | 21:56 | 1 | 0 | 1 | (|
| 0 | 0 | 21:57 | 1 | 0 | 1 | (|
| 3 | 0 | 21:58 21:59 | 0 | 0 | 3 | (|
| 1 | 0 | 22:00 | 2 | 0 | 3 | (|
| 0 | 0 | 22:01 | 1 | 1 | 1 | 1 |
| 0 | 0 | 22:02 | 3 | 1 | 3 | 1 |
| 0 | 0 | 22:03 22:04 | 2 | 1 | 2 | 1 |
| 1 | 0 | 22:05 | 2 | 0 | 3 | (|
| 0 | 0 | 22:06 | 3 | 0 | 3 | (|
| 0 | 0 | 22:07 | 2 | 0 | 2 | (|
| 2 | 0 | 22:08 22:09 | 0 | 0 | 2 | 1 |
| 0 | 0 | 22:09 | 0 | 0 | 0 | (|
| 0 | 0 | 22:11 | 1 | 0 | 1 | (|
| 1 | 0 | 22:12 | 0 | 1 | 1 | 1 |
| 0 | 0 | 22:13 22:14 | 0 | 0 | 0 | (|
| 0 | 0 | 22:14 | 1 | 0 | 1 | (|
| 0 | 0 | 22:16 | 0 | 0 | 0 | (|
| 0 | 0 | 22:17 | 0 | 0 | 0 | (|
| 0 | 0 | 22:18 22:19 | 0 | 0 | 0 | (|
| 0 | 0 | 22:19 | 3 | 0 | 3 | (|
| 0 | 0 | 22:21 | 1 | 0 | 1 | (|
| 0 | 0 | 22:22 | 2 | 0 | 2 | (|
| 0 | 0 | 22:23 22:24 | 2 | 0 | 2 | (|
| 0 | 0 | 22:25 | 1 | 0 | 1 | (|
| 0 | 0 | 22:26 | 0 | 0 | 0 | (|
| 0 | 0 | 22:27 | 0 | 0 | 0 | (|
| 1 | 0 | 22:28 22:29 | 1 | 0 | 2 | (|
| 1 | 0 | 22:30 | 0 | 0 | 1 | (|
| 0 | 0 | 22:31 | 0 | 0 | 0 | (|
| 0 | 0 | 22:32 | 0 | 0 | 0 | (|
| 0 | 0 | 22:33 22:34 | 1 | 0 | 2 | (|
| 1 | 0 | 22:35 | 1 | 0 | 2 | (|
| 0 | 0 | 22:36 | 2 | 0 | 2 | (|
| 0 | 0 | 22:37 | 2 | 1 | 2 | 1 |
| 0 | 0 | 22:38 22:39 | 2 | 0 | 2 | (|
| 0 | 0 | 22:40 | 0 | 0 | 0 | (|
| 0 | 0 | 22:41 | 0 | 0 | 0 | (|
| 0 | 0 | 22:42 | 1 | 0 | 1 | (|
| 0 | 0 | 22:43 22:44 | 1 | 0 | 1 | (|
| 0 | 0 | 22:45 | 1 | 2 | 1 | 2 |
| 0 | 0 | 22:46 | 1 | 0 | 1 | (|
| 0 | 0 | 22:47 | 0 | 1 | 0 | 1 |
| 0 | 0 | 22:48 22:49 | 0 | 0 | 0 | (|
| 0 | 0 | 22:49 | 1 | 0 | 1 | (|
| 1 | 0 | 22:51 | 0 | 0 | 1 | (|
| 0 | 0 | 22:52 | 1 | 0 | 1 | (|
| 0 | 0 | 22:53 22:54 | 1 | 0 | 2 | (|
| 0 | 0 | 22:55 | 1 | 0 | 1 | (|
| 0 | 0 | 22:56 | 0 | 1 | 0 | 1 |
| 0 | 0 | 22:57 | 0 | 0 | 0 | (|
| 0 | 0 | 22:58 22:59 | 0 | 0 | 1 | (|
| 1 | 0 | 23:00 | 1 | 0 | 2 | (|
| 1 | 0 | 23:01 | 1 | 0 | 2 | (|
| 0 | 0 | 23:02 | 2 | 0 | 2 | (|
| 1 | 0 | 23:03 23:04 | 0 | 0 | 1 | (|
| 0 | 0 | 23:05 | 0 | 0 | 0 | (|
| 0 | 0 | 23:06 | 0 | 0 | 0 | (|
| 0 | 0 | 23:07 23:08 | 1 | 0 | 1 | (|
| 1 | 0 | 23:08 | 1 | 0 | 2 | (|
| 1 | 0 | 23:10 | 0 | 0 | 1 | (|
| 1 | 0 | 23:11 | 2 | 0 | 3 | (|
| 0 | 0 | 23:12 23:13 | 2 | 0 | 2 | (|
| 0 | 0 | 23:13 23:14 | 2 | 0 | 2 | 1 |
| 1 | 0 | 23:14 | 1 | 0 | 2 | (|
| 0 | 0 | 23:16 | 0 | 0 | 0 | (|
| 2 | 0 | 23:17 | 0 | 0 | 2 | (|
| 1 | 0 | 23:18 23:19 | 1 | 0 | 2 | |
| | 0 | 23:19 | 0 | 0 | 0 | |
| 0 | | 23:21 | 3 | 0 | 3 | (|
| 0 0 0 | 0 | | 1 | 0 | 1 | C |
| 0 0 0 0 | 0 | 23:22 | | | | |
| 0 0 0 0 0 | 0 | 23:23 | 1 | 0 | 1 | (|
| 0 0 0 0 | 0 | | | 0 0 0 0 | 1 2 0 | (|
| 0 0 0 0 1 0 0 0 | 0 0 0 0 0 | 23:23 23:24 23:25 23:26 | 1 1 0 0 | 0 0 0 | 2 0 0 | (|
| 0 0 0 0 1 0 | 0 0 0 0 | 23:23 23:24 23:25 | 1 1 0 | 0 | 2 | 0 |

Miami Beach PSCF: ZONE: B DATE: 3/24/2017

of Vehicles

1.00

| | 1 | 0 | 0:52 | 4 | 0 | 5 | 0 |
|---|---|---|------|---|---|---|---|
| | 1 | 0 | 0:53 | 0 | 0 | 1 | 0 |
| | 0 | 0 | 0:54 | 2 | 0 | 2 | 0 |
| ſ | 0 | 0 | 0:55 | 0 | 0 | 0 | 0 |
| | 0 | 1 | 0:56 | 0 | 0 | 0 | 1 |
| | 0 | 0 | 0:57 | 2 | 0 | 2 | 0 |
| | 2 | 0 | 0:58 | 0 | 0 | 2 | 0 |
| | 2 | 0 | 0:59 | 0 | 0 | 2 | 0 |
| | 0 | 0 | 1:00 | 0 | 0 | 0 | 0 |

