Agenda Item

File ID: 2018-2157 Substitute 9/25/2018

Public Hearing: YES ⊠ NO □ Department: Planning and Sustainability

SUBJECT:

Commission District(s): 4 & 6

Rezone – Sam Artopoeus & R. Kyle Williams Z-18-22285

Petition No.: Z-18-22285

Proposed Use: 220 Apartment Units with Street Level Retail Uses

Location: 4213 Memorial Drive

Parcel No.: 15-230-01-005
Information Contact: Marian Eisenberg

Phone Number: 404-371-4922

PURPOSE:

To rezone property from R-75 (Residential Medium Lot) District to HR-3 (High Density Residential-3) to build ground level retail in combination with 220 apartment units within two - 7 seven-story buildings. The property is located on the east side of Memorial Drive, approximately 207 feet south of Kensington Road at 4213 Memorial Drive, Decatur, Georgia. The property has approximately 196 feet of frontage on Memorial Drive and contains 2.3 acres.

RECOMMENDATION:

COMMUNITY COUNCIL: DEFERRAL

PLANNING COMMISSION: DEFERRAL TWO CYCLES TO NOVEMBER REZONING AGENDA

STAFF RECOMMENDATION: APPROVAL WITH CONDITIONS

PLANNING STAFF ANALYSIS: The proposed rezoning request from R-75 (Medium Lot Residential) District to HR-3 (High Density Residential-3) District to develop 220 apartment units is compatible with apartment zoning MR-2 (Medium Density Residential -2) District adjacent to the site along Kensington Road and with the intent to diversify multi-family options near a MARTA station. The Oak Tree Villa apartments west of the site support multi-family residential zoning in the area. The proposed retail component is compatible with existing nonresidential uses along Memorial Drive. The applicant submitted a Traffic Impact Study dated July 2018 prepared by Kimley -Horn and Associates, Inc. to address traffic concerns. General recommendations from the traffic study included one (1) westbound shared left-turn/through/right-turn lane exiting the site onto Memorial Drive (SR 154/ SR 10) and one (1) ingress lane entering the site. Given that Memorial Drive is a state route, GDOT (Georgia Department of Transportation) will determine the number of curb cuts on Memorial Drive. A condition has been added to address GDOT approval. On August 30, 2018, the applicant and Planning Staff met with the District Commissioners to address site development concerns for the proposed apartments and retail use. Issues discussed included the expansion and revision of the streetscape zone along Memorial Drive which shall include additional landscaping; wider sidewalks; a pedestrian plaza at the entrances of the retail space and leasing office fronting on Memorial Drive; benches, bicycle racks, trash receptacles; building façade materials; a dog run and amenity path area. Following the meeting, the applicant submitted revised site plans to the Planning and Sustainability Department on September 6, 2018 and September 19, 2018 incorporating the agreed upon design elements into the site. Therefore, the Planning and Sustainability Department recommends "Approval, per the attached recommended revised conditions"

PLANNING COMMISSION VOTE: 8-0-0 Two Cycle Deferral. J. Johnson moved, V. Moore seconded for a two-cycle deferral to the November rezoning agenda.

COMMUNITY COUNCIL VOTE/RECOMMENDATION: 10-1-0/Deferral

REVISED Z-18-22285 RECOMMENDED CONDITIONS

- 1. The property shall be developed for no more than 220 apartment units at a density of 95 units per acre with the non-residential services/amenities and a minimum of 2,474 square feet of retail uses on the ground floor identified in the revised site plans dated 9/5/2018 and submitted to the Planning and Sustainability Department on 9/6/2018 and Sheet Title A-101, Sheet Number 1 dated 9/17/2018 and submitted to the Planning and Sustainability Department on 9/19/2018. Site plan is conceptual and layout and building design shall be subject to approval of the Director of Planning and Sustainability Department.
- 2. The number and location of curb cuts, vehicular ingress and egress and any operation improvements shall be subject to approval by Georgia Department of Transportation (GDOT) and the DeKalb County Transportation Division of the Department of Public Works.
- 3. All building facades visible from Memorial Drive shall consist of a minimum of 40% stone and/or brick. The remaining building facades visible from Memorial Drive may be stucco. No vinyl or exposed concrete block is allowed on the building facades.
- 4. Provide street lamps consistent with existing lamps on Memorial Drive and located within the 3-Foot Wide Landscape Hedge area as shown on the revised site plans dated 9/5/2018 and submitted to the Planning and Sustainability Department on 9/6/2018.
- 5. Provide courtyard and decorative lighting interior to the development and surrounding amenities area as depicted on the revised site plans dated 9/5/2018 and submitted to the Planning and Sustainability Department on 9/6/2018.
- 6. Provide a Streetscape Zone on Memorial Drive as shown on the revised site plans dated 9/5/2018 and submitted to the Planning and Sustainability Department on 9/6/2018, including from back of curb on Memorial Drive: (a) 2-Foot Wide Brick Stripe; (b) 3-Foot Wide Landscape Hedge area; (c) 10-Foot Wide Concrete Sidewalk; (d) 9-Foot Wide Landscape or Green Space area; and, (e) 7-Foot Wide Pedestrian Plaza area at the entrances of the Retail Space and Leasing Office at the building façade fronting on Memorial Drive.
- 7. Provide Benches, Bicycle Racks, Trash Receptacles, and Decorative Lighting within the Streetscape Zone as shown on the revised site plans dated 9/5/2018 and submitted to the Planning and Sustainability Department on 9/6/2018.
- 8. Provide a Dog Run and Amenity Path area with intermittent Trash Receptacles in the side yard buffer area and adjacent property on the neighboring property at 4203 Memorial Drive between the building façade and Secondary Access Road as shown on the revised site plans dated 9/5/2018 and submitted to the Planning and Sustainability Department on 9/6/2018.
- 9. Provide wall signs on Memorial Drive frontage for residential and retail uses consistent with the revised site plans dated 9/5/2018 and submitted to the Planning and Sustainability

Department on 9/6/2018; Sheet Title A-101, Sheet Number 1 dated 9/17/2018 and submitted to the Planning and Sustainability Department on 9/19/2018; and as allowable per Chapter 21 of the DeKalb County Code.

10. The property shall be developed consistent with the Landscape Plan (Sheet Title L-01, Sheet Number 6) of the revised site plans dated 9/5/2018 and submitted to the Planning and Sustainability Department on 9/6/2018.



DeKalb County Department of Planning & Sustainability

330 Ponce De Leon Avenue, Suite 300 Decatur, GA 30030

(404) 371-2155 / plandev@dekalbcountyga.gov

Planning Commission Hearing Date: July 10, 2018, 6:30 P.M. Board of Commissioners Hearing Date: September 25, 2018, 10:00 A.M.

STAFF ANALYSIS

Case No.: 2018-2157/ Z-18-22285 Agenda #: N.6

Location/Address: The east side of Memorial Drive, Commission District: 4 Super District: 6

approximately 207 feet south of

Kensington Road at 4213 Memorial Drive, Decatur,

Georgia.

Parcel ID: 15-230-01-005

Request: To rezone property from R-75 (Residential Medium Lot) District to HR-3

(High Density Residential-3) to build ground level retail in combination with

220 apartment units within two - 7 seven-story buildings.

Property Owners: John & Shirley Spinelli

Applicant/Agent: Sam Artopoeus & R. Kyle Williams

Acreage: 2.3 Acres

Existing Land Use: Undeveloped

Surrounding Properties: Oak Tree Villas Apartments; Kenridge Apartment Homes; Office uses

Kensington MARTA Station; Kensington Office Plaza;

Adjacent & Surrounding North & South: O-I (Office-Institutional) District

Zoning: East: MR-2 (Medium Density-Residential-2) District

Northeast & West: R-75 (Residential Medium Lot) District`

Comprehensive Plan: Regional Center Consistent X

Proposed Units: 220
Retail: 2,474 Square Feet

Proposed Lot Coverage: 81.60%

Existing: N/A

Existing Lot Coverage: N/A

Prepared 9/19/2018 by: KFHILL

BOC: 09/25/2018

SUBJECT PROPERTY & ZONING HISTORY:

The 2.3-acre undeveloped site is located on the east side of Memorial Drive (a four-lane major arterial with a turn lane) and just south of Kensington Road (a minor arterial) at 4213 Memorial Drive, Decatur, Georgia. With approximately 196-feet of frontage along Memorial Drive, the site is long and rectangular. The site is heavily wooded with dense mature trees and shrubbery. The property frontage is currently developed with existing concrete curb, brick stripe and concrete sidewalk. Adjacent to the site along Memorial Drive is a chiropractor's office and the entrance to Oak Tree Villas Apartments. Further south along Memorial Drive is Father's Children Daycare and Kensington Office Park. Northwest of the subject site is the Kensington MARTA Station. Across the street from the site is a MARTA parking lot and the State Juvenile Center Department offices. DeKalb County records indicate that the property was zoned R-75 (Residential Medium Lot) with the establishment of the 1956 Zoning Ordinance.

PROJECT ANALYSIS:

Per the submitted application and revised site plan, the applicant is requesting to rezone the property from R-75 (Residential Medium Lot) District to the HR-3 (High Density Residential-3) District to develop 220 apartment units at a density of 95 units per acre in combination with 2,474 square feet of retail space. The apartments will be developed within two (2)-seven (7) story buildings with a retail component on the ground floor. The proposed development would consist of an apartment unit mix of fifty-nine (59) one-bedroom apartments, one-hundred eight (108) two-bedroom apartments and fifth-three (53) three-bedroom apartments. The elevation of the subject property allows a parking garage underneath the apartment units. Bicycle racks are provided to accommodate 20 bicycles. Residents and potential customers will also be able to access the retail component from the sidewalk on Memorial Drive. The site plan depicts one (1) point of street access from Memorial Drive for residents, guests and/or retail customers. A second access on Memorial Drive will be limited to waste removal and delivery services. Amenity areas for the apartment residents include a pool, playground, picnic area. The applicant submitted a Traffic Impact Study dated July 2018 prepared by Kimley -Horn and Associates, Inc. to address traffic concerns. General recommendations from the traffic study included one (1) westbound shared left-turn/through/right-turn lane exiting the site onto Memorial Drive (SR 154/ SR 10) and one (1) ingress lane entering the site. Per the revised site plan submitted to the Planning and Sustainability Department on August 16, 2018, another access has been added on Memorial Drive for use by residents and retail shoppers. Given that Memorial Drive is a state route, access to the site will be determined by GDOT (Georgia Department of Transportation).

ZONING ANALYSIS:

The R-75 (Residential Medium Lot) District allows single-family detached residences on minimum 10,000 square foot lots. The HR-3 (High Density Residential-3) District allows high density, high-rise residential with accessory retail, office and commercial uses.

Adjacent and nearby MR-2 (Medium Density Residential-2) zoned and developed properties along Kensington and Memorial Drive support the proposed HR-3 (High-Density Residential) zoning district on the site. The current zoning at that location is not consistent and compatible with adjacent zoning districts. The subject site is a stand-alone R-75 (Residential) zoned lot between and adjacent two (Office-Institutional) zoned properties on Memorial Drive. It is unlikely that the site would be developed as single-family residences given the existing office and commercial zoned properties and uses along Memorial Drive. The

Prepared 9/19/2018 by: KFHILL BOC: 09/25/2018

proximity to the Kensington MARTA station also make this a suitable site for apartment and retail uses adjacent to a designated Transit Oriented Development (TOD) node. Therefore, the zoning analysis concludes that the proposed HR-3 District would be appropriate for the subject site.

IMPACT ANALYSIS:

Section 27-7.3.4 of the DeKalb County Code states that the following standards and factors shall govern the review of all proposed amendments to the Official Zoning Map.

A. Whether the zoning proposal is in conformity with the policy and intent of the comprehensive plan:

The 2035 Comprehensive Plan designates the subject site within a Regional Center. Also, the site adjacent to the adopted Kensington LCI 2012 (Livable Centers Initiative) study area. The LCI is a Small Area Plan that develops comprehensive recommendations for future land use patterns, transportation and circulation options, zoning improvements and implementation strategies for a defined area (See Attachment 1). While the subject parcel is not located within the 2012 LCI area, the vision of the plan still speaks to the project, as part of the extended TOD (Transit Oriented Development) area and as a project that would add market rate, high density housing to an area with a concentration of naturally occurring affordable housing. Specifically, the project supports major goals stated in the LCI, including to generate mixed income, high density development near the station. Additional retail for this development would make it more mixed use and activate street and therefore more consistent with the intent of the Kensington LCI. The original LCI identifies the parcel as greenspace. However, the site was never included in a project list; as such, this is not an appropriate option for private development.

B. Whether the zoning proposal will permit a use that is suitable in view of the use and development of adjacent and nearby properties:

The proposed rezoning to the HR-3 (High Density Residential-3) District for apartments given the adjacent Oak Tree Villas apartment homes and nearby Kenridge apartments east of the site. The proposed non-residential use for commercial and retail development is compatible with office and commercial uses south of the site along Memorial Drive (Chiropractor Office, Father's Children Daycare & Kensington Office Park).

C. Whether the property to be affected by the zoning proposal has a reasonable economic use as currently zoned:

Given that the site is located within a Regional Center Character Area for high density development, the property may not have a reasonable economic use as currently zoned R-75 (Residential Medium Lot) District for single-family detached residences. The proposed rezoning to the HR-3 District allows more options for greater economic value.

BOC: 09/25/2018

D. Whether the zoning proposal will adversely affect the existing use or usability of adjacent or nearby property:

The rezoning request to the HR-3 (High Density Residential-3) District should not adversely affect the use or usability of adjacent and nearby office, commercial and apartment properties along Memorial Drive and Kensington Road.

E. Whether there are other existing or changing conditions affecting the use and development of the property, which give supporting grounds for either approval or disapproval of the zoning proposal:

The Kensington Livable Centers Initiative (LCI) Study Area includes the following goals: encourage diversity of mixed income neighborhoods, employment and recreational choices; and provide access to a wide range of travel modes, including transit, walking and biking. The day care facility for the residents on site provides important services and will reduce vehicular trips. The proposed use for apartments above retail along the Memorial Drive Corridor near the Kensington MARTA Station allows accomplishment of these goals consistent with the Regional Center Character Area.

F. Whether the zoning proposal will adversely affect historic buildings, sites, districts, or archaeological resources:

There are no known historic buildings, sites, districts or archeological resources that would be adversely affected by the rezoning request to the HR-3 District.

G. Whether the zoning proposal will result in a use which will or could cause an excessive or burdensome use of existing streets, transportation facilities, utilities, or schools:

Although Memorial Drive is a four-lane major arterial with a middle turn-lane, the request for 220 apartment units with a retail component would have an impact on vehicle and pedestrian traffic in the area. Access points and road improvements are critical to development. A traffic study was done to determine required road improvements to mitigate impacts. General recommendations from the traffic study included one (1) westbound shared left-turn/through/right-turn lane exiting the site onto Memorial Drive (SR 154/ SR 10) and one (1) ingress lane entering the site. Per the revised site plan submitted to the Planning and Sustainability Department on August 16, 2018, another access has been added on Memorial Drive for use by residents and retail shoppers. Given that Memorial Drive is a state route, access to the site will be determined by GDOT (Georgia Department of Transportation).

The proposed development may generate new school students. When fully constructed, this development would be expected to house 23 students: 5 at Peachcrest ES, 3 at Bethune MS, 7 at Towers HS, and 8 at other DCSD schools. All three neighborhood schools have capacity for additional students.

H. Whether the zoning proposal adversely impacts the environment or surrounding natural resources.

The request for HR-3 zoning on the site should not adversely impact the environment or surrounding natural resources. However, the Land Disturbance Permit (LDP) process would require approval to establish tree preservation standards, storm water management and emergency vehicle access.

Prepared 9/19/2018 by: KFHILL BOC: 09/25/2018

<u>COMPLIANCE WITH HR-3 (HIGH DENSITY RESIDENTIAL-3) DISTRICT STANDARDS PER TABLE 2.4</u>: Medium and High Density-Residential Zoning Districts

STANDARD	REQUIREMENT	PROPOSED	COMPLIANCE
DWELLING UNITS PER ACRE	60-120 Units Per Acre	95 Units Per Acre	Yes
STREET FRONTAGE	100 Feet	196 Feet	Yes
LOT COVERAGE	Max. 85%	81.60%	Yes
FRONT SETBACKS	Min. 10 Feet Max. 20 Feet	16 Feet	Yes
REAR SETBACKS	Min. 15 Feet	30 Feet	Yes
TRANSITIONAL BUFFER Table 5.2(a)	30 Feet adjacent to MR-2 zoned District	30-Foot undisturbed buffer	Yes
HEIGHT-Table 2.15 HR-3 60 to 20 Units Per Acre With Accessory Non-Res Uses	Max: 10 Stories	7-Stories	Yes
LOT COVERAGE	Max. 85%	81.60 %	Yes
OPEN SPACE	Min. 15%	18.4% + 8,308 SF Open Area Plaza Level	Yes
PARKING – ARTICLE 6 Min. (1.5) space per dwelling unit, plus (3) spaces for each 1,000 square feet of floor area for retail use.	1.5 x 220 UNITS = 330 spaces. 2,474 square feet of retail = 7.4 spaces Total: 338 spaces	346 Parking Spaces	Yes

STAFF RECOMMENDATION: APPROVAL WITH CONDITIONS

The proposed rezoning request from R-75 (Medium Lot Residential) District to HR-3 (High Density Residential-3) District to develop 220 apartment units is compatible with apartment zoning MR-2 (Medium Density Residential -2) District adjacent to the site along Kensington Road and with the intent to diversify multi-family options near a MARTA station. The Oak Tree Villa apartments west of the site support multi-family residential zoning in the area. The proposed retail component is compatible with existing non-residential uses along Memorial Drive. The applicant submitted a Traffic Impact Study dated July 2018 prepared by Kimley -Horn and Associates, Inc. to address traffic concerns. General recommendations from the traffic study included one (1) westbound shared left-turn/through/right-turn lane exiting the site onto Memorial Drive (SR 154/ SR 10) and one (1) ingress lane entering the site. Given that Memorial Drive is a state route, GDOT (Georgia Department of Transportation) will determine the number of curb cuts on Memorial Drive. A condition has been added to

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- 1. The property shall be developed for no more than 220 apartment units at a density of 95 units per acre with the non-residential services/amenities and a minimum of 2,474 square feet of retail uses on the ground floor identified in the revised site plans dated 9/5/2018 and submitted to the Planning and Sustainability Department on 9/6/2018 and Sheet Title A-101, Sheet Number 1 dated 9/17/2018 and submitted to the Planning and Sustainability Department on 9/19/2018. Site plan is conceptual and layout and building design shall be subject to approval of the Director of Planning and Sustainability Department.
- 2. The number and location of curb cuts, vehicular ingress and egress and any operation improvements shall be subject to approval by Georgia Department of Transportation (GDOT) and the DeKalb County Transportation Division of the Department of Public Works.
- 3. All building facades visible from Memorial Drive shall consist of a minimum of 40% stone and/or brick. The remaining building facades visible from Memorial Drive may be stucco. No vinyl or exposed concrete block is allowed on the building facades.
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- 9. Provide wall signs on Memorial Drive frontage for residential and retail uses consistent with the revised site plans dated 9/5/2018 and submitted to the Planning and Sustainability Department on 9/6/2018; Sheet Title A-101, Sheet Number 1 dated 9/17/2018 and submitted to the Planning and Sustainability Department on 9/19/2018; and as allowable per Chapter 21 of the DeKalb County Code.
- 10. The property shall be developed consistent with the Landscape Plan (Sheet Title L-01, Sheet Number 6) of the revised site plans dated 9/5/2018 and submitted to the Planning and Sustainability Department on 9/6/2018.

Attachments:

- 1. Survey & Revised Site Plans
- 2. Zoning & Land Use Maps
- 3. Aerial & Site Photos
- 4. Kensington LCI Study
- 5. Department and Division Comments
- 6. Application
- 7. Traffic Study

BOC: 09/25/2018

Site Survey



Z-18-22285

Revised Dated 9-17-18 Memorial Drive View & East Elevation



Memorial Drive View



ZONING LEGEND:		OWNER / E	DEVELOPER:	Kensington Stati 160 Clairmont Av Decatur, GA 300	/e. #239	
PROPOSED ZONING:	HR3		ARCHITECT:	Alejandro Remos	s. RA	
SITE AREA:	2.3+/- acres, 99,	065 SF	18501 Pines Blv Pembroke Pines			
DENSITY ALLOWED: DENSITY PROPOSED:	120 units/acre = 95 units/acre = 2					
OPEN SPACE REQUIRED: OPEN SPACE PROVIDED:	15.00 % 18.4 % + 8,308 \$	SF Open Area Plaza Leve	el			
LOT COVERAGE ALLOWED:	85.00 %					
LOT COVERAGE PROVIDED:	81.60 %					
LOT WIDTH REQUIRED:	100 FT.					
LOT WIDTH PROVIDED:	200.33 FT.					
BUILDING HEIGHT ALLOWED:	No Limit					
BUILDING HEIGHT PROPOSED:	77 FT 7 Storie	s (Height to last floor lev	el = 67 FT)			
PARKING REQUIRED:	330 Spaces					
PARKING PROVIDED: BICYCLE RACKS	346 Spaces (Re Required: 1/20 C Provided: 20 Bio	Car Spaces = 348/20 = 17	.4			
BUILDING AREA:	262,136 SF					
BALCONY AREA:	11,410 SF					
PARKING GARAGE AREA:	161,670 SF					
FIRST FLOOR RETAIL AREA:	2,474 SF		UNIT MIX	C		
		UNIT A TOTAL 59	ONE BEDROOF	M APARTMENT	612 SF	
		UNIT B TOTAL 108	TWO BEDROO	M APARTMENT	942 SF	
		UNIT C TOTAL 53	THREE BEDRO	OM APARTMENT	1,259 8	

REMOS

The Kesington

Ja23 Memorial Dr.
Decitur, CA 300/32

CONSULTANTS:
ALBERTO CHINCHILLA
architect

JANNETH ARDILA
architect

JANNETH ARDILA
architect

STRUCTURAL ENG:

M.E.P. ENG.:

CIVIL ENG.

SEAL:

REVISIONS:

Project No: AT.010

Approved by: A.R.

