

October 19, 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 and site plan containing circulation/directional arrows and stop bar markings are 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. Resident and delivery driveway access is provided to the South Tower (condominiums) via a gated driveway at 14th Terrace that is staffed 24 hours a day 7 days a week.
- 2. The center driveway at 15th Street provides valet access for residents and guests. All guests currently valet their vehicles.
- 3. A second resident and deliveries driveway for the Central and North Tower (apartments) is provided south of 16th Street.

The redevelopment will consist of the following access:

 A resident self-park, resident-valet, and resident/guest-rideshare access is provided to the South Tower (426 condominiums and 154 apartments) via a gated driveway at 14th Terrace that is staffed 24 hours a day 7 days a week. Two (2) lanes are provided to access the South Tower i.) a resident and resident/guest-rideshare lane and ii.) resident/guest-rideshare,



deliveries, and food deliveries lane. As the site owner is aware of the limited stacking distance at the gate, rideshare, delivery, and food delivery trips to the South Tower will be granted access into the site by the gate guard, without calling specific units or checking driver licenses. This operation ensures no vehicle queues extending onto Bay Road. The gate is a visual deterrent for unwanted traffic into the site. The rideshare, delivery, or food delivery drivers will pull up to the gate guard and state that they are dropping off or picking up a resident, delivering goods, or food and immediately be let into the site. Rideshare vehicles will use on-site rideshare spaces adjacent to the South Tower and delivery vehicles will use the on-site loading spaces adjacent to the South Tower, located north of the rideshare/valet spaces. The site also provides six (6) designated food/short-term delivery spaces located south of the South Tower in the surface parking area. The South Tower access and parking lots are fully contained and do not provide access to other portions of the development without proper credentials. If, for any reason, a vehicle is refused entry at the South Tower, the gate guard will open the gate and supervisor the vehicle turning around to exit safely to Bay Road. This will prevent vehicles from backing out onto Bay Road. The owner will also install license plate recognition technology at the access for safety purposes. Please note that the previously submitted Shared-Ride/Taxi Drop-off/Pick-up Accumulation Analysis, April 2017, indicated that the maximum observed accumulation along Bay Road south of 15th Street was two (2) vehicles. Note that three (3) rideshare spaces are provided as part of the redevelopment. All guests will be required to check-in at the main lobby. Furthermore, it is not expected that the reduction in the site's residential unit count will result in an increase in vehicle accumulation. Letter correspondence from Uber and Lyft rideshare vendors are included in Attachment C. 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.

- 2. A rideshare and valet drop-off/pick-up (guest and resident) area will be provided for the Center and North Towers (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 owner will also install license plate recognition technology at the access for safety purposes. As with the current condition on-site, all guests are required to check-in at the main lobby located approximately 275 feet from the rideshare and valet drop-off/pick-up area. The rideshare trips associated with these guest trips were factored in to the drop-off/pick-up spaces necessary as detailed in *Shared-Ride/Taxi Drop-off/Pick-up Accumulation Analysis*, April 2017. Letter correspondence from Uber and Lyft rideshare vendors are included in Attachment C. The center driveway will be relocated as part of the redevelopment to serve the rideshare and valet drop-off/pick-up. 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.
- 3. The resident, delivery, food delivery, and short-term retail driveway for the Center and North Towers remains south of 16th Street. Two (2) lanes are provided to access the Center and North Towers i.) a resident-only lane and ii.) deliveries, food deliveries, and short-term parking lane. As the site owner is aware of the limited stacking distance at the gate, delivery, food delivery, and short-term retail trips to the Center and North Towers will be granted access into the site by the gate guard, without calling specific units or checking driver licenses. The owner will also install license plate recognition technology at the access for safety purposes. The site also provides 16 designated short-term retail/food delivery spaces located in the northeast corner of the Central and North Tower surface parking area. A secondary access gate will be



located west of the short-term parking spaces to provide resident access to the north parking garage and delivery vehicle access to the loading area.

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 resident-valet drop-off/pick-up lane with an approximate vehicle queuing capacity of 75 feet (approximately three [3] vehicle lengths) and a dedicated resident/guest-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 Center and 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. A dedicated valet (resident and guest) drop-off station, valet pick-up station, and a dedicated rideshare/taxi (resident and guest) drop-off/pick-up lane are provided at this location. The Central and 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. Six (6) parking spaces for food/short-term deliveries will also be provided at the south driveway. 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 at the north driveway. Attachment D 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 E. 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 Center and 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 and stacking distance for 14 vehicles at the Center and North Tower rideshare/taxi 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 F. Table 1 provides a summary of the trip generation for the proposed redevelopment.

Table 1: T	rip Gene	eration S	Summary	7										
Dovolonment Plan	Development Plan A.M. Peak Hour P.M. Peak Hour P.M. Peak Hour													
Development Flan	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 Center and North Tower drop-off/pick-up area will be driven by a valet attendant to the Center and 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 Center and North Tower valet drop-off/pick-up area during P.M. peak hour based on assuming 10 percent (10%) of residential trips and 100 percent (100%) of restaurant and retail trips will valet. A summary of expected valet trips is contained in Table 2. Detailed valet utilization data is included in Attachment G.

	Table 2: Expected Valet Trips													
Valet Station	Land Use So	erved	Drop-Off	Pick-Up										
South Valet Station	426 Condominium 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 valet area and will walk/run to and from the south surface lot and parking garage. Valet attendants for the Center and North Tower will be stationed at the Center and North Tower valet area 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 Center and 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 Center and 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 Center and 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 Center and 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 Center and 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 I. 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 across Bay Road.

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.

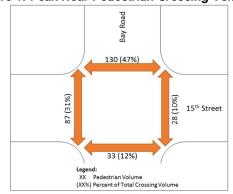


Figure 1: Peak Hour Pedestrian Crossing Volumes

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 short-term 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, including 22 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 I.

MANEUVERABILITY ANALYSIS

A maneuverability analysis for the Flamingo redevelopment was prepared for the loading and refuse areas. Refuse pick-up for the Center and North Tower will occur between the North Tower building and the North Tower parking garage. Refuse pick-up and loading operations for the south tower will occur in the area adjacent to the South Tower drop-off/pick-up area. An additional South Tower refuse area is located in the adjacent South Tower surface lot.

Loading operations for the Center and North Tower residential, restaurant, and retail components are provided in 13 designated loading spaces located between the North Tower and the North Tower parking garage. Loading operations for the south tower residential uses are provided in six (6) designated loading spaces located adjacent to the south tower drop-off/pick-up. Based on the maneuverability analysis delivery and refuse trucks will be able to navigate into, through, and out of the site. Refuse and loading area maneuverability analysis figures are contained in Attachment J.

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 Center and 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 and stacking distance for 14 vehicles at the Center and North 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 Central and 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, including 22 short-term (food delivery/retail) parking spaces.

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

No. 78828

* No. 78828

* STATE OF

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Adrian K. Dabkowski, P.E., PTOE

Adrian K. Dabkowski, P.E., PTOE Florida Registration Number 78828 Kimley-Horn and Associates, Inc. 600 North Pine Island Road, Suite 450 Plantation, Florida 33324 CA # 00000696

Attachment A

Conceptual Site Plan and Location Map





Stantec

Stantec Architecture Inc - AA26000733 Jonathan Cardello Lic. # AR93391

(305) 482-8770

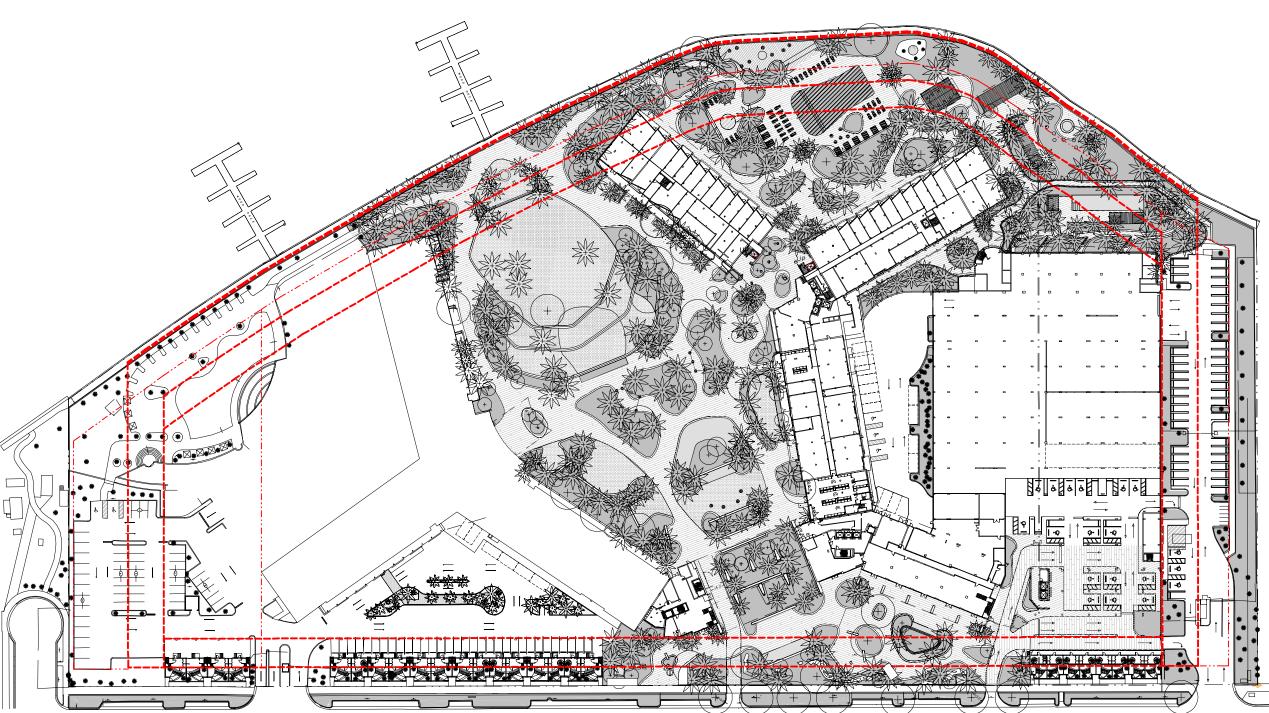
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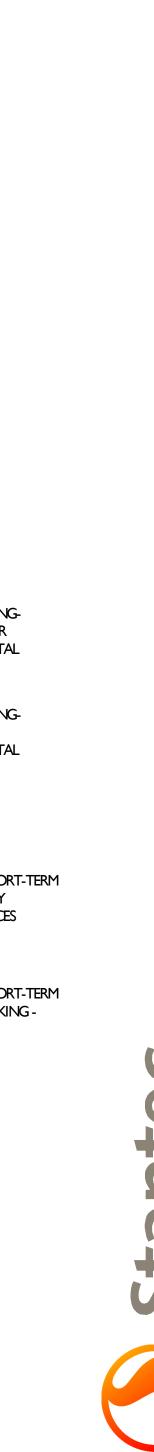
08.03.2017 Revision

10-06-2017

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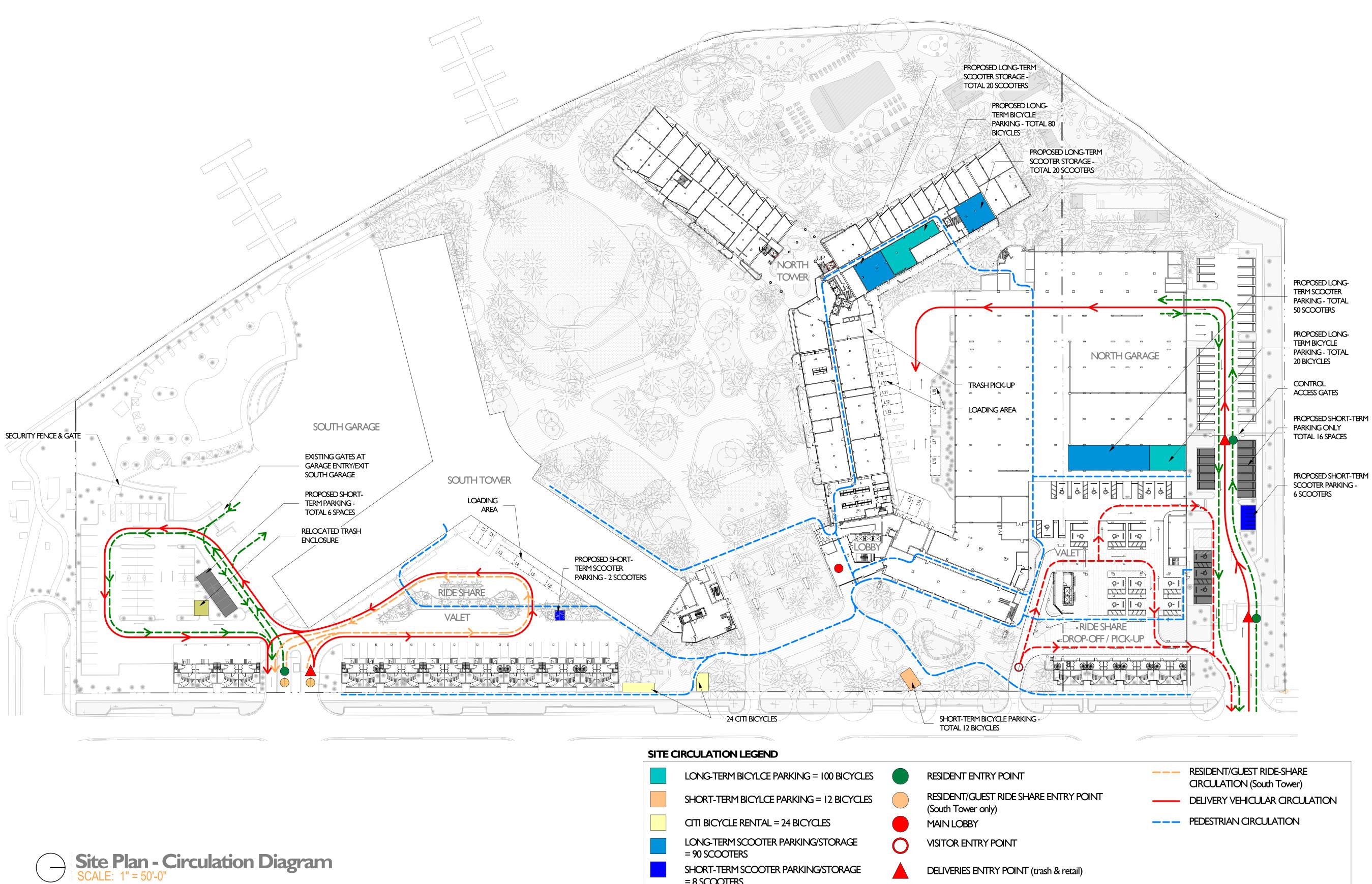
10. 05. 2017

Revision 10-06-2017

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Scale: 1" = 50'-0"

Note: When printed on 11 x 17 paper scale is halfed



SHORT-TERM SCOOTER PARKING/STORAGE

SHORT TERM DELIVERY PARKING = 22 SPACES

= 8 SCOOTERS

TRASH PICK-UP

DELIVERIES ENTRY POINT (trash & retail)

--- RESIDENT VEHICULAR CIRCULATION

--- VISITOR VEHICULAR CIRCULATION

Attachment B

Methodology Correspondence

Kanaan, Omar

From: Akcay, Firat < FiratAkcay@miamibeachfl.gov>

Sent: Monday, June 19, 2017 10:49 AM
To: 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



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

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



Please do not print this e-mail unless necessary.

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.

<u>06 05 17 Flamingo - Methodology Memo.pdf</u> (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
To: '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

Lo. Josiel Ferrer-Diaz, E.I.

City of Miami Beach

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.
- 3. 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.



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.

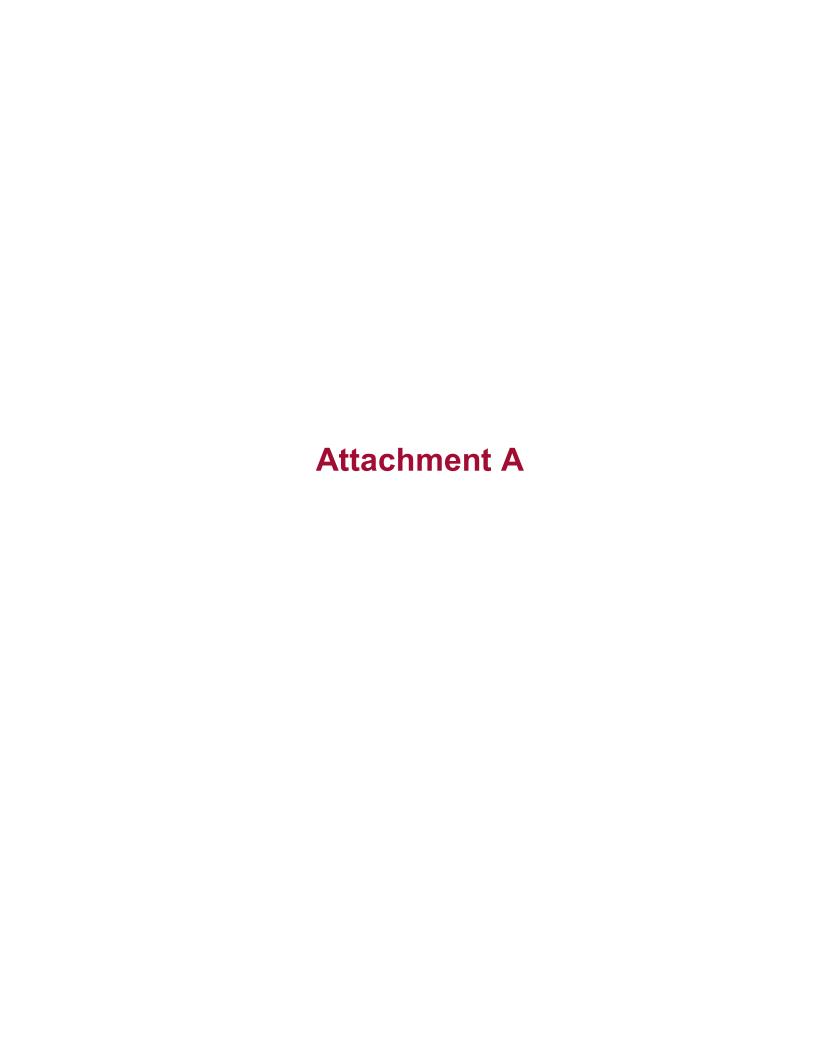
TRANSPORTATION DEMAND MANAGEMENT STRATEGIES

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.