Miami Beach PSCF: 1.00 ZONE: C DATE: 3/24/2017

| ZONE: | С | | DATE: | 3/24/2017 | | | | | | |
|-----------|--------------------|----------------|-----------|-------------------|-----------|------------|--------------------------|-----------------------|------------------|----------------------|
| | 'ehicles t Side | TIME | | ehicles t Side | Total # c | f Vehicles | | | | |
| UBER/LYFT | TAXI | | UBER/LYFT | TAXI | UBER/LYFT | TAXI | | | TAVI | Combined |
| 0 | 0 | 18:00 18:01 | 1 | 0 | 1 | | Time of Max Accumulation | UBER/LYFT Multiple | TAXI Multiple | Combined Multiple |
| 0 | 0 | 18:02 | 0 | 0 | C | | Maximum Accumulation | 2 | 1 | 2 |
| 0 | 0 | 18:03 | 0 | 0 | C | | 50th % | 0 | 0 | 0 |
| 0 | 0 | 18:04 18:05 | 0 | 0 | 1 | 0 | 95th % | 1 | 0 | 1 |
| 0 | 0 | 18:06 | 0 | 0 | C | 0 | | | | |
| 0 | 0 | 18:07 | 0 | 0 | 0 | | | | | |
| 0 | 0 | 18:08 18:09 | 0 | 0 | 0 | | | | | |
| 0 | 0 | 18:10 | 0 | 0 | C | 0 | | | | |
| 0 | 0 | 18:11 | 0 | 0 | 0 | | | | | |
| 0 | 0 | 18:12 18:13 | 0 | 0 | 0 | | | | | |
| 0 | 0 | 18:14 | 0 | 0 | C | | | | | |
| 0 | 0 | 18:15 18:16 | 0 | 0 | 0 | | | | | |
| 0 | 0 | 18:17 | 0 | 0 | C | | | | | |
| 0 | 0 | 18:18 | 0 | 0 | 0 | | | | | |
| 0 | 0 | 18:19 18:20 | 0 | 0 | 0 | | | | | |
| 0 | 0 | 18:21 | 0 | 0 | C | | | | | |
| 0 | 0 | 18:22 18:23 | 0 | 0 | 0 | | | | | |
| 0 | 0 | 18:24 | 0 | 0 | C | | | | | |
| 0 | 0 | 18:25 | 0 | 0 | 0 | | | | | |
| 0 | 0 | 18:26 18:27 | 0 | 0 | 1 | | | | | |
| 0 | 0 | 18:28 | 0 | 0 | C | | | | | |
| 0 | 0 | 18:29 18:30 | 0 | 0 | 0 | | | | | |
| 0 | 0 | 18:31 | 0 | 0 | C | 0 | | | | |
| 0 | 0 | 18:32 | 0 | 0 | 0 | | | | | |
| 0 | 0 | 18:33 18:34 | 0 | 0 | 0 | | | | | |
| 0 | 0 | 18:35 | 0 | 0 | 0 | | | | | |
| 0 | 0 | 18:36 18:37 | 0 | 0 | 0 | | | | | |
| 0 | 0 | 18:38 | 0 | 0 | C | 0 | | | | |
| 0 | 0 | 18:39 18:40 | 0 | 0 | 1 | | | | | |
| 0 | 0 | 18:40 | 0 | 0 | C | | | | | |
| 0 | 0 | 18:42 | 0 | 0 | C | | | | | |
| 1 | 0 | 18:43 18:44 | 0 | 0 | 1 | | | | | |
| 0 | 0 | 18:45 | 0 | 0 | C | | | | | |
| 0 | 0 | 18:46 18:47 | 1 | 0 | 1 | | | | | |
| 0 | 0 | 18:47 | 1 | 0 | 1 | | | | | |
| 0 | 0 | 18:49 | 0 | 0 | C | | | | | |
| 0 | 0 | 18:50 18:51 | 0 | 0 | 1 | | | | | |
| 0 | 0 | 18:52 | 0 | 0 | C | | | | | |
| 0 | 0 | 18:53 18:54 | 0 | 0 | | | | | | |
| 0 | 0 | 18:55 | 0 | 0 | 0 | | | | | |
| 0 | 0 | 18:56 | 0 | 0 | C | | | | | |
| 0 | 0 | 18:57 18:58 | 0 | 0 | 0 | | | | | |
| 0 | 0 | 18:59 | 0 | 0 | C | | | | | |
| 0 | 0 | 19:00 19:01 | 0 | 0 | 0 | | | | | |
| 0 | 0 | 19:02 | 0 | 0 | C | | | | | |
| 0 | 0 | 19:03 19:04 | 0 | 0 | 0 | | | | | |
| 0 | 0 | 19:04 | 0 | 0 | C | | | | | |
| 0 | 0 | 19:06 | 0 | 0 | C | | | | | |
| 0 | 0 | 19:07 19:08 | 0 | 0 | 1 | | | | | |
| 0 | 0 | 19:09 | 0 | 0 | C | 0 | | | | |
| 0 | 0 | 19:10 19:11 | 0 | 0 | 0 | | | | | |
| 0 | 0 | 19:12 | 0 | 0 | 0 | | | | | |
| 0 | 0 | 19:13 19:14 | 1 | 0 | 1 | | | | | |
| 0 | 0 | 19:14 19:15 | 0 | 0 | C | | | | | |
| 0 | 0 | 19:16 | 0 | 0 | 0 | | | | | |
| 0 | 0 | 19:17 19:18 | 0 | 0 | 0 | | | | | |
| 0 | 0 | 19:19 | 1 | 0 | 1 | 0 | | | | |
| 0 | 0 | 19:20 19:21 | 0 | 0 | 0 | | | | | |
| 0 | 0 | 19:22 | 1 | 0 | 1 | 0 | | | | |
| 0 | 0 | 19:23 19:24 | 0 | 0 | 1 | | | | | |
| 0 | 0 | 19:24 19:25 | 0 | 0 | 1 | | | | | |
| 0 | 0 | 19:26 | 0 | 0 | C | | | | | |
| 0 | 0 | 19:27 19:28 | 0 | 0 | 0 | | | | | |
| 0 | 0 | 19:29 | 1 | 0 | 1 | 0 | | | | |
| 0 | 0 | 19:30 19:31 | 0 | 0 | 0 | | | | | |
| 1 | 0 | 19:32 | 0 | 0 | 1 | | | | | |
| 0 | 0 | 19:33 | 0 | 0 | C | | | | | |
| 0 | 0 | 19:34 19:35 | 0 | 0 | 0 | | | | | |
| 0 | 0 | 19:36 | 1 | 0 | 1 | | | | | |
| 0 | 0 | 19:37 19:38 | 0 | 0 | 1 | | | | | |
| 0 | 0 | 19:39 | 0 | 0 | C | 0 | | | | |
| 0 | 0 | 19:40 19:41 | 1 | 0 | 1 | | | | | |
| 0 | 0 | 19:41 | 1 | 0 | 1 | 0 | | | | |
| 0 | 0 | 19:43 | 0 | 0 | 0 | | | | | |
| 0 | 0 | 19:44 19:45 | 0 | 0 | 0 | | | | | |
| 0 | 0 | 19:46 | 0 | 0 | C | 0 | | | | |
| 0 | 0 | 19:47 19:48 | 0 | 0 | 0 | | | | | |
| 0 | 0 | 19:48 19:49 | 0 | 0 | 0 | | | | | |
| | | | | | | | | | | |

 LOCATION:
 DAY: Friday
 Miami Beach PSCF:
 1.00

 ZONE: C
 DATE: 3/24/2017

| ZONE: | | | | 3/24/2017 | | |
|-----------------------|-------------------|-------------------------|-------------|-------------------|-------------|-------------|
| | ehicles : Side | TIME | | ehicles t Side | Total # of | f Vehicles |
| UBER/LYFT | TAXI | 10.50 | UBER/LYFT | TAXI | UBER/LYFT | TAXI |
| 0 | 0 | 19:50 19:51 | 0 | 0 | 0 | C |
| 0 | 0 | 19:52 | 1 | 0 | 1 | C |
| 0 | 0 | 19:53 | 0 | 0 | 0 | C |
| 0 | 0 | 19:54 19:55 | 0 | 0 | 0 | C |
| 0 | 0 | 19:56 | 0 | 0 | 0 | C |
| 0 | 0 | 19:57 | 0 | 0 | 0 | C |
| 0 | 0 | 19:58 | 0 | 0 | 0 | C |
| 0 | 0 | 19:59 | 0 | 0 | 0 | C |
| 0 | 0 | 20:00 20:01 | 0 | 0 | 0 | C |
| 0 | 0 | 20:01 | 0 | 0 | 0 | C |
| 1 | 0 | 20:03 | 0 | 0 | 1 | C |
| 0 | 0 | 20:04 | 1 | 0 | 1 | C |
| 0 | 0 | 20:05 20:06 | 0 | 0 | 0 | C |
| 0 | 0 | 20:00 | 0 | 0 | 0 | C |
| 0 | 0 | 20:08 | 0 | 0 | 0 | C |
| 0 | 0 | 20:09 | 0 | 0 | 0 | C |
| 0 | 0 | 20:10 20:11 | 0 | 0 | 0 | C |
| 0 | 0 | 20:11 | 0 | 0 | 0 | C |
| 0 | 0 | 20:13 | 0 | 0 | 0 | C |
| 0 | 0 | 20:14 | 0 | 0 | 0 | C |
| 0 | 0 | 20:15 | 0 | 0 | 0 | C |
| 0 | 0 | 20:16 20:17 | 0 | 0 | 0 | C |
| 0 | 0 | 20:17 | 0 | 0 | 0 | C |
| 0 | 0 | 20:19 | 1 | 0 | 1 | C |
| 0 | 0 | 20:20 | 1 | 0 | 1 | 0 |
| 0 | 0 | 20:21 20:22 | 0 | 0 | 0 | C |
| 0 | 0 | 20:22 | 0 | 0 | 0 | C |
| 0 | 0 | 20:24 | 0 | 0 | 0 | C |
| 0 | 0 | 20:25 | 0 | 0 | 0 | 0 |
| 0 | 1 | 20:26 20:27 | 1 | 0 | 1 | 1 |
| 0 | 0 | 20:27 | 0 | 0 | 0 | C |
| 0 | 0 | 20:29 | 0 | 0 | 0 | C |
| 0 | 0 | 20:30 | 0 | 0 | 0 | C |
| 0 | 0 | 20:31 20:32 | 0 | 0 | 0 | C |
| 0 | 0 | 20:32 | 0 | 0 | 0 | C |
| 1 | 0 | 20:34 | 0 | 0 | 1 | C |
| 0 | 0 | 20:35 | 1 | 0 | 1 | C |
| 0 | 0 | 20:36 20:37 | 0 | 0 | 0 | C |
| 0 | 0 | 20:37 | 0 | 0 | 0 | C |
| 0 | 0 | 20:39 | 0 | 0 | 0 | C |
| 0 | 0 | 20:40 | 0 | 0 | 0 | C |
| 0 | 0 | 20:41 20:42 | 0 | 0 | 0 | C |
| 0 | 0 | 20:42 | 0 | 0 | 0 | C |
| 0 | 0 | 20:44 | 0 | 0 | 0 | C |
| 1 | 0 | 20:45 | 1 | 0 | 2 | C |
| 0 | 0 | 20:46 20:47 | 1 | 0 | 1 | C |
| 0 | 0 | 20:47 | 0 | 0 | 0 | C |
| 0 | 0 | 20:49 | 0 | 0 | 0 | C |
| 1 | 0 | 20:50 | 0 | 0 | 1 | C |
| 0 | 0 | 20:51 20:52 | 0 | 0 | 0 | C |
| 0 | 0 | 20:52 | 0 | 0 | 0 | C |
| 0 | 0 | 20:54 | 0 | 0 | 0 | C |
| 0 | 0 | 20:55 | 0 | 0 | 0 | C |
| 0 | 0 | 20:56 | 0 | 0 | 0 | C |
| 0 | 0 | 20:57 20:58 | 0 | 0 | 0 | |
| 0 | 0 | 20:59 | 1 | 0 | 1 | C |
| 0 | 0 | 21:00 | 0 | 0 | 0 | C |
| 0 | 0 | 21:01 | 0 | 0 | 0 | C |
| 0 | 0 | 21:02 21:03 | 0 | 0 | 0 | C |
| 0 | 0 | 21:03 | 0 | 0 | 0 | C |
| 1 | 0 | 21:05 | 0 | 0 | 1 | C |
| 1 | 0 | 21:06 | 0 | 0 | 1 | C |
| 0 | 0 | 21:07 21:08 | 0 | 0 | 0 | C |
| 0 | 0 | 21:00 | 0 | 0 | 0 | C |
| 0 | 0 | 21:10 | 0 | 0 | 0 | C |
| 0 | 0 | 21:11 21:12 | 0 | 0 | 0 | C |
| 1 | 0 | 21:12 21:13 | 0 | 0 | 1 | C |
| 1 | 0 | 21:14 | 1 | 0 | 2 | C |
| 0 | 0 | 21:15 | 1 | 0 | 1 | C |
| 1 | 0 | 21:16 | 0 | 0 | 1 | C |
| 0 | 0 | 21:17 21:18 | 0 | 0 | 1 | C |
| 1 | 0 | 21:18 | 0 | 0 | 1 | C |
| 1 | 0 | 21:20 | 0 | 0 | 1 | C |
| 0 | 0 | 21:21 | 2 | 0 | 2 | C |
| 0 | 0 | 21:22 21:23 | 0 | 0 | 0 | C |
| 1 | 0 | 21:23 | 0 | 1 | 1 | 1 |
| 0 | 0 | 21:25 | 0 | 0 | 0 | |
| 0 | 0 | 21:26 | 0 | 0 | 0 | C |
| 0 | 0 | 21:27 21:28 | 0 | 0 | 0 | |
| 0 | 0 | 21:28 | 0 | 0 | 0 | |
| | 0 | 21:30 | 0 | 0 | 0 | |
| 0 | 0 | 21:31 | 1 | 0 | 1 | C |
| 0 | | 21:32 | 0 | 0 | 0 | C |
| 0 | 0 | 21.22 | 0 | | | C |
| 0 | 0 0 0 | 21:33 21:34 | 0 | 1 | 1 | 1 |
| 0 0 0 | 0 | | | | | 1 |
| 0 0 1 0 0 | 0 0 0 0 | 21:34 21:35 21:36 | 0 1 0 | 1 0 0 | 1 1 0 | 1 0 0 |
| 0 0 0 1 0 | 0 0 0 | 21:34 21:35 | 0 | 1 0 | 1 | 1 0 0 |