Roof Plan Image East Elevation

Zoning Legend

A-101

J.A.C

9/17/2018

Model File: Drawn by:

Scale:

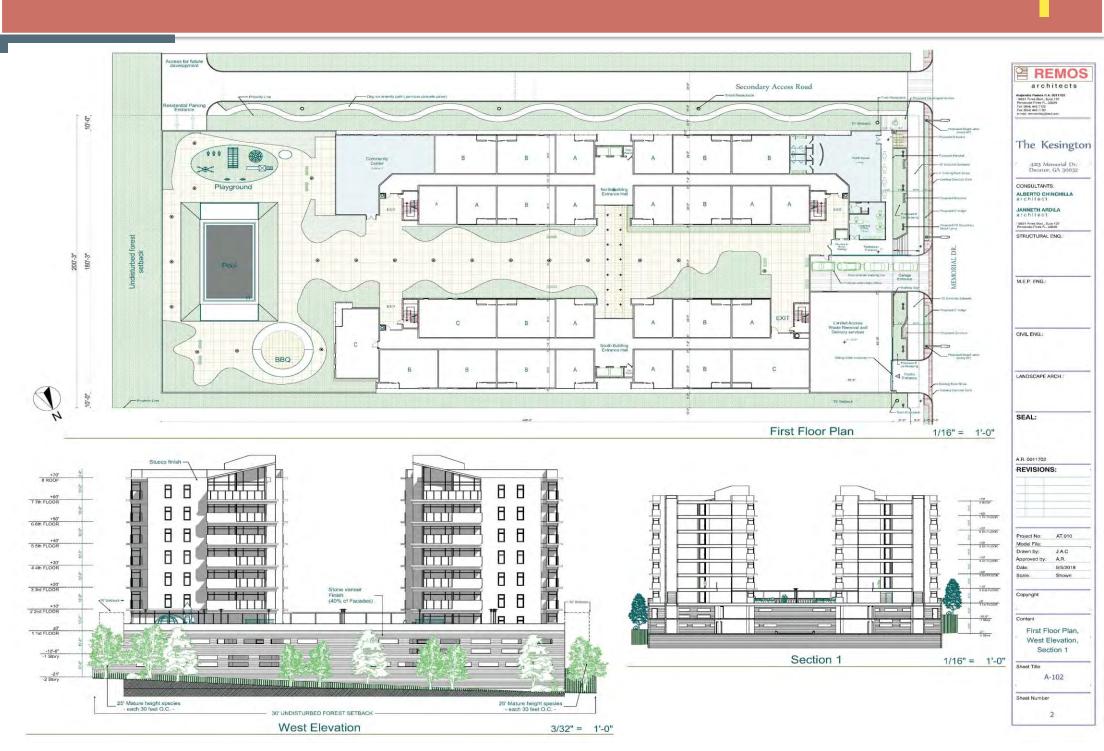
Copyright

Sheet Title

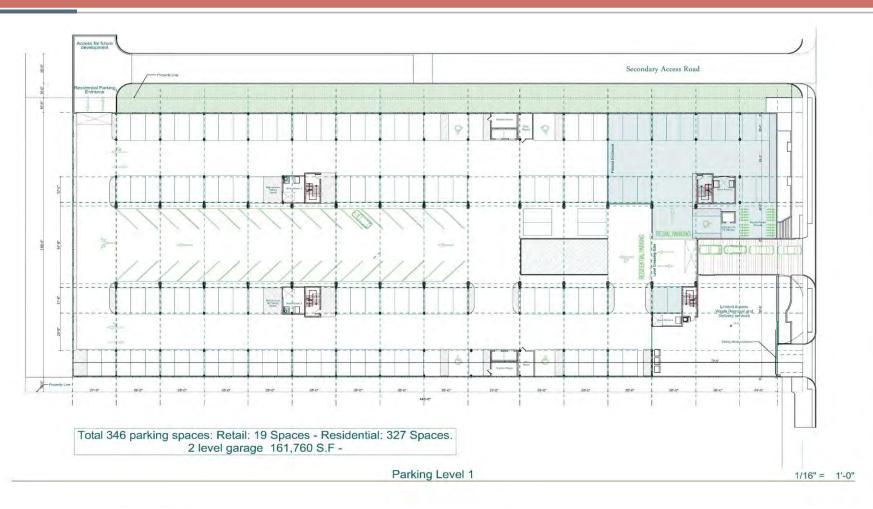
Sheet Number

LANDSCAPE ARCH.

Z-18-22285 Revised Dated 9-5-18 First Floor Plan & West Elevation



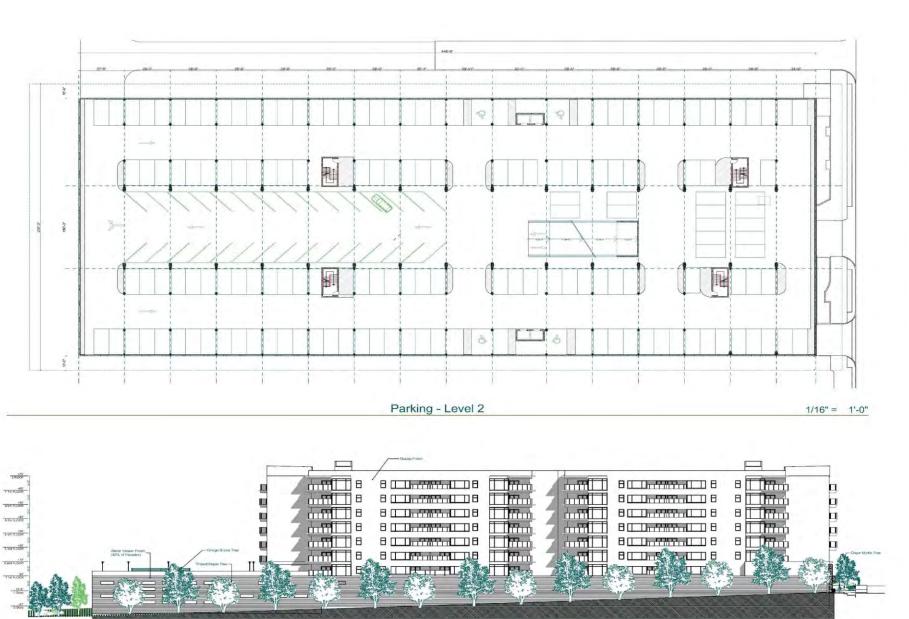
Revised 9-5-18 Parking & North Elevation







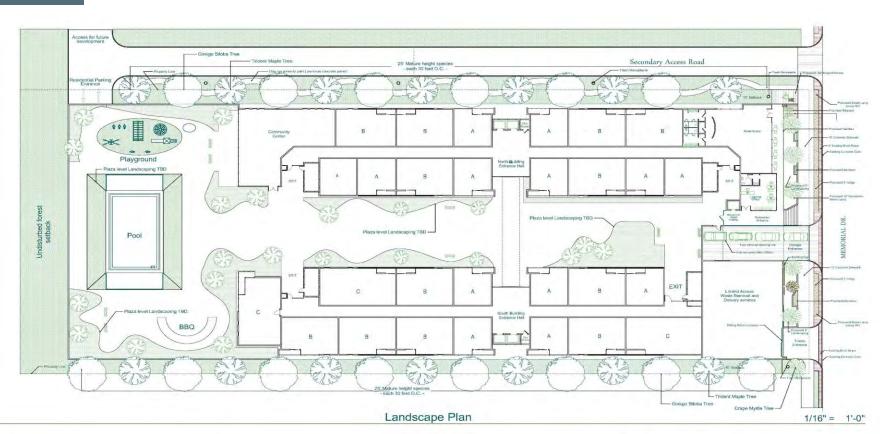
Revised 9-5-18 Parking & South Elevation



South Elevation



1/16" = 1'-0"







East Elevation Landscape

LANDSCAPE NOTES.

Landscape strip

- The streetscape zone shall be planted with a variety of deciduous, over story and understory trees. Species of shrubs, flowering plants, grass and other ground covers, which are well adapted to the local climate.

Street Trees.

 Street trees shall be overstory trees unless site constraints prohibit the use of large maturing trees, subjet to the approval of the director of planing.

uno un octor

3/32" = 1'-0"

- Plant types.

 1. Crape Myrtle
- 2. Ginkgo Biloba
- 3. Trident Maple
- Plant species in an enhanced transitional buffer shall be evergreen, native, naturalized or other species well-adapted to the local climate and railfall patterns, disease and pest-free, healthy and vigorous, and meet standard of American Nursery Stock, ANSI Z60.1.

P REMOS architects The Kesington 4213 Memorial Dr. Decatur, GA 30032 ALBERTO CHINCHILLA JANNETH ARDILA 18501 Pines Blvd., Suite 107 Pembroke Pines Ft., 33329 STRUCTURAL ENG. SEAL: A D 0011702 REVISIONS: Project No: Drawn by: J.A.C Approved by: A.R. 9/5/2018 Scale: Copyright Landscape Plan, East Elevation Landscape Sheet Title

L-01

Sheet Number

Revised 9-5-18 Floor Plan & Unit Plan







Case # Z 18 22285	Existing FLU: Regional Center	Staff Recommendation:
Project Name:	Proposed FLU: Regional Center	Analysis in Progress

Kensington LCI Overview

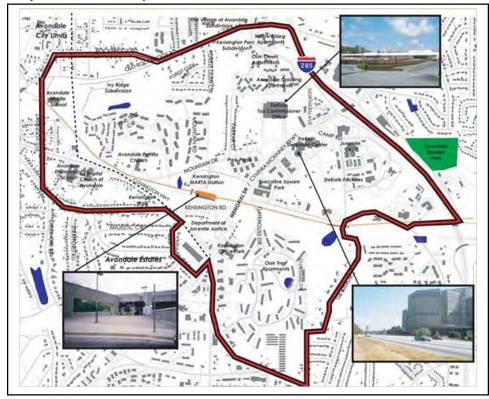
DeKalb County, in conjunction with the Atlanta Regional Commission (ARC), is working to spur development, encourage economic growth and enhance urban design and mobility in and around the Kensington MARTA Station. In an effort to revitalize the Memorial Drive corridor, DeKalb County was awarded one of ten Atlanta Regional Commission (ARC) Livable Centers Initiative (LCI) planning grants that focuses on developing comprehensive recommendations for future land use patterns, transportation and circulation options, zoning improvements and implementation strategies for a defined area. The pursuit of the LCI grant came as a result of the Memorial Drive Economic Development Strategic Action Plan that concluded in spring 2002. This previous planning effort focused on revitalizing potentially sustainable mixed-use activity centers. Through urban design and market analysis, the area surrounding the Kensington MARTA Station was selected as the mixed use activity center with the greatest opportunity for redevelopment due to its location, market opportunities, and property ownership development interests.

Study Area Context

The Kensington Station LCI study area is comprised of the Kensington MARTA Station, a large DeKalb County governmental core, the I-285/Memorial Drive interchange, numerous multi-family apartments, office parks and surrounding single-family neighborhoods. For the purpose of this study, the boundary line is defined as follows: I-285 on the east, MARTA rail easement to Kensington Road to Porter Road on the south-east, Covington Highway to Kensington Road on the south-west, Clarendon Avenue on the east, and Old Rockbridge Road on the north (the study area is illustrated on the Study Area Context map below).

Memorial Drive and Covington Highway bisect the study area. Memorial Drive extends east-west from Stone Mountain through the study area and continues all the way to East Point. Covington Highway extends north-south and changes to Avondale Road as it enters Avondale Estates. The study area straddles the City of Avondale line but is completely contained within DeKalb County. Within this study area boundary are a series of DeKalb County facilities including the Detention Center, Juvenile Court, Sanitation, Public Safety and the Tax Commissioner's Office. There are no public parks within the study area although Avondale Dunaire Park is in close proximity to the east.

Study Area Context Map



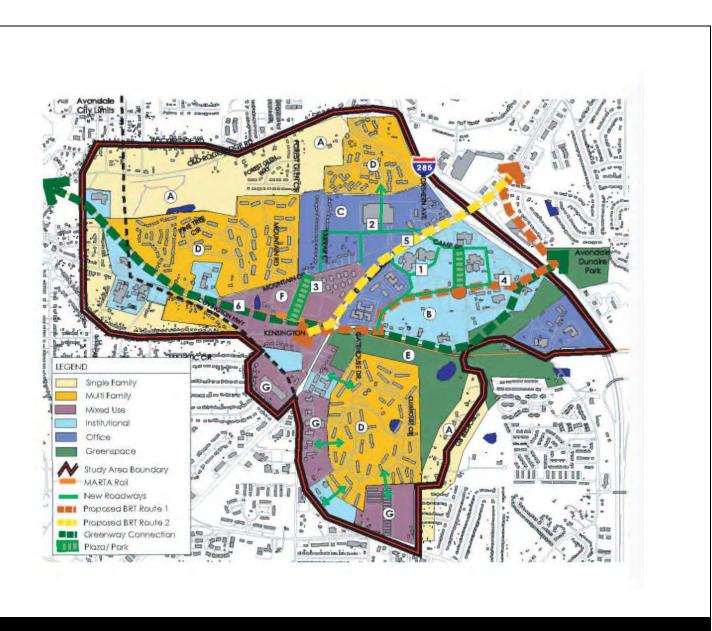




Kensington LCI Concept Plan

The LCI Study Area Concept Plan is a compilation of future land use patterns and transportation and circulation improvements designed to create a more pedestrian-friendly and transit-oriented environment in and around the study area. The plan incorporates seven (7) land use initiatives and six (6) transportation and circulation improvements and enhancements. In general, they encourage increased density in the heart of the study area surrounding the Kensington MARTA Station, and reduced densities of development moving to towards the periphery and the surrounding single family residential areas.

The <u>Enter Project Name</u> Project is located in the **(E) Greenspace** node of the Kensington Station LCI Study area. See the map below for detail.



Kensington Station LCI Concept Plan and Project Location Map

Futur	e Land Use Plan Strategies	Compliant with Kensington LCI Plan Land Use Policy			Additional Justification
		Yes	No	N/A	
A. Sin	gle Family Preservation				
1.		□Yes	□No	⊠N/A	
	The immediate station area will be developed to a higher density than that of the surrounding community. By decreasing the density and size of the development as it moves away from the station towards the existing neighborhoods, the residential areas will not be overwhelmed by the new construction.	⊠Yes	□No	□n/a	
B. De	Kalb County Government Center Node				
1.	"Government Center" on the existing county land around the Detention Center. This would occur through the consolidation and relocation of departments scattered throughout the County, and the construction of new administrative facilities and new juvenile court facility.	□Yes	□No	⊠n/A	
2.	In addition, a new open space quadrangle would be included, serving as a focal point for the development area.	⊠Yes	□No	□N/A	
3.	The Government Center would also be served by a BRT stop located at some point within the campus.	□Yes	□No	⊠N/A	
C. Re	gional Employment Center				
1.	Support the development of an "Employment Center" on the Roberds site and adjacent single family neighborhood on Farrar Court. The Roberds building is currently being leased by the County for use as a Tax Commissioner's service center. With the development of the Kensington Station site and the creation of a "Government Center", this area would be primed for growth.	□Yes	⊠No	□n/a	
2.	The "Employment Center" could include a high- density office development and associated conference center.	□Yes	⊠No	□N/A	
3.	Density should be concentrated towards Mountain Drive and Memorial Drive, thinning as development moves north.	⊠Yes	□No	□N/A	
4.	New multi-family development at the north of the site would assist in the transition from high-density office to the adjacent Avondale Crossing Apartments.	□Yes	□No	□N/A	
5.	In addition, the pedestrian connection between the MARTA station and the Employment Center would be strengthened with the construction of new access roads and a transit plaza on the MARTA site, oriented towards Mountain Drive, and with pedestrian improvements to Mountain Drive itself.	□Yes	⊠No	□n/a	The site is within ¼ miles from the station

D. Multi-Family Redevelopment				
Anticipate long-term redevelopment of the aging multi-family housing stock. The housing that exists, both north and south of the station area, is older and not in good condition. As conditions in and around the study area improve, these developments will be upgraded.	□Yes	□No	⊠n/A	
E. Open Space Enhancements				
Preserve and expand greenspace. Use the station area to connect to the County greenway system, from the PATH connection at Avondale Middle School to Avondale Dunaire Park across I-285.	□Yes	□No	⊠N/A	The 2003 Kensington LCI Plan calls for open space but the 2010 supplemental plan does not.
2. This would be accomplished by improving pedestrian conditions and adding bike lanes along Covington Highway and Kensington Road, and by developing the land alongside the MARTA tracks into a greenway. This greenway park would extend from Kensington Road, south of Memorial Drive, into the Government Center and across the highway to the park, via a new overpass shared with BRT.	□Yes	□No	⊠n/a	
F. Kensington MARTA Station Mixed-Use				
Redevelopment				
 Redevelop the Kensington Station area as a mixed- use community, with high- density housing, office, retail and open space. This is a multi-phase and long- term development, beginning on the parcel adjacent to the MARTA access drive and Memorial Drive and extending into the existing MARTA surface parking. 	□Yes	⊠No	□n/a	The project does not meet the requirement.
This development would consist of street level retail, topped with multi-family housing.	⊠Yes	□No	□N/A	
 Development would continue on both sides of the station, including a retail "Main Street", additional multi-family housing, and single family attached housing. 	□Yes	□No	⊠N/A	
G. Mixed-Use Redevelopment				
 Develop mixed-use along Memorial Drive and Covington Highway, replacing aging and scattered neighborhood-serving retail. 	⊠Yes	□No	□N/A	
The existing services would be consolidated, perhaps served in the future by a shared parking deck.	□Yes	□No	⊠N/A	
 New development should incorporate residential uses to enhance the area as a 24- hour community. 	□Yes	⊠No	□N/A	

	Compliant with		t with			
To accordation and Give Indian Grant advantage	Kei	nsingto	on LCI	Additional lustification		
Transportation and Circulation Strategies	Transportation Strategies			Additional Justification		
	YES	NO	N/A			
1. Government Center Improvements				The drive is located on Memorial		
Strategy: As the Government Center develops, create in				Drive which is GDOT ROW.		
internal street grid to serve the new facilities. In addition, a						
BRT station would be located in the midst of the Center,						
providing quick access to the Kensington MARTA station for						
DeKalb workers and patrons. The construction of a						
centralized pedestrian plaza to improve the aesthetics of the						
area as well as provide a pedestrian amenity and gathering						
area for employees and visitors to the "Government Center".						
Transportation & Streetscaping Improvements include:						
Camp Drive: "AVENUE"						
The Avenue is more appropriate for the entry, formal and ceremonial roadways (check all that apply):						
☐ A 104-foot minimum right-of-way requirement;						
✓ Vehicular lanes 12 feet in width;						
✓ Verificular failes 12 feet in width, ✓ Median and median trees;						
☐ Left-turn lanes without the loss of on-street						
parking; ☐ A narrow sidewalk and wide planting strip for						
setback development;						
☐ Bike lane that extends the bicycle network						
beyond the Greenway Connection.						
beyond the dieenway connection.						
Access/ Spine Roads: "ROAD"						
This cross-section is appropriate for streets that front						
buildings with larger setbacks. (check all that apply):						
□Vehicular lanes 12 feet in width;						
☐ No on-street parking;						
☐ A narrow sidewalk and wide planting strip for						
setback development.						
2. Employment Center Improvements		\boxtimes				
Strategy: In order to encourage development of the						
Employment Center, create a new internal street grid. This						
will improve access from Mountain Drive, Memorial Drive						
and Northern Avenue, as well as provide opportunities for pedestrian connections to adjacent residential						
pedestrian connections to adjacent residential neighborhoods. Ultimately this new street grid will facilitate						
pedestrian connections to MARTA thereby enhancing its						
visibility as an employment and conference center.						
Transportation & Streetscaping Improvements include:						
Entry Road: "AVENUE"						
☐ Vehicular lanes 12 feet in width;						
☐ Median and median trees;						
☐ Left-turn lanes without the loss of on-street						
parking;						
\square A narrow sidewalk and wide planting strip for						
setback development;						
\square Bike lane that extends the bicycle network						
beyond the Greenway Connection.						

Access/ Spine Roads: "ROAD" □ Vehicular lanes 12 feet in width;			
□ No on-street parking;			
☐ A narrow sidewalk and wide planting strip for			
setback development.			
3.Kensington Station Improvements		\boxtimes	
Strategy: Develop a transit plaza linking the station to Mountain Drive, and creating a centralized pedestrian-friendly place. This plaza would be ringed with a one-way access road and parallel parking. The existing MARTA access road linking Memorial Drive to Mountain Drive would be improved. The plaza will provide a unique opportunity for improving aesthetics of the area by enabling public art, public gathering and a forum for community events. Transportation & Streetscaping Improvements include:			
Kensington Road: "MAIN STREET" This cross section allows for any street section with higher density retail, office, or residential uses. 72 feet minimum right-of-way On-street parking 9 feet in width; Vehicular lanes 12 feet in width; Sidewalks 5 ft in width			
4. Bus Rapid Transit Long-Term Alternative Transit usage in the Memorial Drive corridor is currently very high, and MARTA is planning improvements to the corridor's transit service. The Kensington LCI plan provides for both short-term and long-term transit improvements.		\boxtimes	
Long-Term Strategy: Improve transit service through the creation of a Bus Rapid Transit (BRT) system. With dedicated right-of-way, enhanced transit shelters/stations, as well as signal prioritization, BRT will allow a level of transit service that is less dependent on vehicular service levels. BRT will originate at the existing Kensington Station bus/BRT turnaround and proceed to Kensington Road across Memorial Drive in a dedicated transit right-of-way (as depicted on the following graphic).			
Short-Term Strategy: Provide signal prioritization improvements on Memorial Drive. Similar to DeKalb County's successful pilot project on Candler Road, buses on Memorial Drive will be equipped with signal prioritization equipment, allowing the extension of green lights and the improvement of bus performance. In this short-term improvement, MARTA buses will still run within Memorial Drive (i.e. in lanes shared with other traffic) and serve current bus stops. Little infrastructure investment will be required beyond signal control and equipment installation, so start-up costs will be minimal. MARTA buses with signal prioritization will run on the current route — originating at the Kensington MARTA Station bus turnaround to Kensington Road, turning left on to Memorial Drive heading east across Interstate 285 towards Stone Mountain. Although transit service will increase with			

the short-term signal prioritization improvements, the effects of increased transit service on land use will be minimal since there are few infrastructure improvements to the transit route or bus stops.				
6. Greenway Connection Improvements Strategy: Use the station area to connect to the County greenway system, from the PATH connection at Avondale Middle School to Avondale Dunaire Park across I-285. This would be accomplished by improving pedestrian conditions and adding bike lanes along Covington Highway and Kensington Road, and by developing the land alongside the MARTA tracks into a greenway. This greenway park would extend from Kensington Road, south of Memorial Drive, into the Government Center and across the highway to the park, via a new overpass shared with BRT.				
Additional strategies, policies, and implementation guided. There are concerns about the rate of speed along Memor driveway and intersection of Memorial Drive and Kensing Transportation Division.	ial Drive w	ith the	existing top	ography in proximity of the

NEXT STEPS

Following an approval of this modification action, one or several of the following may be required:



• Land Disturbance Permit (Required for of new building construction on non-residential properties, or land disturbance/improvement such as storm water detention, paving, digging, or landscaping.)



• **Building Permit** (New construction or renovation of a building (interior or exterior) may require full plan submittal or other documentation. Zoning, site development, watershed and health department standards will be checked for compliance.)



- Certificate of Occupancy (Required prior to occupation of a commercial space and for use of property for any business type. The issuance follows the review of submitted plans if required based on the type occupancy.)
- Plat Approval (Required if any parcel is being subdivided, re-parceled, or combined. Issued "administratively"; no public hearing required.)
- **Sketch Plat & Final Plat Approval** (Required for the subdivision of property into three lots or more. Requires a public hearing by the Planning Commission.)
- **Overlay Review** (Required review of development and building plans for all new construction or exterior modification of building(s) located within a designated overlay district.)
- **Historic Preservation** (A Certificate of Appropriateness is required for any proposed changes to building exteriors or improvements to land when located within the Druid Hills or the Soapstone Geological Historic Districts. Historic Preservation Committee public hearing may be required.)