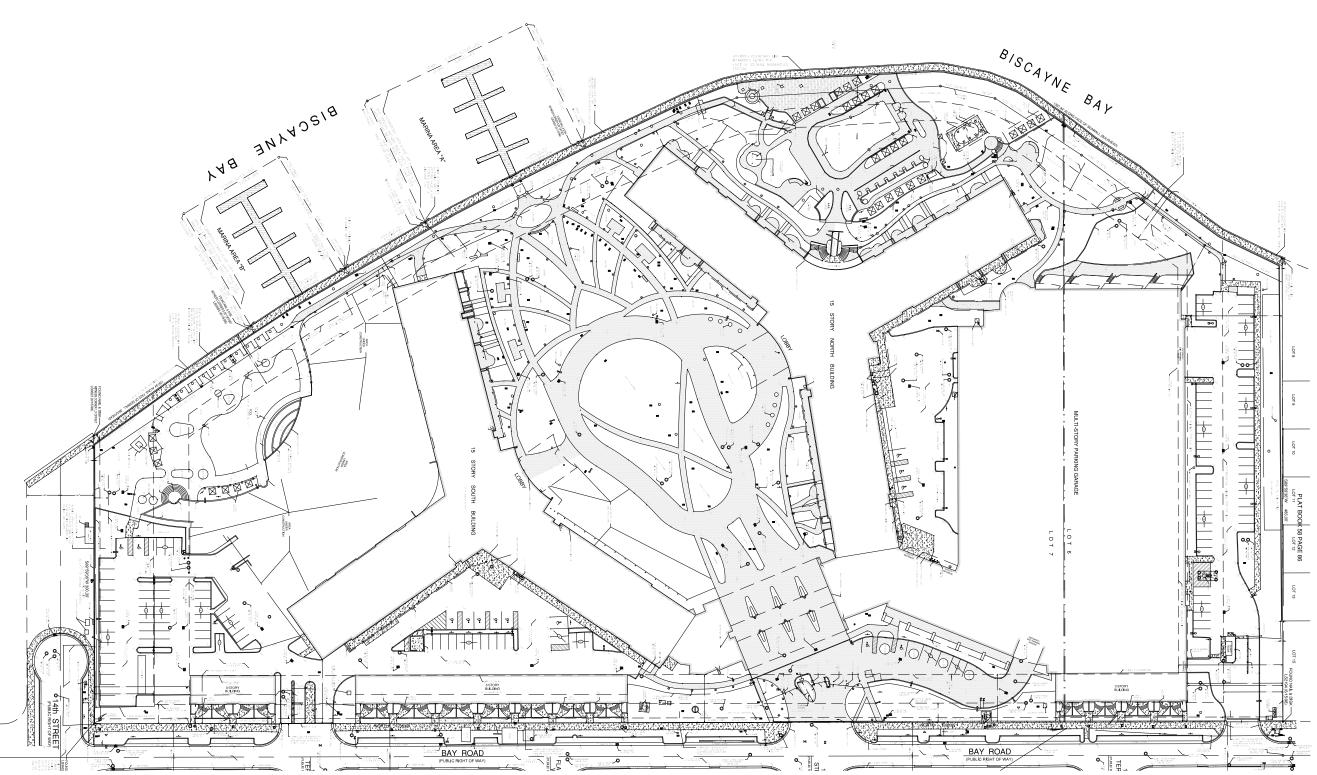
DOCUMENTATION OF FINDINGS

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.







Stantec

DRB SUBMITTAL

05.23.2017

Stantec Architecture Inc - AA26000733 Jonathan Cardello Lic. # AR93391

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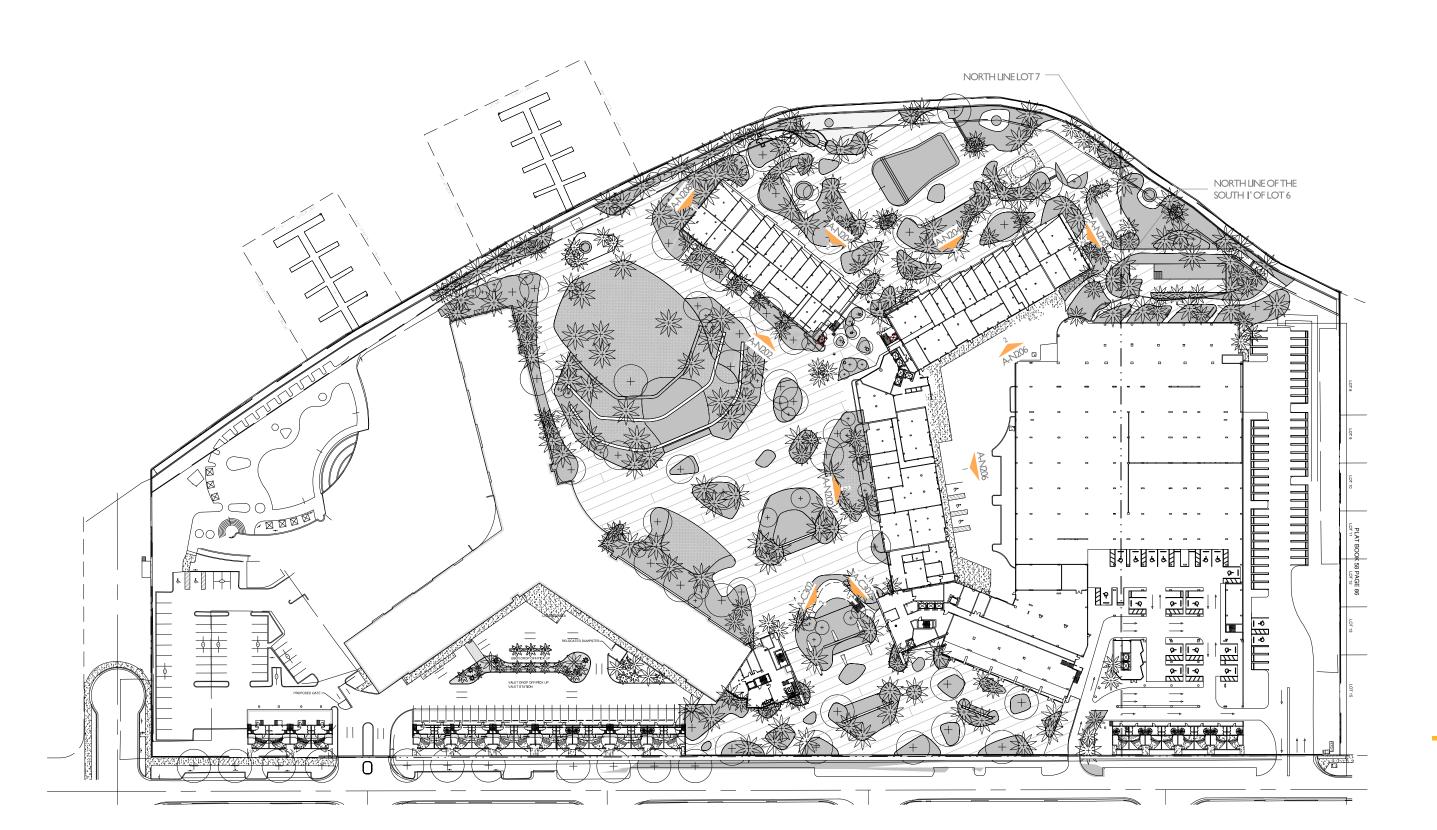
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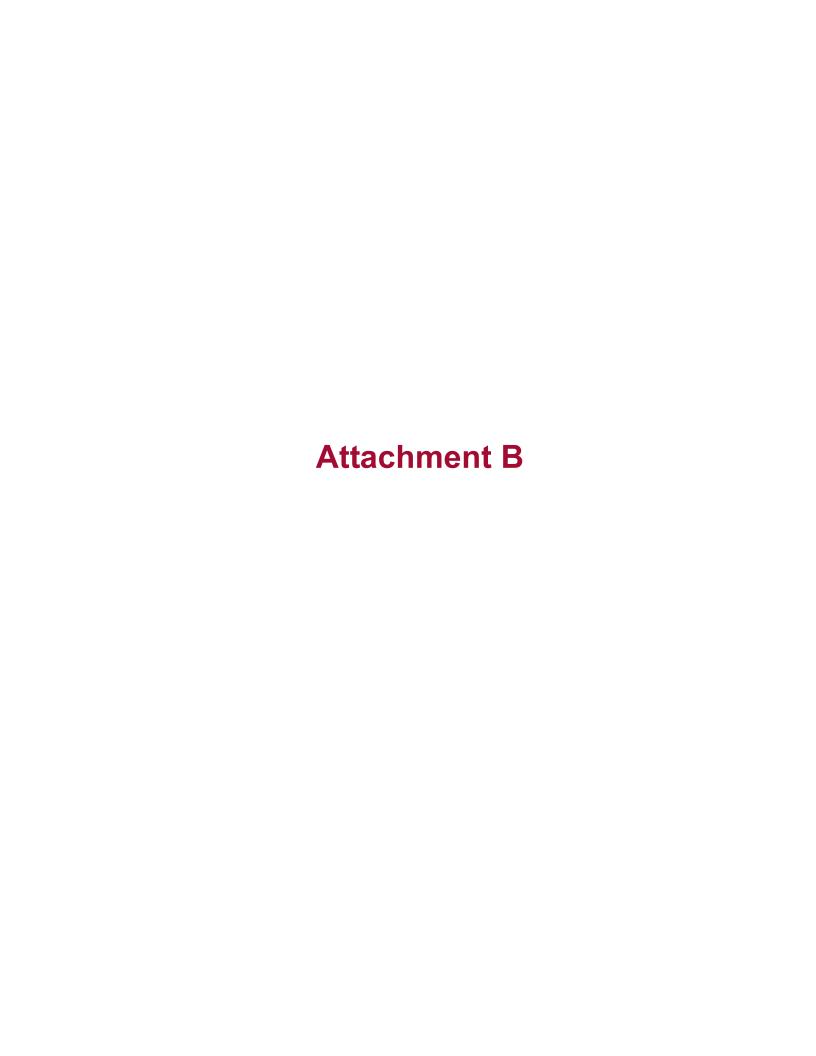
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PEAK HOUR TRIP GENERATION COMPARISON

EXISTING WEEKDAY AM PEAK HOUR TRIP GENERATION

	ITE TRIP GENERATIO		TIONAL BUTION	GROSS VOLUMES			MULTIMODAL REDUCTION		EXTERNAL TRIPS		INTERNAL CAPTURE		EXTERNAL TRIPS			PASS-BY CAPTURE		NET NEW EXTERNAL TRIPS							
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	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
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PROPOSED WEEKDAY AM PEAK HOUR TRIP GENERATION

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1	Residential Condominium/Townhouse	9	230	426	du	17%	83%	28	137	165	10.0%	16	25	124	149	0.2%	0	25	124	149	0.0%	0	25	124	149
	Apartment	9	220	1093	du	20%	80%	108	431	539	10.0%	54	97	388	485	0.2%	1	97	387	484	0.0%	0	97	387	484
3	Quality Restaurant	9	931	299	seat	50%	50%	5	4	9	10.0%	1	4	4	8	12.5%	1	3	4	7	0.0%	0	3	4	7
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220

PEAK HOUR TRIP GENERATION COMPARISON

EXISTING WEEKDAY PM PEAK HOUR TRIP GENERATION

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	T 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
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PROPOSED WEEKDAY PM PEAK HOUR TRIP GENERATION

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_ 1	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
3	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
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LN(Y) = 0.82*LN(X)+0.32Y=0.55*(X)+17.65 IN OUT TOTAL Net New Vehicle Trips Y=0.26(X) -18 -16 -34

220

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

	SU	MMARY (P	ROPOSED)										
	GROSS TRIP GENERATION												
	Land Use	A.M. Pe	ak Hour	P.M. Pe	ak Hour								
	Land Use	Enter	Exit	Enter	Exit								
INPUT	Office												
ر ا	Retail												
Ë	Restaurant	4	4	47	23								
=	Cinema/Entertainment												
	Residential	122	512	481	254								
	Hotel												
		126	516	528	277								
		INTER	RNAL TRIPS										
	Land Use	A.M. Pe	ak Hour	P.M. Pe	ak Hour								
	Land Use	Enter	Exit	Enter	Exit								
ООТРОТ	Office	0	0	0	0								
<u>-</u>	Retail	0	0	0	0								
<u> </u>	Restaurant	1	0	7	4								
ا كر ا	Cinema/Entertainment	0	0	0	0								
	Residential	0	1	4	7								
	Hotel	0	0	0	0								
		1	1	11	11								
	Total % Reduction	0.3	3%	2.7	7%								
5	Office												
P	Retail		F0/		70/								
ООТРОТ	Restaurant	12.	5%	15.	7%								
7	Cinema/Entertainment	0.2	20/	1	5%								
0	Residential	0.,	270	1.:	070								
	Hotel												
		EXTER	RNAL TRIPS										
	land U	A.M. Pe	ak Hour	P.M. Pe	ak Hour								
—	Land Use	Enter	Exit	Enter	Exit								
5	Office	0	0	0	0								
ООТРО	Retail	0	0	0	0								
1	Restaurant	3	4	40	19								
7	Cinema/Entertainment	0	0	0	0								
O	Residential	122	511	477	247								
	Hotel	0	0	0	0								
		125	515	517	266								

Attachment C

South Tower Access Confirmation

UBER

UBER TECHNOLOGIES INC. 1455 Market St. #400 San Francisco, CA 94103 UBER COM

October 11, 2017

To: City of Miami Beach Planning Department

This letter is to confirm that we have met with representatives from Aimco and reviewed plans for the newly proposed rideshare pick up and drop off locations at Flamingo. The goal of the Flamingo rideshare program is to create safe, user-friendly meeting points on site for both riders and drivers.

We agree to work with Aimco to ensure the success of the proposed Flamingo rideshare program as identified in the plans submitted to Miami Beach Design Review Board. Specific steps to ensure success include, but are not limited to:

- 1. Creating a Geo Fence at Flamingo. This is a virtual perimeter setup within the app around the Flamingo property. Anytime a ride is requested to be picked up or dropped off at the property, the rider will be prompted to select either the north or south designated area and the mapping tool will snap their location pin from wherever they actually are to one of the designated areas. Both rider and driver will be directed to this location pin to pair for the ride.
- **2.** Property optimization. Setting up designated North and South pick up and drop off options for riders and drivers on the application so that any ride being requested on the Flamingo property will be directed to one of the designated pick up zones.
- **3.** Notifying all current and new drivers of the designated pick up and drop off locations at Flamingo.
- **4.** Communicating to both drivers and riders that pick up and drop off anywhere other than designated areas may result in ticketing and disciplinary action.
- **5.** Supplying Aimco with way finding and demarcation signage to guide riders to designated rideshare pick up and drop off locations on the property.
- **6.** Monitor rideshare patterns at Flamingo and work with Aimco representatives to take corrective actions, as may be required, from time to time.

It is in our best interest to work with Flamingo to enhance the rideshare experience for both rider and driver to ensure our continued success. We look forward to a successful partnership at Flamingo that we can use as a prototype around the Country.

Sincerely,

Sim Beck

Jim Beek

Partnerships Lead, Uber for Real Estate



October 9, 2017

To: City of Miami Beach Planning Department

From: Sam Cohen, Lyft Florida General Manager

Flamingo Rideshare Plan

We have met with representative from Aimco and reviewed plans for the newly proposed rideshare pick up and drop off locations at Flamingo. The goal of the Flamingo rideshare program is to create safe, user-friendly meeting points on site for both riders and drivers.

We will collaborate in good faith with Aimco to ensure the success of the proposed Flamingo rideshare program as identified in the plans submitted to Miami Beach Design Review Board. Specific steps to ensure success include, but are not limited to:

1. Creating an in-app Geo Fence at Flamingo. This will help redirect passengers to the correct pick up destination.

2. Setting up designated North and South pick up and drop off options for riders and drivers on the application (using the geo fence).

3. Communicating to both drivers that pick up and drop off anywhere other than designated areas may result in ticketing and disciplinary action.

4. Supplying Aimco with way finding and demarcation signage to guide riders to designated rideshare pick up and drop off locations on the property.

5. Monitor rideshare patterns at Flamingo and work with Aimco representatives to take corrective actions, as may be required, from time to time.

It is in our best interest to work with Flamingo to enhance the rideshare experience for both rider and driver to ensure our continued success. We look forward to a successful partnership at Flamingo that we can use as a prototype around the Country.