 LOCATION:
 DAY: Friday
 Miami Beach PSCF:
 1.00

 ZONE: C
 DATE: 3/24/2017

| ZONE: | | | | 3/24/2017 | | |
|----------------|-----------------|----------------|----------------|-------------------|----------------|-----------|
| East | ehicles Side | TIME | West | ehicles t Side | | fVehicles |
| UBER/LYFT 0 | TAXI 0 | 21:40 | UBER/LYFT 0 | TAXI 0 | UBER/LYFT 0 | TAXI |
| 1 | 0 | 21:41 | 0 | 0 | 1 | |
| 0 | 0 | 21:42 21:43 | 0 | 0 | 0 | |
| 0 | 0 | 21:43 | 1 | 0 | 1 | |
| 0 | 0 | 21:45 | 0 | 0 | 0 | |
| 0 | 0 | 21:46 21:47 | 0 | 0 | 0 | |
| 0 | 0 | 21:47 | 0 | 0 | 0 | |
| 0 | 0 | 21:49 | 0 | 0 | 0 | |
| 0 | 0 | 21:50 21:51 | 0 | 0 | 0 | |
| 1 | 0 | 21:51 | 0 | 0 | 1 | |
| 0 | 0 | 21:53 | 0 | 0 | 0 | |
| 0 | 0 | 21:54 21:55 | 0 | 0 | 0 | |
| 0 | 0 | 21:56 | 0 | 0 | 0 | |
| 0 | 0 | 21:57 | 0 | 0 | 0 | 1 |
| 0 | 0 | 21:58 21:59 | 0 | 0 | 0 | |
| 0 | 0 | 22:00 | 0 | 0 | 0 | |
| 0 | 0 | 22:01 | 1 | 0 | 1 | |
| 0 | 0 | 22:02 22:03 | 0 | 0 | 0 | |
| 1 | 0 | 22:04 | 0 | 0 | 1 | |
| 1 | 0 | 22:05 | 0 | 0 | 1 | |
| 0 | 0 | 22:06 22:07 | 0 | 0 | 0 | |
| 0 | 0 | 22:08 | 0 | 0 | 0 | |
| 0 | 0 | 22:09 | 0 | 0 | 0 | |
| 0 | 0 | 22:10 22:11 | 0 | 0 | 0 | |
| 0 | 0 | 22:12 | 0 | 0 | 0 | |
| 0 | 0 | 22:13 | 1 | 0 | 1 | |
| 0 | 0 | 22:14 22:15 | 1 | 0 | 0 | |
| 0 | 0 | 22:16 | 1 | 0 | 1 | |
| 0 | 0 | 22:17 | 0 | 0 | 0 | |
| 0 | 0 | 22:18 22:19 | 0 | 0 | 0 | |
| 0 | 0 | 22:20 | 0 | 0 | 0 | |
| 0 | 0 | 22:21 22:22 | 0 | 0 | 0 | |
| 0 | 0 | 22:22 | 0 | 0 | 0 | |
| 0 | 0 | 22:24 | 0 | 0 | 0 | |
| 0 | 0 | 22:25 22:26 | 0 | 0 | 0 | |
| 0 | 0 | 22:27 | 0 | 0 | 0 | |
| 0 | 0 | 22:28 | 0 | 0 | 0 | |
| 0 | 0 | 22:29 22:30 | 0 | 0 | 0 | |
| 0 | 0 | 22:31 | 0 | 0 | 0 | 1 |
| 0 | 0 | 22:32 22:33 | 0 | 0 | 0 | |
| 1 | 0 | 22:33 | 1 | 0 | 2 | |
| 0 | 0 | 22:35 | 0 | 0 | 0 | 1 |
| 0 | 0 | 22:36 22:37 | 0 | 0 | 0 | |
| 0 | 0 | 22:37 | 0 | 0 | 0 | |
| 0 | 0 | 22:39 | 0 | 0 | 0 | |
| 0 | 0 | 22:40 22:41 | 0 | 0 | 0 | |
| 0 | 0 | 22:42 | 0 | 0 | 0 | |
| 0 | 0 | 22:43 | 0 | 0 | 0 | |
| 1 | 0 | 22:44 22:45 | 0 | 0 | 1 | |
| 1 | 0 | 22:46 | 0 | 0 | 1 | |
| 0 | 0 | 22:47 | 0 | 0 | 0 | |
| 0 | 0 | 22:48 22:49 | 0 | 0 | 1 | |
| 0 | 0 | 22:50 | 0 | 0 | 0 | |
| 1 | 0 | 22:51 22:52 | 0 | 0 | 1 | |
| 0 | 0 | 22:52 22:53 | 0 | 0 | 0 | |
| 0 | 0 | 22:54 | 0 | 0 | 0 | |
| 1 | 0 | 22:55 22:56 | 0 | 0 | 1 | |
| 0 | 0 | 22:56 | 0 | 0 | 0 | |
| 0 | 0 | 22:58 | 0 | 0 | 0 | |
| 0 | 0 | 22:59 23:00 | 0 | 0 | 0 | |
| 0 | 0 | 23:00 | 0 | 0 | 0 | |
| 0 | 0 | 23:02 | 0 | 0 | 0 | |
| 0 | 0 | 23:03 23:04 | 0 | 0 | 0 | |
| 1 | 0 | 23:04 | 0 | 0 | 1 | |
| 1 | 0 | 23:06 | 1 | 0 | 2 | |
| 1 0 | 0 | 23:07 23:08 | 0 | 0 | 1 | |
| 1 | 0 | 23:09 | 0 | 0 | 1 | |
| 1 | 0 | 23:10 23:11 | 0 | 0 | 1 | |
| 0 | 0 | 23:11 23:12 | 0 | 0 | 0 | |
| 1 | 0 | 23:13 | 0 | 0 | 1 | |
| 0 | 0 | 23:14 | 0 | 0 | 0 | |
| 1 | 0 | 23:15 23:16 | 0 | 0 | 1 | |
| 1 | 0 | 23:17 | 0 | 0 | 1 | |
| 0 | 0 | 23:18 | 1 | 0 | 1 | |
| 0 | 0 | 23:19 23:20 | 2 | 0 | 2 | |
| 0 | 0 | 23:21 | 0 | 0 | 0 | |
| 1 | 0 | 23:22 | 0 | 0 | 1 | |
| 0 | 0 | 23:23 23:24 | 0 | 0 | 0 | |
| 0 | 0 | 23:25 | 0 | 0 | 0 | |
| 0 | 0 | 23:26 | 0 | 0 | 0 | |
| 0 | 0 | 23:27 23:28 | 0 | 0 | 0 | |
| | 0 | 23:29 | 0 | 0 | 0 | |