- Variance (Required to seek relief from any development standards of the Zoning Ordinance. A public hearing and action by the Board of Appeals are required for most variances.)
- **Minor Modification** (Required if there are any proposed minor changes to zoning conditions that were approved by the Board of Commissioners. The review is administrative if the changes are determined to be minor as described by Zoning Code.)
- **Major Modification** (Required submittal of a complete zoning application for a public hearing if there are any proposed major changes to zoning conditions that were approved by the Board of Commissioner for a prior rezoning.)
- **Business License** (Required for any business or non-residential enterprise operating in Unincorporated DeKalb County, including in-home occupations).
- **Alcohol License** (Required permit to sell alcohol for consumption on-site or packaged for off-site consumption. Signed and sealed distance survey is required. Background checks will be performed.)

Each of the approvals and permits listed above requires submittal of application and supporting documents, and payment of fees. Please consult with the appropriate department/division.



DEKALB COUNTY GOVERNMENT PLANNING DEPARTMENT DISTRIBUTION FORM

The following areas below may warrant comments from the Development

Division. Please respond accordingly as the issues relate to the

proposed request and the site plan enclosed as it relates to Chapter 14. You may
address applicable disciplines.

DEVELOPMENT ANALYSIS:

• Transportation/Access/Row

Consult the Georgia DOT as well as the DeKalb County Transportation Department prior to land development permit. Verify widths from the centerline of the roadways to the property line for possible right-of-way dedication. Improvements within the right-of-way may be required as a condition for land development application review approval. Safe vehicular circulation is required. Paved off-street parking is required.

• Storm Water Management

Compliance with the Georgia Stormwater Management Manual, DeKalb County Code of Ordinances 14-40 for Stormwater Management and 14-42 for Storm Water Quality Control, to include Runoff Reduction Volume where applicable is required as a condition of land development permit approval. Use Volume Three of the G.S.M.M. for best maintenance practices. Use the NOAA Atlas 14 Point Precipitation Data set specific to the site. The site is a stormwater hotspot.

• Flood Hazard Area/Wetlands

The presence of FEMA Flood Hazard Area was indicated in the County G.I.S. mapping records for the site; and should be noted in the plans at the time of any land development permit application. Encroachment of flood hazard areas require compliance with Article IV of Chapter 14 and FEMA floodplain regulations.

• Landscaping/Tree Preservation

Landscaping and tree preservation plans for any building, or parking lot must comply with DeKalb County Code of Ordinances 14-39 and are subject to approval from the County Arborist.

Tributary Buffer

State water and consequently, State water buffer was reflected in the G.I.S. records for the site. Typical state waters buffer have a 75' undisturbed stream buffer and land development within the undisturbed creek buffer is prohibited without a variance per DeKalb County Code of Ordinances 14-44.1.

• Fire Safety

<u>Plans for land development permit must comply with Chapter 12 DeKalb County Code for fire protection and prevention.</u>

• Retaining Wall

Any proposed retaining wall must comply with DeKalb County Code of Ordinances Chapter 27-5.4.7

TRANSPORTATION COMMENTS - JULY 2018 REZONE AGENDA

N1. Alton Road is classified as a local road. See Chapter 5 of the zoning code Table 5.1 and Chapter 14, Section 190 of the Land Development Code for permit requirements. Street lights are required. New road to be private. Add sidewalks on the existing county right of way between new road and Chamblee Tucker Road. Sight Triangles for access point will be required at Land Development Permit submittal.

N2. Lawrenceville Hwy (SR 8) and North Druid Hills Road are both major arterials and both are on the Bike Network as Second Tier Priority. See Chapter 5 of the zoning code Table 5.1 and Chapter 14, Section 190 of the Land Development Code for permit requirements. Street lights required. Request to comment at a future date when the traffic GRTA/ARC DRI required traffic study is complete and a Notice of Decision is given. Transportation is requesting a deferral, as any action taken by the county prior to NOD may jeopardize federal transportation funding. At a minimum, we want a PATH connection along the southern property line as part of the South Fork Peachtree Creek Trail and a direct, buffered ped/bike connection between the PATH and the neighborhood, crossing at the signal at Mistletoe Road. In addition, the access point on Lawrenceville Hwy just south of NDH will be restricted to right in/right out/left in. Sight Triangles for access point will be required at Land Development Permit submittal. Other comments later once traffic study is received.

N3. See N2.

N4. Does a recycling plant automatically trigger a DRI? Lancaster Road is classified as a local road. This property is in the Bouldercrest Overlay District Tier 4- verify infrastructure requirements in Code. It appears to be a packed gravel, unimproved road, not up to current standards with a right of way corridor of only 35 feet. DeKalb County has no current plans to upgrade this road to modern standards. Right of way dedication of 27.5 from centerline is required.

N5. Does a recycling plant automatically trigger a DRI? Fleetwood Drive is classified as a local road. Please note that there is an effort to make the private railroad crossing to the private properties a Quiet Zone- no RR train horns will be sounded. The property owner needs to pave their approach to the crossing to reduce the amount of sediment tracked onto the county road.

N6. Memorial Drive is a state route. GDOT review and permits required. Transportation is requesting a traffic study be performed. This development will have a hard time getting thru the land development process. Chapter 14 requires 3 access points. See Chapter 14, Section 14-200 (6) for the requirements of separation of access points. Requests deferral until the traffic study is completed for additional comments. This seems like a large development for such a small parcel. Sight Triangles for access point will be required at Land Development Permit.

N7. No Comment.

N8. Mountain Drive is a state route. GDOT review and permits are required. Not enough information to comment about the change in alleys. Public alleys must connect to public street on both ends. Private alleys may end in a turn around. See section 14-195 of the Land Development Code for more information related to alleys.

N9. No comments.



DEKALB COUNTY GOVERNMENT PLANNING DEPARTMENT DISTRIBUTION FORM

NOTE: PLEASE RETURN ALL COMMENTS VIA EMAIL OR FAX TO EXPEDITE THE PROCESS TO MADOLYN SPANN <u>MSPANN@DEKALBCOUNTYGA.GOV</u> OR JOHN REID <u>JREID@DEKALBCOUNTYGA.GOV</u>

COMMENTS FORM:

PUBLIC WORKS TRAFFIC ENGINEERING

TODDIC WORLD TRAITICES	GIVEERING
Case No.: Z-18-22285 Parcel I.D. #: 15	-230.01-005
Address: 42/3 MEMOUNDA	
DECAMA GA	
KENSINGTIN Adjacent Ro	padway (s):
(classification)	(classification)
Capacity (TPD)	Capacity (TPD)
Latest Count (TPD) Hourly Capacity (VPH) Peak Hour. Volume (VPH) Existing number of traffic lanes Existing right of way width Proposed number of traffic lanes Proposed right of way width	Latest Count (TPD) Hourly Capacity (VPH) Peak Hour. Volume (VPH) Existing number of traffic lanes Existing right of way width Proposed number of traffic lanes Proposed right of way width
Please provide additional information relating to the following state	
According to studies conducted by the Institute of Traffic Engineer generate an average of fifteen (15) vehicle trip end (VTE) per 1, 000 factor. Based on the above formula, thesquare foot place owith approximately peak hour vehicle trip ends.	0 square feet of floor area, with an eight (8%) percent peak hour
Single Family residence, on the other hand, would generate ten (10 peak hour factor. Based on the above referenced formula, the	(Single Family Residential) District designation which allows ect site is approximately acres in land area, daily
COMMENTS:	
FIELD AND PLANE REVIEWS	La This project 41.11
RECOMMENTE A RIGHT TURN	
0(17.	
	Signature:

DeKalb County School District Zoning Review Comments

Analysis Date: 6/11/2018

Submitted to: **DeKalb County** Case #: Z-18-22285 Parcel #: 15-230-01-005

Name of Development: Memorial Drive Apts

Location: Memorial Dr near Kensington Road

Description: Proposed development of 220 apartment units on currently vacant property.

When fully constructed, this development would be expected to house 23 students: 5 at Impact of Development:

Peachcrest ES, 3 at Bethune MS, 7 at Towers HS, and 8 at other DCSD schools. All three

neighborhood schools have capacity for additional students.

	Peachcrest			Other DCSD	Private	
Current Condition of Schools	ES	Bethune MS	Towers HS	Schools	Schools	Total
Capacity	1,086	1,350	1,299			
Portables	0	0	10			
Enrollment (Fcst. Oct. 2018)	957	870	947			
Seats Available	129	480	352			
Utilization (%)	88.1%	64.4%	72.9%			
New students from development	5	3	7	8	0	23
New Enrollment	962	873	954	Ī		
New Seats Available	124	477	345			
New Utilization	88.6%	64.7%	73.4%			

	A44 a m al 11 a ma a	Attend other	Private	
\n .				
Yield Rates	School	DCSD School	School	Total
Elementary	0.024050	0.018904	0.002222	0.045177
Middle	0.014218	0.006459	0.001111	0.021788
High	0.029552	0.012391	0.000000	0.041944
Total	0.0678	0.0378	0.0033	0.1089
Student Calculations				
Proposed Units 220	7			
Unit Type APT	1			
Cluster Towers	1			
	4			
	Attend Home	Attend other	Private	
Units x Yield	School	DCSD School	School	Total
Elementary	5.29	4.16	0.49	9.94
Middle	3.13	1.42	0.24	4.79
High	6.50	2.73	0.00	9.23
Total	14.92	8.31	0.73	23.96
	Attond Hams	Attend other	Private	
Andining to all Otto dans				T-4-1
Anticipated Students	School	DCSD School	School	Total
Peachcrest ES	5	4	0	9
Bethune MS	3	1	0	4
Towers HS	7	3	0	10
Total	15	8	0	23



DEKALB COUNTY GOVERNMENT PLANNING DEPARTMENT DISTRIBUTION FORM

NOTE: PLEASE RETURN ALL COMMENTS VIA EMAIL OR FAX TO EXPEDITE THE PROCESS TO MICHELLE M ALEXANDER mmalexander@dekalbcountyga.gov OR JOHN REID IREID@DEKALBCOUNTYGA.GOV

COMMENTS FORM: PUBLIC WORKS WATER AND SEWER

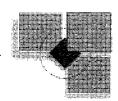
Case No.: <u>Z-18-22285 / 2018-2157</u>
Parcel I.D. #:15-230-01-005
Address: 4213 Memorial Drive
Decatur, Georgia
WATER:
Size of existing water main: 8" DI Water Main (adequate/inadequate)
Distance from property to nearest main: Approximately 106 Feet Northwest from the Property
Size of line required, if inadequate: N/A
SEWER:
Outfall Servicing Project: Indian Creek Basin
Is sewer adjacent to property: Yes (X) No (_) If no, distance to nearest line: Adjacent to Property
Water Treatment Facility: Snapfinger Creek WTF () adequate () inadequate
Sewage Capacity; * (MGPD) Current Flow: 21.77 (MGPD)
COMMENTS:
* Please note that the sewer capacity has not been reviewed or approved for this project. A Sewer Capacity Request (SCR) must be completed and submitted for review. This can be a lengthy process and should be addressed early in the process.
Signature: (fluntypisch)



DeKalb County Department of Planning & Sustainability

Michael L. Thurmond Chief Executive Officer

Andrew A. Baker, AICP Director



APPLICATION TO AMEND OFFICIAL ZONING MAP OF DEKALB COUNTY, GEORGIA

APR 2 6 2018 Z/CZ No. 2-18-22282 Filing Fee: 500.00
Date Received: Application No.:
Applicant: Sam Artopoeus and R. Kyle Williams E-Mail: sartopoeus@williamsteusink.com
Applicant Mailing Address: 309 Sycamore Street, Decatur, Georgia 30030
Applicant Phone:404-373-9590
Owner(s): See Exhibit A [If more than one owner, attach as Exhibit "A"] Owner's Mailing Address:
Owner's Mailing Address: 2010 Enrique Drive, The Villages, FL 32159
Owner(s) Phone: _ 352 - 259 - 4299 Fax:
Address/Location of Subject Property: 4213 Memorial Drive
District(s): Land Lot(s): Block: Parcel(s:
Acreage: 2.3 Commission District(s): 4 and 6
Present Zoning Category: R-75 Proposed Zoning Category: HR-3
Present Land Use Category: RC
PLEASE READ THE FOLLOWING BEFORE SIGNING
This form must be completed in its entirety before the Planning Department accepts it. It must include the attachments and filing fees identified on the attachments. An application, which lacks any of the required attachments, shall be determined as incomplete and shall not be accepted.
<u>Disclosure of Campaign Contributions</u> In accordance with the Conflict of Interest in Zoning Act, O.C.G.A., Chapter 36-67A, the following questions must be answered: Have you the applicant made \$250 or more in campaign contributions to a local government official within two years immediately preceding the filling of this application?XYesNo
If the answer is yes, you must file a disclosure report with the governing authority of DeKalb County
 The name and official position of the local government official to whom the campaign contribution was made. The dollar amount and description of each campaign contribution made during the two years immediately preceding the filing of this application and the date of each such contribution.
The disclosure must be filed within 10 days after the application is first filed and must be submitted to the C.E.O. and the Board of CONTRY SIGNATURE OF APPLICANT / DATE 1/2/rg
[voice] 407, 900 Avenue – Suites 100-500 – Decatur, Georgia – 30030 [voice] 407, 900 (White Properties of Avenue – Suites 100-500 – Decatur, Georgia – 30030 [voice] 407, 900 (White Properties of Avenue – Suites 100-500 – Decatur, Georgia – 30030 [voice] 407, 900 (White Properties of Avenue – Suites 100-500 – Decatur, Georgia – 30030 [voice] 407, 900 (White Properties of Avenue – Suites 100-500 – Decatur, Georgia – 30030 [voice] 407, 900 (White Properties of Avenue – Suites 100-500 – Decatur, Georgia – 30030 [voice] 407, 900 (White Properties of Avenue – Suites 100-500 – Decatur, Georgia – 30030 [voice] 407, 900 (White Properties of Avenue – Suites 100-500 – Decatur, Georgia – 30030 [voice] 407, 900 (White Properties of Avenue – Suites 100-500 – Decatur, Georgia – 30030 [voice] 407, 900 (White Properties of Avenue – Suites 100-500 – Decatur, Georgia – 30030 [voice] 407, 900 (White Properties of Avenue – Suites 100-500 – Decatur, Georgia – 30030 [voice] 407, 900 (White Properties of Avenue – Suites 100-500 – Decatur, Georgia – 30030 [voice] 407, 900 (White Properties of Avenue – Suites 100-500 – Decatur, Georgia – 30030 [voice] 407, 900 (White Properties of Avenue – Suites 100-500 – Decatur, Georgia – 30030 [voice] 407, 900 (White Properties of Avenue – Suites 100-500 – Decatur, Georgia – 30030 [voice] 407, 900 (White Properties of Avenue – Suites 100-500 – Decatur, Georgia – 30030 [voice] 407, 900 (White Properties of Avenue – Suites 100-500 – Decatur, Georgia – 30030 [voice] 407, 900 (White Properties of Avenue – Suites 100-500 – Decatur, Georgia – 30030 [voice] 407, 900 (White Properties of Avenue – Suites 100-500 – Decatur, Georgia – 30030 [voice] 407, 900 (White Properties of Avenue – Suites 100-500 [voice] 407, 900 (White Properties of Avenue – Suites 100-500 [voice] 407, 900 (White Properties of Avenue – Suites 100-500 [voice] 407, 900 (White Properties of Avenue – Suites 100-500 [voice] 407, 900 (White Properties of Avenue – Suites 100-500 [voice] 407, 900 (White Properties of Avenue – Suites 100-500 [voi

PUBLIC NOTICE

REQUEST FOR REZONING

FILED BY:

JOHN AND SHIRLEY SPINELLI (OWNER)

KENSINGTON STATION, LLC (DEVELOPER)

WILLIAMS TEUSINK, LLC (COUNSEL)

PROPERTY LOCATED: 4213 MEMORIAL DRIVE, DECATUR, GEORGIA 30332

CURRENT ZONING:

R-75 (RESIDENTIAL MEDIUM LOT-75)

CURRENT LAND USE:

REGIONAL CENTER (RC)

CURRENT USE:

UNDEVELOPED LAND

PROPOSED ZONING:

HR-3 (HIGH DENSITY RESIDENTIAL-3)

PROPOSEDLAND USE:

REGIONAL CENTER (RC)

PROPOSED USE:

RESIDENTIAL APARTMENTS WITH STREET LEVEL STOREFRONT RETAIL AND INCIDENTAL COMMERCIAL

FRONTING MEMORIAL DRIVE

PRE-SUBMITTAL COMMUNITY MEETING TO TAKE PLACE AT:

LOCATION:

COVINGTON BRANCH LIBRARY

3500 COVINGTON HIGHWAY **DECATUR, GEORGIA 30032**

DATE & TIME:

TUESDAY, MAY 15, 2018 AT 7:00 PM

Notice Date: April 25, 2018



PUBLIC NOTICE: Community Meeting for Rezoning of 4213 Memorial Dr.

Kyle Williams <kwilliams@williamsteusink.com>

Mon, Apr 30, 2018 at 11:07 AM

To: Kyle Williams < kwilliams@williamsteusink.com>

Cc: "Robin L. Detar" <srbradshaw@dekalbcountyga.gov>, "Alesia D. Brooks" <adbrooks@dekalbcountyga.gov>, Kelly Cato <kgannon@dekalbcountyga.gov>

Bcc: joeba@earthlink.net, njqb@outlook.com, o4corvett@bellsouth.net, legal51996@yahoo.com, conward.jones07@gmail.com, davidkaminski2012@gmail.com, grammymix@gmail.com, blusty@mindspring.com, tonynastri@gmail.com, ojionwudegu@yahoo.com, evorari@bellsouth.net, Victoria Webb <vic@furiousdreams.com>, allisongroup40@gmail.com, little.creek@aol.com

Please see the attached Public Notice for a Community Meeting on Tuesday, May 15 at 7 pm at the Covington Branch Library regarding proposed rezoning of 4213 Memorial Drive.

Kyle

R. Kyle Williams

WILLIAMS TEUSINK, LLC
The High House
309 Sycamore Street
Decatur, Georgia 30030
Direct Dial: (404) 373-9351
Cell: (404) 931-7032
Facsimile: (404) 378-6049
kwilliams@williamsteusink.com
www.williamsteusink.com

Vacation Alert: I will be out of the office from May 3, 2018 through May 13, 2018, with no access to voicemail and emails. Please contact my assistant Sam Artopoeus at 404-373-9590 or sartopoeus@williamsteusink.com during this time. I will return to the office on Monday, May, 14, 2018.

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Parcel Owner	Mailing Address
15 230 01 010 4151 MEMORIAL LLC	550 PHARR RD STE 220 ATLANTA GA 30305
15 230 01 034 4151 MEMORIAL LLC	550 PHARR RD STE 220 ATLANTA GA 30305
15 231 05 001 DOWNTOWN DEV AUTH OR AVOND EST	21 N AVONDALE PLZ AVONDALE ESTATE GA 30002-1317
15 230 01 003 MARTA	2424 PIEDMONT RD NE ATLANTA GA 30324-3330
15 230 01 022 MARTA	2424 PIEDMONT RD NE ATLANTA GA 30324-3330
15 230 01 026 MARTA	2424 PIEDMONT RD NE ATLANTA GA 30324-3330
15 230 01 036 MARTA	2424 PIEDMONT RD NE ATLANTA GA 30324-3330
15 250 06 009 MARTA	2424 PIEDMONT RD NE ATLANTA GA 30324-3330
15 250 07 024 MARTA	2424 PIEDMONT RD NE ATLANTA GA 30324-3330
15 251 02 002 MARTA	2424 PIEDMONT RD NE ATLANTA GA 30324-3330
15 251 02 003 MARTA	2424 PIEDMONT RD NE ATLANTA GA 30324-3330
15 251 02 004 MARTA	2424 PIEDMONT RD NE ATLANTA GA 30324-3330
15 251 03 001 MARTA	2424 PIEDMONT RD NE ATLANTA GA 30324-3330
15 230 01 028 ROBINSON I MICHELLE	4179 MEMORIAL DR DECATUR GA 30032-1503
15 230 01 001 CC OTV LLC	131 SOUNDVIEW LN, NEW CANAAN CT 06840
15 230 01 037 CC OTV LLC	131 SOUNDVIEW LN, NEW CANAAN CT 06840
15 251 05 015 DEKALB COUNTY	1330 COMMERCE DR # 6 DECATUR GA 30030
Oak Tree Villas	3465 Kensington Road, Decatur GA 30032
15 230 01 006 RITCHIE WILLIAM C	PO BOX 489 HULL GA 30646-0489
15 230 01 007 RITCHIE WILLIAM C	PO BOX 489 HULL GA 30646-0489
15 230 01 008 RITCHIE WILLIAM C	PO BOX 489 HULL GA 30646-0489

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MEETING SIGN-IN SHEET Project: 4213 MEMORIAL Meeting Date: MAM, 15, 2018 Facilitator: Location: COVINGTON BRANCH

Nama			
Name	Address	Phone	E-Mail
Morgan Race	658 FAMAR C+	404-275-0206	mors muro we bound &
Dee Herria	8 harboeview 77		dec.merriam a
Sheri Locke	3247 Wynn Dr.	510551-1073	locke. Sheri ogmail. con
Brewlt + Ed Moe	weig Nottingham	1	began @ bellsouth wet
Matt Leather Man	659 Farrer CA	4-580-2195	grammy mixe g mail.com
Je Arrington	Rod 4 idg 30083	4-3680473	jarvings segmailen
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Andrew Shahan	664 Farray Ct.		ashahan semory.edu
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		·	

A. <u>SUMMARY OF PROPOSED REZONING</u>

Applicant requests rezoning of the Property from R-75 (Residential Medium Lot-75) to HR-3 (High Density Residential-3). The requested rezoning of the Property does not require an amendment to the Land Use Plan as it is consistent with the Existing Land Use classification as Regional Center (RC) set forth in the 2035 Comprehensive Plan and Future Land Use Map comprehensive.

Applicant is under contract to sell the Property to Kensington Station, LLC ("Kensington Station") conditioned upon the requested rezoning. Kensington Station intends to develop and use the Property as two (2) seven (7) story residential apartment buildings with incidental street level storefront retail and commercial fronting Memorial Drive, as detailed and conditioned upon the plans submitted in support of this Application. The proposed development would consist of an apartment unit mix of fifty-nine (59) one-bedroom apartments, one hundred and six (106) two-bedroom apartments, and fifty-three (53) three-bedroom apartments for a total of two hundred and eighteen (218) residential units.

A. **DOCUMENTED IMPACT ANALYSIS**

(a) Whether the proposed land use change will permit uses that are suitable in consideration of the use and development of adjacent and nearby property or properties.

The proposed rezoning of the Property will permit development of a higher density residential apartment use with incidental street level storefront retail and commercial fronting Memorial Drive that is suitable in view of the use and development of adjacent and nearby property. The adjacent and adjoining properties on Memorial Drive to the north and south of the Property are zoned OI (Office-Institutional). The adjacent and adjoining property to the rear of the Property is zoned MR-2 (Heavy Industrial) pursuant to CZ-88089.

The Property is centrally located within the highly trafficked commercial area at the intersection of Memorial Drive and Kensington Road. The Property is within walking distance of the MARTA Kensington Station. The surrounding area is a mix of governmental, commercial, retail, and other non-residential uses. However, the immediate surrounding area is lacking in high density residential uses.