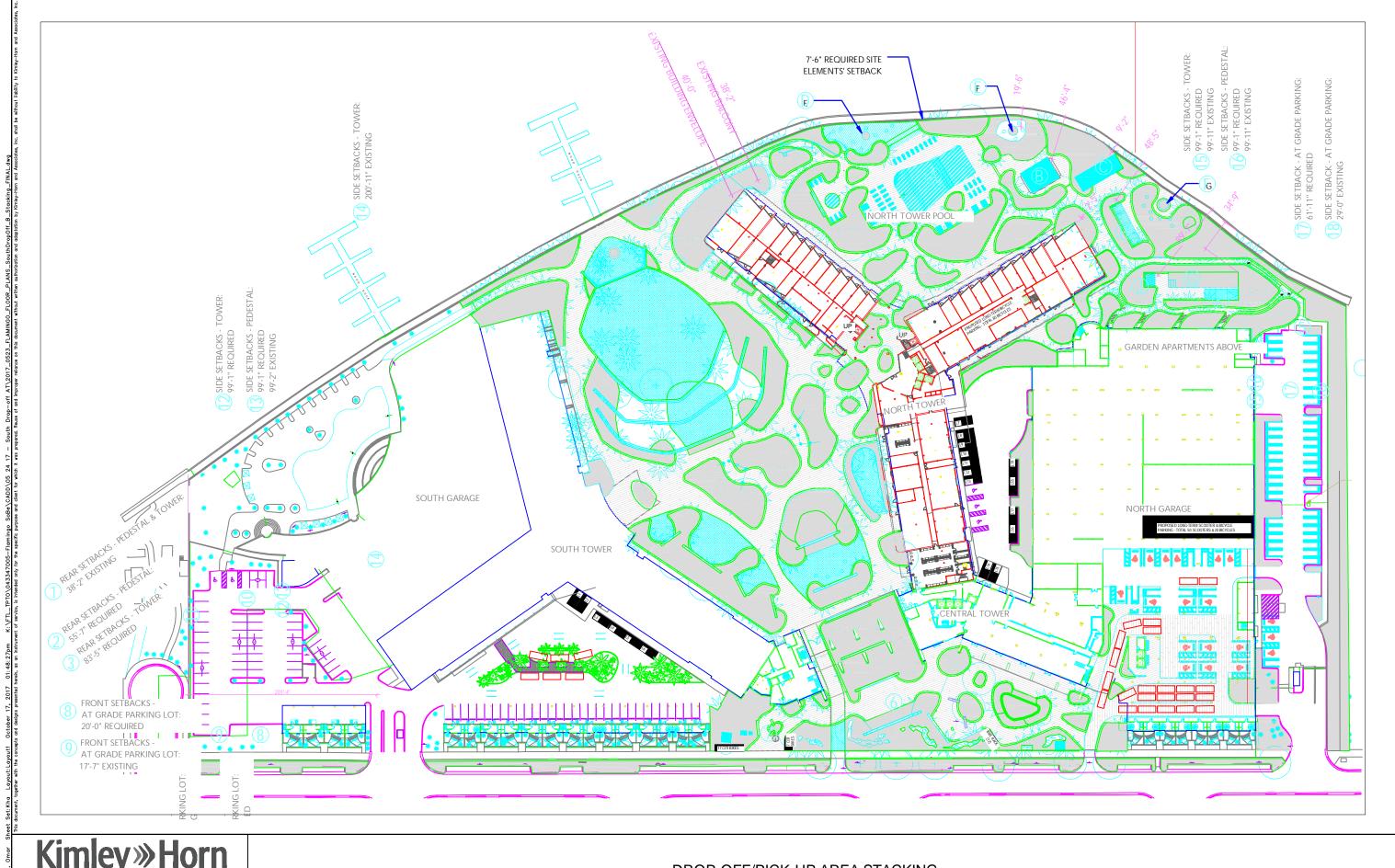
Sincerely,

SAMUÉL COHÉN GENERAL MANAGEN FLORIDA

7300 Biscayne Blvd, #200 Mirami, FL 33137 (786) 888-0202 Scohen@lyft.com

Attachment D

Drop-Off/Pick-Up Area Stacking and Valet Routes



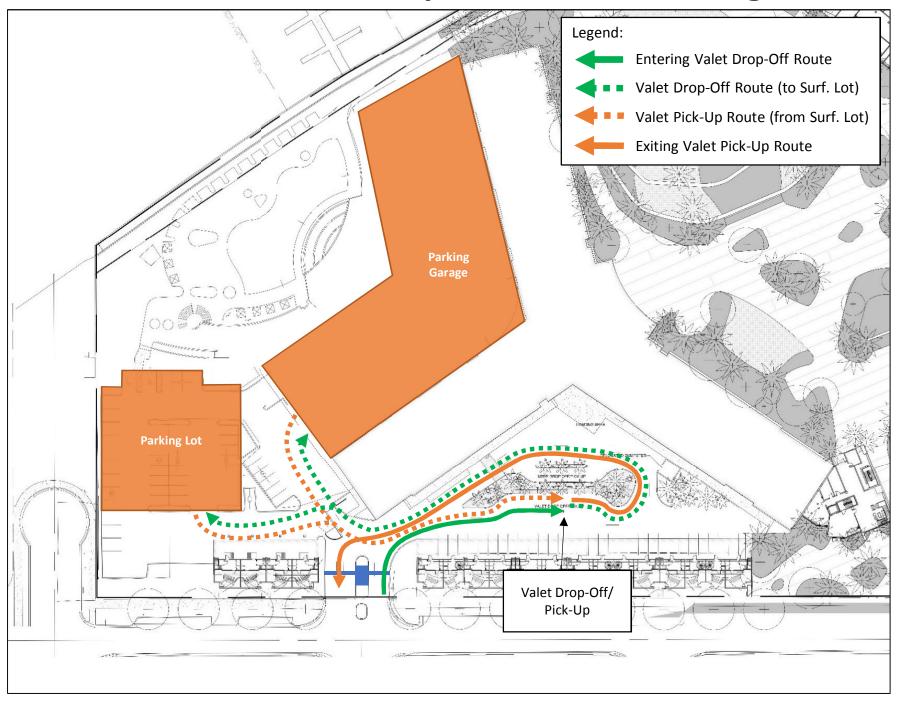
DROP-OFF/PICK-UP AREA STACKING

FLAMINGO REDEVELOPMENT

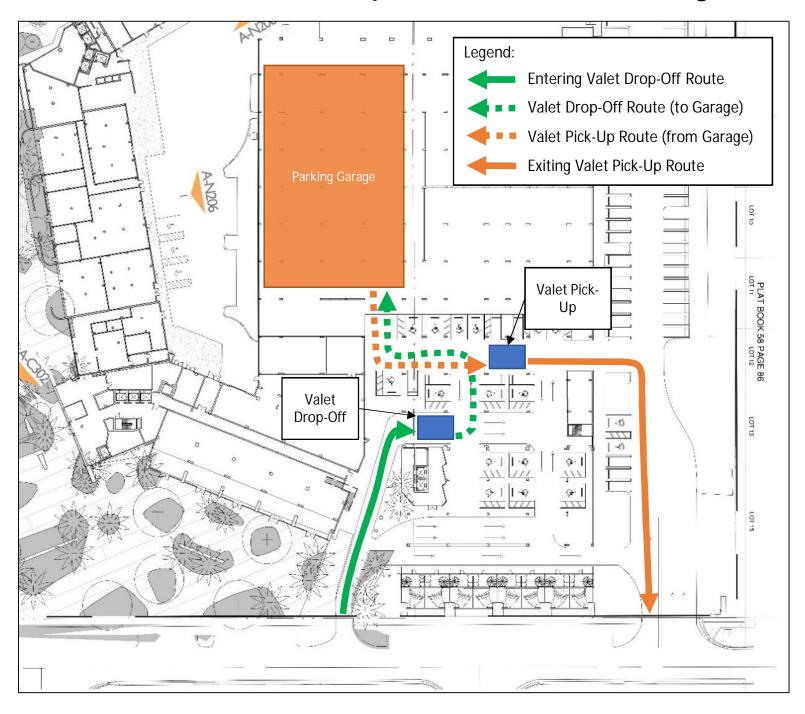
© 2017 KIMLEY-HORN AND ASSOCIATES, INC. 600 N. PINE ISLAND ROAD, SUITE 450, PLANTATION, FL 33324 PHONE: 954-535-5100 WWW.KIMLEY-HORN.COM CA 00000696

MIAMI BEACH, FL

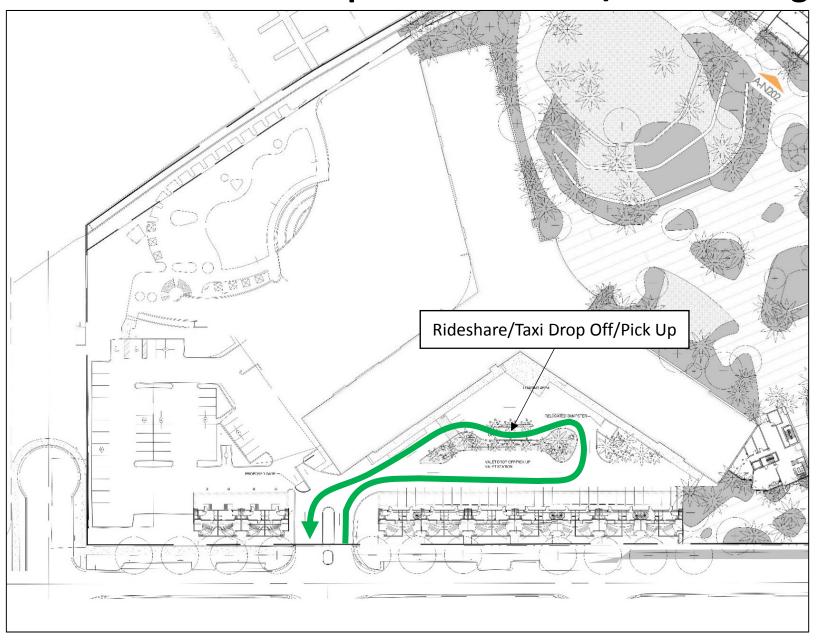
South Tower Proposed Valet Routing



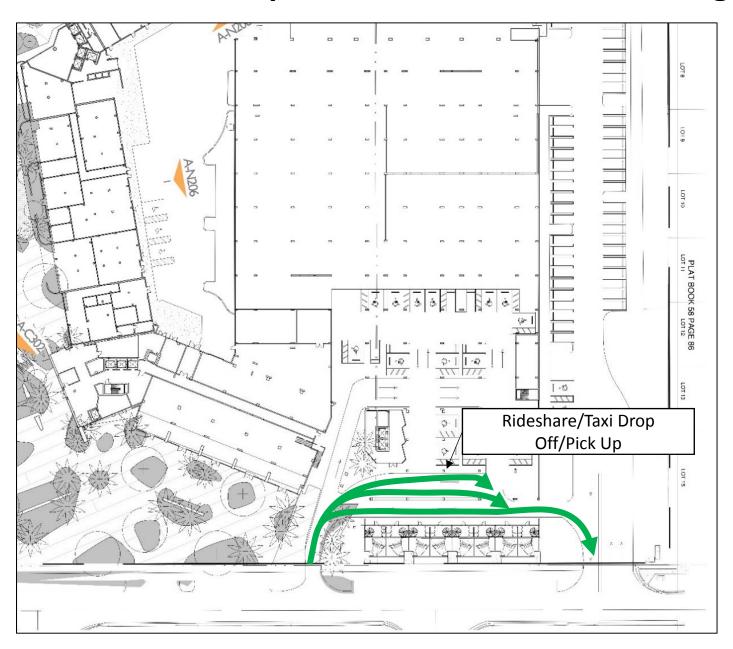
North Tower Proposed Valet Routing



South Tower Proposed Rideshare/Taxi Routing



North Tower Proposed Rideshare/Taxi Routing



Attachment E

Rideshare/Taxi Accumulation Analysis



Memorandum

To: Lee Hodges

Flamingo South Beach

Adrian K. Dabkowski, P.E., PTOE AK Omar Kanaan, P.E. From:

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/pick-up 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
Α	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 15th Terrace and 15th Street, and 15th Street between Bay
Ь	Road and West Avenue (contains main driveway)
С	Bay Road between 15th Street and 15th 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

- 1. 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.
- 2. 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.

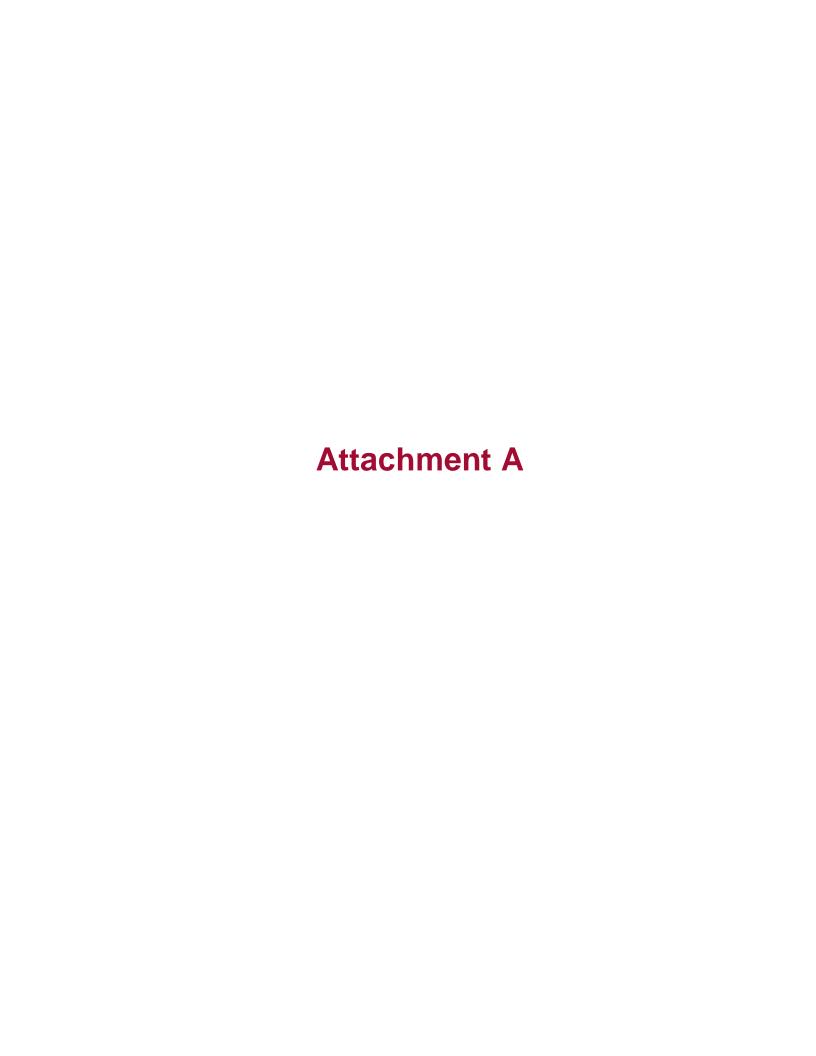


SHARED-RIDE/TAXI DROP-OFF/PICK-UP

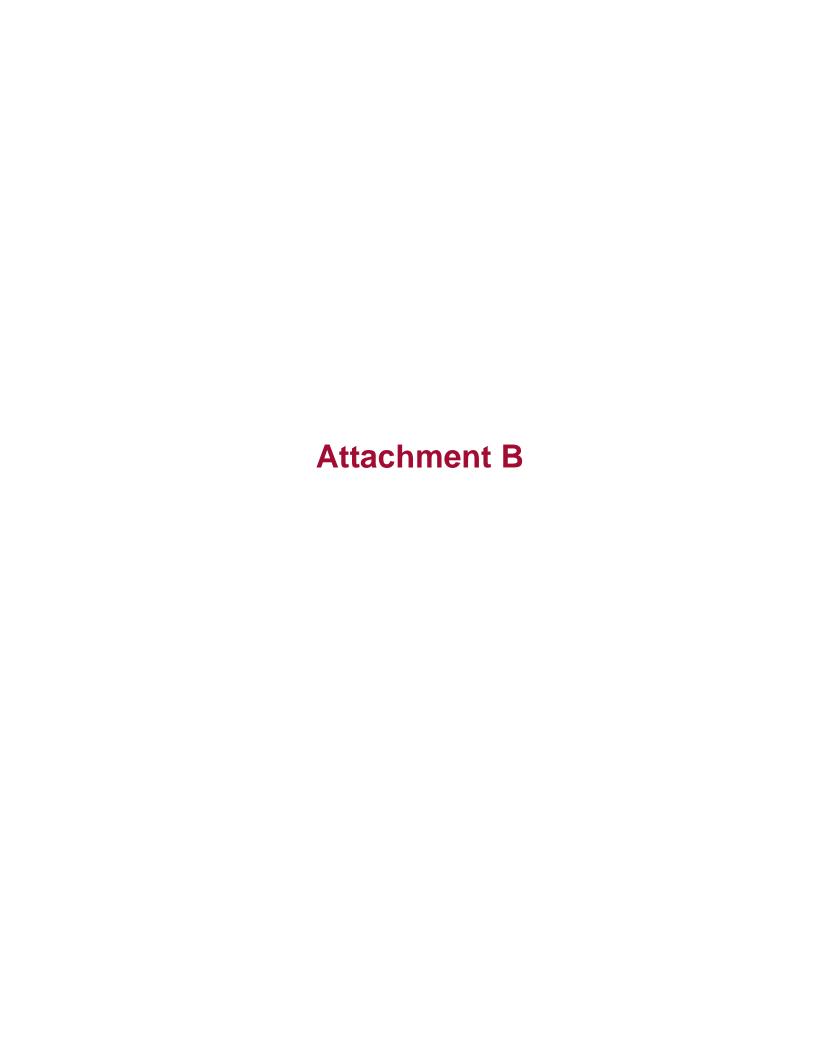
The accumulation data indicates that a maximum vehicle accumulation of nine (9) vehicles was observed at 7:20 P.M. comprised of 9 shared-ride vehicles and at 8:19 P.M. comprised of six (6) shared-ride vehicles and three (3) taxi vehicles. Please note that the maximum observed taxi accumulation was three (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				
Α	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				