Miami Beach PSCF: 1.00 ZONE: C DATE: 3/24/2017

of Vehicles

| 1 | 0 | 0:52 | 0 | 0 | 1 | 0 |
|---|---|------|---|---|---|---|
| 1 | 0 | 0:53 | 0 | 0 | 1 | 0 |
| 1 | 0 | 0:54 | 0 | 0 | 1 | 0 |
| 0 | 0 | 0:55 | 0 | 0 | 0 | 0 |
| 1 | 0 | 0:56 | 0 | 0 | 1 | 0 |
| 0 | 0 | 0:57 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0:58 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0:59 | 0 | 0 | 0 | 0 |
| 0 | 0 | 1:00 | 0 | 0 | 0 | 0 |

Attachment C

Field Observation Summary



Shared-ride drop-off/pick-up operation being completed within the intersection of Bay Road and 15th Street.



Shared-ride drop-off/pick-up operation being completed along 15th Terrace.

Field Observation Summary



Shared-ride drop-off/pick-up operation being completed along Bay Road.



Shared-ride drop-off/pick-up operation being completed within the site's main driveway (15th Street) while driving the wrong way.

Field Observation Summary



Shared-ride vehicle accumulation at the site's main driveway (15^{th} Street).

Attachment E: Trip Generation

PEAK HOUR TRIP GENERATION COMPARISON

| ITE TRIP GENERATI | ON CHAR | ACTERI | STICS | | _ | TIONAL BUTION | | GROS VOLUM | | MULTII REDU | MODAL CTION | EXT | ERNAL TI | RIPS | | RNAL TURE | EXT | FERNAL | TRIPS | | S-BY TURE | EX | NET NEW | |
|-------------------------------------|----------------|-------------|---------------------------|--------------|-----------|------------------|-----|---------------|-------|----------------|----------------|-----|----------|-------|---------|--------------|-----|--------|-------|---------|--------------|-----|---------|----------|
| Land Use | ITE Edition | ITE Code | Scale | ITE Units | Per In | cent Out | In | Out | Total | Percent | MR Trips | In | Out | Total | Percent | IC Trips | In | Out | Total | Percent | PB Trips | In | Out | Total |
| 1 Residential Condominium/Townhouse | 9 | 230 | 426 | du | 17% | 83% | 28 | 137 | 165 | 10.0% | 17 | 25 | 123 | 148 | 0.0% | 0 | 25 | 123 | 148 | 0.0% | 0 | 25 | 123 | 148 |
| 2 Apartment | 9 | 220 | 1261 | du | 20% | 80% | 124 | 498 | 622 | 10.0% | 62 | 112 | 448 | 560 | 0.0% | 0 | 112 | 448 | 560 | 0.0% | 0 | 112 | 448 | 560 |
| 3 | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | | - | | | | | | | | | | | | | | | | | | | | | L |
| 9 | | - | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | | | | | | | | | I |
| 15 | | 1 | | | | | | | | | | | | | 1 | | | | | | | | | <u> </u> |
| ITE Land Use Code | | Ra | ate or Equa | ation | | Total: | 152 | 635 | 787 | 10.0% | 79 | 137 | 571 | 708 | 0.0% | 0 | 137 | 571 | 708 | 0.0% | 0 | 137 | 571 | 708 |
| 230 220 | _ | LN(Y) | = 0.8*LN() =0.49*(X)+3 | X)+0.26 | - | | | • | • | • | | • | | • | • | • | • | • | | • | | • | • | |

EXISTING WEEKDAY AM PEAK HOUR TRIP GENERATION

PROPOSED WEEKDAY AM PEAK HOUR TRIP GENERATION

| | | ITE TRIP GENERATIO | N CHAR | ACTERIS | STICS | | - | TIONAL BUTION | | GROS VOLUM | | _ | MODAL CTION | EXT | ERNAL TI | RIPS | INTE CAP | | EXT | ERNAL | TRIPS | | S-BY TURE | EX | NET NEW TERNAL TH | |
|---|----|-----------------------------------|---------|---------|-------------|---------|--------------|------------------|-----|---------------|-------|---------|----------------|-----|----------|-------|-------------|-------|-----|-------|-------|------------|--------------|----------|----------------------|-------|
| | | | ITE | ITE | | ITE | Per | cent | | | | | MR | | | | | IC | | | | | PB | | | |
| _ | | Land Use | Edition | Code | Scale | Units | In A To (| Out | In | Out | Total | Percent | Trips | In | Out | Total | Percent | Trips | In | Out | Total | Percent | Trips | In 05 | Out | Total |
| | - | Residential Condominium/Townhouse | 9 | 230 | 426 | du | 17% | 83% | 28 | 137 | 165 | 10.0% | 16 | 25 | 124 | 149 | 0.8% | 1 | 25 | 123 | 148 | 0.0% | 0 | 25 | 123 | 148 |
| | | Apartment | 9 | 220 | 1093 | du | 20% | 80% | 108 | 431 | 539 | 10.0% | 54 | 97 | 388 | 485 | 0.8% | 4 | 96 | 385 | 481 | 0.0% | 0 | 96 | 385 | 481 |
| | - | Quality Restaurant | 9 | 931 | 299 | seat | 50% | 50% | 5 | 4 | 9 | 10.0% | 1 | 4 | 4 | 8 | 37.5% | 3 | 2 | 3 | 5 | 0.0% | 0 | 2 | 3 | 5 |
| | 4 | Shopping Center | 9 | 820 | 6.318 | ksf | 62% | 38% | 18 | 11 | 29 | 10.0% | 3 | 16 | 10 | 26 | 23.1% | 6 | 12 | 8 | 20 | 0.0% | 0 | 12 | 8 | 20 |
| G | 5 | | | | | | | | | | | | | | | | | | | | | | | | | |
| R | 6 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 7 | | | | | | | | | | | | | | | | | | | | | | | | | |
| U | 8 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Р | 9 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 10 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 11 | | | | | | | | | | | | | | | | | | | | | | | | | |
| _ | 12 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 13 | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| | 14 | | | | | | | | | | | | | | | | | | | | | | | | <u> </u> | + |
| | 15 | | | | | | | | | | | | | | | | | | | | | | | | <u> </u> | + |
| | 15 | ITE Land Use Code | | Ra | ate or Equa | tion | | Total: | 159 | 583 | 742 | 10.0% | 74 | 142 | 526 | 668 | 2.1% | 14 | 135 | 519 | 654 | 0.0% | 0 | 135 | 519 | 654 |
| | | 230 | - | | = 0.8*LN() | | • | i otal. | 109 | 505 | 74Z | 10.0 % | 74 | 142 | 520 | 000 | 2.1/0 | 14 | 135 | 519 | 0.04 | 0.078 | 0 | 135 | 519 | 034 |
| | | | | | | | | | | | | | | | | | | | | i | 1 | | | | | TOTAL |
| | | 220 | | | =0.49*(X)+3 | | | | | | | | | | | | | | | | | | | IN | OUT | TOTAL |
| | | 931 | | | Y=0.03(X) | | | | | | | | | | | | | | | | Net N | New Vehicl | e i rips | -2 | -52 | -54 |
| | | 820 | | LN(Y) : | = 0.61*LN(| X)+2.24 | | | | | | | | | | | | | | | | | | | | |