The proposed rezoning would allow for a higher density residential development that would complement and better serve the existing non-residential uses. The proposed rezoning and development would serve as a catalyst for other residential redevelopment adjacent to and within the Kensington-Memorial Drive Overlay. While outside of the boundaries of the overlay district, the proposed rezoning is consistent with the overlay's stated objective to "create a positive real estate investment climate which will stimulate economic development and job creation." The proposed rezoning and development would allow for a trans-oriented development near the MARTA Kensington Station that is sought by the Kensington-Memorial Drive Overlay District.

More importantly, the current zoning of the Property as R-75 (Residential Medium Lot-

75) is obsolete and inconsistent with the 2035 Comprehensive Plan and Future Land Use Map comprehensive. It is not economically feasible or desirous that the Property be used as a single-family house as currently zoned. By contrast, the proposed rezoning is consistent with the Existing Land Use classification of the Property as Regional Center (RC) as set forth in the 2035 Comprehensive Plan and Future Land Use Map comprehensive.

(b) Whether the proposed land use change will adversely affect the existing use or usability of adjacent or nearby property or properties.

As detailed in Section (a) above, the proposed rezoning is consistent with and will not adversely affect the existing use or usability of adjacent and nearby properties. Furthermore, the proposed rezoning is consistent with the Existing Land Use classification of the Property as Regional Center (RC) as set forth in the 2035 Comprehensive Plan and Future Land Use Map comprehensive.

(c) Whether the proposed land use change will result in uses which will or could cause excessive or burdensome use of existing streets, transportation facilities, utilities, or schools.

The proposed rezoning will not result in uses which would cause excessive or burdensome uses of existing streets, transportation facilities, utilities, or schools. The Property is well served by existing streets, transportation facilities, and utilities within the immediate surrounding areas located at the intersection of Kensington Road and Memorial Drive. The proposed apartment development will not impact existing schools as apartment uses typically do not attract families with school age children given the unit size. The existing infrastructure is more than sufficient to support the proposed residential development. More importantly, the Property is ideally situated within walking distance of the MARTA Kensington Station and will introduce a needed residential use to complement the existing non-residential uses in the immediate surround area.

(d) Whether the amendment is consistent with the written policies in the comprehensive plan text.

The requested rezoning of the Property does not require an amendment to the Land Use Plan. The proposed rezoning is consistent with the Existing Land Use classification of the Property as Regional Center (RC) as set forth in the 2035 Comprehensive Plan and Future Land Use Map comprehensive.

(e) Whether there are potential impacts on property or properties in an adjoining governmental jurisdiction, in cases of proposed changes near county or municipal boundary lines.

The Property is not located near county or municipal boundary lines. As such, there are no potential impacts on property or properties in any adjoining governmental jurisdiction.

(f) Whether there are other existing or changing conditions affecting the use and development of the affected land areas which support either approval or denial of the proposed land use change.

Except as detailed above, there are no other existing or changing conditions affecting the use or development of the affected land areas which support either approval or denial of the proposed land use change.

(g) Whether there will be an impact on historic buildings, sites, districts or archaeological resources resulting from the proposed change.

The proposed rezoning and development will have no impact on any historic building, site, district, or archaeological resource.

B. <u>ADDITIONAL SUPPORTING DOCUMENTATION</u>

Applicant includes as additional support for its Application the following:

- 1. Pre-Application Form Rezone, Special Land Use Permit, Modification, and Land Use;
- 2. Application to Amend Official Zoning Map of DeKalb County, Georgia;
- 3. Rezone Application Authorization, John Spinelli and Shirley Spinelli;
- 4. Notarized Authorization by Property Owner for Representation (John Spinelli);
- 5. Notarized Authorization by Property Owner for Representation (Shirley Spinelli);
- 6. Public Notice for Community Meeting;
- 7. Deed Under Power of Sale, dated January 7, 2014;
- 8. Legal Description of the Property;
- 9. Zoning Map of the Property;
- 10. Survey of Property, prepared by Survey Land Express, Inc., dated March 5, 2018;
- 11. Architectural, Elevation, and Landscape Plans (Sheet Nos. 1 6), prepared by REMOS Architects, dated April 18, 2018;
- 12. Four (4) Conceptual Drawings, prepared by REMOS Architects; and,
- 13. Application Fee.



4213 Memorial Drive

DeKalb County, Georgia

Report Prepared:

July 2018

Prepared for:

Kensington Station, LLC

Prepared by:



Kimley-Horn and Associates, Inc. 817 West Peachtree Street, Suite 601 Atlanta, Georgia 30308 Project #013184000

Kimley » Horn

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Kimley » Horn

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1.0 INTRODUCTION

This report presents the analysis of the anticipated traffic impacts associated with the *4213 Memorial Drive* development. The approximate 2.27-acre site is proposed to consist of approximately 220 apartment units and 2,474 square feet of retail and is located just south of Kensington Road at Memorial Drive (SR 154 / SR 10) in DeKalb County, Georgia.

The 4213 Memorial Drive development is proposed to be completed and open to traffic by year 2020. This report will summarize the analyses of the following three (3) scenarios:

- 1. Existing 2018 Traffic Conditions
- 2. Projected 2020 No-Build Traffic Conditions
- 3. Projected 2020 Build Traffic Conditions

The proposed development will be served by one (1) proposed full-movement driveway along Memorial Drive (SR 154 / SR 10).

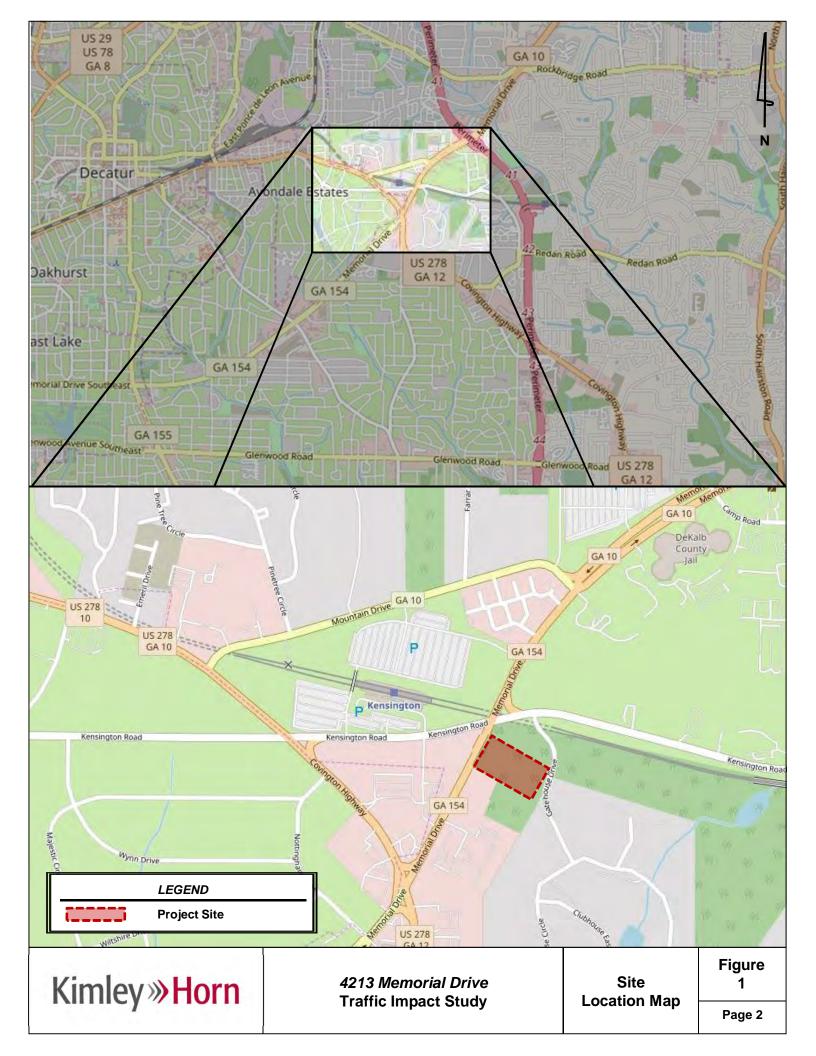
Figure 1 provides a location map. **Figure 2** provides an aerial imagery of the project site. Additionally, a copy of the proposed site plan is provided in Appendix A.

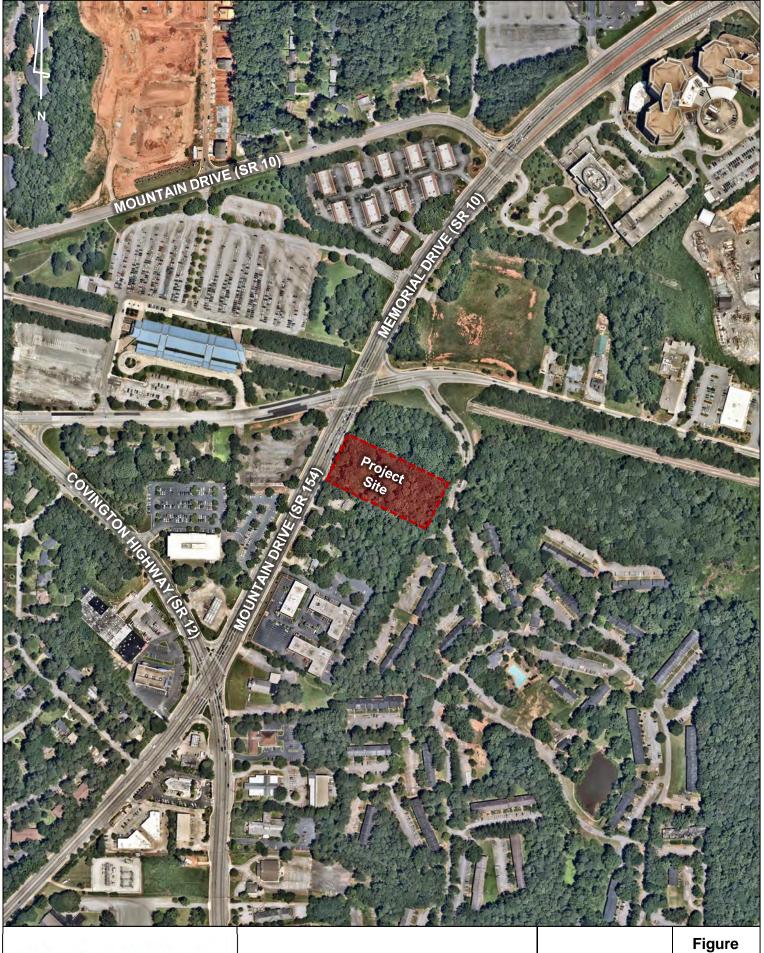
2.0 STUDY AREA DETERMINATION

The study area consists of the following existing intersections:

- 1. Memorial Drive (SR 154 / SR 10) at Kensington Road (signalized)
- 2. Memorial Drive (SR 154 / SR 10) at Proposed Site Driveway (unsignalized, full-movement)

This analysis considers Memorial Drive (SR 154 / SR 10) as having a north-south orientation, and Kensington Road as having an east-west orientation. Site photographs are provided in Appendix E.





Kimley»Horn

4213 Memorial Drive Traffic Impact Study Site Aerial Figure 2

Page 3



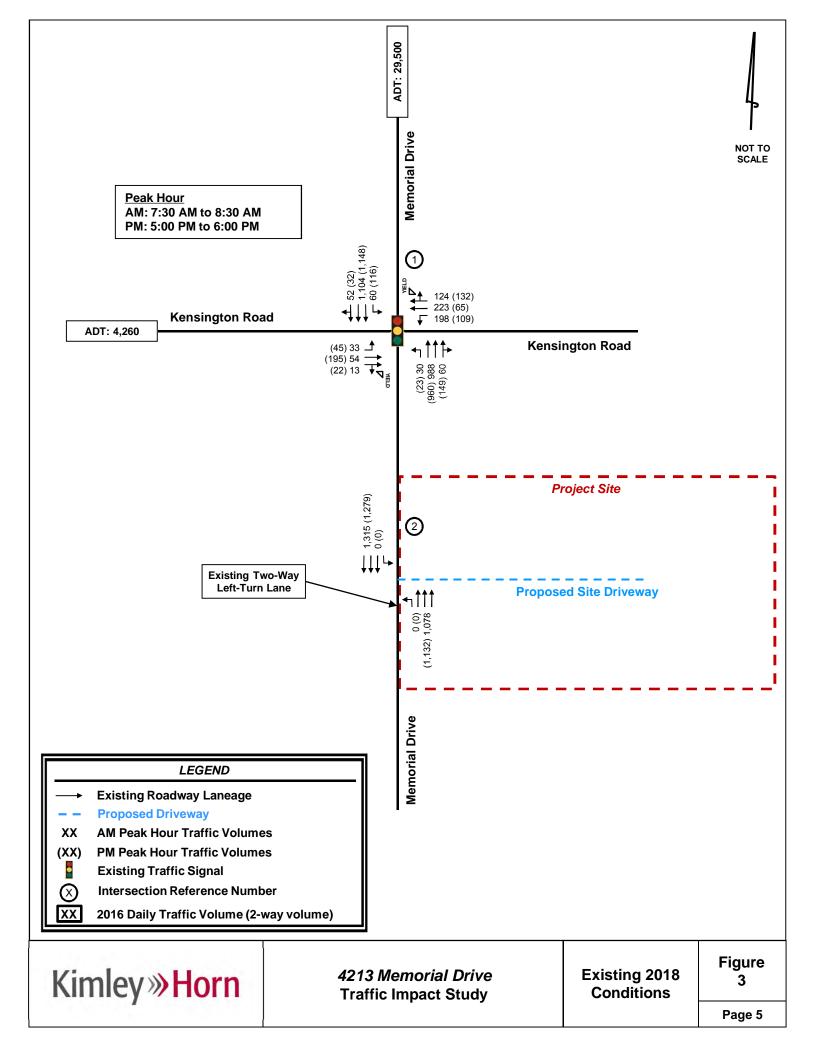
3.0 EXISTING TRAFFIC CONDITIONS

The roadways within the study network have the following characteristics:

Memorial Drive (SR 154 / SR 10) is a 7-lane undivided roadway (three travel lanes in each direction with a center two-way left-turn lane) with a posted speed limit of 45 MPH in the vicinity of the project site. GDOT counts taken north of Kensington Road indicate a 2016 AADT of 29,500 vehicles per day.

<u>Kensington Road</u> is a five-lane undivided roadway (two travel lanes in each direction with a center two-way left-turn lane) with a posted speed limit of 35 MPH. GDOT counts taken west of Memorial Drive indicate a 2016 AADT of 4,260 vehicles per day.

Vehicle peak hour turning movement counts during the AM period (7:00 AM to 9:00 AM) and the PM period (4:00 PM to 6:00 PM) were performed on Thursday, March 22, 2018. It was determined from these counts that the AM peak hour occurs at 7:30-8:30 and the PM peak hour occurs at 5:00-6:00. The counts are provided in Appendix D. **Figure 3** illustrates the Existing 2018 peak hour volumes.





4.0 PROJECTED BACKGROUND (NON-PROJECT) TRAFFIC

Projected background (non-project) traffic is defined as the expected traffic on the roadway network in the future year(s) absent the construction and opening of the proposed project. The Existing 2018 peak hour traffic volumes were increased by 1.0% per year for two (2) years to account for the expected background growth in traffic to 2020. Please note that the assumed 1.0% annual growth rate is consistent with other recent studies done in the area. **Figure 4** illustrates the Projected 2020 No-Build traffic conditions.

4.1 FUTURE ROADWAY/INTERSECTION PROJECTS

The ARC's Atlanta Region's Plan and GDOT Statewide TIP (STIP) were researched for currently programmed transportation projects within the vicinity of the proposed development. No major projects were identified.

5.0 PROJECT TRAFFIC

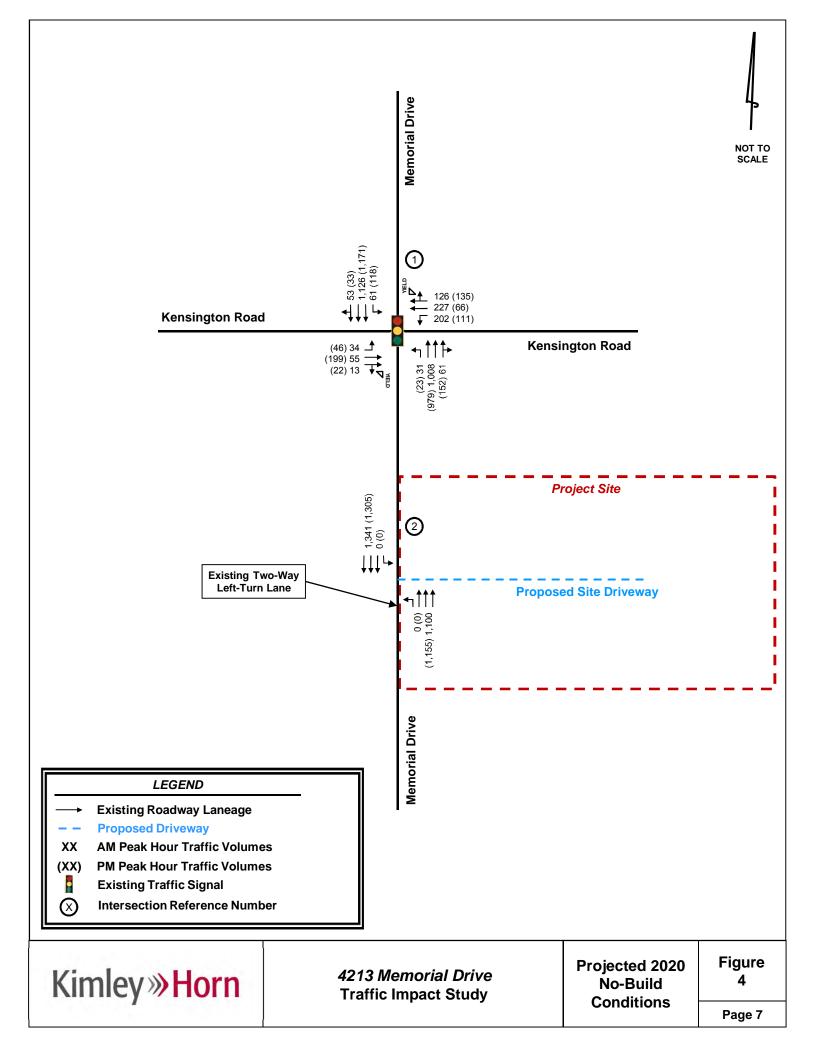
Project traffic used in this analysis is defined as the vehicle trips expected to be generated by the development and the distribution and assignment of that traffic through the study roadway network. This traffic impact study evaluated the impacts of developing approximately 220 apartment units and 2,474 square feet of retail space.

5.1 PROJECT SITE ACCESS

Access to the proposed *4213 Memorial Drive* development will be provided at one (1) location, which is shown on the site plan in Appendix A. The unsignalized proposed site driveway is located along Memorial Drive (SR 154 / SR 10) approximately 300 feet south of Kensington Road. There is approximately 200 feet of available storage for vehicles entering the site traveling southbound along Memorial Drive (SR 154 / SR 10).

See the referenced site plan in Appendix A for a visual representation of vehicular access and circulation throughout the proposed site.

A second site driveway is proposed along Memorial Drive (SR 154 / SR 10) approximately 150 feet south of Kensington Road which will have limited access and only serve trucks such as delivery and waste removal heavy vehicles.





5.2 TRIP GENERATION

Traffic for the proposed development was calculated using equations and rates contained in the Institute of Transportation Engineers (ITE) *Trip Generation Manual*, Tenth Edition, 2017. The trip generation was calculated assuming 220 apartment units (Land Use 221) and 2,474 square feet of retail (Land Use 930). The exact land use planned to occupy the 2,474 square feet of retail space has yet to be finalized. Therefore, Fast Casual Restaurant (Land Use 930) is believed to be a conservative assumption.

Table 1 summarizes the trip generation for the proposed development under full build-out (year 2020).

Table 1: Project Trip Generation Summary										
Landlloo	Donoitu	ITE	Daily Traffic		AM Pea	ak Hour	PM Peak Hour			
Land Use	Density	Code	Enter	Exit	Enter	Exit	Enter	Exit		
Multifamily Housing (Mid-Rise)	220 d.u.	221	599	599	19	55	57	37		
Fast Casual Restaurant	2,474 s.f.	930	390	390	3	2	19	16		
Mixed-Use Reduction	Mixed-Use Reductions			-78	0	0	-2	-2		
Alternative Mode Reductions			-228	-228	-6	-15	-19	-13		
Total New Trips		683	683	16	42	55	38			

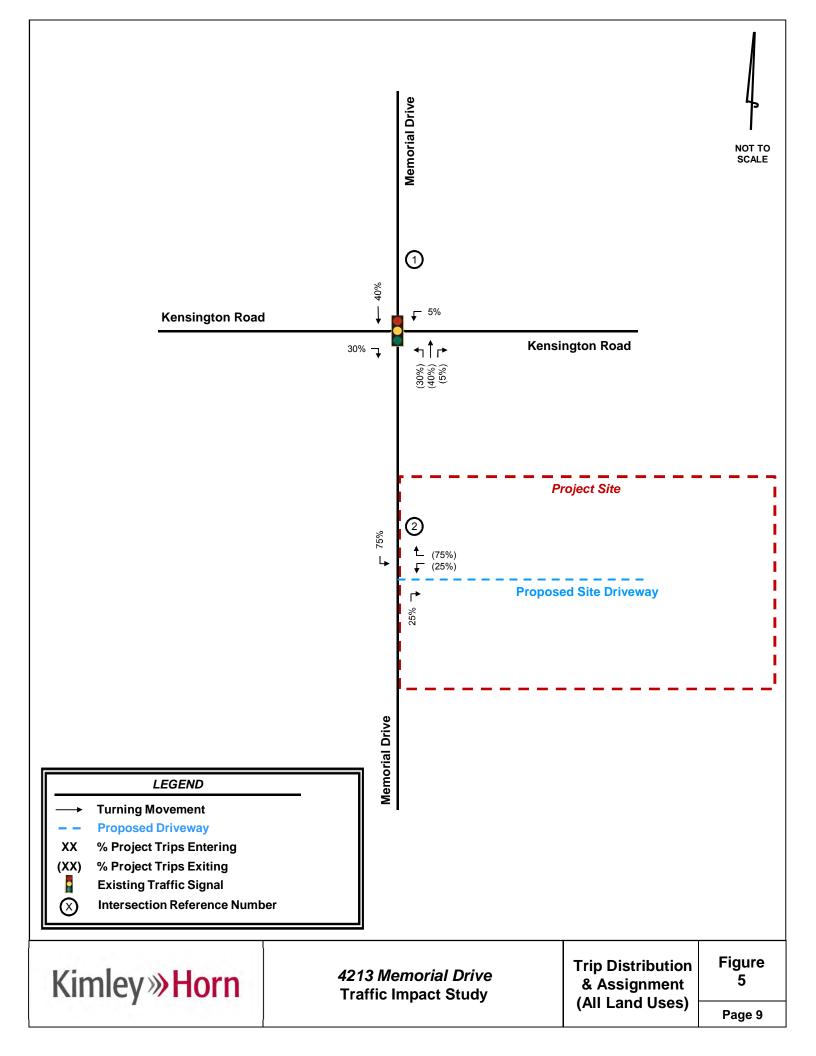
Due to the *4213 Memorial Drive* development's close proximity to local transit routes, an alternative mode reduction of 25% was applied to vehicle trip generation calculations.