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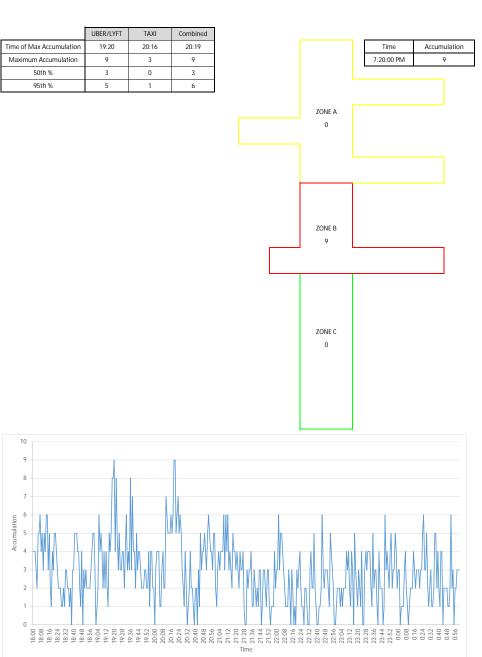


Week	Weekly Volume	PSCF	Month	Days
1	97461	1.08	Jan	1-2
2	94621	1.11		5-9
3	92597	1.14		12-16
4	94820	1.11		19-23
5	95103	1.11		26-30
6	93310	1.13	Feb	2-6
7	97965	1.07		9-13
8	97595	1.08		16-20
9	98306	1.07		23-27
10	99061	1.06	Mar	2-6
11	103197	1.02		9-13
12	104700	1.00		16-20
13	105181	1.00		23-27
14	103378	1.02	Apr	30-3
15	98388	1.07		6-10
16	97132	1.08		13-17
17	92368	1.14		20-24
18	93079	1.13	May	27-1
19	94513	1.11		4-8
20	96765	1.09		11-15
21	90955	1.16		18-22
22	88187	1.19		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		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		27-3
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		12-1 <i>6</i>
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

Shared-Ride/Taxi Drop-off/Pick-up Accumulation Analysis LOCATION: All DAY: Friday DAY: Friday DATE: 3/24/2017 Miami Beach PSCF:

1.00

East/Nort		TIME	West/So	ehicles outh Side	Total # of	
UBER/LYFT 2	TAXI 0	18:00	UBER/LYFT 2	TAXI 0	UBER/LYFT 4	TAXI 0
3	0	18:01	1	0	4	0
0	0	18:02 18:03	3	0	3	0
0	0	18:04	2	0	2	0
0	1	18:05	3	1	3	2
1	1	18:06 18:07	3	2	3 4	2
1	0	18:08	3	0	4	0
2	0	18:09	3	0	5	0
2	0	18:10 18:11	3	0	5	0
1	0	18:12	3	0	4	0
3	0	18:13	3	0	6	0
0	0	18:14 18:15	3	0	3	0
3	0	18:16	2	0	5	0
1	0	18:17	1	0	2	0
1	0	18:18 18:19	3	0	4	0
1	0	18:20	2	0	3	0
1	0	18:21 18:22	2	0 2	3	2
2	0	18:23	1	1	3	1
1	0	18:24	2	0	3	0
2	0	18:25	0	0	2	0
1	0	18:26 18:27	1	0	2 2	0
1	0	18:28	0	0	1	0
1	0	18:29	0	0	1	0
1	0	18:30 18:31	0	0	1 1	0
2	0	18:32	1	0	3	0
2	0	18:33	1	0	3 2	0
0	0	18:34 18:35	2	0	2 2	0
1	0	18:36	0	0	1	0
0	0	18:37 18:38	0	0	0	0
1	0	18:38	2	0	3	0
1	1	18:40	1	0	2	1
1	0	18:41 18:42	2	0 2	5	2
2	0	18:43	3	0	5	0
2	0	18:44	1	1	3	1
0	1	18:45 18:46	1	0	1	0
0	0	18:47	1	0	1	0
2	0	18:48	2	0	4	0
1	1	18:49 18:50	0	0	1	2
1	0	18:51	1	0	2	0
0	0	18:52	3	0	3	0
0	0	18:53 18:54	2	0	2	0
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1	0	18:56	0	1	1	1
1	0	18:57 18:58	2	1	3	1
3	0	18:59	1	1	4	1
3	0	19:00 19:01	2	0	5 3	0
0	0	19:01	0	0	0	0
1	0	19:03	0	0	1	0
2	0	19:04 19:05	3	0	5	1
1	0	19:05	2	1	3	1
2	0	19:07	3	0	5	0
1	0	19:08	3	0	4	0
1	0	19:09 19:10	3	0	4	0
0	0	19:11	2	0	2	0
0	0	19:12 19:13	2	0	2	0
0	0	19:13	1	0	1	0
2	0	19:15	3	0	5	0
0	0	19:16 19:17	3 5	0	5	0
3	0	19:17	5	0	8	0
3	0	19:19	5	0	8	0
5	0	19:20 19:21	2	0	9	0
3	0	19:21	5	0	8	0
2	0	19:23	3	0	5	0
2	0	19:24 19:25	3	0	3 5	0
1	0	19:26	2	0	3	0
1	0	19:27	2	0	3	0
0	0	19:28 19:29	4	0	4	0
0	0	19:30	2	0	2	0
0	1	19:31	3	0	3	1
0	0	19:32 19:33	3	0	6 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	1	19:37 19:38	0	0	5	0
2	0	19:39	1	1	3	1
1	1	19:40	2	0	3	1
3	0	19:41 19:42	2	0	5	0
2	0	19:43	1	0	3	0
3	0	19:44	1	0	4	0
	0	19:45	2	0	4	0
1	0	19:46	2	0	3	0



Prepared by National Data & Surveying Services Shared-Ride/Taxi Drop-off/Pick-up Accumulation Analysis LOCATION: All ZONE: A,B, and C DATE: 3/24/2017

ZONE:	A,B, and C		DATE:	3/24/2017		
	rth Side	TIME	West/So	ehicles outh Side		f Vehicles
UBER/LYFT 1	TAXI 0	19:49	UBER/LYFT 1	TAXI 0	UBER/LYFT 2	TAXI 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 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
1	1	19:58 19:59	0	0	1	1
0	0	20:00	0	0	0	0
0	0	20:01	2	1	2	1
2	0	20:02	2	0	4	0
3	0	20:03	1	0	4	0
0	0	20:04	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
2	0	20:10	4	1	6	1
3	1	20:12	2	0	5	1
1	2	20:13	2	0	3	2
1	1	20:14	3	0	4	1
1	1	20:15 20:16	2	2	3	3
0	1	20:17	2	2	2	3
1	1	20:18	2	2	3	3
3	1	20:19	3 5	2	7	2
1	1	20:20	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
0	1	20:25	3	0	4	2
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 1	0	20:30	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	1	0	2	0
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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	20:56 20:57	0	0	2	1
4	1	20:57	0	0	4	1
2	0	20:59	3	0	5	0
1	0	21:00	1	0	2	0
0	0	21:01 21:02	3	0	3	0
0	0	21:02	4	0	4	0
0	0	21:04	2	1	2	1
3	0	21:05	1	0	4	0
1	0	21:06 21:07	2	0	3	0
2	0	21:07	4	0	6	0
1	0	21:09	2	0	3	0
1	0	21:10	3	2	4	2
2	0	21:11 21:12	3	1	3 5	1
3	0	21:12	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
3	0	21:17 21:18	1	0	5 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 21:23	2	0	2	0
2	0	21:23	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 21:29	0	0	0	0
0	0	21:29	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	1	21:34 21:35	1	0	3	1
2						
0	0	21:36	1	0	1	0

Prepared by National Data & Surveying Services Shared-Ride/Taxi Drop-off/Pick-up Accumulation Analysis LOCATION: All ZONE: A,B, and C DATE: 3/24/2017

ZONE: A,B, and C			DATE: 3/24/2017			1.0
East/No	ehicles orth Side	TIME	West/So	ehicles outh Side		f Vehicles
UBER/LYFT 1	TAXI 0	21:38	UBER/LYFT 2	TAXI 0	UBER/LYFT 3	TAXI 0
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0	0	21:40	1	0	1	0
0	0	21:41 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 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 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 21:55	0	0	0	0
0	0	21:56	1	0	1	0
0	0	21:57	1	0	1	0
1	0	21:58 21:59	0	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
2	0	22:03 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
0	0	22:08 22:09	0	0	0	0
0	0	22:10	1	0	1	0
0	0	22:11	1	0	1	0
1	0	22:12 22:13	0	0	2	0
0	0	22:14	0	0	0	0
1	0	22:15	2	0	3	0
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0	0	22:21	3	0	3	0
0	0	22:23	4	0	4	0
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0	0	22:31	0	0	0	0
0	0	22:32	0	0	0	0
2	0	22:33 22:34	2	0	3 4	0
1	0	22:35	1	0	2	0
0	0	22:36	2	0	2	0
1	0	22:37	3	0	2	0
0	0	22:38 22:39	1	0	1	0
0	0	22:40	0	0	0	0
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0	0	22:42 22:43	1	0	1	0
2	0	22:44	0	0	2	0
2	0	22:45	2	2	4	2
0	0	22:46 22:47	2	0	1	0
1	0	22:47	2	0	3	0
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0	0	22:51	1	0	1	0
3	0	22:53	2	0	5	0
3	0	22:54	1	0	4	0
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0	0	22:57	0	0	0	0
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0	0	23:02	2	0	2	0
0	0	23:03 23:04	0 2	0	2	0
1	0	23:05	0	0	1	0
1	0	23:06	1	0	2	0
1	0	23:07 23:08	1	0	2 2	0
2	0	23:08	2	0	4	0
2	0	23:10	1	0	3	0
1	0	23:11	3	0	4	0
0	0	23:12 23:13	0	0	1	0
1	0	23:14	2	1	3	1
1	0	23:15	1	0	3	0
1 2		23:16 23:17	0	0	0	0
1 2 0	0	11 /5:1/	2	0	3	0
1 2	0 0	23:18		1		0
1 2 0 4	0	23:18	2	0	2	U
1 2 0 4 1 0	0 0 0 0	23:18 23:19 23:20	2	0	1	0
1 2 0 4 1 0	0 0 0 0	23:18 23:19 23:20 23:21	0 3	0	3	0
1 2 0 4 1 0	0 0 0 0	23:18 23:19 23:20	2	0	1	0
1 2 0 4 1 0 1	0 0 0 0	23:18 23:19 23:20 23:21 23:22	2 0 3 1	0 0 0	1 3 2	0 0 0

Prepared by National Data & Surveying Services Shared-Ride/Taxi Drop-off/Pick-up Accumulation Analysis LOCATION: All ZONE: A,B, and C DATE: 3/24/2017

	A,B, and C			3/24/2017		
	ehicles			ehicles	Total # o	f Vehicles
	orth Side	TIME		outh Side		
UBER/LYFT 1	TAXI 0	23:27	UBER/LYFT 1	TAXI 1	UBER/LYFT 2	TAXI 1
1	0	23:28	2	1	3	1
0	0	23:29	3	0	3	0
0	0	23:30	4	0	4	0
1	0	23:31	3	0	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	0	0	0	0
1	0	23:41	3	0	4	0
0	0	23:42	2	0	2	0
1	0	23:43	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	2	1	2	1
0	0	23:57	4	1	4	1
0	0	23:58	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	0:02	1	0	1	0
		0:03				0
0	0		1	0	1	
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	1	0	1	0
0	0	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		0	6	
0	0	0:26	3	0	3	0
1	0	0:27	2	0	3	0
2	0	0:28	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
U						0
0	0	0:35	2	0	2	0
	0	0:35			2 5	0
0 2	0	0:36	3	0	5	0
0 2 4	0	0:36 0:37	3 1	0 0 0	5 5	0
0 2 4 1	0 0 0	0:36 0:37 0:38	3 1 1	0 0 0	5 5 2	0 0 0
0 2 4 1 2	0 0 0	0:36 0:37 0:38 0:39	3 1 1 2	0 0 0 0	5 5 2 4	0 0 0
0 2 4 1 2	0 0 0 0	0:36 0:37 0:38 0:39 0:40	3 1 1 2 0	0 0 0 0 0	5 5 2 4 2	0 0 0 0
0 2 4 1 2 2	0 0 0 0 0	0:36 0:37 0:38 0:39 0:40	3 1 1 2 0	0 0 0 0 0	5 5 2 4 2	0 0 0 0
0 2 4 1 2 2 0	0 0 0 0 0	0:36 0:37 0:38 0:39 0:40 0:41	3 1 1 2 0 1 4	0 0 0 0 0	5 5 2 4 2 1	0 0 0 0 0
0 2 4 1 2 2	0 0 0 0 0	0:36 0:37 0:38 0:39 0:40	3 1 1 2 0	0 0 0 0 0	5 5 2 4 2	0 0 0 0
0 2 4 1 2 2 0	0 0 0 0 0	0:36 0:37 0:38 0:39 0:40 0:41	3 1 1 2 0 1 4	0 0 0 0 0 0 0	5 5 2 4 2 1	0 0 0 0 0
0 2 4 1 2 2 0 0	0 0 0 0 0 0	0:36 0:37 0:38 0:39 0:40 0:41 0:42	3 1 1 2 0 1 4 3	0 0 0 0 0 0 0	5 5 2 4 2 1 4 4	0 0 0 0 0 0
0 2 4 1 2 2 0 0	0 0 0 0 0 0 0	0:36 0:37 0:38 0:39 0:40 0:41 0:42 0:43	3 1 1 2 0 1 4 3	0 0 0 0 0 0 0 0	5 5 2 4 2 1 4 4 4 0	0 0 0 0 0 0 0
0 2 4 1 2 2 0 0 0 1	0 0 0 0 0 0 0 0 0	0:36 0:37 0:38 0:39 0:40 0:41 0:42 0:43 0:44	3 1 1 2 0 1 4 3 0	0 0 0 0 0 0 0 0 0	5 5 2 4 2 1 4 4 0	0 0 0 0 0 0 0 0 0
0 2 4 1 2 2 0 0 0 1 0 1	0 0 0 0 0 0 0 0 0 0	0:36 0:37 0:38 0:39 0:40 0:41 0:42 0:43 0:44 0:45 0:46	3 1 1 2 0 1 4 3 0 0	0 0 0 0 0 0 0 0 0 0 0 0	5 5 2 4 2 1 4 4 0 1 1 2	0 0 0 0 0 0 0 0 0 0
0 2 4 1 2 2 0 0 0 1 0 1 1 0	0 0 0 0 0 0 0 0 0 0 0	0:36 0:37 0:38 0:39 0:40 0:41 0:42 0:43 0:44 0:45 0:46 0:47	3 1 1 2 0 1 4 3 0 0	0 0 0 0 0 0 0 0 0 0 0 0	5 5 2 4 2 1 4 4 0 1 1 2	0 0 0 0 0 0 0 0 0 0 1
0 2 4 1 2 2 0 0 1 0 1 1 0 1 1	0 0 0 0 0 0 0 0 0 0 1 0 0	0:36 0:37 0:38 0:39 0:40 0:41 0:42 0:43 0:44 0:45 0:46 0:47 0:48 0:49	3 1 1 2 0 1 4 3 0 0 1 1 1 1 1 0	0 0 0 0 0 0 0 0 0 0 0 0 0	5 5 2 4 2 1 4 4 0 1 2 1 2	0 0 0 0 0 0 0 0 0 0 1
0 2 4 1 2 2 0 0 1 0 1 1 0 1 1 0	0 0 0 0 0 0 0 0 0 0 1 0 0 0	0:36 0:37 0:38 0:39 0:40 0:41 0:42 0:43 0:44 0:45 0:46 0:47 0:48 0:49 0:50	3 1 1 2 0 1 4 3 0 0 1 1 1 1 1 0 1 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0	5 5 2 4 2 1 4 4 0 1 2 1 2 1 2	0 0 0 0 0 0 0 0 0 1 0 1
0 2 4 1 2 2 0 0 1 0 1 1 0 1 1 0 1 1	0 0 0 0 0 0 0 0 0 1 0 0 0 0 0	0:36 0:37 0:38 0:39 0:40 0:41 0:42 0:43 0:44 0:45 0:46 0:47 0:48 0:49 0:50 0:51	3 1 1 2 0 1 4 3 0 0 1 1 1 1 0 1 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	5 5 2 4 2 1 4 0 1 2 1 2 1 2 1 2 1 2	0 0 0 0 0 0 0 0 0 1 0 1 0 0
0 2 4 1 1 2 2 0 0 0 1 1 0 0 1 1 1 0 0 2 2 2 2	0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0	0:36 0:37 0:38 0:39 0:40 0:41 0:42 0:43 0:44 0:45 0:46 0:47 0:48 0:49 0:50 0:51	3 1 1 2 0 1 4 3 0 0 1 1 1 1 0 1 0 4	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	5 5 2 4 2 1 4 0 1 2 1 2 1 2 1 2 6	0 0 0 0 0 0 0 0 0 1 0 1 0 0 0
0 2 4 1 2 2 0 0 0 1 1 0 1 1 0 1 1 0 2	0 0 0 0 0 0 0 0 0 1 0 0 0 0 0	0:36 0:37 0:38 0:39 0:40 0:41 0:42 0:43 0:44 0:45 0:46 0:47 0:48 0:49 0:50 0:51	3 1 1 2 0 1 4 3 0 0 1 1 1 1 0 1 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	5 5 2 4 2 1 4 0 1 2 1 2 1 2 1 2 1 2	0 0 0 0 0 0 0 0 0 1 0 1 0 0
0 2 4 1 1 2 2 0 0 0 1 1 0 0 1 1 1 0 0 2 2 2 2	0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0	0:36 0:37 0:38 0:39 0:40 0:41 0:42 0:43 0:44 0:45 0:46 0:47 0:48 0:49 0:50 0:51	3 1 1 2 0 1 4 3 0 0 1 1 1 1 0 1 0 4	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	5 5 2 4 2 1 4 0 1 2 1 2 1 2 1 2 6	0 0 0 0 0 0 0 0 0 1 0 1 0 0 0
0 2 4 1 1 2 2 2 0 0 0 1 1 1 1 0 0 1 1 1 0 0 2 2 2 2	0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0	0:36 0:37 0:38 0:39 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	3 1 1 1 2 0 1 4 3 0 0 1 1 1 1 0 4 0 4 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	5 5 2 4 2 1 4 4 0 1 1 2 1 1 2 1 1 2 6 2	0 0 0 0 0 0 0 0 0 1 1 0 0 0 0
0 2 4 1 1 2 2 2 0 0 0 1 1 1 0 0 1 1 1 0 0 2 2 2 2	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0:36 0:37 0:38 0:39 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	3 1 1 1 2 0 1 4 3 0 0 1 1 1 1 0 4 0 2	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	5 5 2 4 2 1 4 4 0 1 1 2 1 1 2 1 2 6 2 3	0 0 0 0 0 0 0 0 0 1 1 0 0 0 0 0
0 2 4 1 1 2 2 2 0 0 0 1 1 1 1 0 0 2 2 2 2 1 1 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0:36 0:37 0:38 0:39 0:40 0:41 0:42 0:43 0:44 0:45 0:46 0:47 0:48 0:50 0:51 0:52 0:53 0:54 0:55	3 1 1 2 0 1 4 3 0 1 1 1 1 0 1 0 4 0 2 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	5 5 2 4 2 1 4 0 1 2 1 2 1 2 1 2 1 2 3 0	0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0
0 2 4 1 1 2 2 2 2 2 2 1 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 1 0 0 1 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	0:36 0:37 0:38 0:39 0:40 0:41 0:42 0:43 0:44 0:45 0:46 0:47 0:48 0:50 0:51 0:52 0:53 0:54 0:55 0:56	3 1 1 1 2 0 1 4 3 0 0 1 1 1 1 0 1 0 2 0 0 2 0 0 2	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	5 5 2 4 2 1 4 0 1 2 1 2 1 1 2 6 2 3 0 1 1 2	0 0 0 0 0 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0
0 2 4 1 1 2 2 2 0 0 0 1 1 0 0 2 2 2 2 1 1 0 0 2 2 2 2	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0:36 0:37 0:38 0:39 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	3 1 1 1 2 0 1 4 3 0 0 1 1 1 1 0 1 0 2 0 0 2 1 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	5 5 2 4 2 1 4 0 1 2 1 1 2 1 1 2 6 2 3 0 1 1 2 3	0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0
0 2 4 1 1 2 2 2 0 0 0 1 1 0 0 2 2 2 2 1 1 0 0 1 1 0 0 0 1 1 0 0 0 1 1 0 0 0 1 1 0 0 0 1 1 0 0 0 1 1 0 0 0 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	0:36 0:37 0:38 0:39 0:40 0:41 0:42 0:43 0:44 0:45 0:46 0:47 0:48 0:50 0:51 0:52 0:53 0:54 0:55 0:56	3 1 1 1 2 0 1 4 3 0 0 1 1 1 1 0 1 0 2 0 0 2 0 0 2	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	5 5 2 4 2 1 4 0 1 2 1 2 1 1 2 6 2 3 0 1 1 2	0 0 0 0 0 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0