PEAK HOUR TRIP GENERATION COMPARISON

| | | ITE TRIP GENERATION | N CHAR | ACTERIS | STICS | | DIREC | TIONAL BUTION | | GROS VOLUM | | MULTII REDU | | EXT | ERNAL TH | RIPS | | RNAL TURE | EXT | ERNAL | TRIPS | | S-BY TURE | EXT | NET NEW | |
|---|----|-----------------------------------|----------------|-------------|--------------------------|--------------|-------|------------------|-----|---------------|-------|----------------|-------------|-----|----------|-------|---------|--------------|-----|-------|-------|---------|--------------|-----|---------|---------|
| | | Land Use | ITE Edition | ITE Code | Scale | ITE Units | Per | cent Out | In | Out | Total | Percent | MR Trips | In | Out | Total | Percent | IC Trips | In | Out | Total | Percent | PB Trips | In | Out | Total |
| | 1 | Residential Condominium/Townhouse | 9 | 230 | 426 | du | 67% | 33% | 132 | 65 | 197 | 10.0% | 20 | 119 | 58 | 177 | 0.0% | 0 | 119 | 58 | 177 | 0.0% | 0 | 119 | 58 | 177 |
| | | Apartment | 9 | 220 | 1261 | du | 65% | 35% | 462 | 249 | 711 | 10.0% | 71 | 416 | 224 | 640 | 0.0% | 0 | 416 | 224 | 640 | 0.0% | 0 | 416 | 224 | 640 |
| | 3 | a post of rooms | Ŭ | 220 | .201 | | 0070 | 0070 | 102 | 2.10 | | 10.070 | | | | 0.0 | 0.070 | | | | 010 | 0.070 | 0 | | | 0.0 |
| | 4 | | | | | | | | | | | | | | | | | | | | | | | | | |
| G | 5 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 6 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 7 | | | | | | | | | | | | | | | | | | | | | | | | | |
| U | 8 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Р | 9 | | | | | | | | | | | | | | | | | | | | | | | | | í |
| | 10 | | | | | | | | | | | | | | | | | | | | | | | | | í |
| | 11 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 12 | | | | | | | | | | | | | | | | | | | | | | | | | (|
| | 13 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 14 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 15 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | ITE Land Use Code | - | | te or Equa | | | Total: | 594 | 314 | 908 | 10.0% | 91 | 535 | 282 | 817 | 0.0% | 0 | 535 | 282 | 817 | 0.0% | U | 535 | 282 | 817 |
| | | 230 220 | | | = 0.82*LN(0.55*(X)+1 | | | | | | | | | | | | | | | | | | | | | |

EXISTING WEEKDAY PM PEAK HOUR TRIP GENERATION

PROPOSED WEEKDAY PM PEAK HOUR TRIP GENERATION

| | | ITE TRIP GENERATIO | N CHAR | ACTERIS | STICS | | | TIONAL BUTION | | GROS VOLUM | | - | MODAL CTION | EXT | ERNAL TH | RIPS | | RNAL TURE | EXT | ERNAL | TRIPS | - | S-BY TURE | EXT | NET NEW FERNAL TR | |
|---|----|-----------------------------------|----------------|-------------|------------|--------------|-----------|------------------|-----|---------------|-------|---------|----------------|-----|----------|-------|---------|--------------|-----|-------|-------|-------------|--------------|-----|----------------------|------------------|
| | | Land Use | ITE Edition | ITE Code | Scale | ITE Units | Per In | cent Out | In | Out | Total | Percent | MR Trips | In | Out | Total | Percent | IC Trips | In | Out | Total | Percent | PB Trips | In | Out | Total |
| | 1 | Residential Condominium/Townhouse | 9 | 230 | 426 | du | 67% | 33% | 132 | 65 | 197 | 10.0% | 20 | 119 | 58 | 177 | 3.5% | 6 | 116 | 55 | 171 | 0.0% | 0 | 116 | 55 | 171 |
| | 2 | Apartment | 9 | 220 | 1093 | du | 65% | 35% | 402 | 217 | 619 | 10.0% | 62 | 362 | 195 | 557 | 3.5% | 20 | 350 | 187 | 537 | 0.0% | 0 | 350 | 187 | 537 |
| | 3 | Quality Restaurant | 9 | 931 | 299 | seat | 67% | 33% | 52 | 26 | 78 | 10.0% | 8 | 47 | 23 | 70 | 47.1% | 33 | 27 | 10 | 37 | 0.0% | 0 | 27 | 10 | 37 |
| | | Shopping Center | 9 | 820 | 6.318 | ksf | 48% | 52% | 45 | 49 | 94 | 10.0% | 9 | 41 | 44 | 85 | 43.5% | 37 | 28 | 20 | 48 | 0.0% | 0 | 28 | 20 | 48 |
| - | 5 | | | | | | | | | | | | | | | | | | | | | | | | ļ' | |
| | 6 | | | | | | | | | | | | | | | | | | | | | | | | ' | |
| 0 | 7 | | | | | | | | | | | | | | | | | | | | | | | | L | |
| | 8 | | | | | | | | | | | | | | | | | | | | | | | | ' | |
| 1 | 9 | | | | | | | | | | | | | | | | | | | | | | | | ' | |
| 2 | 10 | | | | | | | | | | | | | | | | | | | | | | | | · | |
| - | 12 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 13 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 14 | | | | | | | | | | | | | | | | | | | | | | | | l | |
| | 15 | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| | | ITE Land Use Code | • | Ra | te or Equa | tion | | Total: | 631 | 357 | 988 | 10.0% | 99 | 569 | 320 | 889 | 10.8% | 96 | 521 | 272 | 793 | 0.0% | 0 | 521 | 272 | 793 |
| | | 230 | _ | LN(Y) : | = 0.82*LN(| X)+0.32 | | | | | | | | | | | | | | | | | | | | |
| | | 220 | | Y=0 | 0.55*(X)+1 | 7.65 | | | | | | | | | | | | | | | | | | IN | OUT | TOTAL |
| | | 931 | | | Y=0.26(X) |) | | | | | | | | | | | | | | | Net N | New Vehicle | e Trips | -14 | -10 | -24 |
| | | 820 | | LN(Y) : | = 0.67*LN(| X)+3.31 | | | | | | | | | | | | | | | | | | | | |

Internal Capture Reduction Calculations

Methodology for A.M. Peak Hour and P.M. Peak Hour based on the *Trip Generation Handbook*, 3rd Edition, published by the Institute of Transportation Engineers

Methodology for Daily

based on the average of the Unconstrained Rates for the A.M. Peak Hour and P.M. Peak Hour

SUMMARY (PROPOSED) **GROSS TRIP GENERATION** A.M. Peak Hour P.M. Peak Hour Land Use Exit Exit Enter Enter Office INPUT Retail 16 10 41 44 Restaurant 4 4 47 23 Cinema/Entertainment 122 512 481 253 Residential Hotel 142 526 569 320 **INTERNAL TRIPS** A.M. Peak Hour P.M. Peak Hour Land Use Enter Exit Enter Exit OUTPUT Office 0 0 0 0 Retail 4 2 13 24 2 20 Restaurant 1 13 Cinema/Entertainment 0 0 0 0 15 Residential 1 4 11 Hotel 0 0 0 0 48 7 48 7 Total % Reduction 2.1% 10.8% Office OUTPUT 23.1% Retail 43.5% 37.5% 47.1% Restaurant Cinema/Entertainment 0.8% 3.5% Residential Hotel **EXTERNAL TRIPS** A.M. Peak Hour P.M. Peak Hour Land Use Enter Exit Enter Exit OUTPUT Office 0 0 0 0 Retail 12 8 28 20 Restaurant 2 3 27 10 Cinema/Entertainment 0 0 0 0 Residential 121 508 466 242 Hotel 0 0 0 0 135 519 521 272