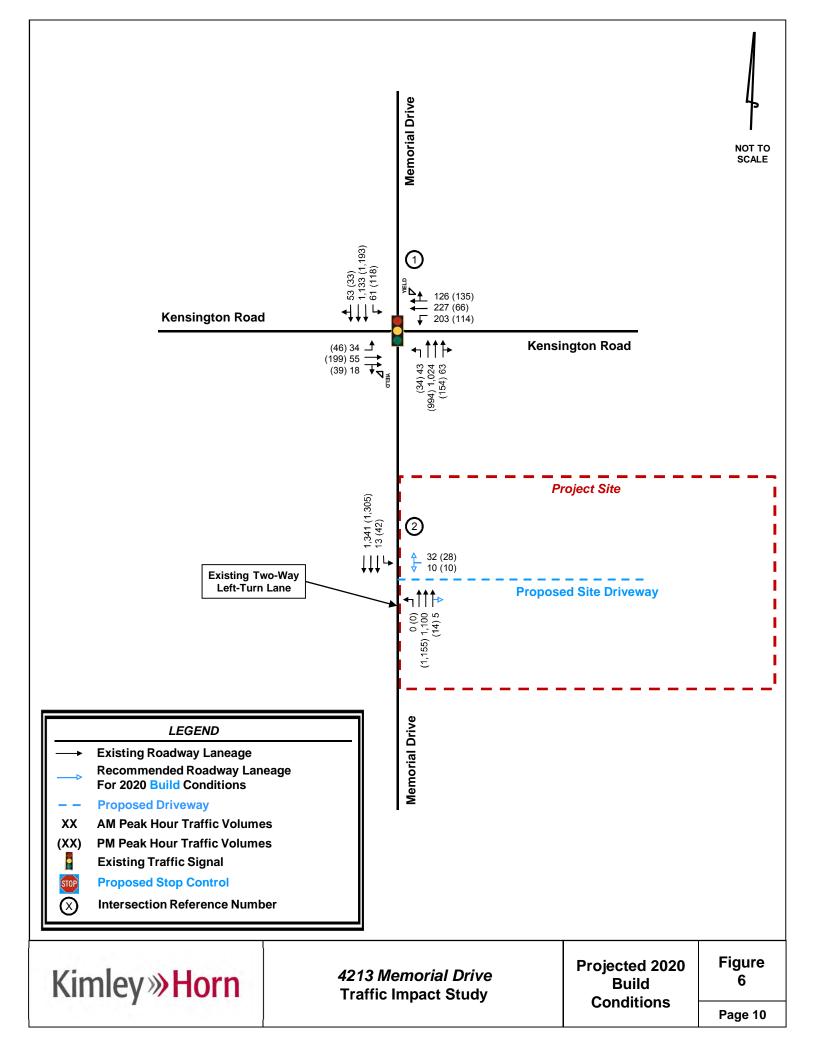
5.3 TRIP DISTRIBUTION AND ASSIGNMENT

The directional distribution and assignment of new project trips was based on a review of land uses and population densities in the area; and the existing peak hour turning movement counts. **Table 2** shows the trip distribution by land use applied to all projected traffic associated with the *4213 Memorial Drive* development. **Figure 5** provides the directional distribution and assignment of new project trips.

Table 2: Trip Distribution by Land Use									
	Kensingt	ton Road	Memori (SR 154	Tatal					
Land Use	To/From East	To/From West	To/From North	To/From South	Total				
Project Trips (All Land Uses)	5%	30%	40%	25%	100%				

Figure 6 illustrates the Projected 2020 Build traffic conditions for the AM and PM peak hours. Appendix B provides intersection volume worksheets for all intersections and driveways within the study network.







6.0 LEVEL-OF-SERVICE ANALYSIS

Level-of-service (LOS) determinations were made for the weekday AM and PM peak hours for the existing study network intersections and proposed site-access intersections using *Synchro Professional, Version 9.0*. The program uses methodologies contained in the *2010 Highway Capacity Manual* to determine the operating characteristics of an intersection. Capacity is defined as the maximum number of vehicles that can pass over a particular road segment or through a particular intersection within a specified period under prevailing roadway, traffic, and control conditions.

LOS is used to describe the operating characteristics of a road segment or intersection in relation to its capacity. LOS is defined as a qualitative measure that describes operational conditions and motorists' perceptions of a traffic stream. The *Highway Capacity Manual* defines six levels of service, LOS A through LOS F, with A being the best and F the worst.

LOS for signalized intersections are reported for the intersection as a whole. One or more movements at an intersection may experience a low level-of-service, while the intersection as a whole may operate acceptably.

LOS for unsignalized intersections, with stop control on the minor street(s) only, are reported for the side street approaches. It is not uncommon to have long delays for stop-controlled approaches when there is heavy major street volume.

In addition to the Existing 2018 traffic conditions, analyses were performed for the AM and PM peak hours for the Projected 2020 No-Build traffic conditions and the Projected 2020 Build traffic conditions.

The results of the LOS analysis for the scenarios stated above are summarized in Table 3.

	Table 3: Level-of-Service Summary LOS (Delay in Seconds)										
L.C. C.	Approach/	Existin	g 2018	-	ed 2020 Build	Projected 2020 Build					
	Intersection	Control	AM Peak	PM Peak	AM Peak	PM Peak	AM Peak	PM Peak			
1.	Memorial Drive (SR 154 / SR 10) at Kensington Road (signalized)	Overall	C (31.4)	C (30.3)	C (31.7)	C (30.5)	C (31.9)	C (31.0)			
2.	Memorial Drive (SR 154 / SR 10) at	Westbound	N/A	N/A	N/A	N/A	C (20.2)	C (21.7)			
Proposed Driveway (<i>unsignalized</i>)	Southbound Left	N/A	N/A	N/A	N/A	C (17.0)	C (19.7)				

^{*} Note: It is not uncommon to have long delays for stop-controlled approaches when there is heavy major street volume.

As shown in **Table 3**, all study intersections are projected to operate at LOS C or better during the AM and PM peak hours under Projected 2020 Build traffic conditions.



7.0 QUEUE LENGTH ANALYSIS

Queuing analyses were performed for the AM and PM peak hours based on the peak of the overall intersection (peak of adjacent street traffic) for the signalized study intersections with the study network using *Synchro*, *Version 9*. The queuing analysis focused on the southbound left turning movement entering the project site from Memorial Drive (SR 154 / SR 10) under Projected 2020 Build traffic conditions.

Table 4 summarizes the 95th percentile queue lengths. The *Synchro* queuing analysis reports are provided in Appendix C.

	Table 4: Synchro Queue Length Analysis Projected 2020 Build Conditions										
INT #	Intersection	Vehicle Movement	AM Peak Hour 95 th % Queue (# of vehicles)	PM Peak Hour 95 th % Queue (# of vehicles)							
1	Memorial Drive (SR 154 / SR 10) at Kensington Road	NB Left	1.9	1.4							
2	Memorial Drive (SR 154 / SR 10) at Proposed Driveway	SB Left	0.1	0.5							

The queue lengths reported in **Table 4** are directly from *Synchro Professional, Version 9.0*, which uses methodologies contained in the *2010 Highway Capacity Manual*. The average length of a passenger car is assumed to be 25 feet and the average length of a heavy vehicle is assumed to be 45 feet.

Based on the results of this queue length analysis and the approximate 200 feet of available storage from the northbound left-turn stop bar at the intersection of Memorial Drive at Kensington Road to the proposed site drive, queuing along Memorial Drive does not appear to be problematic.



8.0 CONCLUSION

As currently envisioned, the *4213 Memorial Drive* development will consist of approximately 220 apartment units and 2,474 square feet of retail space. The site is located just south of Kensington Road at Memorial Drive (SR 154 / SR 10) in the DeKalb County, Georgia. The *4213 Memorial Drive* development is proposed to be completed and open to traffic by year 2020. This report summarizes the analyses of the following three (3) scenarios:

- 1. Existing 2018 Traffic Conditions
- 2. Projected 2020 No-Build Traffic Conditions
- 3. Projected 2020 Build Traffic Conditions

The proposed development will be served by one (1) proposed full-movement driveway along Memorial Drive (SR 154 / SR 10). The level-of-service (LOS) analysis indicates that all study intersections are projected to operate at LOS C or better during the AM and PM peak hours under Projected 2020 Build traffic conditions.

9.0 GENERAL RECOMMENDATIONS

Kimley-Horn and Associates, Inc. recommends site-access improvements based on the results of this study. Site-access improvements are needed to serve the *4213 Memorial Drive* development traffic.

9.1 SITE-ACCESS IMPROVEMENTS

Based on the results of this study, Kimley-Horn and Associates, Inc. recommends the following site-access improvements to serve the Projected 2020 Build traffic conditions (note: this would be the improvements needed to serve the traffic associated with the *4213 Memorial Drive* development):

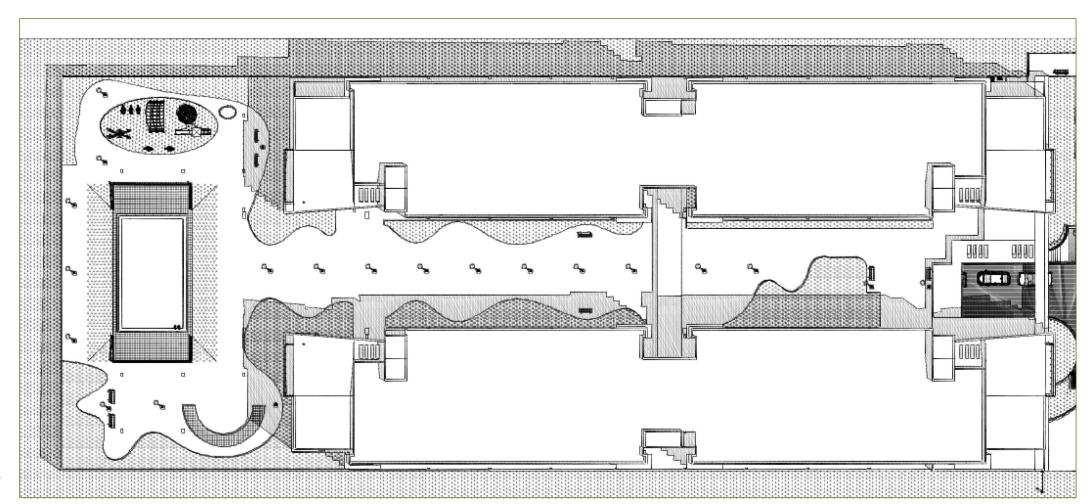
Intersection #2: Memorial Drive (SR 154 / SR 10) at Proposed Site Driveway

 On-site, construct one (1) westbound shared left-turn/through/right-turn lane exiting the site onto Memorial Drive (SR 154 / SR 10) and one (1) ingress lane entering the site.



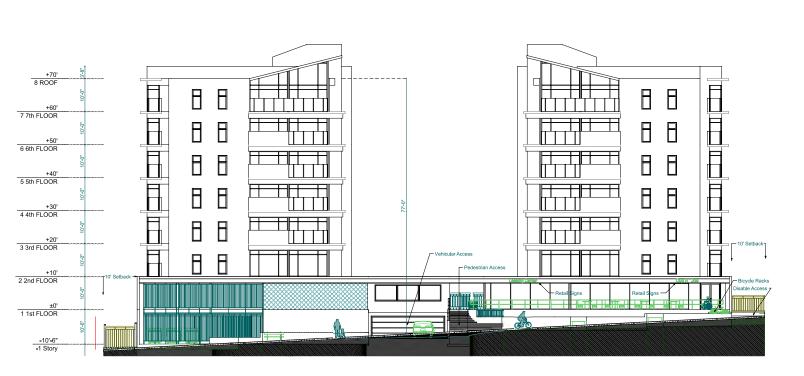
APPENDIX A

Site Plan





Roof Plan image



East Elevation 3/32" = 1'-0"

Kensington Station, LLC. 160 Clairmont Ave. #239 Decatur, GA 30030 OWNER / DEVELOPER: **ZONING LEGEND:** PROPOSED ZONING: Alejandro Remos, RA 18501 Pines Blvd. #107 Pembroke Pines, FL 33029 ARCHITECT: SITE AREA: 2.3+/- acres, 99,065 SF DENSITY ALLOWED: 120 units/acre = 276 units DENSITY PROPOSED: 95 units/acre = 220 units OPEN SPACE REQUIRED: OPEN SPACE PROVIDED: 18.4 % + 8,308 SF Open Area Plaza Level LOT COVERAGE ALLOWED: 85.00 % LOT COVERAGE PROVIDED: 81.60 % LOT WIDTH REQUIRED: 100 FT. LOT WIDTH PROVIDED: 200.33 FT. BUILDING HEIGHT ALLOWED: **BUILDING HEIGHT PROPOSED:** 77 FT. - 7 Stories (Height to last floor level = 67 FT) PARKING REQUIRED: 330 Spaces PARKING PROVIDED: 348 Spaces (Retail 19 Spaces) Required: 1/20 Car Spaces = 348/20 = 17.4 Provided: 20 Bicycle Racks BICYCLE RACKS 262,136 SF BUILDING AREA: BALCONY AREA: 11,410 SF PARKING GARAGE AREA: 161,670 SF **UNIT MIX:** FIRST FLOOR RETAIL AREA: 2,474 SF **UNIT A TOTAL 59** ONE BEDROOM APARTMENT 612 SF **UNIT B TOTAL 108** TWO BEDROOM APARTMENT 942 SF **UNIT C TOTAL 53** 1,259 SF THREE BEDROOM APARTMENT

REMOS architects Alajandro Remos R.A. 0011702 -18501 Pines Btd., Sulle 107 Pembroke Pines Btd., Sulle 107

Memorial Drive - Apartments

4213 Memorial Dr. Decatur, GA 30032

CONSULTANTS:

ALBERTO CHINCHILLA
architect

JANNETH ARDILA architect

-18501 Pines Blvd., Suite 107 Pembroke Pines FL. 33029

STRUCTURAL ENG.:

M.E.P. ENG.:

CIVIL ENG.:

LANDSCAPE ARCH.:

SEAL:

A.R. 0011702

REVISIONS:

Project No:	AT.010
Model File:	
Drawn by:	J.A.C
Approved by:	A.R.
Date:	5/31/2018
Scale:	Shown

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Content

Roof Plan Image
East Elevation
Zoning Legend

Sheet Title

A-101

Sheet Number

1

APPENDIX B

Intersection Volume Worksheets

Trip Generation Analysis (10th Ed. with 2nd Edition Handbook Daily IC & 3rd Edition AM/PM IC) 4213 Memorial Drive DeKalb County, GA

Land Use	Intensity	Daily	AN	1 Peak H	our	PM	I Peak H	our
		Trips	Total	In	Out	Total	In	Out
Proposed Site Traffic								
221 Multifamily Housing (Mid-Rise)	220 d.u.	1,198	74	19	55	94	57	37
930 Fast Casual Restaurant	2,474 s.f.	780	5	3	2	35	19	16
								<u> </u>
Gross Trips		1,978	79	22	57	129	76	53
Residential Trips		1,198	74	19	55	94	57	37
Mixed-Use Reductions		-78	0	0	0	-2	-1	-1
Alternative Mode Reductions		-280	-19	-5	-14	-23	-14	-9
Adjusted Residential Trips		840	55	14	41	69	42	27
Restaurant Trips		780	5	3	2	35	19	16
Mixed-Use Reductions		-78	0	0	0	-2	-1	-1
Alternative Mode Reductions		-176	-1	-1	-1	-8	-5	-4
Pass By Reductions (Based on ITE Rates)		0	0	0	0	0	0	0
Adjusted Restaurant Trips		526	4	2	1	25	13	11
Maria I II Dada da ara TOTAI		157	0	0	0	1	2	1
Mixed-Use Reductions - TOTAL		-156	V	0	V	-4	-2	-2
Alternative Mode Reductions - TOTAL		-456	-20	-6	-15	-31	-19	-13
Pass-By Reductions - TOTAL		0	0	0	0	0	0	0
New Trips		1,366	59	16	42	94	55	38
Driveway Volumes		1,366	59	16	42	94	55	38

k:\alp_tpto\013184000_4213 memorial drive - dekalb county - june 2018\analysis\[4213 memorial drive-analysis-221&820.xls]trip generation

INTERSECTION VOLUME DEVELOPMENT

Intersection 1

Memorial Drive at Kensington Road AM PEAK HOUR

		Memorial Dr		Memorial Dr Southbound			Kensington Rd			Kensington Rd Westbound		
Di4i	Left L	Northboun Through	<u>a</u> Right	Left		<u>a</u> Right	Left	Eastbound Through	<u>1</u> Right	Left	Through	<u>a</u> Right
Description	Leit	Inrougn	Rignt	Leit	Through	Kigni	Lett	Inrougn	Kignt	Len	Inrougn	Kignt
Observed 2018 Traffic Volumes	30	988	60	60	1.104	52	33	54	13	198	223	124
Pedestrians		24	00		5			23	10	170	2	12.
Conflicting Pedestrians	23		2	2		23	5		24	24		5
Heavy Vehicles												
Heavy Vehicle %	17%	2%	8%	10%	4%	23%	36%	7%	31%	6%	3%	4%
Peak Hour Factor		0.90			0.90			0.90			0.90	
Adjustment												
Adjusted 2018 Volumes	30	988	60	60	1104	52	33	54	13	198	223	124
Annual Growth Rate	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%
Growth Factor	1.020	1.020	1.020	1.020	1.020	1.020	1.020	1.020	1.020	1.020	1.020	1.020
2020 Background Traffic	31	1,008	61	61	1,126	53	34	55	13	202	227	126
Project Trips												
Trip Distribution IN					40%				30%	5%		
Trip Distribution OUT	30%	40%	5%									
Residential Trips	12	16	2	0	6	0	0	0	4	1	0	0
Trip Distribution IN					40%				30%	5%		
Trip Distribution OUT	30%	40%	5%									
Restaurant Trips	0	0	0	0	1	0	0	0	1	0	0	0
Total Project Trips	12	16	2	0	7	0	0	0	5	1	0	0
2020 Buildout Total	43	1,024	63	61	1,133	53	34	55	18	203	227	126

PM PEAK HOUR

		Aemorial I I orthboun		-	Aemorial E Southboun			ensington l Eastboun d			ensington I Westbound		
Description	Left	Through	Right	Left	Through	Right	Left	Through	Right	Left	Through	Right	
Observed 2018 Traffic Volumes	23	960	149	116	1.148	32	45	195	22	109	65	122	
	23	, , , ,	149	116	, -	32	45	-7,0	22	109		132	
Pedestrians	2.5	26	_		8	2.5		36	2.5	5			
Conflicting Pedestrians	36		5	5		36	8		26	26		8	
Heavy Vehicles													
Heavy Vehicle %	32%	2%	5%	2%	2%	32%	20%	2%	12%	9%	4%	4%	
Peak Hour Factor		0.98			0.98			0.98		0.98			
Adjustment													
Adjusted 2018 Volumes	23	960	149	116	1148	32	45	195	22	109	65	132	
Annual Growth Rate	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	
Growth Factor	1.020	1.020	1.020	1.020	1.020	1.020	1.020	1.020	1.020	1.020	1.020	1.020	
2020 Background Traffic	23	979	152	118	1,171	33	46	199	22	111	66	135	
Project Trips													
Trip Distribution IN					40%				30%	5%			
Trip Distribution OUT	30%	40%	5%										
Residential Trips	8	11	1	0	17	0	0	0	13	2	0	0	
Trip Distribution IN					40%				30%	5%			
Trip Distribution OUT	30%	40%	5%										
Restaurant Trips	3	4	1	0	5	0	0	0	4	1	0	0	
Total Project Trips	11	15	2	0	22	0	0	0	17	3	0	0	
2020 Buildout Total	34	994	154	118	1,193	33	46	199	39	114	66	135	

INTERSECTION VOLUME DEVELOPMENT

Intersection 2

Memorial Drive at Proposed Site Driveway AM PEAK HOUR

		Memorial D Northboun			Memorial I			sed Site Dr Eastbound			sed Site Dr Westboun	
Description	Left	Through	u Right	Left	Through	u Right	Left	Through	Right	Left	Through	Right
•												
Observed 2018 Traffic Volumes		1,078			1,315							
Pedestrians												
Conflicting Pedestrians	0		0	0		0	0		0	0		0
Heavy Vehicles												
Heavy Vehicle %	2%	2%	2%	2%	2%	2%	2%	2%	2%	2%	2%	2%
Peak Hour Factor		0.92			0.92			0.92		0.92		
Adjustment												
Adjusted 2018 Volumes	0	1078	0	0	1315	0	0	0	0	0	0	0
Annual Growth Rate	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%
Growth Factor	1.020	1.020	1.020	1.020	1.020	1.020	1.020	1.020	1.020	1.020	1.020	1.020
2020 Background Traffic	0	1,100	0	0	1,341	0	0	0	0	0	0	0
Project Trips												
Trip Distribution IN			25%	75%								
Trip Distribution OUT										25%		75%
Residential Trips	0	0	4	11	0	0	0	0	0	10	0	31
Trip Distribution IN			25%	75%								
Trip Distribution OUT										25%		75%
Restaurant Trips	0	0	1	2	0	0	0	0	0	0	0	1
Total Project Trips	0	0	5	13	0	0	0	0	0	10	0	32
2020 Buildout Total	0	1,100	5	13	1,341	0	0	0	0	10	0	32

PM PEAK HOUR

	N	Aemorial I)r	N	Aemorial I)r	Propos	sed Site Dr	iveway	Propos	sed Site Dri	iveway
	1	Northboun	d	<u>s</u>	outhboun	<u>d</u>		Eastbound	<u>l</u>	Westbound		
Description	Left	Through	Right	Left	Through	Right	Left	Through	Right	Left	Through	Right
Observed 2018 Traffic Volumes		1,132			1,279							
Pedestrians												
Conflicting Pedestrians	0		0	0		0	0		0	0		0
Heavy Vehicles												
Heavy Vehicle %	2%	2%	2%	2%	2%	2%	2%	2%	2%	2%	2%	2%
Peak Hour Factor		0.92			0.92		0.92			0.92		
Adjustment												
Adjusted 2018 Volumes	0	1132	0	0	1279	0	0	0	0	0	0	0
Annual Growth Rate	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%
Growth Factor	1.020	1.020	1.020	1.020	1.020	1.020	1.020	1.020	1.020	1.020	1.020	1.020
2020 Background Traffic	0	1,155	0	0	1,305	0	0	0	0	0	0	0
Project Trips												
Trip Distribution IN			25%	75%								
Trip Distribution OUT										25%		75%
Residential Trips	0	0	11	32	0	0	0	0	0	7	0	20
Trip Distribution IN			25%	75%								
Trip Distribution OUT										25%		75%
Restaurant Trips	0	0	3	10	0	0	0	0	0	3	0	8
Total Project Trips	0	0	14	42	0	0	0	0	0	10	0	28
2020 Buildout Total	0	1,155	14	42	1,305	0	0	0	0	10	0	28