Prepared by National Data & Surveying Services Shared-Ride/Taxi Drop-off/Pick-up Accumulation Analysis Bay Rd Btwn Lincoln Ter & 15th LOCATION: Ter, 15th Tes 16th St Btwn Bay Rd & West Ave

LOCATION:	Ter, 15th Ter & 16th S Rd & West Ave	st Btwn Bay	DAY:	Friday	Miami Beach PSCF:	1.00
ZONE:	Α		DATE:	3/24/2017		
	'ehicles t Side	TIME		ehicles t Side		f Vehicles
UBER/LYFT 0	TAXI 0	18:00	UBER/LYFT 0	TAXI 0	UBER/LYFT 0	TAXI 0
0	0	18:01	0	0	0	
0	0	18:02	1	0	1	
0	0	18:03 18:04	0	0	0	
0	0	18:05	0	0	0	
0	0	18:06	1	0	1	0
1	0	18:07 18:08	1	0	2	
1	0	18:09	1	0	2	
0	0	18:10	0	0	0	
0	0	18:11 18:12	0	0	0	
1	0	18:13	0	0	1	0
1	0	18:14	1	0	2	
0	0	18:15 18:16	0	0	0	
0	0	18:17	0	0	0	
0	0	18:18	0	0	0	
0	0	18:19 18:20	0	0	1 0	0
0	0	18:21	2	0	2	
0	0	18:22	1	0	1	
0	0	18:23 18:24	2	0	2	
0	0	18:25	0	0	0	
1	0	18:26	0	0	1	0
0	0	18:27 18:28	0	0	0	
0	0	18:29	0	0	0	
0	0	18:30	0	0	0	
0	0	18:31 18:32	0	0	0	
0	0	18:33	0	0	0	0
0	0	18:34	0	0	0	
0	0	18:35 18:36	0	0	0	
0	0	18:37	1	0	1	0
0	0	18:38	0	0	0	
0	0	18:39 18:40	0	0	0	
0	0	18:41	0	0	0	
0	0	18:42	0	0	0	
0	0	18:43 18:44	0	0	1	0
0	0	18:45	1	0	1	0
0	0	18:46	0	0	0	
0	0	18:47 18:48	0	0	1	0
0	0	18:49	0	0	0	
0	0	18:50	0	1	0	
0	0	18:51 18:52	0	0	1	0
0	0	18:53	1	0	1	0
0	0	18:54	0	0	0	
1	0	18:55 18:56	0	0	1	0
0	0	18:57	1	0	1	0
0	0	18:58	1	0	1	0
0	0	18:59 19:00	0	0	0	0
0	0	19:01	0	0	0	0
0	0	19:02	0	0	0	
0	0	19:03 19:04	0	0	0	
1	0	19:05	0	0	1	0
0	0	19:06	0	0	1 0	0
0	0	19:07 19:08	1	0	2	0
0	0	19:09	1	0	1	0
0	0	19:10 19:11	1	0	1	0
0	0	19:11	0	0	0	
0	0	19:13	0	0	0	0
0	0	19:14 19:15	0	0	0	0
0	0	19:15	0	0	0	
0	0	19:17	1	0	1	0
0	0	19:18 19:19	0	0	3	0
0	0	19:19	0	0	0	
0	0	19:21	0	0	0	0
0	0	19:22 19:23	0	0	0	
0	0	19:23	0	0	0	
0	0	19:25	0	0	0	
0	0	19:26 19:27	0	0	1 0	0
0	0	19:27	0	0	0	
0	0	19:29	0	0	0	0
0	0	19:30 19:31	0	0	0	
1	0	19:31	0	0	1	
0	0	19:33	0	0	0	
0	0	19:34 19:35	0	0	0	
1	0	19:35	1	0	2	
0	0	19:37	0	0	0	0
0	0	19:38	0	0	0	
0	0	19:39 19:40	0	0	0	
0	0	19:41	0	0	0	0
0	0	19:42	0	0	1 0	
0	0	19:43 19:44	0	0	0	
0	0	19:45	0	0	0	0
0	0	19:46	0	0	0	
0	0	19:47 19:48	0	0	0	
-	-			-	l — — — — — — — — — — — — — — — — — — —	

	UBER/LYFT	TAXI	Combined
Time of Max Accumulation	Multiple	Multiple	Multiple
Maximum Accumulation	3	1	3
50th %	0	0	0
95th %	2	0	2

Prepared by National Data & Surveying Services Shared-Ride/Taxi Drop-off/Pick-up Accumulation Analysis Bay Rd Btwn Lincoln Ter & 15th LOCATION: Ter, 15th Ter & 16th St Btwn Bay Rd & West Ave

	Rd & West Ave	ы ышп бау		3/24/2017	Miami Beach PSCF:	1.00
# of Ve	ehicles		# of V	ehicles	Total # o	f Vehicles
UBER/LYFT	Side TAXI	TIME	UBER/LYFT	t Side TAXI	UBER/LYFT	TAXI
0	0	19:50 19:51	0	0	0	0
0	0	19:52	0	0	0	
0	0	19:53 19:54	1	0	1	0
1	0	19:55	0	0	1	0
0	0	19:56 19:57	0	0	1	0
0	0	19:58	0	0	0	0
0	1 0	19:59 20:00	0	0	0	
0	0	20:00	1	0	1	0
0	0	20:02	0	0	0	0
0	0	20:03	0	0	0	
0	0	20:05	0	0	0	
0	0	20:06	0	0	0	0
0	0	20:08	1	0	1	0
0	0	20:09	0	0	0	0
1	0	20:11	2	0	3	0
2	0	20:12	0	0	2	0
0	0	20:13	0	0	0	0
0	0	20:15	1	0	1	0
0	0	20:16	0	0	1 0	0
0	0	20:17	0	0	0	
0	0	20:19	0	0	0	0
1	0	20:20	0	0	1	0
0	0	20:22	1	0	1	0
0	0	20:23	0	0	1 0	0
0	0	20:24	1	0	1	0
0	0	20:26	0	0	0	0
0	0	20:27	0	0	0	0
0	0	20:29	0	0	0	0
0	0	20:30	0	0	0	
0	0	20:32	0	0	0	
0	0	20:33	0	0	0	0
0	0	20:34	0	0	1	0
0	0	20:36	0	0	0	0
0	0	20:37	0	0	0	0
0	0	20:39	0	0	0	0
0	0	20:40	0	0	0	0
0	0	20:41	0	0	0	0
0	0	20:43	0	0	0	0
0	0	20:44	0	0	1	0
1	0	20:46	0	0	1	0
1	0	20:47	0	0	1	0
1	0	20:48	0	0	1	0
1	1	20:50	0	0	1	1
2	1	20:51	0	0	1 2	1
2	1	20:53	0	0	2	1
0	1	20:54 20:55	0	0	0	1
0	1	20:56	0	0	0	
0	1	20:57	0	0	0	1
0	0	20:58	0	0	0	0
0	0	21:00	0	0	0	
0	0	21:01 21:02	0	0	0	0
0	0	21:02	2	0	2	0
0	0	21:04 21:05	0	0	0	0
0	0	21:05	2	0	2	0
0	0	21:07	2	0	2	0
0	0	21:08	0	0	0	0
0	0	21:10	0	1	0	1
0	0	21:11 21:12	1 2	1 1	1 2	1
0	0	21:12	0	0	0	0
0	0	21:14	0	0	0	
0	0	21:15 21:16	0	0	0	0
1	0	21:17	0	0	1	0
0	0	21:18 21:19	0	0	2	0
1	0	21:19	0	0	1	0
1	0	21:21	0	0	1	0
0	0	21:22	0	0	0	
1	0	21:24	0	0	1	0
0	0	21:25 21:26	1 2	0	1 2	0
0	0	21:26	1	0	1	0
0	0	21:28	0	0	0	
0	0	21:29 21:30	0	0	0	
0	0	21:31	0	0	0	0
0	0	21:32 21:33	1	0	1 2	0
1	0	21:33	0	0	1	0
1	0	21:35	0	0	1	0
0	0	21:36 21:37	0	0	0	
0	0	21:38	0	0	0	

Prepared by Mallonal Data & Surveying Services

Shared-Ride/Taxi Drop-off/Pick-up Accumulation Analysis

Bay Rd Btwn Lincoln Ter & 15th

LOCATION: Ter, 15th Ter & 16th St Btwn Bay

Rd & West Ave

ZONE: A

# of Vehicles East Side UBER/LYFT TAXI 0 0 21:40 1 0 1 0 0 21:41 1 0 1 0 0 0 21:42 1 0 1 1 0 0 1 1 0 0 0 21:43 1 0 0 1 1 0 0 0 21:44 1 0 0 2 1 1 0 0 0 0 21:45 0 0 0 0 0 0 21:46 0 0 0 0 0 0 0 21:47 0 0 0 0 0 0 21:48 0 0 0 0 0 0 0 21:49 0 0 0 0 0 0 0 21:49 0 0 0 0 0 0 0 21:50 0 0 0 0 1 0 0 0 21:50 0 0 0 0 1 0 0 0 21:55 0 0 0 0 0 1 0 0 0 21:55 0 0 0 0 0 1 0 0 0 21:55 0 0 0 0 0 1 0 0 0 21:55 0 0 0 0 0 1 0 0 0 21:55 0 0 0 0 0 1 0 0 0 21:55 0 0 0 0 0 0 1 0 0 0 21:55 0 0 0 0 0 0 1 0 0 0 21:55 0 0 0 0 0 0 1 0 0 0 21:55 0 0 0 0 0 0 0 1 0 0 0 21:55 0 0 0 0 0 0 0 1 0 0 0 21:55 0 0 0 0 0 0 0 1 0 0 0 21:55 0 0 0 0 0 0 0 1 0 0 0 21:55 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TAXI 0 0 0 0 0 0 0 0 0 0 0 0 0
UBER/LYFT	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
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 0 0 0 0 0 0 21:45 0 0 0 0 0 21:46 0 0 0 0 0 21:47 0 0 0 0 0 0 21:48 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
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 0 0 1 0 21:52 0 0 0 1 0 0 1 0 0 1 0 </td <td>0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td>	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
1 0 21:44 1 0 2 0 0 0 21:45 0 0 0 0 0 0 21:46 0 0 0 0 0 0 0 21:48 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 21:45 0 <td>0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td>	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 21:46 0 <td>0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td>	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 21:48 0 <td>0 0 0 0 0 0 0 0 0 0 0 0 0 0</td>	0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 21:49 0 <td>0 0 0 0 0 0 0 0 0 0 0 0 0</td>	0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 21:50 0 0 0 0 0 0 0 1 0 0 1 0 0 1 1 0 <td>0 0 0 0 0 0 0 0 0 0 0</td>	0 0 0 0 0 0 0 0 0 0 0
0 0 21:52 0 0 0 0 1 0 0 1 0 0 1 0 0 0 1 1 0 0 0 0 1 0 <td>0 0 0 0 0 0 0 0 0 0 0</td>	0 0 0 0 0 0 0 0 0 0 0
1 0 21:53 0 0 1 0 0 21:54 0 0 0 0 0 0 21:55 0 0 0 0 0 0 0 21:56 0	0 0 0 0 0 0 0 0 0 0
0 0 21:54 0 <td>0 0 0 0 0 0 0 0</td>	0 0 0 0 0 0 0 0
0 0 21:55 0 <td>0 0 0 0 0 0</td>	0 0 0 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 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 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 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 0 0 0
0 0 22:00 0 <td>0 0 0</td>	0 0 0
0 0 22:01 0 0 0 1 0 22:02 1 0 2 0 0 22:03 0 0 0 0 0 0 22:04 1 0 1 1 0 0 22:05 1 0 1 1 0 0 22:06 1 0 1 1 0 0 22:07 1 0 1 1	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 0 22:03 0 0 0 0 0 0 22:04 1 0 1 0 0 0 22:05 1 0 1 0 0 0 22:06 1 0 1 0	0
0 0 22:05 1 0 1 0 0 22:06 1 0 1 0 0 22:07 1 0 1	
0 0 22:06 1 0 1 0 0 22:07 1 0 1	0
0 0 22:07 1 0 1	0
0 0 22:08 0 0	0
	0
0 0 22:09 0 0 0 0 0 22:10 1 0 1	0
0 0 22:10 1 0 1	0
1 0 22:12 0 0 1	0
1 0 22:13 0 0 1 0 0 22:14 0 0	0
0 0 22:14 0 0 0	0
1 0 22:16 0 0 1	0
0 0 22:17 0 0 0 1 0 22:18 0 0 1	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 1 0 1	0
0 0 22:23 2 0 2	0
0 0 22:24 0 0	0
0 0 22:25 0 0 0 0 0 22:26 1 0 1	0
0 0 22:27 0 0 0	0
0 0 22:28 0 0	0
0 0 22:29 0 0 0 0 0 22:30 0 0 0	0
0 0 22:31 0 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 0 22:35 0 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 0 22:39 0 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 0 22:43 0 0 0	0
1 0 22:44 0 0 1	0
1 0 22:45 1 0 2 0 0 0 1 0 1	0
0 0 22:47 1 0 1	0
0 0 22:48 2 0 2	0
0 0 22:49 3 0 3 0 0 22:50 2 0 2	0
0 0 22:51 0 0 0	0
0 0 22:52 0 0	0
2 0 22:53 1 0 3 2 0 22:54 0 0 2	0
2 0 22:54 0 0 2 1 0 22:55 0 0 1	0
0 0 22:56 0 0	0
0 0 22:57 0 0 0 0 0 22:58 0 0	0
U	0
0 0 22:59 0 0	0
0 0 22:59 0 0 0 0 0 23:00 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 0 22:59 0 0 0 0 0 23:00 0 0 0	0 0
0 0 22:59 0 <td>0 0</td>	0 0
0 0 22:59 0 <td>0 0 0</td>	0 0 0
0 0 22:59 0 <td>0 0</td>	0 0
0 0 22:59 0 <td>0 0 0 0 0</td>	0 0 0 0 0
0 0 22:59 0 <td>0 0 0 0 0 0</td>	0 0 0 0 0 0
0 0 22:59 0 <td>0 0 0 0 0</td>	0 0 0 0 0
0 0 22:59 0 <td>0 0 0 0 0 0 0 0 0 0</td>	0 0 0 0 0 0 0 0 0 0
0 0 22:59 0 <td>0 0 0 0 0 0 0 0 0 0 0</td>	0 0 0 0 0 0 0 0 0 0 0
0 0 22:59 0 <td>0 0 0 0 0 0 0 0 0 0</td>	0 0 0 0 0 0 0 0 0 0
0 0 22:59 0 <td>0 0 0 0 0 0 0 0 0 0 0 0 0</td>	0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 22:59 0 <td>0 0 0 0 0 0 0 0 0 0 0 0 0 0</td>	0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 22:59 0 <td>0 0 0 0 0 0 0 0 0 0 0 0 0</td>	0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 22:59 0 <td>0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td>	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 22:59 0 <td>0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td>	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 22:59 0 <td>0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td>	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 22:59 0 <td>0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td>	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 22:59 0 <td>0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td>	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 22:59 0 <td>0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td>	0 0 0 0 0 0 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 Analysis