| | | 5 | | A.M. Peak Hour) | |
|-----------------------|--|--|--|---|--|
| | Origin | | Destination | n Land Use | |
| A.M. PEAK | Land Use | Restaurant | Cinema/Ent. | Residential | Hotel |
| | Office | 63% | 0% | 1% | 0% |
| Ы | Retail | 13% | 0% | 14% | 0% |
| <u> </u> | Restaurant | | 0% | 4% | 3% |
| 2 | Cinema/Entertainment | 0% | | 0% | 0% |
| Ā | Residential | 20% | 0% | | 0% |
| | Hotel | 9% | 0% | 0% | |
| | for Trip Des | | nternal Person Trip Ca ked-Use Developmen | t (A.M. Peak Hour) | |
| | Origin | | Destination | | |
| a.m. peak | Land Use | Restaurant | Cinema/Ent. | Residential | Hotel |
| 4 | Office | 23% | 0% | 0% | 0% |
| <u> </u> | Retail | 50% | 0% | 2% | 0% |
| - | Restaurant | | 0% | 5% | 4% |
| ≥ | Cinema/Entertainment | 0% | | 0% | 0% |
| Z | Residential | 20% | 0% | | 0% |
| | Hotel | 6% | 0% | 0% | |
| | (Exit) | *** BASI | ED ON EXIT *** (Enter) L | and Uso | |
| \sim | Land Use | Destaurant | | | Hotel |
| A.M. PEAK | Office | Restaurant 0 | Cinema/Ent. 0 | Residential 0 | – Hoter 0 |
| Ú. | Retail | 0 | 0 | 0 | 0 |
| <u> </u> | | 0 | 0 | 0 | |
| 5 | Restaurant Cinema/Entertainment | 0 | U | 0 | 0 |
| - | Residential | 102 | 0 | 0 | 0 |
| L | Hotel | 0 | 0 | 0 | 0 |
| | | | | | |
| | (Exit) | *** BASE | D ON ENTER *** (Enter) L | and Use | |
| ¥ | (Exit) Land Use | | (Enter) L | | Hotel |
| AK | Land Use | *** BASE Restaurant | | Residential | Hotel |
| FEAR | | Restaurant | (Enter) L Cinema/Ent. | | |
| I. FEAN | Land Use Office | Restaurant 1 | (Enter) L Cinema/Ent. 0 | Residential 0 | 0 |
| INI. PEAK | Land Use Office Retail | Restaurant 1 | (Enter) L Cinema/Ent. 0 0 | Residential 0 2 | 0 |
| A.IVI. FEAN | Land Use Office Retail Restaurant | Restaurant 1 2 | (Enter) L Cinema/Ent. 0 0 | Residential 0 2 6 | 0 0 0 |
| A.IVI. FEAN | Land Use Office Retail Restaurant Cinema/Entertainment | Restaurant 1 2 0 | (Enter) L Cinema/Ent. 0 0 0 | Residential 0 2 6 | 0 0 0 0 |
| A.M. PEAK | Land Use Office Retail Restaurant Cinema/Entertainment Residential Hotel | Restaurant 1 2 0 1 1 0 | (Enter) L Cinema/Ent. 0 0 0 0 0 0 1 0 1 0 | Residential 0 2 6 0 0 | 0 0 0 0 |
| | Land Use Office Retail Restaurant Cinema/Entertainment Residential Hotel (Exit) | Restaurant 1 2 0 1 0 *** M | (Enter) L Cinema/Ent. 0 0 0 0 0 1 NIMUM *** | Residential 0 2 6 0 0 0 and Use | 0 0 0 0 |
| | Land Use Office Retail Restaurant Cinema/Entertainment Residential Hotel | Restaurant 1 2 0 1 1 0 | (Enter) L Cinema/Ent. 0 0 0 0 0 0 1 0 1 0 | Residential 0 2 6 0 0 | 0 0 0 0 |
| | Land Use Office Retail Restaurant Cinema/Entertainment Residential Hotel (Exit) Land Use Office | Restaurant 1 2 0 1 0 1 | (Enter) L Cinema/Ent. 0 0 0 0 0 1 NIMUM *** | Residential 0 2 6 0 0 and Use Residential 0 | 0 0 0 0 0 0 Hotel 0 |
| | Land Use Office Retail Restaurant Cinema/Entertainment Residential Hotel (Exit) Land Use | Restaurant 1 2 0 1 0 *** M Restaurant | (Enter) L Cinema/Ent. 0 0 0 0 0 NIMUM *** (Enter) L Cinema/Ent. | Residential 0 2 6 0 0 and Use Residential | 0 0 0 0 0 0 Hotel 0 0 0 |
| | Land Use Office Retail Restaurant Cinema/Entertainment Residential Hotel (Exit) Land Use Office | Restaurant | (Enter) L Cinema/Ent. 0 0 0 0 0 1NIMUM *** (Enter) L Cinema/Ent. 0 | Residential 0 2 6 0 0 0 0 and Use Residential 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0 0 0 0 0 0 Hotel 0 0 0 |
| | Land Use Office Retail Restaurant Cinema/Entertainment Residential Hotel (Exit) Land Use Office Retail Restaurant Cinema/Entertainment | Restaurant 1 2 0 1 0 1 | (Enter) L Cinema/Ent. 0 0 0 0 0 NIMUM *** (Enter) L Cinema/Ent. 0 0 | Residential 0 2 6 0 0 0 0 and Use Residential 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0 0 0 0 0 0 Hotel 0 0 0 0 0 |
| A.IM. PEAK A.IM. PEAK | Land Use Office Retail Restaurant Cinema/Entertainment Residential Hotel (Exit) Land Use Office Retail Restaurant | Restaurant | (Enter) L Cinema/Ent. 0 0 0 0 0 NIMUM *** (Enter) L Cinema/Ent. 0 0 | Residential 0 2 6 0 0 0 0 and Use Residential 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0 0 0 0 0 0 0 Hotel 0 0 0 |

| | τοι τηρ ο | rigins within a Mixed | I-Use Development (F | P.M. Peak Hour) | |
|-----------|----------------------|-----------------------|------------------------------|-------------------|------------|
| | Origin | | Destination | n Land Use | |
| P.M. PEAK | Land Use | Restaurant | Cinema/Ent. | Residential | Hotel |
| | Office | 4% | 0% | 2% | 0% |
| Ы | Retail | 29% | 4% | 26% | 5% |
| <u>–</u> | Restaurant | | 8% | 18% | 7% |
| 2 | Cinema/Entertainment | 31% | | 8% | 2% |
| Ъ | Residential | 21% | 0% | | 3% |
| | | | 0% Iternal Person Trip Ca | | |
| | | | ked-Use Developmen | | |
| ~ | Origin | | Destination | | |
| P.M. PEAK | Land Use | Restaurant | Cinema/Ent. | Residential | Hotel |
| Ш | Office | 2% | 1% | 4% | 0% |
| С_ | Retail | 29% | 26% | 46% | 17% |
| 5 | Restaurant | 204 | 32% | 16% | 71% |
| <. | Cinema/Entertainment | 3% | 00/ | 4% | 1% |
| д_ | Residential | 14% | 0% | 001 | 12% |
| | Hotel | 5% | 0% | 0% | |
| \sim | (Exit) Land Use | Destourant | (Enter) L | | llatal |
| P.M. PEAK | Office | Restaurant 0 | Cinema/Ent. 0 | Residential 0 | Hotel 0 |
| ц | Retail | 0 | 0 | 0 | 0 |
| <u> </u> | Restaurant | 0 | 2 | 4 | 2 |
| 5 | Cinema/Entertainment | 0 | Ζ | 0 | 0 |
| <u> </u> | Residential | 53 | 0 | 0 | 8 |
| | Hotel | 0 | 0 | 0 | 0 |
| | (5.11) | *** BASEI | D ON ENTER *** | and line | |
| \sim | (Exit) | Doctourant | (Enter) L | | Hotal |
| P.M. PEAK | Land Use Office | Restaurant | Cinema/Ent. 0 | Residential 19 | Hotel |
| Щ | Retail | 1 14 | 0 | 221 | 0 |
| <u> </u> | Restaurant | 14 | 0 | 77 | 0 |
| > | Cinema/Entertainment | 1 | 0 | 19 | 0 |
| <u> </u> | Residential | 7 | 0 | 17 | 0 |
| | Hotel | 2 | 0 | 0 | U |
| | | *** M | INIMUM *** | | |
| | (Exit) | | (Enter) L | | |
| A K | Land Use | Restaurant | Cinema/Ent. | Residential | Hotel |
| Ш | Office | 0 | 0 | 0 | 0 |
| 0 | Retail | 0 | 0 | 0 | 0 |
| | Restaurant | | 0 | 4 | 0 |
| А. Н | | | | 0 | 0 |
| Σ. | Cinema/Entertainment | 0 | - | 0 | |
| P.M. PEAK | | 0 7 0 | 0 | 0 | 0 |

U.S. Census Bureau



B08301

MEANS OF TRANSPORTATION TO WORK

Universe: Workers 16 years and over 2011-2015 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 Data and 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.

Tell us what you think. Provide feedback to help make American Community Survey data more useful for you.

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.

(112+186+338)/3,248 = 19.6%

| | Census Tract 42.0 County, I | |
|---|--------------------------------|-----------------|
| | Estimate | Margin of Error |
| Total: | 3,248 | +/-509 |
| Car, truck, or van: | 1,812 | +/-396 |
| Drove alone | 1,612 | +/-383 |
| Carpooled: | 200 | +/-126 |
| In 2-person carpool | 200 | +/-126 |
| In 3-person carpool | 0 | +/-13 |
| In 4-person carpool | 0 | +/-13 |
| In 5- or 6-person carpool | 0 | +/-13 |
| In 7-or-more-person carpool | 0 | +/-13 |
| Public transportation (excluding taxicab): | 112 | +/-119 |
| Bus or trolley bus | 112 | +/-119 |
| Streetcar or trolley car (carro publico in Puerto Rico) | 0 | +/-13 |
| Subway or elevated | 0 | +/-13 |
| Railroad | 0 | +/-13 |
| Ferryboat | 0 | +/-13 |
| Taxicab | 26 | +/-32 |
| Motorcycle | 89 | +/-62 |
| Bicycle | 186 | +/-166 |
| Walked | 338 | +/-200 |
| Other means | 28 | +/-33 |
| Worked at home | 657 | +/-271 |

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.