APPENDIX C

Synchro Analysis Reports

	۶	→	•	•	←	•	•	†	~	/		
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	7	∱ ∱		ሻ	ተ ኈ		ሻ	↑ ↑₽		ሻ	↑ ↑₽	
Traffic Volume (veh/h)	33	54	13	198	223	124	30	988	60	60	1104	52
Future Volume (veh/h)	33	54	13	198	223	124	30	988	60	60	1104	52
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	0.98		0.96	0.97		0.97	1.00		0.99	1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1397	1703	1900	1792	1838	1900	1624	1856	1900	1727	1812	1900
Adj Flow Rate, veh/h	37	60	14	220	248	138	33	1098	67	67	1227	58
Adj No. of Lanes	1	2	0	1	2	0	1	3	0	1	3	0
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Percent Heavy Veh, %	36	7	7	6	3	3	17	2	2	10	4	4
Cap, veh/h	196	485	109	410	512	274	215	2490	152	259	2515	119
Arrive On Green	0.04	0.19	0.19	0.09	0.24	0.24	0.02	0.51	0.51	0.03	0.52	0.52
Sat Flow, veh/h	1331	2607	584	1707	2174	1162	1547	4880	298	1645	4837	229
Grp Volume(v), veh/h	37	36	38	220	197	189	33	760	405	67	836	449
Grp Sat Flow(s), veh/h/ln	1331	1618	1573	1707	1746	1590	1547	1689	1799	1645	1649	1768
Q Serve(g_s), s	3.5	3.0	3.2	15.0	15.6	16.5	1.6	22.7	22.8	3.1	26.1	26.1
Cycle Q Clear(g_c), s	3.5	3.0	3.2	15.0	15.6	16.5	1.6	22.7	22.8	3.1	26.1	26.1
Prop In Lane	1.00		0.37	1.00		0.73	1.00		0.17	1.00		0.13
Lane Grp Cap(c), veh/h	196	301	292	410	411	375	215	1724	918	259	1715	919
V/C Ratio(X)	0.19	0.12	0.13	0.54	0.48	0.50	0.15	0.44	0.44	0.26	0.49	0.49
Avail Cap(c_a), veh/h	262	504	490	410	544	495	303	1724	918	326	1715	919
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.93	0.93	0.93
Uniform Delay (d), s/veh	49.5	54.2	54.3	46.6	52.7	53.0	19.8	24.8	24.8	19.5	24.7	24.7
Incr Delay (d2), s/veh	0.5	0.2	0.2	1.4	0.9	1.0	0.3	0.8	1.5	0.5	0.9	1.7
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.3	1.4	1.4	1.4	7.6	7.3	0.7	10.8	11.6	1.4	12.1	13.1
LnGrp Delay(d),s/veh	50.0	54.4	54.5	48.0	53.6	54.1	20.1	25.6	26.3	20.0	25.6	26.4
LnGrp LOS	D	D	D	D	D	D	С	С	С	В	С	С
Approach Vol, veh/h		111			606			1198			1352	
Approach Delay, s/veh		53.0			51.7			25.7			25.6	
Approach LOS		D			D			С			С	
Timer	1	2	3	4	5	6	7	8				
Assigned Phs	1	2	3	4	5	6	7	8				
Phs Duration (G+Y+Rc), s	11.5	89.5	22.0	37.0	9.9	91.1	14.1	44.9				
Change Period (Y+Rc), s	* 6.6	7.9	* 7	7.2	* 6.1	7.9	7.6	7.2				
Max Green Setting (Gmax), s	* 11	55.1	* 15	49.8	* 13	54.1	14.4	49.8				
Max Q Clear Time (g_c+I1), s	5.1	24.8	17.0	5.2	3.6	28.1	5.5	18.5				
Green Ext Time (p_c), s	0.1	19.9	0.0	3.0	0.0	17.9	0.0	2.9				
Intersection Summary												
HCM 2010 Ctrl Delay			31.4									
HCM 2010 LOS			С									
Notes												

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Intersection						
Int Delay, s/veh	0					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	WDL	אטוע	↑ ↑↑	אטול	JDL	†††
Traffic Vol, veh/h	0	0	1078	0	0	1315
Future Vol, veh/h	0	0	1078	0	0	1315
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	Stop -	None	-	None	-	None
Storage Length	0	None -	-	None -	-	None
Veh in Median Storage			0		-	0
Grade, %		-		-	-	0
	92		92	92		92
Peak Hour Factor		92			92	
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	0	1172	0	0	1429
Major/Minor N	Minor1	N	Najor1	N	/lajor2	
Conflicting Flow All	1744	586	0		-	
Stage 1	1172	-	-	_	_	_
Stage 2	572	_	_	_	_	_
Critical Hdwy	5.74	7.14	_			
Critical Hdwy Stg 1	6.64	7.14	_	_	_	
Critical Hdwy Stg 2	6.04		_			
	3.82	3.92			-	-
Follow-up Hdwy	128	3.92	-	-	-	
Pot Cap-1 Maneuver			-	0	0	-
Stage 1	190	-	-	0	0	-
Stage 2	482	-	-	0	0	-
Platoon blocked, %	400	000	-			-
Mov Cap-1 Maneuver	128	389	-	-	-	-
Mov Cap-2 Maneuver	165	-	-	-	-	-
Stage 1	190	-	-	-	-	-
Stage 2	482	-	-	-	-	-
Approach	WB		NB		SB	
	0		0		0	
HCM Control Delay, s HCM LOS	A		U		U	
HCIVI LU3	А					
Minor Lane/Major Mvm	ıt	NBTV	VBLn1	SBT		
Capacity (veh/h)		-	_			
HCM Lane V/C Ratio		_	_			
HCM Control Delay (s)		-	0	-		
HCM Lane LOS		_	A	_		
HCM 95th %tile Q(veh))	_	-	_		
HOW 75th 70the Q(Veh))		_	_		

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		→	•	•	←	•	•	†	~	\	↓	✓
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	,	∱ }		ħ	ħβ		ň	↑ ↑		¥	ተተ _ጉ	
Traffic Volume (veh/h)	45	195	22	109	65	132	23	960	149	116	1148	32
Future Volume (veh/h)	45	195	22	109	65	132	23	960	149	116	1148	32
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	0.98		0.96	0.98		0.97	1.00		0.98	1.00		0.98
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1583	1845	1900	1743	1827	1900	1439	1855	1900	1863	1848	1900
Adj Flow Rate, veh/h	46	199	22	111	66	135	23	980	152	118	1171	33
Adj No. of Lanes	1	2	0	1	2	0	1	3	0	1	3	0
Peak Hour Factor	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
Percent Heavy Veh, %	20	2	2	9	4	4	32	2	2	2	2	2
Cap, veh/h	262	680	74	322	401	347	209	2191	339	300	2647	75
Arrive On Green	0.04	0.21	0.21	0.06	0.23	0.23	0.02	0.50	0.50	0.05	0.53	0.53
Sat Flow, veh/h	1508	3175	346	1660	1736	1501	1371	4412	682	1774	5040	142
Grp Volume(v), veh/h	46	109	112	111	66	135	23	749	383	118	781	423
Grp Sat Flow(s), veh/h/ln	1508	1753	1768	1660	1736	1501	1371	1688	1717	1774	1682	1819
Q Serve(g_s), s	3.7	8.3	8.5	8.3	4.9	12.2	1.3	23.0	23.1	5.2	23.0	23.0
Cycle Q Clear(g_c), s	3.7	8.3	8.5	8.3	4.9	12.2	1.3	23.0	23.1	5.2	23.0	23.0
Prop In Lane	1.00		0.20	1.00		1.00	1.00		0.40	1.00		0.08
Lane Grp Cap(c), veh/h	262	376	379	322	401	347	209	1677	853	300	1766	955
V/C Ratio(X)	0.18	0.29	0.30	0.35	0.16	0.39	0.11	0.45	0.45	0.39	0.44	0.44
Avail Cap(c_a), veh/h	332	545	550	371	540	467	292	1677	853	346	1766	955
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.93	0.93	0.93
Uniform Delay (d), s/veh	45.7	52.6	52.7	44.9	49.1	51.9	20.1	26.1	26.1	20.2	23.5	23.5
Incr Delay (d2), s/veh	0.3	0.4	0.4	0.6	0.2	0.7	0.2	0.9	1.7	0.8	0.8	1.4
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.6	4.1	4.2	3.8	2.3	5.1	0.5	10.9	11.3	2.6	10.8	11.9
LnGrp Delay(d),s/veh	46.1	53.1	53.2	45.5	49.3	52.7	20.4	26.9	27.8	20.9	24.3	24.9
LnGrp LOS	D	<u>D</u>	D	D	D	D	С	С	С	С	С	С
Approach Vol, veh/h		267			312			1155			1322	
Approach Delay, s/veh		51.9			49.4			27.1			24.2	
Approach LOS		D			D			С			С	
Timer	1	2	3	4	5	6	7	8				
Assigned Phs	1	2	3	4	5	6	7	8				
Phs Duration (G+Y+Rc), s	13.9	87.4	17.3	41.5	9.3	91.9	14.6	44.2				
Change Period (Y+Rc), s	* 6.6	7.9	* 7	7.2	* 6.1	7.9	7.6	7.2				
Max Green Setting (Gmax), s	* 11	55.1	* 15	49.8	* 13	54.1	14.4	49.8				
Max Q Clear Time (g_c+I1), s	7.2	25.1	10.3	10.5	3.3	25.0	5.7	14.2				
Green Ext Time (p_c), s	0.1	18.8	0.1	2.7	0.0	18.5	0.0	2.6				
Intersection Summary												
HCM 2010 Ctrl Delay			30.3									
HCM 2010 LOS			С									
Notes												

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Lane Configurations		۶	→	•	•	—	•	1	†	/	/	↓	✓
Traffic Volume (veh/h) 34 55 13 202 227 126 31 1008 61 61 1126 53 Number future Volume (veh/h) 34 55 13 202 227 126 31 1008 61 61 1126 53 Number 7 4 14 14 3 8 18 5 2 12 12 1 6 16 Initial O(Db), veh 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Traffic Volume (veh/h) 34 55 13 202 227 126 31 1008 61 61 1126 53 Number	Lane Configurations	7	∱ β		ሻ	∱ ∱		ሻ	↑ ↑↑		7	ተተኈ	
Number 7 4 14 3 8 8 18 5 2 12 1 1 6 16 Initial O (Ob), veh 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		34		13	202		126	31		61	61		53
Initial O (Ob), veh	Future Volume (veh/h)	34	55	13	202	227	126	31	1008	61	61	1126	53
Ped-Bike Adj(A_pbT)	Number	7	4	14	3	8	18	5	2	12	1	6	16
Parking Bus, Acj 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Adj Sai Flow, vehrh/In 1397 1704 1900 1792 1838 1900 1624 1856 1900 1727 1812 1900 Adj Flow Rale, vehr/h 38 61 14 224 252 140 34 1120 68 68 68 1251 5 9 0 12 2 0 1 1 3 0 1 3 0 1 3 3 0 Paak Hour Factor 0.90 0.90 0.90 0.90 0.90 0.90 0.90 0.9	Ped-Bike Adj(A_pbT)	0.98		0.96	0.97		0.97	1.00		0.99	1.00		0.99
Adj Flow Rate, veh/h Adj No of Lanes 1 2 0 1 2 0 0 1 3 0 1 3 0 1 3 0 0 Peak Hour Factor 0.90 0.90 0.90 0.90 0.90 0.90 0.90 0.90	Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj No. of Lanes	Adj Sat Flow, veh/h/ln	1397	1704	1900	1792	1838	1900	1624	1856	1900	1727	1812	1900
Peak Hour Factor 0.90 0.90 0.90 0.90 0.90 0.90 0.90 0.9	Adj Flow Rate, veh/h	38		14	224	252	140	34	1120	68	68	1251	59
Percent Heavy Veh, % 36 7 7 6 3 3 3 17 2 2 10 4 4 4 Cap, veh/h 195 490 108 410 514 274 210 2484 151 254 2509 118 Arrive On Green 0.04 0.19 0.19 0.09 0.24 0.24 0.02 0.51 0.51 0.51 0.03 0.52 0.52 Sat Flow, veh/h 1331 2618 577 1707 2175 1162 1547 4882 296 1645 4838 228 Grp Volume(v), veh/h 38 37 38 224 200 192 34 775 413 68 853 457 Grp Sat Flow(s), veh/h/ln 1331 1619 1575 1707 1746 1590 1547 1689 1799 1645 1649 1768 Q Serve(g.S.) s 3.6 3.0 3.2 15.0 15.8 16.7 1.7 23.4 23.4 3.2 26.9 26.9 Cycle Q Clear(g.c), s 3.6 3.0 3.2 15.0 15.8 16.7 1.7 23.4 23.4 3.2 26.9 26.9 Prop In Lane 1.00 0.37 1.00 0.73 1.00 0.73 1.00 0.16 1.00 1.00 1.00 1.00 1.00 1.00	Adj No. of Lanes	1	2	0	1	2	0	1	3	0	1	3	0
Cap, veh/h Arrive On Green Ond Ond Ond Ond Ond Ond Ond Ond Ond On	Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Arrive On Green	Percent Heavy Veh, %	36	7	7	6	3	3	17	2	2	10	4	4
Sat Flow, veh/h 1331 2618 577 1707 2175 1162 1547 4882 296 1645 4838 228 Grp Volume(v), veh/h 38 37 38 224 200 192 34 775 413 68 853 457 Grp Sat Flow(s), veh/h/ln 1331 1619 1575 1707 1746 1590 1547 1689 1799 1645 1649 1768 Q Serve(g.s.) 3.6 3.0 3.2 15.0 15.8 16.7 1.7 23.4 23.4 3.2 26.9 26.9 Cycle O Clear(g.c.) 3.6 3.0 3.2 15.0 15.8 16.7 1.7 23.4 23.4 3.2 26.9 26.9 Prop In Lane 1.00 0.37 1.00 0.073 1.00 0.01 0.01 0.01 0.073 1.00 0.01 0.01 0.01 0.073 1.00 1.00 1.00 1.00 1.00 1.00<	Cap, veh/h	195	490	108	410	514	274	210	2484	151	254	2509	118
Grp Volume(v), veh/h 38 37 38 224 200 192 34 775 413 68 853 457 Grp Sat Flow(s), veh/h/ln 1331 1619 1575 1707 1746 1590 1547 1689 1799 1645 1649 1768 O Serve(g_s), s 3.6 3.0 3.2 15.0 15.8 16.7 1.7 23.4 23.4 3.2 26.9 26.9 Cycle O Clear(g_c), s 3.6 3.0 3.2 15.0 15.8 16.7 1.7 23.4 23.4 3.2 26.9 26.9 Prop In Lane 1.00 0.37 1.00 0.37 1.00 0.16 1.00 0.13 Lane Grp Cap(c), veh/h 195 303 295 410 413 376 210 1719 915 254 1710 917 V/C Ratio(X) 0.19 0.12 0.13 0.55 0.49 0.51 0.16 0.45 0.45 0.27 0.50 0.50 Avail Cap(c_a), veh/h 260 504 490 410 544 495 298 1719 915 320 1710 917 HCM Platoon Ratio 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	Arrive On Green	0.04	0.19	0.19	0.09	0.24	0.24	0.02	0.51	0.51	0.03	0.52	0.52
Grp Sat Flow(s), veh/h/ln 1331 1619 1575 1707 1746 1590 1547 1689 1799 1645 1649 1768 O Serve(g_s), s 3.6 3.0 3.2 15.0 15.8 16.7 1.7 23.4 23.4 3.2 26.9 26.9 Cycle O Clear(g_c), s 3.6 3.0 3.2 15.0 15.8 16.7 1.7 23.4 23.4 3.2 26.9 26.9 Prop In Lane 1.00 0.37 1.00 0.73 1.00 0.16 1.00 0.13 Lane Grp Cap(c), veh/h 195 303 295 410 413 376 210 1719 915 254 1710 917 V/C Ratio(X) 0.19 0.12 0.13 0.55 0.49 0.51 0.16 0.45 0.45 0.27 0.50 0.50 Avail Cap(c_a), veh/h 260 504 490 410 544 495 298 1719 915 320 17710 917 HCM Platon Ratio 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	Sat Flow, veh/h	1331	2618	577	1707	2175	1162	1547	4882	296	1645	4838	228
Q Serve(g_s), s	Grp Volume(v), veh/h	38	37	38	224	200	192	34	775	413	68	853	457
Q Serve(g_s), s	Grp Sat Flow(s), veh/h/ln	1331	1619	1575	1707	1746	1590	1547	1689	1799	1645	1649	1768
Prop In Lane 1.00 0.37 1.00 0.73 1.00 0.73 1.00 0.16 1.00 0.13 Lane Grp Cap(c), veh/h 195 303 295 410 413 376 210 1719 915 254 1710 917 V/C Ratio(X) 0.19 0.12 0.13 0.55 0.49 0.51 0.16 0.45 0.45 0.45 0.27 0.50 0.50 0.84 208 1719 915 320 1710 917 HCM Platoon Ratio 1.00 1.0		3.6	3.0	3.2	15.0	15.8	16.7	1.7	23.4	23.4	3.2	26.9	26.9
Lane Grp Cap(c), veh/h 195 303 295 410 413 376 210 1719 915 254 1710 917 V/C Ratio(X) 0.19 0.12 0.13 0.55 0.49 0.51 0.16 0.45 0.45 0.27 0.50 0.50 0.50 0.49 0.51 0.16 0.45 0.45 0.27 0.50 0.50 0.50 0.50 0.49 0.51 0.16 0.45 0.45 0.27 0.50 0.50 0.50 0.50 0.49 0.51 0.16 0.45 0.45 0.27 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.5	Cycle Q Clear(g_c), s	3.6	3.0	3.2	15.0	15.8	16.7	1.7	23.4	23.4	3.2	26.9	26.9
V/C Ratio(X) 0.19 0.12 0.13 0.55 0.49 0.51 0.16 0.45 0.27 0.50 0.50 Avail Cap(c_a), veh/h 260 504 490 410 544 495 298 1719 915 320 1710 917 HCM Platoon Ratio 1.00 <td< td=""><td>Prop In Lane</td><td>1.00</td><td></td><td>0.37</td><td>1.00</td><td></td><td>0.73</td><td>1.00</td><td></td><td>0.16</td><td>1.00</td><td></td><td>0.13</td></td<>	Prop In Lane	1.00		0.37	1.00		0.73	1.00		0.16	1.00		0.13
Avail Cap(c_a), veh/h	Lane Grp Cap(c), veh/h	195	303	295	410	413	376	210	1719	915	254	1710	917
HCM Platoon Ratio	V/C Ratio(X)											0.50	0.50
Upstream Filter(I)	Avail Cap(c_a), veh/h	260	504	490	410	544	495	298	1719	915	320	1710	917
Uniform Delay (d), s/veh	HCM Platoon Ratio	1.00	1.00			1.00		1.00	1.00	1.00		1.00	1.00
Incr Delay (d2), s/veh	Upstream Filter(I)							1.00					0.93
Initial Q Delay(d3),s/veh 0.0 <td>Uniform Delay (d), s/veh</td> <td></td> <td>54.1</td> <td></td> <td></td> <td></td> <td>53.1</td> <td></td> <td></td> <td>25.1</td> <td></td> <td>25.0</td> <td>25.0</td>	Uniform Delay (d), s/veh		54.1				53.1			25.1		25.0	25.0
%ile BackOfQ(50%),veh/ln 1.4 1.4 1.4 1.6 7.7 7.5 0.7 11.1 12.0 1.5 12.4 13.5 LnGrp Delay(d),s/veh 49.8 54.3 54.4 48.2 53.6 54.1 20.4 25.9 26.7 20.2 26.0 26.8 LnGrp LOS D D D D D C													1.8
LnGrp Delay(d),s/veh 49.8 54.3 54.4 48.2 53.6 54.1 20.4 25.9 26.7 20.2 26.0 26.8 LnGrp LOS D D D D D D C </td <td></td>													
LnGrp LOS D D D D D D D C													
Approach Vol, veh/h Approach Delay, s/veh Approach Delay, s/veh Approach LOS D D C C C Timer 1 2 3 4 5 6 7 8 Assigned Phs 1 2 3 4 5 6 7 8 Phs Duration (G+Y+Rc), s 11.6 89.3 22.0 37.1 10.0 90.9 14.1 45.0 Change Period (Y+Rc), s 46.6 7.9 47 7.2 46.1 7.9 7.6 7.2 Max Green Setting (Gmax), s 11 55.1 15 49.8 13 54.1 14.4 49.8 Max Q Clear Time (g_c+I1), s 5.2 25.4 17.0 5.2 3.7 28.9 5.6 18.7 Green Ext Time (p_c), s 0.1 20.1 0.0 3.0 0.0 17.9 0.0 2.9 Intersection Summary HCM 2010 Ctrl Delay HCM 2010 Ctrl Delay HCM 2010 LOS C	1 3 . ,												
Approach Delay, s/veh Approach LOS D D C C C Timer 1 2 3 4 5 6 7 8 Assigned Phs Phs Duration (G+Y+Rc), s 11.6 89.3 22.0 37.1 10.0 90.9 14.1 45.0 Change Period (Y+Rc), s 6 7.2 Max Green Setting (Gmax), s 11 55.1 15.1 15.1 15.1 15.1 15.1 15.1	LnGrp LOS	D	D	D	D	D	D	С	С	С	С	С	С
Approach LOS D D C C Timer 1 2 3 4 5 6 7 8 Assigned Phs 1 2 3 4 5 6 7 8 Phs Duration (G+Y+Rc), s 11.6 89.3 22.0 37.1 10.0 90.9 14.1 45.0 Change Period (Y+Rc), s *6.6 7.9 *7 7.2 *6.1 7.9 7.6 7.2 Max Green Setting (Gmax), s *11 55.1 *15 49.8 *13 54.1 14.4 49.8 Max Q Clear Time (g_c+l1), s 5.2 25.4 17.0 5.2 3.7 28.9 5.6 18.7 Green Ext Time (p_c), s 0.1 20.1 0.0 3.0 0.0 17.9 0.0 2.9 Intersection Summary HCM 2010 Ctrl Delay 31.7 HCM 2010 LOS C	Approach Vol, veh/h								1222			1378	
Timer 1 2 3 4 5 6 7 8 Assigned Phs 1 2 3 4 5 6 7 8 Phs Duration (G+Y+Rc), s 11.6 89.3 22.0 37.1 10.0 90.9 14.1 45.0 Change Period (Y+Rc), s * 6.6 7.9 * 7 7.2 * 6.1 7.9 7.6 7.2 Max Green Setting (Gmax), s * 11 55.1 * 15 49.8 * 13 54.1 14.4 49.8 Max Q Clear Time (g_c+l1), s 5.2 25.4 17.0 5.2 3.7 28.9 5.6 18.7 Green Ext Time (p_c), s 0.1 20.1 0.0 3.0 0.0 17.9 0.0 2.9 Intersection Summary HCM 2010 LOS C C	Approach Delay, s/veh		52.8			51.8							
Assigned Phs 1 2 3 4 5 6 7 8 Phs Duration (G+Y+Rc), s 11.6 89.3 22.0 37.1 10.0 90.9 14.1 45.0 Change Period (Y+Rc), s *6.6 7.9 *7 7.2 *6.1 7.9 7.6 7.2 Max Green Setting (Gmax), s *11 55.1 *15 49.8 *13 54.1 14.4 49.8 Max Q Clear Time (g_c+I1), s 5.2 25.4 17.0 5.2 3.7 28.9 5.6 18.7 Green Ext Time (p_c), s 0.1 20.1 0.0 3.0 0.0 17.9 0.0 2.9 Intersection Summary HCM 2010 Ctrl Delay 31.7 HCM 2010 LOS C	Approach LOS		D			D			С			С	
Phs Duration (G+Y+Rc), s 11.6 89.3 22.0 37.1 10.0 90.9 14.1 45.0 Change Period (Y+Rc), s * 6.6 7.9 * 7 7.2 * 6.1 7.9 7.6 7.2 Max Green Setting (Gmax), s * 11 55.1 * 15 49.8 * 13 54.1 14.4 49.8 Max Q Clear Time (g_c+I1), s 5.2 25.4 17.0 5.2 3.7 28.9 5.6 18.7 Green Ext Time (p_c), s 0.1 20.1 0.0 3.0 0.0 17.9 0.0 2.9 Intersection Summary HCM 2010 Ctrl Delay 31.7 HCM 2010 LOS C	Timer	1	2	3	4	5	6	7	8				
Phs Duration (G+Y+Rc), s 11.6 89.3 22.0 37.1 10.0 90.9 14.1 45.0 Change Period (Y+Rc), s * 6.6 7.9 * 7 7.2 * 6.1 7.9 7.6 7.2 Max Green Setting (Gmax), s * 11 55.1 * 15 49.8 * 13 54.1 14.4 49.8 Max Q Clear Time (g_c+I1), s 5.2 25.4 17.0 5.2 3.7 28.9 5.6 18.7 Green Ext Time (p_c), s 0.1 20.1 0.0 3.0 0.0 17.9 0.0 2.9 Intersection Summary HCM 2010 Ctrl Delay 31.7 HCM 2010 LOS C	Assigned Phs	1	2	3	4	5	6	7	8				
Max Green Setting (Gmax), s * 11 55.1 * 15 49.8 * 13 54.1 14.4 49.8 Max Q Clear Time (g_c+l1), s 5.2 25.4 17.0 5.2 3.7 28.9 5.6 18.7 Green Ext Time (p_c), s 0.1 20.1 0.0 3.0 0.0 17.9 0.0 2.9 Intersection Summary HCM 2010 Ctrl Delay 31.7 HCM 2010 LOS C	Phs Duration (G+Y+Rc), s	11.6	89.3	22.0	37.1	10.0	90.9	14.1	45.0				
Max Green Setting (Gmax), s * 11 55.1 * 15 49.8 * 13 54.1 14.4 49.8 Max Q Clear Time (g_c+l1), s 5.2 25.4 17.0 5.2 3.7 28.9 5.6 18.7 Green Ext Time (p_c), s 0.1 20.1 0.0 3.0 0.0 17.9 0.0 2.9 Intersection Summary HCM 2010 Ctrl Delay 31.7 HCM 2010 LOS C	Change Period (Y+Rc), s	* 6.6	7.9	* 7	7.2	* 6.1	7.9	7.6	7.2				
Green Ext Time (p_c), s 0.1 20.1 0.0 3.0 0.0 17.9 0.0 2.9 Intersection Summary HCM 2010 Ctrl Delay 31.7 HCM 2010 LOS C				* 15		* 13							
Green Ext Time (p_c), s 0.1 20.1 0.0 3.0 0.0 17.9 0.0 2.9 Intersection Summary HCM 2010 Ctrl Delay 31.7 HCM 2010 LOS C				17.0		3.7	28.9	5.6	18.7				
HCM 2010 Ctrl Delay 31.7 HCM 2010 LOS C	·0= ,												
HCM 2010 Ctrl Delay 31.7 HCM 2010 LOS C	Intersection Summary												
HCM 2010 LOS C				31.7									
	Notes												