Bay Rd Btwn Lincoln Ter & 15th

LOCATION: Ter, 15th Ter & 16th St Btwn Bay

Rd & West Ave

ZONE: A

ZONE:	A		DATE:	3/24/2017		
	ehicles			ehicles	Total # o	f Vehicles
UBER/LYFT	Side TAXI	TIME	UBER/LYFT	Side TAXI	UBER/LYFT	TAXI
0	0	23:30	2	0	2	0
1	0	23:31	1	0	2	0
1	0	23:32	0	0	1	0
1	0	23:33	0	0	1	0
1	0	23:34	0	0	1	0
0	0	23:35	1	0	1	0
0	0	23:30	0	0	0	0
0	0	23:38	1	0	1	0
0	0	23:39	0	0	0	0
0	0	23:40	0	0	0	0
1	0	23:41	0	0	1	0
0	0	23:42	0	0	0	0
1	0	23:43	0	0	1	0
0	0	23:44	0	0	0	0
0	0	23:45	0	0	0	0
1	0	23:46	0	0	1	0
1	0	23:47	0	0	1	0
0	1	23:48	0	0	0	1
1	0	23:49	1	0	2	0
2	0	23:50	0	0	2	0
1	0	23:51	0	0	1	0
1	0	23:52	0	0	2	0
0	0	23:53	1	0	1	0
1	0	23:54	0	0	1	0
0	0	23:56	0	0	0	0
0	0	23:57	1	0	1	0
0	0	23:58	1	0	1	0
0	0	23:59	1	0	1	0
0	0	0:00	1	0	1	0
0	0	0:01	0	0	0	0
0	0	0:02	0	0	0	0
0	0	0:03	0	0	0	0
0	0	0:04	0	0	0	0
0	0	0:05	0	0	0	0
0	0	0:06	0	0	0	0
0	0	0:07	0	0	0	0
0	0	0:08	0	0	0	0
0	0	0:09	0	0	0	0
0	0	0:10	0	0	0	0
0	0	0:12	0	0	0	0
0	0	0:13	0	1	0	1
0	0	0:14	1	0	1	0
0	0	0:15	1	0	1	0
1	0	0:16	1	0	2	0
0	0	0:17	2	0	2	0
0	0	0:18	1	0	1	0
0	0	0:19	0	1	0	1
0	0	0:20	0	0	0	0
0	0	0:21	0	0	0	0
1	0	0:22	0	0	1	0
0	0	0:23	1	0	3	0
1	0	0:24	0	0	1	0
0	0	0:25	0	0	0	0
0	0	0:27	0	0	0	0
0	0	0:28	0	0	0	0
0	0	0:29	1	0	1	0
0	0	0:30	0	0	0	0
0	0	0:31	0	0	0	0
0	0	0:32	0	0	0	0
0	0	0:33	0	0	0	0
0	0	0:34	0	0	0	0
0	0	0:35	0	0	0	0
0	0	0:36	0	0	0	0
0	0	0:37	0	0	0	0
1	0	0:38	0	0	1	0
0	0	0:39	0	0	0	0
0	0	0:41	0	0	0	0
0	0	0:42	1	0	1	0
0	0	0:43	1	0	1	0
0	0	0:44	0	0	0	0
0	0	0:45	0	0	0	0
0	0	0:46	0	0	0	0
0	0	0:47	0	0	0	0
0	0	0:48	0	0	0	0
0	0	0:49	0	0	0	0
0	0	0:50	0	0	0	0
0	0	0:51	0	0	0	0
0	0	0:52	0	0	0	0
0	0	0:53 0:54	0	0	0	0
0	0	0:54	0	0	0	0
0	0	0:56	0	0	0	0
0	0	0:57	0	0	0	0
0	0	0:58	1	0	1	0
1	0	0:59	0	0	1	0
1	0	1:00	2	0	3	0

Miami Beach PSCF:

1.00

	l: 15th St Btwn Bay Rd	& West Ave		Friday	Miami Beach PSCF:	1.00
ZONE				3/24/2017		
	Vehicles it Side TAXI	TIME		ehicles t Side TAXI	Total # o	f Vehicles TAXI
2	0	18:00	1	0	3	0
3 1	0	18:01 18:02	2	0	3	
0	0	18:03	3	0	3	0
0	0	18:04 18:05	2	0	2	0
0	0	18:06	2	2	2	2
0	1	18:07	2	1	2	2
0	0	18:08 18:09	2	0	3	0
0	0	18:10	3	0	3	0
1	0	18:11 18:12	3	0	3	0
2	0	18:13	3	0	5	0
0	0	18:14 18:15	3	0	3	0
3	0	18:16	2	0	5	0
0	0	18:17 18:18	1	0	1	0
1	0	18:19	2	0	3	0
1	0	18:20 18:21	2	0	3	
1	0	18:22	1	2	2	2
1	0	18:23	0	1	1	1
2	0	18:24 18:25	0	0	1 2	0
1	0	18:26	0	0	1	0
1	0	18:27 18:28	0	0	1	0
1	0	18:29	0	0	1	0
1	0	18:30 18:31	0	0	1	1 0
2	0	18:32	1	0	3	0
2	0	18:33 18:34	1	0	3	0
0	0	18:35	2	0	2	0
1 0	0	18:36 18:37	0	0	1	0
0	0	18:37	0	0	0	
1	0	18:39	2	0	3	
0 2	0	18:40 18:41	3	0	5	1 0
1	0	18:42	2	2	3	2
2	0	18:43 18:44	3 0	0	2	0
2	0	18:45	1	0	3	
0	0	18:46 18:47	0	0	1	1 0
1	0	18:48	1	0	2	0
0	0	18:49 18:50	0	0	0	0
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	1	0	1	0
0	0	18:56 18:57	0	1	1	1
1	0	18:58	1	1	2	1
3	0	18:59 19:00	0 2	0	3 5	0
1	0	19:01	2	0	3	0
0	0	19:02 19:03	0	0	1	0
1	0	19:04	1	0	2	0
1	0	19:05 19:06	3 1	1	2	1
1	0	19:07	3	0	4	0
0	0	19:08	2	0	2	0
1	0	19:09 19:10	2	0	3	0
0	0	19:11	1	0	1	0
0	0	19:12 19:13	4 1	0	1	0
0	0	19:14	1	0	1	0
1	0	19:15 19:16	3	0	4	0
0	0	19:17	4	0	4	0
3	0	19:18 19:19	4	0	7	0
5	0	19:20	4	0	9	0
3	0	19:21 19:22	2	0	7	0
2	0	19:23	3	0	5	0
0 2	0	19:24 19:25	2	0	5	0
0	0	19:26	2	0	2	0
1 0	0	19:27 19:28	2	0	3	0
0	0	19:28	3	0	3	0
0	0	19:30	2	0	2	0
0	0	19:31 19:32	3	0	3	
0	0	19:33	3	0	3	0
0	0	19:34 19:35	2	0	2	
3	0	19:36	2	0	5	0
3 4	0	19:37 19:38	0	0	3	
2	0	19:39	1	1	3	1
1	0	19:40 19:41	1	0	2	
2	0	19:41	1	0	3	
2 3	0	19:43 19:44	1	0	3	
2	0	19:44	2	0	4	
1	0	19:46 19:47	2	0	3	0
1	0	19:47	1	0	2	
1	0	19:49	1	0	2	0

	UBER/LYFT	TAXI	Combined
Time of Max Accumulation	19:20	20:16	20:19
Maximum Accumulation	9	3	9
50th %	2	0	2
95th %	4	1	5

21:39

Prepared by National Data & Surveying Services

Shared-Ride/Taxi Drop-off/Pick-up Accumulation Analysis
Bay Rd Bitwn 15th Ter &15th St,
LOCATION: 15th St Bitwn Bay Rd & West Ave DAY: Friday

ZONE: B

Miami Beach PSCF:

DATE: 3/24/2017

1.00

ZONE:				3/24/2017		
East	ehicles Side	TIME	Wes	ehicles t Side	Total # of	
UBER/LYFT 0	TAXI 0	21:40	UBER/LYFT 0	TAXI 0	UBER/LYFT 0	TAXI
0	0	21:41 21:42	0	0	0	
0	0	21:43	1	0	1	
0	0	21:44 21:45	0	0	0	
0	0	21:46	1	0	1	
0	0	21:47 21:48	1 3	0	1 3	
1	0	21:48	1	0	2	
0	0	21:50	1	0	1	
1	0	21:51 21:52	1	0	2	
0	0	21:53	0	0	0	
0	0	21:54 21:55	0	0	0	
0	0	21:56	1	0	1	
3	0	21:57 21:58	0	0	3	
1	0	21:59	1	0	2	
0	0	22:00 22:01	1	0	3	
0	0	22:02	3	1	3	
1	0	22:03 22:04	2	0	3	
1	0	22:05	2	0	3	
0	0	22:06 22:07	2	0	3	
2	0	22:08	0	0	2	
0	1	22:09	0	0	0	
0	0	22:10 22:11	1	0	1	
1	0	22:12	0	1	1	
0	0	22:13 22:14	0	0	0	
0	0	22:15	1	0	1	
0	0	22:16 22:17	0	0	0	
0	0	22:18	0	0	0	
0	0	22:19 22:20	0	0	0	
0	0	22:21	1	0	1	
0	0	22:22	2 2	0	2	
0	0	22:24	2	0	2	
0	0	22:25 22:26	0	0	1 0	
0	0	22:26	0	0	0	
1	0	22:28	1	0	2	
1	0	22:29	0	0	1	
0	0	22:31	0	0	0	
0	0	22:32	1	0	1	
1	0	22:34	1	0	2	
0	0	22:35 22:36	2	0	2	
0	0	22:37	2	1	2	
0	0	22:38 22:39	1	0	1	
0	0	22:40	0	0	0	
0	0	22:41 22:42	0	0	0	
0	0	22:42	1	0	1	
0	0	22:44	0	0	0	
0	0	22:45 22:46	1	0	1	
0	0	22:47	0	1	0	
0	0	22:48	0	0	0	
0	0	22:50	1	0	1	
0	0	22:51 22:52	0	0	1	
0	0	22:53	1	0	1	
0	0	22:54 22:55	1	0	1	
0	0	22:56	0	1	0	
0	0	22:57 22:58	0	0	0	
0	0	22:59	1	0	1	
1	0	23:00 23:01	1	0	2	
0	0	23:01	2	0	2	
1	0	23:03	0	0	1	
0	0	23:04 23:05	0	0	0	
0	0	23:06	0	0	0	
1	0	23:07 23:08	1	0	1 2	
1	0	23:09	1	0	2	
1	0	23:10 23:11	0 2	0	1 3	
0	0	23:11	2	0	2	
0	0	23:13	0	0	0	
1	0	23:14 23:15	1	0	2	
0	0	23:16	0	0	0	
1	0	23:17 23:18	0	0	2	
0	0	23:19	0	0	0	
0	0	23:20	0	0	0	
0	0	23:21	1	0	1	
0	0	23:23	1	0	1	
0	0	23:24 23:25	0	0	0	
	0	23:26	0	0	0	
0	-		1	1	1	
0 1	0	23:27	2	1	3	

0:56 0:57

0:58

0:59 1:00

Miami Beach PSCF: 1.00

DATE: 3/24/2017 ZONE: C

ZONE:			DATE:			
	ehicles : Side TAXI	TIME		ehicles t Side TAXI	Total # o	f Vehicles TAXI
0	0	18:00 18:01	1	0	1	
0	0	18:02	0	0	0	
0	0	18:03 18:04	0	0	0	
0	1	18:05	1	0	1	
0	0	18:06 18:07	0	0	0	
0	0	18:08 18:09	0	0	0	
0	0	18:10	0	0	0	
0	0	18:11 18:12	0	0	0	
0	0	18:13	0	0	0	
0	0	18:14 18:15	0	0	0	
0	0	18:16 18:17	0	0	0	
0	0	18:18	0	0	0	
0	0	18:19 18:20	0	0	0	
0	0	18:21 18:22	0	0	0	
0	0	18:23	0	0	0	
0	0	18:24 18:25	0	0	0	
0	0	18:26 18:27	0	0	0	
0	0	18:28	0	0	0	
0	0	18:29 18:30	0	0	0	
0	0	18:31 18:32	0	0	0	
0	0	18:33	0	0	0	
0	0	18:34 18:35	0	0	0	
0	0	18:36	0	0	0	
0	0	18:37 18:38	0	0	0	
0	0	18:39 18:40	0	0	1	
0	0	18:41	0	0	0	
1	0	18:42 18:43	0	0	1	
0	0	18:44 18:45	0	0	0	
0	0	18:46	1	0	1	
0	0	18:47 18:48	1	0	1	
0	0	18:49 18:50	0	0	0	
0	0	18:51	1	0	1	
0	0	18:52 18:53	0	0	0	
0	0	18:54 18:55	0	0	0	
0	0	18:56	0	0	0	
0	0	18:57 18:58	0	0	0	
0	0	18:59 19:00	0	0	0	
0	0	19:01	0	0	0	
0	0	19:02 19:03	0	0	0	
0	0	19:04 19:05	0	0	0	
0	0	19:06	0	0	0	
0	0	19:07 19:08	0	0	0	
0	0	19:09 19:10	0	0	0	
0	0	19:11	0	0	0	
0	0	19:12 19:13	0	0	1	
0	0	19:14 19:15	0	0	0	
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 19:23	1 0	0	1 0	
1	0	19:24	0	0	1	
0	0	19:25 19:26	0	0	0	
0	0	19:27 19:28	0	0	0	
0	0	19:29	1	0	1	
0	0	19:30 19:31	0	0	0	
1 0	0	19:32 19:33	0	0	1 0	
0	0	19:34	0	0	0	
0	0	19:35 19:36	0	0	1	
0	0	19:37 19:38	0	0	0	
0	0	19:39	0	0	0	
0	0	19:40 19:41	0	0	1 0	
0	0	19:42	1	0	1	
0	0	19:43 19:44	0	0	0	
0	0	19:45 19:46	0	0	0	
0	0	19:47	0	0	0	
0	0	19:48	0	0	0	

	UBER/LYFT	TAXI	Combined
Time of Max Accumulation	Multiple	Multiple	Multiple
Maximum Accumulation	2	1	2
50th %	0	0	0
95th %	1	0	1

Prepared by National Data & Surveying Services

Shared-Ride/Taxi Drop-off/Pick-up Accumulation Analysis
Bay Rd Btwn 15th St & 14th St
LOCATION:

Miami Beach PSCF:

