# Kimley »Horn

#### Memorandum

To: Xavier Falconi, P.E. City of Miami Beach

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

Date: March 3, 2016

## Subject: Monad Terrace Redevelopment Miami Beach, Florida Maneuverability Analysis

Kimley-Horn and Associates, Inc. has prepared a maneuverability analysis for the Monad Terrace redevelopment. The areas included in the analysis include the on-site porte-cochere, resident parking garage and loading areas, and on-site refuse area. The analysis was performed using Transoft's *AutoTurn 9.1* software which applies vehicle turning templates consistent with American Association of State Highway and Transportation Officials' (AASHTO), *A Policy on Geometric Design of Highways and Streets*, 2004/2011. The analysis was prepared using passenger car (P) design vehicle for the porte-cochere and parking garage areas. Delivery vans comparable to P design vehicles will be used for deliveries and loading activities. A Waste Management, Inc. Mack MR refuse truck will be used for on-site waste removal. A vehicle template was developed for the refuse truck based on vehicle dimensions and specifications provided by Waste Management, Inc. and are included in Attachment A. The following summarizes the results of this analysis.

### **Porte-cochere**

Access to the porte-cochere is provided by a right-in only driveway along the north side of the property from West Avenue and a right-out only driveway along the south side of the property from onto West Avenue. A P design vehicle will be able to maneuver into and through the porte-cochere area without conflicting with by-passing traffic or refuse area traffic, refer to Figures 1 and 2 in Attachment B.

### Parking Garage and Loading Area Access

Access to the parking garage and underground loading area will be provided via an entry ramp along the south side of the property and an exit ramp along the north side of the property. A P design vehicle will be able to maneuver into and through the parking garage without conflicting with oncoming traffic, refer to Figure 3 in Attachment B. Delivery vans, comparable to P vehicles, will be used for loading activities at the site and will be able to maneuver out of the basement.

### **On-Site Refuse Area**

The on-site refuse area is located along the east side of the drive aisle fronting the property. The refuse truck will be able to pull into the refuse area for refuse pick-up. The truck will then exit the site by pulling forward out of the refuse area as shown in Figure 4 in Attachment B.

### Conclusion

In conclusion, passenger vehicle traffic will be able to ingress and egress from the site's porte-cochere and parking garage without conflicting with oncoming traffic. Additionally, delivery vans and refuse trucks will be able to maneuver into and out of the site's loading areas.

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**Attachment A** 







#### **COMMERCIAL CONTAINERS**



4-Yard Bin





- 6-Yard Slant Bin
- 8-Yard Bin

5' E



**8-Yard Slant Bin** 

**COMMERCIAL TRUCKS** 



Front-End Loading Truck

From everyday collection to environmental protection, Think Green: Think Waste Management.



**Attachment B** 



![](_page_8_Figure_0.jpeg)

![](_page_9_Figure_0.jpeg)

![](_page_10_Figure_0.jpeg)