Intersection						
Int Delay, s/veh	0			_		
		MDD	NET	NDD	CDI	CDT
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	¥		ተተተ			ተተተ
Traffic Vol, veh/h	0	0	1100	0	0	1341
Future Vol, veh/h	0	0	1100	0	0	1341
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	_	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storag		-	0	_	_	0
Grade, %	0	-	0	-	-	0
	92	92	92	92	92	92
Peak Hour Factor						
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	0	1196	0	0	1458
Major/Minor	Minor1	N	/lajor1	N	/lajor2	
Conflicting Flow All	1779	598	0	-	-	-
Stage 1	1196	-	-	-	-	-
Stage 2	583		-	-	-	-
Critical Hdwy	5.74	7.14	-	-	-	-
Critical Hdwy Stg 1	6.64	-	-	-	-	-
Critical Hdwy Stg 2	6.04	-	-	-	-	-
Follow-up Hdwy	3.82	3.92	-	-	-	-
Pot Cap-1 Maneuver	123	382	-	0	0	-
Stage 1	183	-	_	0	0	-
Stage 2	475	_	_	0	0	_
Platoon blocked, %	170		_	U	U	_
	123	382	_			
Mov Cap 2 Manager				-	-	-
Mov Cap-2 Maneuver		-	-	-	-	-
Stage 1	183	-	-	-	-	-
Stage 2	475	-	-	-	-	-
Approach	WB		NB		SB	
HCM Control Delay, s			0		0	
HCM LOS	Α					
Minor Lane/Major Mvr	nt	NBTV	/RI n1	SBT		
		NDIV	JEIII	301		
Capacity (veh/h)		-	-	-		
HCM Lane V/C Ratio	,	-	-	-		
HCM Control Delay (s	5)	-	0	-		
HCM Lane LOS		-	Α	-		
HCM 95th %tile Q(vel	n)	-	-	-		

	ၨ	→	•	•	←	•	•	†	~	/	↓	
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	7	∱ β		ሻ	ተ ኈ		ሻ	↑ ↑₽		ሻ	↑ ↑₽	
Traffic Volume (veh/h)	46	199	22	111	66	135	23	979	152	118	1171	33
Future Volume (veh/h)	46	199	22	111	66	135	23	979	152	118	1171	33
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	0.98		0.96	0.98		0.97	1.00		0.98	1.00		0.98
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1583	1845	1900	1743	1827	1900	1439	1855	1900	1863	1848	1900
Adj Flow Rate, veh/h	47	203	22	113	67	138	23	999	155	120	1195	34
Adj No. of Lanes	1	2	0	1	2	0	1	3	0	1	3	0
Peak Hour Factor	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
Percent Heavy Veh, %	20	2	2	9	4	4	32	2	2	2	2	2
Cap, veh/h	261	682	73	322	403	348	204	2183	338	295	2641	75
Arrive On Green	0.04	0.21	0.21	0.07	0.23	0.23	0.02	0.49	0.49	0.05	0.52	0.52
Sat Flow, veh/h	1508	3182	340	1660	1736	1501	1371	4411	683	1774	5038	143
Grp Volume(v), veh/h	47	111	114	113	67	138	23	764	390	120	797	432
Grp Sat Flow(s), veh/h/ln	1508	1753	1770	1660	1736	1501	1371	1688	1717	1774	1681	1819
Q Serve(g_s), s	3.8	8.5	8.7	8.4	4.9	12.4	1.3	23.6	23.7	5.3	23.7	23.7
Cycle Q Clear(g_c), s	3.8	8.5	8.7	8.4	4.9	12.4	1.3	23.6	23.7	5.3	23.7	23.7
Prop In Lane	1.00		0.19	1.00		1.00	1.00		0.40	1.00		0.08
Lane Grp Cap(c), veh/h	261	376	379	322	403	348	204	1672	850	295	1763	953
V/C Ratio(X)	0.18	0.29	0.30	0.35	0.17	0.40	0.11	0.46	0.46	0.41	0.45	0.45
Avail Cap(c_a), veh/h	331	546	551	369	540	467	287	1672	850	339	1763	953
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.93	0.93	0.93
Uniform Delay (d), s/veh	45.8	52.7	52.8	44.8	49.1	52.0	20.3	26.4	26.4	20.4	23.7	23.7
Incr Delay (d2), s/veh	0.3	0.4	0.4	0.7	0.2	0.7	0.2	0.9	1.8	0.8	0.8	1.4
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.6	4.2	4.3	3.9	2.4	5.2	0.5	11.2	11.7	2.6	11.2	12.2
LnGrp Delay(d),s/veh	46.1	53.1	53.2	45.5	49.3	52.7	20.6	27.3	28.2	21.2	24.5	25.2
LnGrp LOS	D	D	D	D	D	D	С	С	С	С	С	<u>C</u>
Approach Vol, veh/h		272			318			1177			1349	
Approach Delay, s/veh		52.0			49.4			27.4			24.4	
Approach LOS		D			D			С			С	
Timer	1	2	3	4	5	6	7	8				
Assigned Phs	1	2	3	4	5	6	7	8				
Phs Duration (G+Y+Rc), s	14.0	87.1	17.4	41.5	9.3	91.8	14.6	44.3				
Change Period (Y+Rc), s	* 6.6	7.9	* 7	7.2	* 6.1	7.9	7.6	7.2				
Max Green Setting (Gmax), s	* 11	55.1	* 15	49.8	* 13	54.1	14.4	49.8				
Max Q Clear Time (g_c+I1), s	7.3	25.7	10.4	10.7	3.3	25.7	5.8	14.4				
Green Ext Time (p_c), s	0.1	19.0	0.1	2.7	0.0	18.6	0.0	2.7				
Intersection Summary												
HCM 2010 Ctrl Delay			30.5									
HCM 2010 LOS			С									
Notes												

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Intersection						
Int Delay, s/veh	0					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	¥,#		ተተተ			ተተተ
Traffic Vol, veh/h	0	0	1155	0	0	1305
Future Vol, veh/h	0	0	1155	0	0	1305
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	_	-	-	-
Veh in Median Storage		-	0	-	-	0
Grade, %	0	_	0	_	_	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mymt Flow	0	0	1255	0	0	1418
IVIVIIIL FIOW	U	U	1200	U	U	1410
Major/Minor	Minor1	N	Najor1	١	/lajor2	
Conflicting Flow All	1822	628	0	-	-	-
Stage 1	1255	-	-	-	-	-
Stage 2	567	-	-	-	-	-
Critical Hdwy	5.74	7.14	-	-	-	-
Critical Hdwy Stg 1	6.64	-	-	-	-	-
Critical Hdwy Stg 2	6.04	-	-	-	-	-
Follow-up Hdwy	3.82	3.92	_		_	
Pot Cap-1 Maneuver	117	365	_	0	0	_
Stage 1	168	-	_	0	0	_
Stage 2	484	-	-	0	0	-
Platoon blocked, %	404	-		U	U	
	117	2/5	-			-
Mov Cap-1 Maneuver	117	365	-	-	-	-
Mov Cap-2 Maneuver	148	-	-	-	-	-
Stage 1	168	-	-	-	-	-
Stage 2	484	-	-	-	-	-
Approach	WB		NB		SB	
HCM Control Delay, s	0		0		0	
HCM LOS	A					
		NET		057		
Minor Lane/Major Mvn	nt	NBTV	VBLn1	SBT		
Minor Lane/Major Mvn Capacity (veh/h)	nt	NBTV -	VBLn1 -	SBT -		
Minor Lane/Major Mvn Capacity (veh/h) HCM Lane V/C Ratio		NBTV - -	<u>/BLn1</u> - -	SBT - -		
Minor Lane/Major Mvn Capacity (veh/h) HCM Lane V/C Ratio HCM Control Delay (s)		NBTV - - -	VBLn1 - - 0	-		
Minor Lane/Major Mvn Capacity (veh/h) HCM Lane V/C Ratio		NBTV - - -	-	-		

07/02/2018
Kimley-Horn
Synchro 9 Report
Page 3

	۶	→	•	•	←	•	1	†	<i>></i>	/	 	4
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	ሻ	∱ ⊅		ሻ	∱ β		ሻ	↑ ↑₽		Ť	ተተኈ	
Traffic Volume (veh/h)	34	55	18	203	227	126	43	1024	63	61	1133	53
Future Volume (veh/h)	34	55	18	203	227	126	43	1024	63	61	1133	53
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	0.98		0.96	0.97		0.97	1.00		0.99	1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1397	1683	1900	1792	1838	1900	1624	1856	1900	1727	1812	1900
Adj Flow Rate, veh/h	38	61	20	226	252	140	48	1138	70	68	1259	59
Adj No. of Lanes	1	2	0	1	2	0	1	3	0	1	3	0
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Percent Heavy Veh, %	36	7	7	6	3	3	17	2	2	10	4	4
Cap, veh/h	195	445	138	407	514	275	212	2481	153	249	2494	117
Arrive On Green	0.04	0.19	0.19	0.09	0.24	0.24	0.03	0.51	0.51	0.03	0.52	0.52
Sat Flow, veh/h	1331	2379	737	1707	2175	1162	1547	4878	300	1645	4840	227
Grp Volume(v), veh/h	38	40	41	226	200	192	48	788	420	68	858	460
Grp Sat Flow(s), veh/h/ln	1331	1598	1518	1707	1746	1590	1547	1689	1799	1645	1649	1768
Q Serve(g_s), s	3.6	3.3	3.6	15.0	15.8	16.7	2.4	23.9	23.9	3.2	27.3	27.3
Cycle Q Clear(g_c), s	3.6	3.3	3.6	15.0	15.8	16.7	2.4	23.9	23.9	3.2	27.3	27.3
Prop In Lane	1.00 195	299	0.49 284	1.00 407	413	0.73 376	1.00 212	1719	0.17 915	1.00 249	1700	0.13 911
Lane Grp Cap(c), veh/h V/C Ratio(X)	0.19	0.13	0.15	0.56	0.49	0.51	0.23	0.46	0.46	0.27	0.50	0.50
Avail Cap(c_a), veh/h	260	497	472	407	544	495	294	1719	915	316	1700	911
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.93	0.93	0.93
Uniform Delay (d), s/veh	49.4	54.2	54.3	46.9	52.7	53.0	20.2	25.2	25.2	19.8	25.4	25.4
Incr Delay (d2), s/veh	0.5	0.2	0.2	1.7	0.9	1.1	0.5	0.9	1.7	0.5	1.0	1.9
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	2.4	2.7	2.8	3.1	12.3	11.9	1.9	16.9	18.1	2.7	18.2	19.6
LnGrp Delay(d),s/veh	49.8	54.4	54.6	48.5	53.6	54.1	20.8	26.1	26.9	20.3	26.4	27.3
LnGrp LOS	D	D	D	D	D	D	C	C	C	C	C	C
Approach Vol, veh/h		119			618			1256			1386	
Approach Delay, s/veh		53.0			51.9			26.1			26.4	
Approach LOS		D			D			С			C	
Timer	1	2	3	4	5	6	7	8				
Assigned Phs	1	2	3	4	5	6	7	8				
Phs Duration (G+Y+Rc), s	11.6	89.3	22.0	37.1	10.5	90.4	14.1	45.0				
Change Period (Y+Rc), s	* 6.6	7.9	* 7	7.2	* 6.1	7.9	7.6	7.2				
Max Green Setting (Gmax), s	* 11	55.1	* 15	49.8	* 13	54.1	14.4	49.8				
Max Q Clear Time (g_c+l1), s	5.2	25.9	17.0	5.6	4.4	29.3	5.6	18.7				
Green Ext Time (p_c), s	0.1	20.1	0.0	3.1	0.0	17.9	0.0	3.0				
Intersection Summary												
HCM 2010 Ctrl Delay			31.9									·
HCM 2010 LOS			С									
Notes												

* HCM 2010 computational engine requires equal clearance times for the phases crossing the barrier.

07/09/2018 Kimley-Horn

Intersection						
Int Delay, s/veh	0.4					
		WDD	NDT	NDD	CDI	CDT
Movement Configurations	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	\	22	↑↑↑	Е	12	^^^
Traffic Vol, veh/h	10	32	1100	5	13	1341
Future Vol, veh/h	10 0	32 0	1100	5 0	13	1341 0
Conflicting Peds, #/hr Sign Control		Stop	Free	Free	Free	Free
RT Channelized	Stop -	None		None	riee -	None
Storage Length		None -	-	None -	100	None -
	0,#0		0		100	0
Veh in Median Storage Grade, %	, # 0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, % Mvmt Flow	2 11	2 35	2 1196	2 5	2 14	2 1458
IVIVIIIL FIOW	11	33	1190	5	14	1408
Major/Minor	Minor1	ı	Major1	1	Major2	
Conflicting Flow All	1809	601	0	0	1201	0
Stage 1	1198	-	-	-	-	-
Stage 2	611	-	-	-	-	-
Critical Hdwy	5.74	7.14	-	-	5.34	-
Critical Hdwy Stg 1	6.64	-	-	-	-	-
Critical Hdwy Stg 2	6.04	-	-	-	-	-
Follow-up Hdwy	3.82	3.92	-	-	3.12	-
Pot Cap-1 Maneuver	118	380	-	-	313	-
Stage 1	183	-	-	-	-	-
Stage 2	459	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	113	380	-	-	313	-
Mov Cap-2 Maneuver	156	-	-		-	-
Stage 1	183	-	-	-	-	-
Stage 2	438	-	-	-	-	-
	100					
A	14/0		ND		CD	
Approach	WB		NB		SB	
HCM Control Delay, s	20.2		0		0.2	
HCM LOS	С					
Minor Lane/Major Mvm	t	NBT	NBR\	NBLn1	SBL	SBT
Capacity (veh/h)		_	-	283	313	
HCM Lane V/C Ratio		_			0.045	_
HCM Control Delay (s)		_	-	20.2	17	_
HCM Lane LOS		_	_	C	С	_
HCM 95th %tile Q(veh)		-	-	0.6	0.1	-
/ 5 / 5 5 4 (1011)				3.0	3.1	

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	J.	↑ ↑		J.	↑ 1>		, J	ተተ _ጉ		¥	ተተኈ	
Traffic Volume (veh/h)	46	199	38	114	66	135	33	993	153	118	1192	33
Future Volume (veh/h)	46	199	38	114	66	135	33	993	153	118	1192	33
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	0.98		0.96	0.98		0.97	1.00		0.98	1.00		0.98
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1583	1834	1900	1743	1827	1900	1439	1855	1900	1863	1848	1900
Adj Flow Rate, veh/h	47	203	39	116	67	138	34	1013	156	120	1216	34
Adj No. of Lanes	1	2	0	1	2	0	1	3	0	1	3	0
Peak Hour Factor	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
Percent Heavy Veh, %	20	2	2	9	4	4	32	2	2	2	2	2
Cap, veh/h	261	619	116	314	403	349	204	2185	336	291	2620	73
Arrive On Green	0.04	0.21	0.21	0.07	0.23	0.23	0.02	0.49	0.49	0.05	0.52	0.52
Sat Flow, veh/h	1508	2909	546	1660	1736	1501	1371	4416	679	1774	5042	141
Grp Volume(v), veh/h	47	120	122	116	67	138	34	774	395	120	811	439
Grp Sat Flow(s), veh/h/ln	1508	1742	1713	1660	1736	1501	1371	1688	1718	1774	1682	1820
Q Serve(g_s), s	3.8	9.3	9.7	8.7	4.9	12.4	2.0	24.0	24.1	5.3	24.4	24.4
Cycle Q Clear(g_c), s	3.8	9.3	9.7	8.7	4.9	12.4	2.0	24.0	24.1	5.3	24.4	24.4
Prop In Lane	1.00		0.32	1.00		1.00	1.00		0.40	1.00		0.08
Lane Grp Cap(c), veh/h	261	371	365	314	403	349	204	1671	850	291	1748	945
V/C Ratio(X)	0.18	0.32	0.34	0.37	0.17	0.40	0.17	0.46	0.46	0.41	0.46	0.46
Avail Cap(c_a), veh/h	331	542	533	359	540	467	281	1671	850	336	1748	945
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.93	0.93	0.93
Uniform Delay (d), s/veh	45.9	53.2	53.4	44.9	49.1	51.9	20.4	26.5	26.5	20.5	24.3	24.3
Incr Delay (d2), s/veh	0.3	0.5	0.5	0.7	0.2	0.7	0.4	0.9	1.8	0.9	8.0	1.5
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	2.9	8.0	8.2	7.2	4.3	9.0	1.4	16.9	17.5	4.7	17.0	18.4
LnGrp Delay(d),s/veh	46.2	53.7	53.9	45.7	49.2	52.7	20.8	27.4	28.3	21.4	25.2	25.9
LnGrp LOS	D	D	D	D	D	D	С	С	С	С	С	С
Approach Vol, veh/h		289			321			1203			1370	
Approach Delay, s/veh		52.6			49.4			27.5			25.1	
Approach LOS		D			D			С			С	
Timer	1	2	3	4	5	6	7	8				
Assigned Phs	1	2	3	4	5	6	7	8				
Phs Duration (G+Y+Rc), s	14.0	87.1	17.7	41.3	10.0	91.0	14.6	44.4				
Change Period (Y+Rc), s	* 6.6	7.9	* 7	7.2	* 6.1	7.9	7.6	7.2				
Max Green Setting (Gmax), s	* 11	55.1	* 15	49.8	* 13	54.1	14.4	49.8				
Max Q Clear Time (g_c+l1), s	7.3	26.1	10.7	11.7	4.0	26.4	5.8	14.4				
Green Ext Time (p_c), s	0.1	19.1	0.1	2.8	0.0	18.5	0.0	2.8				
Intersection Summary												
HCM 2010 Ctrl Delay			31.0									
HCM 2010 LOS			С									
Notes												

* HCM 2010 computational engine requires equal clearance times for the phases crossing the barrier.