1.00

DATE: 3/24/2017 ZONE: C

	'ehicles		# of V	ehicles	Total # o	f Vehicles
UBER/LYFT	t Side TAXI	TIME	UBER/LYFT	t Side TAXI	UBER/LYFT	TAXI
0	0	19:50 19:51	0	0	1	0
0	0	19:52	1	0	1	0
0	0	19:53	0	0	0	
0	0	19:54 19:55	0	0	0	
0	0	19:56	0	0	0	
0	0	19:57 19:58	0	0	0	
0	0	19:59	0	0	0	
0	0	20:00	0	0	0	0
0	0	20:01	0	0	0	
1	0	20:03	0	0	1	0
0	0	20:04	1	0	1	0
0	0	20:05	0	0	0	
0	0	20:07	0	0	0	
0	0	20:08	0	0	0	
0	0	20:10	0	0	0	
0	0	20:11	0	0	0	
0	0	20:12	0	0	0	
0	0	20:14	0	0	0	
0	0	20:15	0	0	0	
0	0	20:16	0	0	0	
0	0	20:18	0	0	0	0
0	0	20:19	1	0	1	0
0	0	20:20	0	0	0	0
0	0	20:22	0	0	0	0
0	0	20:23	0	0	0	
0	0	20:24	0	0	0	0
0	1	20:26	1	0	1	1
0	0	20:27	0	0	0	0
0	0	20:29	0	0	0	
0	0	20:30 20:31	0	0	0	
0	0	20:31	0	0	0	
0	0	20:33	0	0	0	0
0	0	20:34	0	0	1	0
0	0	20:36	0	0	0	
0	0	20:37	0	0	0	
0	0	20:38	0	0	0	
0	0	20:40	0	0	0	
0	0	20:41	0	0	0	
0	0	20:42	0	0	0	
0	0	20:44	0	0	0	0
0	0	20:45 20:46	1	0	1	0
0	0	20:47	0	0	0	
0	0	20:48	0	0	0	
0	0	20:49	0	0	1	0
0	0	20:51	0	0	0	
0	0	20:52	1	0	1	0
0	0	20:53 20:54	0	0	0	
0	0	20:55	0	0	0	
0	0	20:56 20:57	0	0	0	
2	0	20:58	0	0	2	0
0	0	20:59	1	0	1	
0	0	21:00 21:01	0	0	0	
0	0	21:02	0	0	0	0
0	0	21:03 21:04	0	0	0	
1	0	21:04	0	0	1	0
1	0	21:06	0	0	1	0
0	0	21:07 21:08	0 1	0	1	0
0	0	21:09	0	0	0	0
0	0	21:10 21:11	0	0	0	
1	0	21:11	0	0	1	0
1	0	21:13	0	0	1	0
0	0	21:14 21:15	1	0	1	0
1	0	21:16	0	0	1	0
1	0	21:17	0	0	1	0
0	0	21:18 21:19	0	0	1	0
1	0	21:20	0	0	1	0
0	0	21:21 21:22	2	0	0	0
0	0	21:22	1	0	1	
1	0	21:24	0	1	1	
0	0	21:25 21:26	0	0	0	
0	0	21:27	0	0	0	
0	0	21:28	0	0	0	
0	0	21:29 21:30	0	0	0	
0	0	21:31	1	0	1	0
0	0	21:32	0	0	0	
1	0	21:33 21:34	0	0	0	0
0	0	21:35	1	0	1	
0	0	21:36 21:37	0	0	0	
1	0	21:37	0	0	1	
1	0	21.20	0	0	1	

23:26

23:27

23:28

23:29

Prepared by National Data & Surveying Services

Shared-Ride/Taxi Drop-off/Pick-up Accumulation Analysis
Bay Rd Btwn 15th St & 14th St
LOCATION:

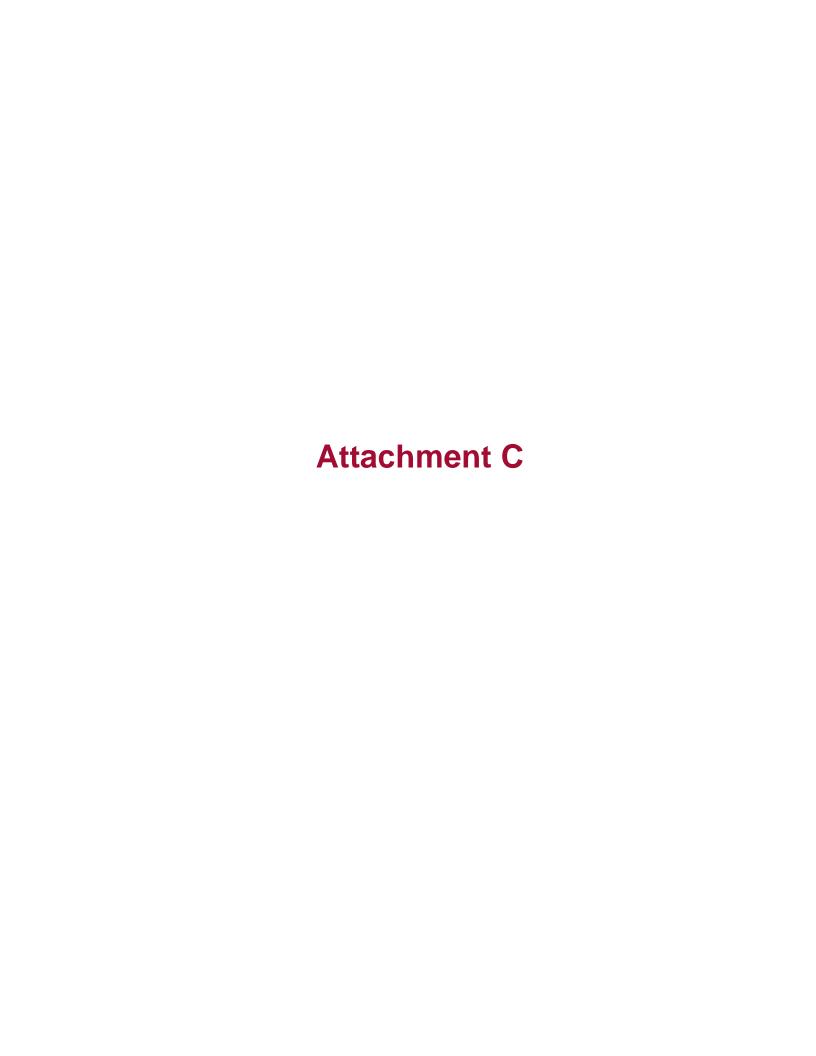
ZONE: C

DATE: 3/24/2017

Miami Beach PSCF:

1.00

	ehicles t Side	TIME		ehicles t Side	Total # o	f Vehicles
UBER/LYFT	TAXI		UBER/LYFT	TAXI	UBER/LYFT	TAXI
0	0	23:30	1	0	1	0
0	0	23:31	0	0	1	0
0	0	23:32	0	0	0	
0	0	23:34	0	0	0	0
0	0	23:35	0	0	0	0
0	0	23:36	0	0	0	0
0	0	23:37	0	0	0	0
0	0	23:38	0	0	0	0
0	0	23:39	0	0	0	
0	0	23:41	0	0	0	0
0	0	23:42	1	0	1	0
0	0	23:43	0	0	0	0
1	0	23:44	0	0	1	0
0	0	23:45	0	0	0	0
0	0	23:46 23:47	0	0	2	0
0	1	23:48	1	0	1	1
0	0	23:49	0	0	0	0
0	0	23:50	0	0	0	0
0	0	23:51	0	0	0	0
0	0	23:52	2	0	2	0
0	0	23:53	1	0	1	0
0	0	23:55	0	0	0	0
0	0	23:56	0	0	0	0
0	0	23:57	0	0	0	0
0	0	23:58	1	0	1	0
1	0	23:59	0	0	1	0
0	0	0:00	0	0	0	0
0	0	0:01	0	0	0	0
0	0	0:03	0	0	0	0
0	0	0:04	0	0	0	0
0	0	0:05	0	0	0	
1	0	0:06	0	0	1	0
0	0	0:07	0	0	0	0
0	0	0:09	0	0	0	0
0	0	0:10	0	0	0	
0	0	0:11	0	0	0	0
0	0	0:12	0	0	0	
0	0	0:13 0:14	0	0	0	0
0	0	0:14	0	0	0	0
0	0	0:16	1	0	1	0
0	0	0:17	0	0	0	0
0	0	0:18	0	0	0	
0	0	0:19	0	0	0	
0	0	0:20	0	0	0	0
0	0	0:22	0	0	0	
0	0	0:23	0	0	0	
0	0	0:24	1	0	1	0
1	0	0:25	1	0	2	0
0	0	0:26	0	0	0	0
0	0	0:27	0	0	0	
0	0	0:29	0	0	0	
0	0	0:30	1	0	1	0
0	0	0:31	0	0	0	0
0	0	0:32	1	0	1	0
0	0	0:33	0	0	0	
0	0	0:35	0	0	0	
0	0	0:36	0	0	0	
2	0	0:37	0	0	2	0
0	0	0:38	0	0	0	
0	0	0:39	0	0	0	0
0	0	0:40	1	0	1	0
0	0	0:42	0	0	0	
0	0	0:43	0	0	0	
0	0	0:44	0	0	0	
0	0	0:45	0	0	0	
0	0	0:46	0	0	0	0
1	0	0:47	0	0	1	0
0	0	0:49	0	0	0	
0	0	0:50	0	0	0	
0	0	0:51	0	0	0	
1	0	0:52	0	0	1	0
1	0	0:53 0:54	0	0	1	0
0	0	0:55	0	0	0	
1	0	0:56	0	0	1	0
	0	0:57	0	0	0	0
0						
0	0	0:58	0	0	0	0
		0:58 0:59 1:00	0 0	0 0	0	0



Field Observation Summary



Shared-ride drop-off/pick-up operation being completed within the intersection of Bay Road and 15 $^{\rm th}$ Street.



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

Field Observation Summary

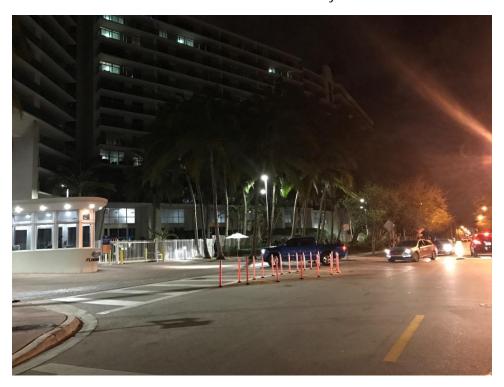


Shared-ride drop-off/pick-up operation being completed along Bay Road.



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 $^{\rm th}$ Street).

Attachment F

Trip Generation

PEAK HOUR TRIP GENERATION COMPARISON

EXISTING WEEKDAY AM PEAK HOUR TRIP GENERATION

	ITE TRIP GENERAL	TION CHAR	ACTERIS	STICS		_	TIONAL BUTION		GROS: VOLUM		MULTII REDU	MODAL CTION	EXT	ERNAL TI	RIPS		RNAL TURE	EXT	ERNAL	TRIPS		S-BY TURE	EX	NET NEW TERNAL TE	
		ITE	ITE		ITE	Per	cent					MR					IC					PB			
	Land Use	Edition		Scale	Units	In .	Out	ln aa	Out	Total	Percent	Trips	In	Out	Total	Percent	Trips	ln	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
	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
	1																								
G :	5																								
R (6																								
0	7																								
U	3																								
Р 9)																								
1	0																			,					
1 1																									
1					1																			1	
1					1																			1	
			 		†													-			 			†	\vdash
		-	+		+													-			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)+	X)+0.26				•		-		-	•	•	•	•	•	•		•	•	•	•	

PROPOSED WEEKDAY AM PEAK HOUR TRIP GENERATION

	ITE TRIP GENERA	TION CHAR	ACTERIS	STICS		DIRECT DISTRIE			GROS: VOLUM		_	MODAL CTION	EXT	ERNAL TI	RIPS	INTE	RNAL FURE	EXT	ERNAL	TRIPS		S-BY TURE	EXT	NET NEW TERNAL TR	
	Land Use	ITE Edition	ITE Code	Scale	ITE Units	Perd	cent Out	ln.	Out	Total	Percent	MR Trips	In	Out	Total	Percent	IC Trips	ln.	Out	Total	Percent	PB Trips	ln.	Out	Total
Τ.	1 Residential Condominium/Townhouse	Q	230	426	du	17%	83%	28	137	165	10.0%	11ps 16	25	124	149	0.8%	111ps 1	25	123	148	0.0%	nips O	25	123	148
	2 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
-	3 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 E	5																								
R (6																								
0	7																								
υE	8																								
PΩ	9																								
1	0																								
2 1	•																								
1	_																								
_	3																								<u> </u>
	4				<u> </u>																				<u> </u>
1	-																								<u> </u>
	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

LN(Y) = 0.8*LN(X)+0.26Y=0.49*(X)+3.73 220 931 Y=0.03(X) LN(Y) = 0.61*LN(X)+2.24

	IN	OUT	TOTAL
Net New Vehicle Trips	-2	-52	-54

PEAK HOUR TRIP GENERATION COMPARISON

EXISTING WEEKDAY PM PEAK HOUR TRIP GENERATION

	ITE TRIP GENERAT	ION CHAR	ACTERIS	STICS			TIONAL BUTION		GROS VOLUM		MULTII REDU	MODAL CTION	EXT	ERNAL TI	RIPS		RNAL TURE	EXT	ERNAL	TRIPS		S-BY TURE	EX	NET NEW FERNAL TE	
	Land Use	ITE Edition	ITE Code	Scale	ITE Units	Per In	cent Out	In	Out	Total	Percent	MR Trips	ln .	Out	Total	Percent	IC Trips	ln	Out	Total	Percent	PB Trips	ln	Out	Total
	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																								
G																									
R																									
0																									
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	9		ļ																						igspace
	0			<u> </u>				<u> </u>										<u> </u>							\vdash
1 1	2							-										-			1				
	3																				1				\vdash
1 -																									
	5		1		1		1				1				1						1		1		\vdash
	ITE Land Use Code		Ra	ate or Equa	ation	<u> </u>	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(0.55*(X)+1		-																			

PROPOSED WEEKDAY PM PEAK HOUR TRIP GENERATION

	ITE TRIP GENER	ATION CHAR	ACTERIS	STICS		DIRECT DISTRIE	TIONAL BUTION		GROS: VOLUM		MULTII REDU	-	EXT	TERNAL TI	RIPS		RNAL TURE	EXT	ERNAL	TRIPS	_	S-BY TURE		NET NEW TERNAL TR	
	Land Use	ITE Edition	ITE Code	Scale	ITE Units	Perd	cent Out	In	Out	Total	Percent	MR Trips	ln	Out	Total	Percent	IC Trips	ln	Out	Total	Percent	PB Trips	ln	Out	Total
	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
	4 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																								
R	6																								
0	7																								
υ	8																								
Р	9																								
	10																								
2	11																								
	12																								
	13																								
	14																								
	15																								
	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%	Ο	521	272	793

LN(Y) = 0.82*LN(X)+0.32230 220 Y=0.55*(X)+17.65 931 Y=0.26(X) LN(Y) = 0.67*LN(X)+3.31820

IN OUT TOTAL Net New Vehicle Trips -14 -10 -24

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						
	Landlles	A.M. Pea	ak Hour	P.M. Pea	ık Hour	
	Land Use	Enter	Exit	Enter	Exit	
INPUT	Office					
\bigcap	Retail	16	10	41	44	
	Restaurant	4	4	47	23	
	Cinema/Entertainment					
	Residential	122	512	481	253	
	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	
Ы	Retail	4	2	13	24	
Ţ	Restaurant	2	1	20	13	
\supset	Cinema/Entertainment	0	0	0	0	
	Residential	1	4	15	11	
	Hotel	0	0	0	0	
		7	7	48	48	
	Total % Reduction	2.1	%	10.8	3%	
	Office			10.50		
Pl	Retail	23.		43.5%		
OUTPUT	Restaurant	37.	5%	47.1%		
\supset	Cinema/Entertainment	0.0	00/	2.50		
O	Residential	0.8	3%	3.5%		
	Hotel					
		EXTER	NAL TRIPS			
	Land Has	A.M. Pea	ak Hour	P.M. Pea	ık Hour	
	Land Use	Enter	Exit	Enter	Exit	
	Office	0	0	0	0	
الط	Retail	12	8	28	20	
J	Restaurant	2	3	27	10	
OUTPU	Cinema/Entertainment	0	0	0	0	
)	Residential	121	508	466	242	
	Hotel	0	0	0	0	
		135	519	521	272	

Table 6.1 Unconstrained Internal Person Trip Capture Rates for Trip Origins within a Mixed-Use Development (A.M. Peak Hour)

Origin	Destination Land Use				
Land Use	Restaurant	Cinema/Ent.	Residential	Hotel	
Office	63%	0%	1%	0%	
Retail	13%	0%	14%	0%	
Restaurant		0%	4%	3%	
Cinema/Entertainment	0%		0%	0%	
Residential	20%	0%		0%	
Hotel	9%	0%	0%		

Table 6.2 Unconstrained Internal Person Trip Capture Rates for Trip Destinations within a Mixed-Use Development (A.M. Peak Hour)

A.M. PEAK

Origin	Destination Land Use				
Land Use	Restaurant	Cinema/Ent.	Residential	Hotel	
Office	23%	0%	0%	0%	
Retail	50%	0%	2%	0%	
Restaurant		0%	5%	4%	
Cinema/Entertainment	0%		0%	0%	
Residential	20%	0%		0%	
Hotel	6%	0%	0%		

*** BASED ON EXIT ***

A.M. PEAK

(Exit)	(Enter) Land Use				
Land Use	Restaurant	Cinema/Ent.	Residential	Hotel	
Office	0	0	0	0	
Retail	0	0	0	0	
Restaurant		0	0	0	
Cinema/Entertainment	0		0	0	
Residential	102	0		0	
Hotel	0	0	0		

*** BASED ON ENTER ***

A.M. PEAK

(Exit)	(Enter) Land Use				
Land Use	Restaurant	Cinema/Ent.	Residential	Hotel	
Office	1	0	0	0	
Retail	2	0	2	0	
Restaurant		0	6	0	
Cinema/Entertainment	0		0	0	
Residential	1	0		0	
Hotel	0	0	0		

*** MINIMUM ***

A.M. PEAK

(Exit)	(Enter) Land Use				
Land Use	Restaurant	Cinema/Ent.	Residential	Hotel	
Office	0	0	0	0	
Retail	0	0	0	0	
Restaurant		0	0	0	
Cinema/Entertainment	0		0	0	
Residential	1	0		0	
Hotel	0	0	0		

Table 6.1 Unconstrained Internal Person Trip Capture Rates for Trip Origins within a Mixed-Use Development (P.M. Peak Hour)

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Ф.