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

Attachment F: Valet Utilization Data

| Flamingo Existing Valet Utilization Data Collection Friday, June 09, 2017 | | | | | | |
|--|---------------------------------|-----|----|--|--|--|
| Time | Entering Self-Park and Valet | | | | | |
| 4:00 PM | 18 | 18 | 3 | | | |
| 4:15 PM | 35 | 18 | 4 | | | |
| 4:30 PM | 23 | 25 | 0 | | | |
| 4:45 PM | 23 | 30 | 1 | | | |
| 5:00 PM | 28 | 16 | 1 | | | |
| 5:15 PM | 32 | 28 | 1 | | | |
| 5:30 PM | 33 | 22 | 4 | | | |
| 5:45 PM | 36 | 17 | 2 | | | |
| 6:00 PM | 37 | 18 | 3 | | | |
| 6:15 PM | 28 | 20 | 3 | | | |
| 6:30 PM | 28 | 21 | 2 | | | |
| 6:45 PM | 33 | 15 | 2 | | | |
| 7:00 PM | 32 | 13 | 5 | | | |
| 7:15 PM | 33 | 22 | 5 | | | |
| 7:30 PM | 28 | 24 | 5 | | | |
| 7:45 PM | 23 | 16 | 5 | | | |
| Total | 470 | 323 | 46 | | | |
| Peak Hour 5:15-6:15 | 138 | 85 | 10 | | | |

| | Peak Hour |
|-------------------|-----------|
| | 5:15-6:15 |
| Total Self-Park | 213 |
| Total Valet | 10 |
| Percent (%) Valet | 4% |

Attachment G: Valet Analysis

Valet Drop-off/Pick-Up Calculated Travel Time

South Tower Parking Garage Calculated Travel Time

| VALET DROP-OFF | | | | | | |
|------------------------------|-----------------------------------|-------------|------------------------------------|---|--|--|
| VEHICLE TRAVEL TIME | | | VALET ATTENDANT TRAVEL TIME | | | |
| Travel Times (Assum | ne <mark>15</mark> mph spe | eed) | Travel Times (Assume 5 ft/s speed) | | | |
| To Vale Distance | et Garage (In vehicle Travel T | • | Return from Vale Distance | et Garage (Walk/Run) to Valet Area Travel Time | | |
| 0.16 mile | 2S | 0.6 minutes | 0.12 miles | 2.1 minutes | | |
| Controlled Delay 1.0 Minutes | | | | | | |
| Total Time 3.7 Minutes | | | | | | |
| | | | | | | |

South Parking Garage Calculated Travel Time

| VALET PICK-UP | | | | | | | |
|----------------------|---|--|--|--|--|--|--|
| VALET ATTEN | DANT TRAVEL TIME | VALET ATTENDANT TRAVEL TIME | | | | | |
| Travel Times (Assume | 5 ft/s speed) | Travel Times (Assume | 15 mph speed) | | | | |
| J | Walk/Run) Travel Time 2.1 minutes 1.0 Minutes 3.6 Minutes | Return from Vale Distance 0.13 miles | et Garage (In Vehicle) to Valet Area Travel Time 0.5 minutes | | | | |

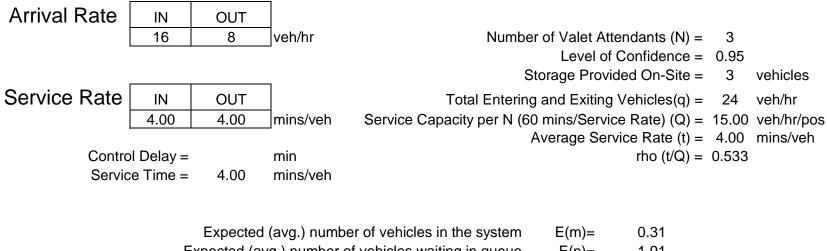
Valet Drop-off/Pick-Up Calculated Travel Time

North Tower Parking Garage Calculated Travel Time

| VALET DROP-OFF | | | | | | |
|--|-------|--|---|--|--|--|
| VEHICLE TRAVEL TIME | | VALET ATTENDANT TRAVEL TIME | | | | |
| Travel Times (Assume 15 mph s | peed) | Travel Times (Assume | 5 ft/s speed) | | | |
| To Valet Garage (In vehic Distance Travel 0.08 miles Controlled Delay 1.0 Minutes Total Time 2.6 Minutes | • | Return from Vale Distance 0.08 miles | t Garage (Walk/Run) to Valet Area Travel Time 1.3 minutes | | | |

North Parking Garage Calculated Travel Time

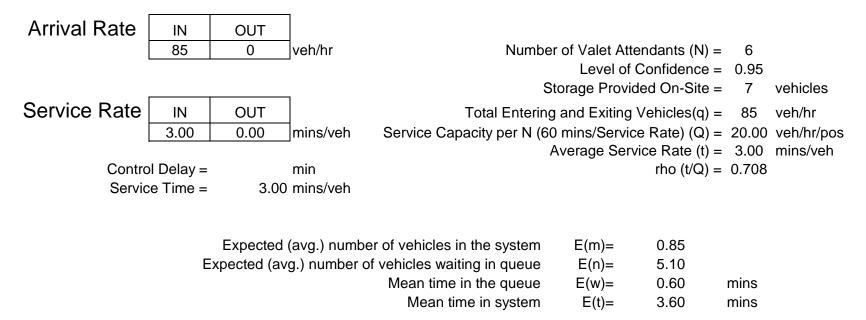
| VALET PICK-UP | | | | | | | |
|----------------------|---|--|--|--|--|--|--|
| VALET ATTENI | DANT TRAVEL TIME | VALET ATTENDANT TRAVEL TIME | | | | | |
| Travel Times (Assume | 5 ft/s speed) | Travel Times (Assume 15 mph speed) | | | | | |
| 5 | Walk/Run) Travel Time 1.3 minutes 1.0 Minutes 2.6 Minutes | Return from Vale Distance 0.08 miles | et Garage (In Vehicle) to Valet Area Travel Time 0.3 minutes | | | | |



South Tower Valet Drop-Off/Pick-Up Analysis

| Expected (avg.) number of vehicles in the system | E(m)= | 0.31 | |
|---|--------------|--------|----------|
| Expected (avg.) number of vehicles waiting in queue | E(n)= | 1.91 | |
| Mean time in the queue | E(w)= | 0.78 | mins |
| Mean time in system | E(t)= | 4.78 | mins |
| | | | |
| Proportion of customers who wait (P) | (E(w) > 0) = | 27.38% | |
| Probability of a queue exceeding a length (M) | P(x > M) = | 5.00% | |
| | | | |
| Queue length which is exceeded 5.00% of the times | is equal to | 1.5 | vehicles |

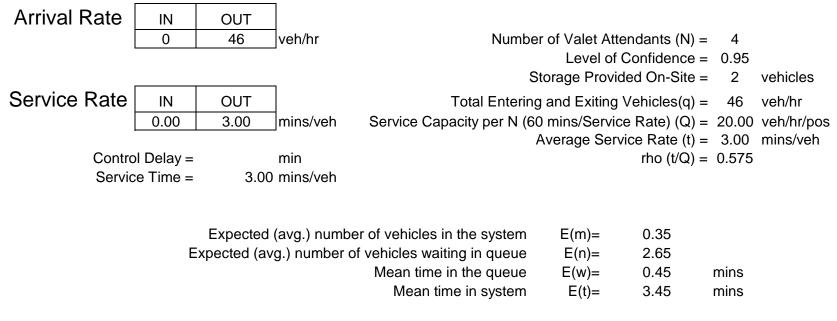
North Tower Valet Drop-Off Analysis



Proportion of customers who wait (P) (E(w) > 0)= 34.95% Probability of a queue exceeding a length (M) P(x > M)= 5.00%