Origin	Destination Land Use				
Land Use	Restaurant	Cinema/Ent.	Residential	Hotel	
Office	4%	0%	2%	0%	
Retail	29%	4%	26%	5%	
Restaurant		8%	18%	7%	
Cinema/Entertainment	31%		8%	2%	
Residential	21%	0%		3%	
Hotel	68%	0%	2%		

Table 6.2 Unconstrained Internal Person Trip Capture Rates for Trip Destinations within a Mixed-Use Development (P.M. Peak Hour)

P.M. PEAK

Origin	Destination Land Use					
Land Use	Restaurant	Cinema/Ent.	Residential	Hotel		
Office	2%	1%	4%	0%		
Retail	29%	26%	46%	17%		
Restaurant		32%	16%	71%		
Cinema/Entertainment	3%		4%	1%		
Residential	14%	0%		12%		
Hotel	5%	0%	0%			

*** BASED ON EXIT ***

P.M. PEAK

(Exit)	(Enter) Land Use				
Land Use	Restaurant	Cinema/Ent.	Residential	Hotel	
Office	0	0	0	0	
Retail	0	0	0	0	
Restaurant		2	4	2	
Cinema/Entertainment	0		0	0	
Residential	53	0		8	
Hotel	0	0	0		

*** BASED ON ENTER ***

P.M. PEAK

(Exit)	(Enter) Land Use				
Land Use	Restaurant	Cinema/Ent.	Residential	Hotel	
Office	1	0	19	0	
Retail	14	0	221	0	
Restaurant		0	77	0	
Cinema/Entertainment	1		19	0	
Residential	7	0		0	
Hotel	2	0	0		

*** MINIMUM ***

P.M. PEAK

(Exit)	(Enter) Land Use			
Land Use	Restaurant	Cinema/Ent.	Residential	Hotel
Office	0	0	0	0
Retail	0	0	0	0
Restaurant		0	4	0
Cinema/Entertainment	0		0	0
Residential	7	0		0
Hotel	0	0	0	



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 42.03, Miami-Dade County, Florida			
	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.

1 of 2 05/31/2017

Attachment G

Valet Utilization Data

Flamingo Existing Valet Utilization Data Collection Friday, June 09, 2017							
Time	Entering Self-Park and Valet	Exiting Self-Park and Valet	Valet Drop-Off/Pick- Up				
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 H

Valet Analysis

Valet Drop-off/Pick-Up Calculated Travel Time

South Tower Parking Garage Calculated Travel Time

	VALET DROP-OFF						
VEHI	VEHICLE TRAVEL TIME			ATTENDANT TRAVEL TIME			
Travel Times (Assume	Travel Times (Assume 15 mph speed)		Travel Times (Assume	5 ft/s speed)			
	: Garage (In vehicle	•		et Garage (Walk/Run) to Valet Area			
Distance	Travel T	ime	Distance	Travel Time			
0.16 miles	5	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

	<u> </u>	rai ago caicaiatea i i arci i i i i e						
	VALET PICK-UP							
VALET ATTENI	DANT TRAVEL TIME	VALE	T ATTENDANT TRAVEL TIME					
Travel Times (Assume	5 ft/s speed)	Travel Times (Assume	15 mph speed)					
	Walk/Run) Travel Time 2.1 minutes 1.0 Minutes 3.6 Minutes	Return from Valo 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

			ig Carage calculated Traver Ti				
	VALET DROP-OFF						
VEHIC	CLE TRAVEL TIME		VALET A	ATTENDANT TRAVEL TIME			
Travel Times (Assume	Travel Times (Assume 15 mph speed)		Travel Times (Assume 5 ft/s speed)				
Distance	t Garage (In vehicle) Travel Ti	me	Distance	et Garage (Walk/Run) to Valet Area Travel Time			
0.08 miles	5	0.3 minutes	0.08 miles	1.3 minutes			
Controlled Delay	1.0 Minutes						
Total Time	2.6 Minutes						

North Parking Garage Calculated Travel Time

		g carage carearated reares since						
	VALET PICK-UP							
VALET ATTEN	NDANT TRAVEL TIME	VALE	T ATTENDANT TRAVEL TIME					
Travel Times (Assume	5 ft/s speed)	Travel Times (Assume	15 mph speed)					
To Valet Garage Distance 0.08 miles Controlled Delay Total Time	(Walk/Run) Travel Time 1.3 minutes 1.0 Minutes 2.6 Minutes	Return from Val Distance 0.08 miles	let Garage (In Vehicle) to Valet Area Travel Time 0.3 minutes					

South Tower Valet Drop-Off/Pick-Up Analysis

Arrival Rate

ZI	OUT	
16	8	veh/hr

Number of Valet Attendants (N) = 3

Level of Confidence = 0.95

3

vehicles

Service Rate IN OUT

4.00

Storage Provided On-Site = Total Entering and Exiting Vehicles(q) = veh/hr

Service Capacity per N (60 mins/Service Rate) (Q) = 15.00 veh/hr/pos

Average Service Rate (t) = 4.00 mins/veh

rho (t/Q) = 0.533

Control Delay = min

mins/veh

4.00

Service Time = 4.00 mins/veh

> 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

Arrival Rate

IN	OUT	
85	0	veh/hr

Number of Valet Attendants (N) =

Level of Confidence = 0.95

Storage Provided On-Site = vehicles

Service Rate

IN OUT 3.00 0.00 mins/veh

Total Entering and Exiting Vehicles(q) = veh/hr

Service Capacity per N (60 mins/Service Rate) (Q) = 20.00 veh/hr/pos

Average Service Rate (t) = 3.00 mins/veh

0.85

Control Delay =

min

rho (t/Q) = 0.708

Service Time = 3.00 mins/veh

> Expected (avg.) number of vehicles in the system E(m)=

Expected (avg.) number of vehicles waiting in queue E(n)=5.10 0.60

Mean time in the queue E(w)=mins Mean time in system E(t)=3.60 mins

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 vehicles 4.4

North Tower Valet Pick-Up Analysis

Arrival Rate

IN	OUT	
0	46	veh/hr

Number of Valet Attendants (N) =

Level of Confidence = 0.95

Service Rate

IN OUT 0.00 3.00 mins/veh

Total Entering and Exiting Vehicles(q) =

Service Capacity per N (60 mins/Service Rate) (Q) = 20.00 veh/hr/pos

Storage Provided On-Site =

Average Service Rate (t) = 3.00 mins/veh

0.35

Control Delay =

min

3.00 mins/veh

rho (t/Q) = 0.575

mins

vehicles

veh/hr

Service Time =

Expected (avg.) number of vehicles in the system E(m)=Expected (avg.) number of vehicles waiting in queue

E(n)=2.65 Mean time in the queue E(w)=0.45

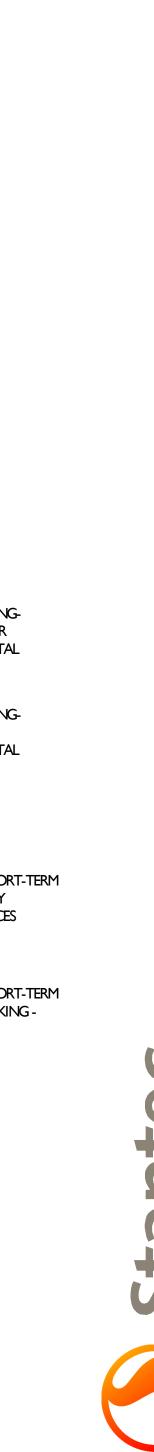
Mean time in system E(t)=3.45 mins

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







DRB SUBMITTAL

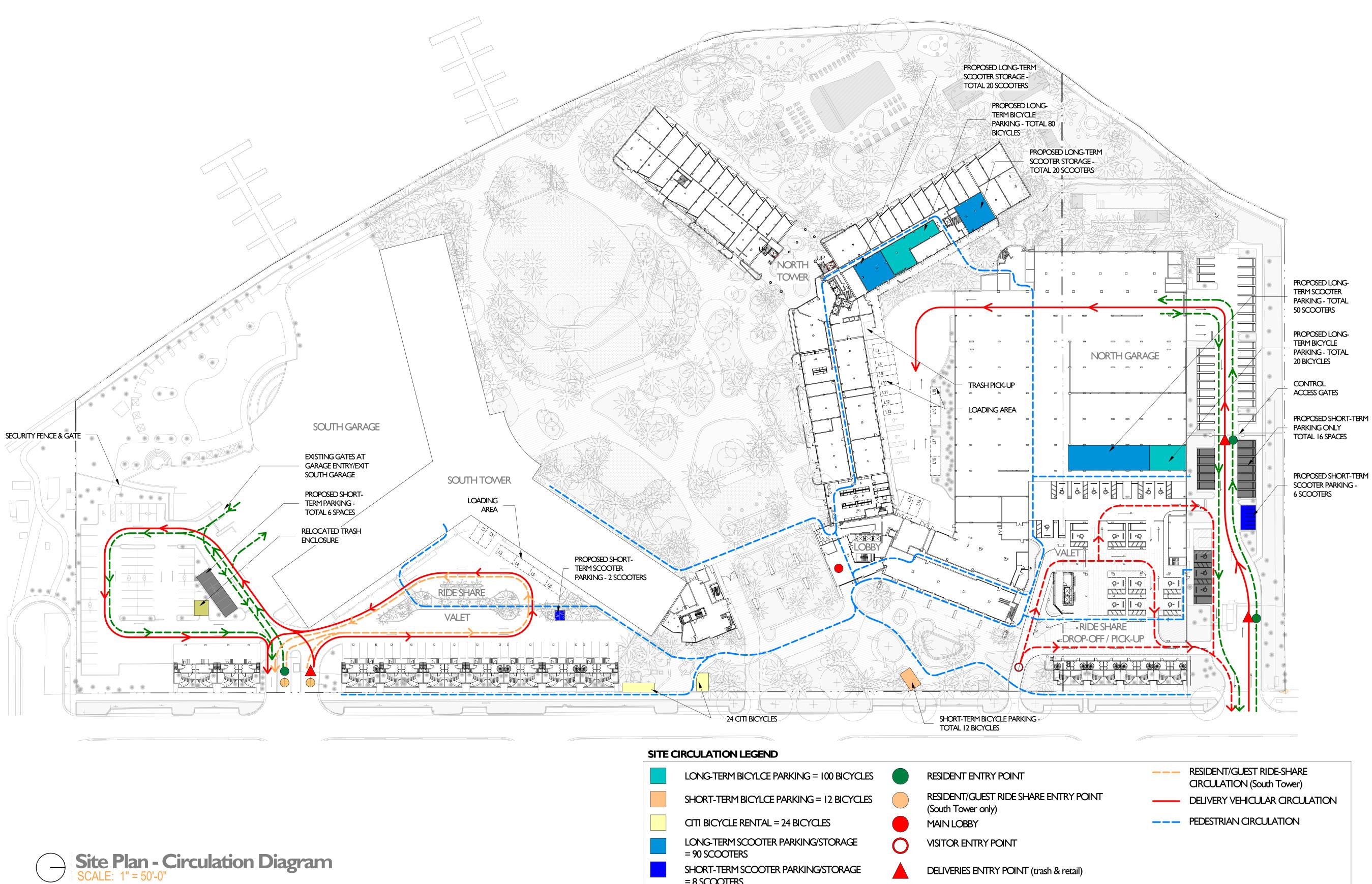
10. 05. 2017

Revision 10-06-2017

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Scale: 1" = 50'-0"

Note: When printed on 11 x 17 paper scale is halfed



SHORT-TERM SCOOTER PARKING/STORAGE

SHORT TERM DELIVERY PARKING = 22 SPACES

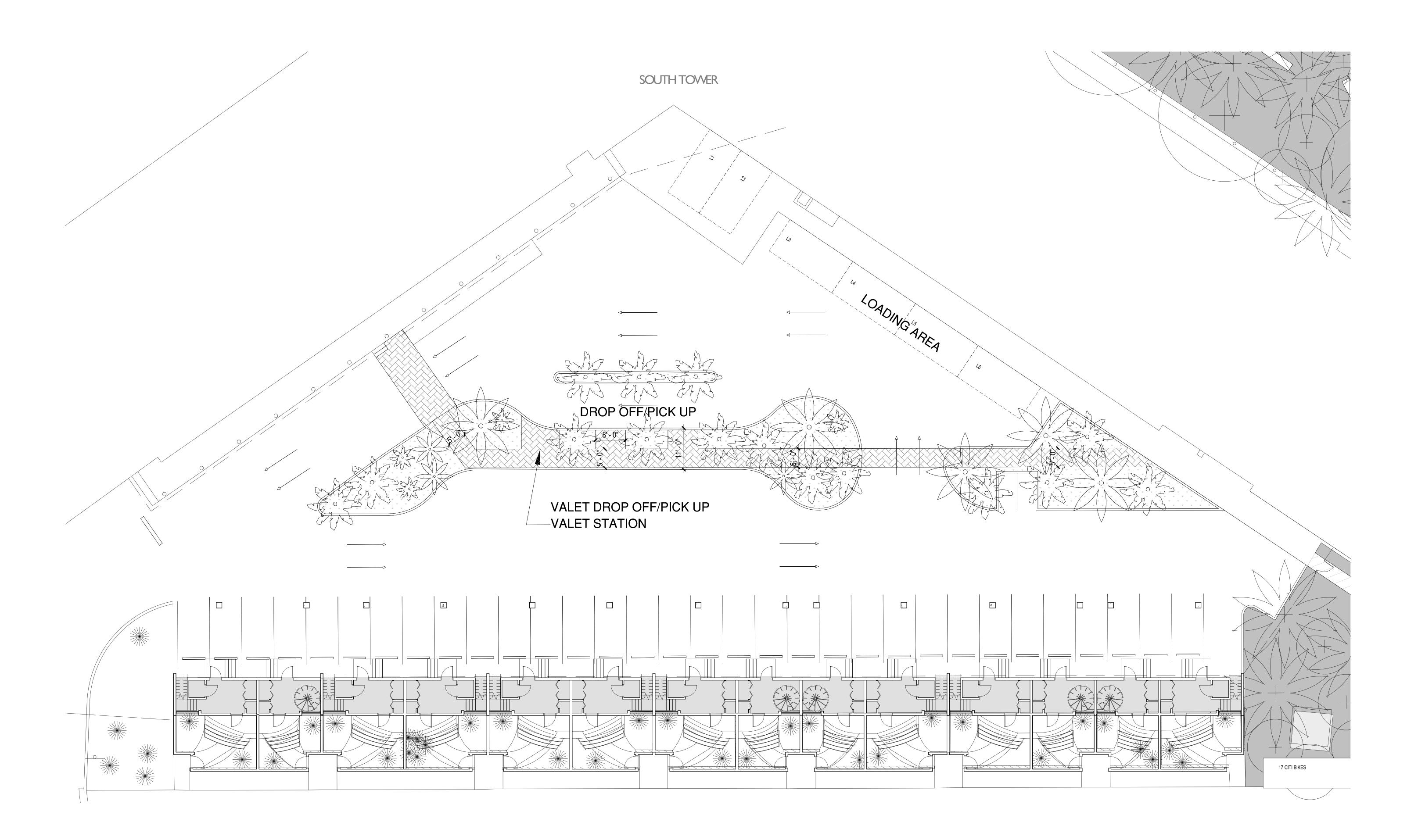
= 8 SCOOTERS

TRASH PICK-UP

DELIVERIES ENTRY POINT (trash & retail)

--- RESIDENT VEHICULAR CIRCULATION

--- VISITOR VEHICULAR CIRCULATION



PREPARED BY NATIONAL DATA & SURVEYING SERVICES

PROJECT#: 17-3274-004

N/S Street: Bay Rd E/W Street: 15th St

DATE: 6/9/2017 DAY: Friday

CITY: Miami Beach

PSCF 1.13

P M PEDESTRIANS

TIME	NORT	H LEG	SOUT	H LEG	EAST	LEG	WEST LEG	
I I IVI E	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
TOTALC	201	2/1	27.2	70 0	10 /	20 5	1/1	100

TOTALS 281 261 37.3 72.3 48.6 30.5 164 122

PEAK HOURS PEDESTRIANS

TIME	NORTH LEG		NORTH LEG SOUTH LEG		EAST LEG		WEST LEG	
EB	WB	EB	WB	NB	SB	NB	SB	
6:15 PM	67	63	8	25	16	12	47	40

PM

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
17	92368	1.14		20-24
18	93079	1.13	May	27-1
19	94513	1.11		4-8
20	96765	1.09		11-15
21	90955	1.16		18-22
22	88187	1.19	1	25-29
23	94751	1.11	June	1-5
24	93310	1.13	0 00	8-12
25	94745	1.11		15-19
26	95914	1.10	1	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		27-3
32	97362	1.08	Aug	3-7
33	94929	1.11	19	10-14
34	96230	1.09		17-2
35	92110	1.14	1	24-28
36	91826	1.15	Sept	1-4
37	90955	1.16	1	7-11
38	89712	1.17	1	14-18
39	92517	1.14	1	21-25
40	90393	1.16	Oct	28-2
41	88712	1.19		5-9
42	87533	1.20	1	12-16
43	94636	1.11	1	19-23
44	96168	1.09	1	26-30
45	96752	1.09	Nov	2-6
46	99482	1.06	1	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	1	14-18
52	92309	1.14	+ +	21-25
53	103003	1.02	+ +	28-31

Attachment J

Loading Area and Refuse Pick-Up Maneuverability