Queue length which is exceeded 5.00% of the times is equal to 4.4 vehicles

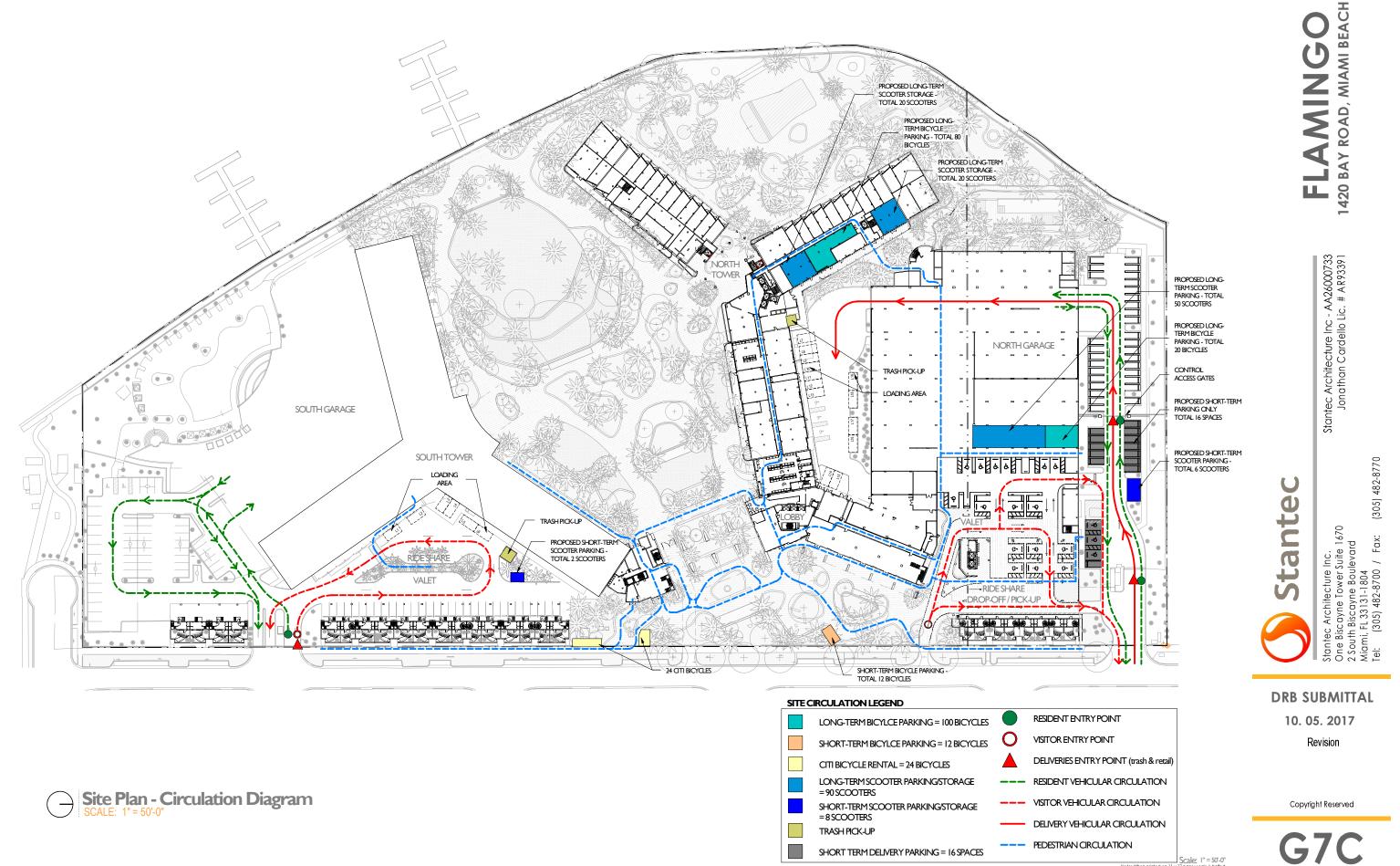
North Tower Valet Pick-Up Analysis



- Proportion of customers who wait (P) (E(w) > 0)=25.60%Probability of a queue exceeding a length (M) P(x > M)=5.00%
- Queue length which is exceeded 5.00% of the times is equal to 1.8 vehicles

Attachment H:

Pedestrian Data and FDOT Seasonal Factors



CIRCULATION DIAGRAM

Scale: 1" = 50'-0" Note: When printed on 11 x 17 paper scale is halfed

PREPARED BY NATIONAL DATA & SURVEYING SERVICES

| PROJECT#: | 17-3274-004 |
|-------------|-------------|
| N/S Street: | Bay Rd |
| E/W Street: | 15th St |
| DATE: | 6/9/2017 |
| CITY: | Miami Beach |

| DAY: | Friday |
|------|--------|
| | rinday |

PSCF 1.13

P M PEDESTRIANS

| LDLJINA | - | | | | | | | |
|---------|------|-------|------|-------|------|------|-----|-------|
| ТІМЕ | NORT | H LEG | SOUT | H LEG | EAST | LEG | WES | Г LEG |
| | EB | WB | EB | WB | NB | SB | NB | SB |
| 4:00 PM | 12 | 27 | 3 | 5 | 8 | 0 | 6 | 3 |
| 4:15 PM | 21 | 14 | 1 | 2 | 0 | 1 | 6 | 5 |
| 4:30 PM | 25 | 11 | 0 | 2 | 1 | 1 | 26 | 8 |
| 4:45 PM | 25 | 9 | 2 | 2 | 1 | 2 | 6 | 8 |
| 5:00 PM | 15 | 11 | 2 | 5 | 6 | 2 | 10 | 10 |
| 5:15 PM | 17 | 5 | 1 | 5 | 2 | 2 | 8 | 5 |
| 5:30 PM | 20 | 21 | 3 | 7 | 2 | 3 | 12 | 9 |
| 5:45 PM | 11 | 19 | 3 | 3 | 1 | 0 | 7 | 9 |
| 6:00 PM | 27 | 18 | 5 | 2 | 6 | 2 | 7 | 5 |
| 6:15 PM | 18 | 9 | 0 | 5 | 1 | 3 | 11 | 10 |
| 6:30 PM | 16 | 19 | 1 | 7 | 5 | 6 | 17 | 8 |
| 6:45 PM | 20 | 23 | 5 | 1 | 3 | 0 | 7 | 9 |
| 7:00 PM | 12 | 12 | 2 | 12 | 7 | 3 | 12 | 12 |
| 7:15 PM | 8 | 12 | 2 | 5 | 2 | 2 | 9 | 12 |
| 7:30 PM | 15 | 21 | 2 | 5 | 2 | 1 | 12 | 3 |
| 7:45 PM | 18 | 28 | 3 | 6 | 1 | 0 | 8 | 6 |
| TOTALS | 281 | 261 | 37.3 | 72.3 | 48.6 | 30.5 | 164 | 122 |

PEAK HOURS

| PEDESTRIAL | V3 | | | | | | | | - |
|------------|------|--------|------|-------|------|-----|-----|-------|----|
| TIME | NORT | 'H LEG | SOUT | H LEG | EAST | LEG | WES | T LEG | |
| | EB | WB | EB | WB | NB | SB | NB | SB | |
| 6:15 PM | 67 | 63 | 8 | 25 | 16 | 12 | 47 | 40 | PM |

| MacArthur Causeway Peak Season Conversion Factor | | | | |
|--|------------------|------|---------|-------|
| Week | Weekly Volume | PSCF | Month | Days |
| 1 | 97461 | 1.08 | Jan | 1-2 |
| 2 | 94621 | 1.11 | | 5-9 |
| 3 | 92597 | 1.14 | | 12-16 |
| 4 | 94820 | 1.11 | | 19-23 |
| 5 | 95103 | 1.11 | | 26-30 |
| 6 | 93310 | 1.13 | Feb | 2-6 |
| 7 | 97965 | 1.07 | | 9-13 |
| 8 | 97595 | 1.08 | | 16-20 |
| 9 | 98306 | 1.07 | | 23-27 |
| 10 | 99061 | 1.06 | Mar | 2-6 |
| 11 | 103197 | 1.02 | ai | 9-13 |
| 12 | 104700 | 1.00 | | 16-20 |
| 13 | 105181 | 1.00 | | 23-27 |
| 13 | 103378 | 1.02 | Apr | 30-3 |
| 14 | 98388 | 1.02 | Λpi | 6-10 |
| 15 | 97132 | 1.07 | | 13-17 |
| 10 | 92368 | 1.08 | | 20-24 |
| 17 | 93079 | 1.14 | May | 20-24 |
| 18 | 94513 | 1.13 | ividy | 4-8 |
| 20 | 96765 | 1.09 | | 11-15 |
| 20 | 90705 | 1.16 | | 18-22 |
| 21 | | | | |
| | 88187 | 1.19 | luna | 25-29 |
| 23 | 94751 | 1.11 | June | 1-5 |
| 24 | 93310 | 1.13 | | 8-12 |
| 25 | 94745 | 1.11 | | 15-19 |
| 26 | 95914 | 1.10 | l. d. c | 22-26 |
| 27 | 92680 | 1.13 | July | 29-3 |
| 28 | 93320 | 1.13 | | 6-10 |
| 29 | 95119 | 1.11 | | 13-17 |
| 30 | 95499 | 1.10 | | 20-24 |
| 31 | 94958 | 1.11 | | 27-31 |
| 32 | 97362 | 1.08 | Aug | 3-7 |
| 33 | 94929 | 1.11 | | 10-14 |
| 34 | 96230 | 1.09 | | 17-21 |
| 35 | 92110 | 1.14 | | 24-28 |
| 36 | 91826 | 1.15 | Sept | 1-4 |
| 37 | 90955 | 1.16 | | 7-11 |
| 38 | 89712 | 1.17 | | 14-18 |
| 39 | 92517 | 1.14 | | 21-25 |
| 40 | 90393 | 1.16 | Oct | 28-2 |
| 41 | 88712 | 1.19 | | 5-9 |
| 42 | 87533 | 1.20 | ┦ ┃ | 12-16 |
| 43 | 94636 | 1.11 | ┦ ┃ | 19-23 |
| 44 | 96168 | 1.09 | | 26-30 |
| 45 | 96752 | 1.09 | Nov | 2-6 |
| 46 | 99482 | 1.06 | | 9-13 |
| 47 | 96147 | 1.09 | | 16-20 |
| 48 | 90693 | 1.16 | | 23-27 |
| 49 | 102796 | 1.02 | Dec | 30-4 |
| 50 | 96703 | 1.09 | | 7-11 |
| 51 | 97695 | 1.08 | | 14-18 |
| 52 | 92309 | 1.14 | | 21-25 |
| 53 | 103003 | 1.02 | | 28-31 |