07/09/2018 Kimley-Horn

Intersection						
Int Delay, s/veh	0.6					
		WDD	NDT	NIDD	CDI	SBT
Movement Configurations	WBL	WBR	NBT	NBR	SBL	
Lane Configurations	Y	2/	1155	11	ነ	↑ ↑↑
Traffic Vol, veh/h	9	26	1155	14	40	1305
Future Vol, veh/h	9	26	1155	14	40	1305
Conflicting Peds, #/hr	O Cton	O Cton	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	100	None
Storage Length	0	-	-	-	100	-
Veh in Median Storage		-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	10	28	1255	15	43	1418
Major/Minor	Minor1	ı	Major1	ľ	Major2	
Conflicting Flow All	1917	635	0	0	1271	0
Stage 1	1263	-	-	-	_	-
Stage 2	654	-	-	-	-	-
Critical Hdwy	5.74	7.14	-	-	5.34	-
Critical Hdwy Stg 1	6.64	-	-		-	
Critical Hdwy Stg 2	6.04	_	-	_	-	-
Follow-up Hdwy	3.82	3.92	-	-	3.12	-
Pot Cap-1 Maneuver	104	361	-	-	289	-
Stage 1	167	-	-	-		-
Stage 2	436	_	_	_	-	_
Platoon blocked, %	100		_	_		_
Mov Cap-1 Maneuver	89	361	_	_	289	_
Mov Cap-2 Maneuver	137	-	_	_	207	_
Stage 1	167					
Stage 2	371		-		-	
Jiaye Z	3/1	-	-	-	-	-
Approach	WB		NB		SB	
HCM Control Delay, s	21.7		0		0.6	
HCM LOS	С					
Minor Lane/Major Mvm	t	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)		-	-	254	289	-
HCM Lane V/C Ratio		-	-	0.15	0.15	-
HCM Control Delay (s)			-	21.7	19.7	
HCM Lane LOS		-	-	C C	C	-
HCM 95th %tile Q(veh))	_	-	0.5	0.5	-
How but build a (vell)		_		0.5	0.5	_

APPENDIX D

Raw Traffic Counts

ph 404-374-1283

Site Code: A Station ID: A KENSINGTON ROAD WEST OF MEMORIAL DRIVE Latitude: 0' 0.0000 Undefined

AADT 2,438

Start	3/22/2018		B	Hour To	tals
Time	Thu	Morning	Afternoon	Morning	Afternoon
12:00		12	33		
12:15		8	38		
12:30		3			
12:45		4	40	27	147
01:00		3	35		
01:15		4 3 6	29		
01:30		3			
01:45		3	42	15	132
02:00		3 2 6	25		
02:15		6	39		
02:30		1			
02:45		2	23	11	127
03:00		1	43		
03:15		1	44		
03:30		4	49		
03:45		1	54	7	190
04:00		1			
04:15		3	68		
04:30		4			
04:45		3	58	11	223
05:00		6	70		
05:15		6	74		
05:30		8	74		
05:45		14	64	34	282
06:00		6	66		202
06:15		6	58		
06:30		9	48		
06:45		16	53	37	225
07:00		8	48	0,	220
07:15		14	44		
07:30		14			
07:45		26	24	62	160
08:00		23	27	02	100
08:15		30	28		
08:30		24			
08:45		24	22	101	110
09:00		26	31	101	110
09:15		22	23		
09:30		22	19		
09:45		30	19	100	92
10:00		44	19	100	32
10:15		30	18		
10:30		22	17		
10:45		16	18	112	72
11:00		24	18	112	12
11:15		24	13		
11:30		26			
11:45		32	12	106	55
Total		623		100	ວວ
Percent		25.6%	74.4%		
Grand Total		623	1815		
		25.6%	74.4%		
Percent		∠5.6%	74.4%		

ADT 2,438

ADT

ph 404-374-1283

Site Code: A.5 Station ID: A.5 KENSINGTON ROAD WEST OF MEMORIAL DRIVE Latitude: 0' 0.0000 Undefined

AADT 2,552

Start	3/22/2018	WB		Hour Tot	
Time	Thu	Morning	Afternoon	Morning	Afternoon
12:00		10	41		
12:15		3	49		
12:30		6	36		
12:45		3	33	22	159
01:00		2 2	36		
01:15		2	28		
01:30		4	29		
01:45		1	28	9	121
02:00		6	29		
02:15		4	32		
02:30		0	24		
02:45		1	27	11	112
03:00		5 0	33		
03:15		0	36		
03:30		4 3	34 32		
03:45		3	32	12	135
04:00		5	33		
04:15		8	31		
04:30		9	29		
04:45		9 7	30	29	123
05:00		12	30	20	120
05:15		8	29		
05:30		12	34		
05:45		10	40	42	133
06:00		23	28	72	100
06:15		32	38		
06:30		51	21		
06:45		64	30	170	117
07:00		82	20	170	117
07:00		79	24		
07:13		79 86	35		
07:45		77	21	324	100
08:00		66	20	324	100
08:15		65	15		
00:10		65			
08:30		53	20	260	00
08:45		76	14	260	69
09:00		42	14		
09:15		39	16		
09:30		54	11		
09:45		45	11	180	52
10:00		48	13		
10:15		30	15		
10:30		46	17		
10:45		39	7	163	52
11:00		36	11		
11:15		31	6		
11:30		30	6		
11:45		31	6	128	29
Total		1350	1202		
Percent		52.9%	47.1%		
Grand Total		1350	1202		
Percent		52.9%	47.1%		

ADT 2,552

ADT

ph 404-374-1283

Site Code: B Station ID: B MOUNTAIN DRIVE WEST OF MEMORAIL DRIVE Latitude: 0' 0.0000 Undefined

Start	3/22/2018	EI	3	Hour Totals					
Time	Thu	Morning	Afternoon	Morning	Afternoon				
12:00		8	50						
12:15		6	58						
12:30		4	42						
12:45		3	43	21	193				
01:00		5	48	.					
01:15		4	46						
01:30		6	42	2					
01:45		4	52	19	188				
02:00		4	49						
02:15		8	54						
02:30		4	44						
02:45		3	34		181				
03:00		4	43	10					
03:15		1	38						
03:30		7	42						
03:45		0	45	12	168				
04:00		0	34		100				
04:15		6	37						
04:30		5	32						
04:45		5 6	40	17	143				
05:00		5	36		143				
05:00		5	50						
05:30		12	46						
05:45		8	36	30	168				
06:00		14	36	30	100				
06:00		15	33						
06:30		18	37						
06:30		21	38	68	111				
00.45		21	30	00	144				
07:00		19	22						
07:15		19	29						
07:30		32	32	100	404				
07:45		38	21	108	104				
08:00		34	22						
08:15		24	28						
08:30		27	14	110	0.4				
08:45		28	30	113	94				
09:00		27	25						
09:15		34	20						
09:30		21	16						
09:45		26	14		75				
10:00		25	20						
10:15		37	9						
10:30		44	10						
10:45		33	12		51				
11:00		33	13						
11:15		29	9						
11:30		40	11						
11:45		42	7		40				
Total		798	1549	1					
Percent		34.0%	66.0%						
Grand Total		798	1549	1					
Percent		34.0%	66.0%						

ADT ADT 2,347 AADT 2,347

ph 404-374-1283

Site Code: B.5 Station ID: B.5 MOUNTAIN DRIVE WEST OF

MEMORIAL DRIVE Latitude: 0' 0.0000 Undefined

Start	3/22/2018	WB		Hour Tot	als
Time	Thu	Morning	Afternoon	Morning	Afternoon
12:00		9	53	-	
12:15		6	52		
12:30		5	56		
12:45		4 5	42	24	203
01:00		5	64		
01:15		3	51		
01:30		2	54		
01:45		4	62	14	231
02:00		2	48		
02:15		2	41		
02:30		6	50		
02:45		3	50	13	189
03:00		7	54		
03:15		6	67		
03:30		3	36		
03:45		1	44	17	201
04:00		4	32		
04:15		1	34		
04:30		2	42		
04:45		6	34	13	142
05:00		9	38		
05:15		13	25		
05:30		16	47		
05:45		12	30	50	140
06:00		10	39	00	
06:15		17	35		
06:30		35	27		
06:45		38	40	100	141
07:00		38	36	100	
07:15		40	28		
07:30		40	33		
07:45		30	34	148	131
08:00		38	24	140	101
08:15		36	22		
08:30		48	29		
08:45		43	27	165	102
09:00		26	16	103	102
09:00		42	15		
09:30		36	20		
09:45		54	18	158	69
10:00		48	18	150	03
10:15		43	20		
10:30		50	8		
10:45		54	12	195	58
11:00		54 54	11	190	58
11:15		38	15		
		36 42	13		
11:30			13	400	F4
11:45 Total		46 1077	1658	180	51
		39.4%	60.6%		
Percent Crand Tatal					
Grand Total Percent		1077	1658 60.6%		
Parcant		39.4%	60.6%		

ADT ADT 2,735 AADT 2,735



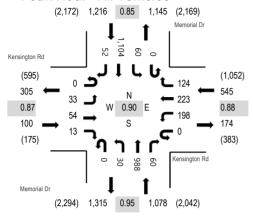
Location: 1 Memorial Dr & Kensington Rd AM

Date and Start Time: Thursday, March 22, 2018

Peak Hour: 07:30 AM - 08:30 AM

Peak 15-Minutes: 07:45 AM - 08:00 AM

Peak Hour - All Vehicles



Peak Hour - Pedestrians/Bicycles in Crosswalk



Note: Total study counts contained in parentheses.

Traffic Counts

	k	Kensington Rd				Memor	ial Dr			Memo	rial Dr											
Interval		Eastb	ound			Westb	ound			Northb	ound			South	oound			Rolling	Ped	lestrair	n Crossi	ngs
Start Time	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	Total	Hour	West	East	South	North
7:00 AM	0	5	8	1	0	43	65	45	0	6	194	10	0	11	162	11	561	2,720	8	0	5	0
7:15 AM	0	4	7	1	0	40	60	28	0	7	222	19	0	16	244	12	660	2,905	3	3	6	0
7:30 AM	0	9	6	1	0	54	77	35	0	3	214	11	0	10	249	11	680	2,939	8	2	8	1
7:45 AM	0	10	14	4	0	53	50	35	0	5	275	13	0	20	325	15	819	2,921	3	0	1	0
8:00 AM	0	7	15	3	0	44	49	31	0	12	250	22	0	14	284	15	746	2,721	10	0	13	3
8:15 AM	0	7	19	5	0	47	47	23	0	10	249	14	0	16	246	11	694		2	0	2	1
8:30 AM	0	8	14	2	1	29	33	33	0	4	222	35	0	30	242	9	662		6	0	7	0
8:45 AM	0	8	15	2	0	31	58	41	0	6	214	25	0	18	182	19	619		10	1	7	5

		East	bound			West	oound			Northb	ound			South	nbound		
Vehicle Type	U-Turn	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	Total	
Articulated Trucks	0	0	1	0	0	0	0	2	0	0	4	1	0	0	6	0	14
Lights	0	21	50	9	0	187	216	119	0	25	964	55	0	54	1,059	40	2,799
Mediums	0	12	3	4	0	11	7	3	0	5	20	4	0	6	39	12	126
Total	0	33	54	13	0	198	223	124	0	30	988	60	0	60	1,104	52	2,939

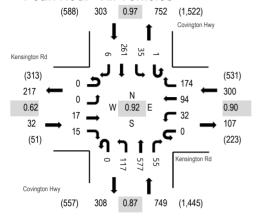


Location: 2 Covington Hwy & Kensington Rd AM Date and Start Time: Thursday, March 22, 2018

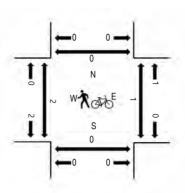
Peak Hour: 07:15 AM - 08:15 AM

Peak 15-Minutes: 07:30 AM - 07:45 AM

Peak Hour - All Vehicles



Peak Hour - Pedestrians/Bicycles in Crosswalk



Note: Total study counts contained in parentheses.

Traffic Counts

	k	(ensing	gton Ro	l	K	ensingt	ton Rd			Covingto	n Hwy		C	Covingto	on Hwy	,						
Interval		Eastb	ound			Westb	ound			Northb	ound			South	oound			Rolling	Ped	lestrair	Crossi	ngs
Start Time	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	Total	Hour	West	East	South	North
7:00 AM	0	0	1	4	0	6	14	51	0	13	167	12	0	8	41	1	318	1,339	0	0	0	0
7:15 AM	0	0	1	2	0	8	17	56	0	24	166	13	0	5	62	1	355	1,384	0	0	0	0
7:30 AM	0	0	2	7	0	5	34	46	0	35	159	10	1	10	64	3	376	1,382	0	1	0	0
7:45 AM	0	0	7	0	0	9	30	29	0	26	100	11	0	12	66	0	290	1,270	1	0	0	0
8:00 AM	0	0	7	6	0	10	13	43	0	32	152	21	0	8	69	2	363	1,276	1	0	0	0
8:15 AM	0	0	2	1	0	1	9	38	0	27	177	16	0	21	61	0	353		0	0	0	0
8:30 AM	0	1	3	2	0	4	6	32	0	11	118	9	0	15	62	1	264		0	2	0	0
8:45 AM	0	0	3	2	0	3	6	61	0	7	125	14	0	12	62	1	296		1	2	0	0

		East	bound			West	ound			Northb	ound			South	bound		
Vehicle Type	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	Total
Articulated Trucks	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1	0	3
Lights	0	0	17	15	0	30	93	168	0	116	563	52	1	32	251	5	1,343
Mediums	0	0	0	0	0	2	1	6	0	1	13	3	0	2	9	1	38
Total	0	0	17	15	0	32	94	174	0	117	577	55	1	35	261	6	1,384



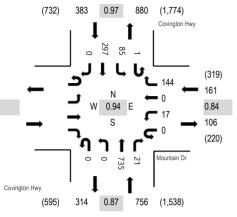
Location: 3 Covington Hwy & Mountain Dr AM

Date and Start Time: Thursday, March 22, 2018

Peak Hour: 08:00 AM - 09:00 AM

Peak 15-Minutes: 08:15 AM - 08:30 AM

Peak Hour - All Vehicles



Peak Hour - Pedestrians/Bicycles in Crosswalk



Note: Total study counts contained in parentheses.

Traffic Counts

						Mounta	ain Dr		C	Covingto	n Hwy		(Covingt	on Hwy							
Interval		Eastb	ound			Westb	ound			Northb	ound			South	oound			Rolling	Ped	destrair	Crossi	ngs
Start Time	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	Total	Hour	West	East	South	North
7:00 AM					0	3	0	48	0	0	211	6	0	16	50	0	334	1,289		1	0	1
7:15 AM					0	5	0	42	0	0	219	6	0	18	65	0	355	1,291		2	0	0
7:30 AM					0	6	0	30	1	0	198	7	0	28	70	0	340	1,282		1	0	0
7:45 AM					0	6	0	18	0	0	128	6	0	27	75	0	260	1,254		0	0	0
8:00 AM					0	3	0	29	0	0	194	7	0	25	78	0	336	1,300		1	0	0
8:15 AM					0	5	0	34	0	0	206	5	0	17	79	0	346			0	0	0
8:30 AM					0	7	0	41	0	0	158	7	1	25	73	0	312			0	0	0
8:45 AM					0	2	0	40	0	0	177	2	0	18	67	0	306			0	0	0

	East	bound			West	oound			Northb	ound			South	bound		
Vehicle Type	U-Turn Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	Total
Articulated Trucks				0	0	0	0	0	0	1	0	0	0	1	0	2
Lights				0	17	0	139	0	0	706	21	1	84	276	0	1,244
Mediums				0	0	0	5	0	0	28	0	0	1	20	0	54
Total				0	17	0	144	0	0	735	21	1	85	297	0	1 300



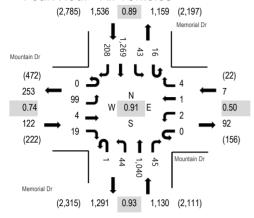
Location: 4 Memorial Dr & Mountain Dr AM

Date and Start Time: Thursday, March 22, 2018

Peak Hour: 07:45 AM - 08:45 AM

Peak 15-Minutes: 07:45 AM - 08:00 AM

Peak Hour - All Vehicles



Peak Hour - Pedestrians/Bicycles in Crosswalk



Note: Total study counts contained in parentheses.

Traffic Counts

		Mount	ain Dr		1	Mounta	in Dr			Memor	ial Dr			Memo	rial Dr							
Interval		Eastb	ound			Westb	ound			Northb	ound			South	oound			Rolling	Ped	lestrair	n Crossi	ngs
Start Time	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	Total	Hour	West	East	South	North
7:00 AM	0	23	0	1	0	0	0	0	0	8	224	4	4	1	219	47	531	2,534	1	0	0	0
7:15 AM	0	19	0	9	0	1	0	5	0	3	230	4	4	5	272	50	602	2,684	2	3	0	1
7:30 AM	0	23	0	1	0	0	0	2	0	8	260	2	3	2	287	47	635	2,787	0	0	0	0
7:45 AM	0	20	2	7	0	0	0	0	1	20	278	6	2	6	386	38	766	2,795	1	0	0	0
8:00 AM	0	38	1	2	0	0	1	1	0	12	246	7	4	3	319	47	681	2,606	1	1	0	0
8:15 AM	0	16	1	6	0	2	0	2	0	3	282	14	5	19	292	63	705		1	0	0	0
8:30 AM	0	25	0	4	0	0	0	1	0	9	234	18	5	15	272	60	643		2	1	0	0
8:45 AM	0	22	1	1	0	1	0	6	0	9	209	20	4	25	232	47	577		3	0	0	0

		East	bound			West	bound			North	oound			Soutl	hbound		
Vehicle Type	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	Total
Articulated Trucks	0	0	0	0	0	0	0	0	0	0	5	0	0	0	9	0	14
Lights	0	98	4	19	0	2	1	4	1	42	1,003	45	16	43	1,200	204	2,682
Mediums	0	1	0	0	0	0	0	0	0	2	32	0	0	0	60	4	99
Total	0	99	4	19	0	2	1	4	1	44	1 040	45	16	43	1 269	208	2 795



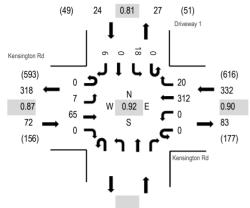
Location: 5 Driveway 1 & Kensington Rd AM

Date and Start Time: Thursday, March 22, 2018

Peak Hour: 07:15 AM - 08:15 AM

Peak 15-Minutes: 07:30 AM - 07:45 AM

Peak Hour - All Vehicles



Peak Hour - Pedestrians/Bicycles in Crosswalk



Note: Total study counts contained in parentheses.

Traffic Counts

		k	(ensing	ton Rd		K	ensing	ton Rd						Drivew	ay 1							
	Interval		Eastb	ound			Westb	ound			Northb	ound		Southb	oound			Rolling	Ped	estrair	Crossings	
_	Start Time	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru Right	U-Turn	Left	Thru	Right	Total	Hour	West	East	South Nort	h
	7:00 AM	0	1	7	0	0	0	79	5				0	7	0	1	100	426	0	0	()
	7:15 AM	0	3	10	0	0	0	81	3				0	3	0	1	101	428	0	0	(0
	7:30 AM	0	1	13	0	0	0	88	7				0	5	0	2	116	426	0	0	()
	7:45 AM	0	1	23	0	0	0	73	5				0	6	0	1	109	389	0	0	(0
	8:00 AM	0	2	19	0	0	0	70	5				0	4	0	2	102	395	0	0	(0
	8:15 AM	0	2	26	0	0	0	64	1				0	4	0	2	99		0	0	()
	8:30 AM	1	2	21	0	0	0	42	6				0	3	0	4	79		0	0	()
	8:45 AM	1	1	22	0	1	0	80	6				0	3	0	1	115		0	0	()

		East	bound			Westl	oound			North	bound			South	bound		
Vehicle Type	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	Total
Articulated Trucks	0	0	1	0	0	0	0	0					0	0	0	0	1
Lights	0	1	63	0	0	0	306	1					0	0	0	2	373
Mediums	0	6	1	0	0	0	6	19					0	18	0	4	54
Total	0	7	65	0	0	0	312	20					0	18	0	6	428

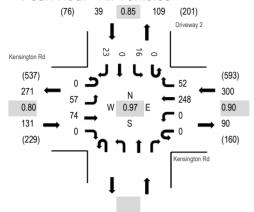


Location: 6 Driveway 2 & Kensington Rd AM **Date and Start Time:** Thursday, March 22, 2018

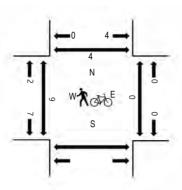
Peak Hour: 07:30 AM - 08:30 AM

Peak 15-Minutes: 07:30 AM - 07:45 AM

Peak Hour - All Vehicles



Peak Hour - Pedestrians/Bicycles in Crosswalk



Note: Total study counts contained in parentheses.

Traffic Counts

	K	Censing	gton Rd		K	ensing	ton Rd						Drive	vay 2							
Interval		Eastb	ound			Westb	ound			Northb	ound		Southl	oound			Rolling	Ped	estrair	Crossings	S
Start Time	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru Right	U-Turn	Left	Thru	Right	Total	Hour	West	East	South No	orth
7:00 AM	0	14	8	0	0	0	75	11				0	1	0	7	116	461	2	0		1
7:15 AM	0	13	6	0	1	0	65	12				0	5	0	7	109	463	0	0		0
7:30 AM	0	7	14	0	0	0	80	11				0	4	0	5	121	470	4	0		1
7:45 AM	0	15	16	0	0	0	60	11				0	5	0	8	115	433	1	0		0
8:00 AM	0	18	18	0	0	0	58	14				0	3	0	7	118	437	3	0		2
8:15 AM	0	17	26	0	0	0	50	16				0	4	0	3	116		1	0		1
8:30 AM	0	10	17	0	0	0	36	13				0	5	0	3	84		2	0		0
8:45 AM	0	9	21	0	0	0	70	10				0	6	0	3	119		0	0		0

		East	bound			Westl	oound		1	Northl	bound			South	bound		
Vehicle Type	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	Total
Articulated Trucks	0	0	1	0	0	0	0	0					0	0	0	0	1
Lights	0	57	65	0	0	0	235	52					0	16	0	23	448
Mediums	0	0	8	0	0	0	13	0					0	0	0	0	21
Total	0	57	74	Λ	0	0	248	52					Λ	16	0	23	470



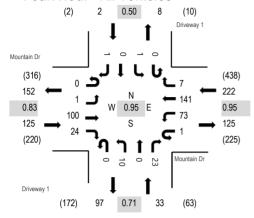
Location: 7 Driveway 1 & Mountain Dr AM

Date and Start Time: Thursday, March 22, 2018

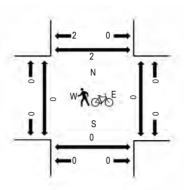
Peak Hour: 07:45 AM - 08:45 AM

Peak 15-Minutes: 08:30 AM - 08:45 AM

Peak Hour - All Vehicles



Peak Hour - Pedestrians/Bicycles in Crosswalk



Note: Total study counts contained in parentheses.

Traffic Counts

		Mount	ain Dr			Mounta	in Dr			Drivew	ay 1			Drivev	ay 1							
Interval		Eastb	ound			Westb	ound			Northb	ound			South	oound			Rolling	Ped	destrair	n Crossi	ngs
Start Time	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	Total	Hour	West	East	South	North
7:00 AM	0	0	14	4	0	14	33	0	0	6	0	6	0	0	0	0	77	349	0	0	0	0
7:15 AM	0	0	17	2	0	21	36	0	0	3	0	7	0	0	0	0	86	372	0	0	0	0
7:30 AM	0	0	30	2	0	15	40	1	0	2	0	3	0	0	0	0	93	374	0	1	0	0
7:45 AM	0	0	29	10	0	20	25	1	0	4	0	3	0	1	0	0	93	382	0	0	0	0
8:00 AM	0	0	30	5	1	17	36	1	0	2	0	8	0	0	0	0	100	374	0	0	0	2
8:15 AM	0	1	17	5	0	22	36	3	0	1	0	3	0	0	0	0	88		0	0	0	0
8:30 AM	0	0	24	4	0	14	44	2	0	3	0	9	0	0	0	1	101		0	0	0	0
8:45 AM	0	0	21	5	0	12	43	1	0	1	0	2	0	0	0	0	85		0	0	0	1

		East	bound			West	oound			North	ound			South	bound		
Vehicle Type	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	Total
Articulated Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lights	0	1	98	24	1	73	137	6	0	10	0	23	0	0	0	1	374
Mediums	0	0	2	0	0	0	4	1	0	0	0	0	0	1	0	0	8
Total	0	1	100	24	1	73	141	7	0	10	0	23	0	1	0	1	382

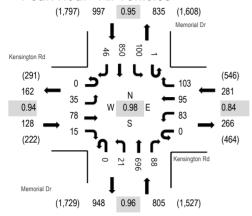


Location: 1 Memorial Dr & Kensington Rd Noon **Date and Start Time:** Thursday, March 22, 2018

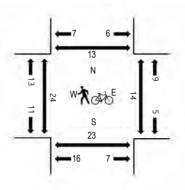
Peak Hour: 12:00 PM - 01:00 PM

Peak 15-Minutes: 12:15 PM - 12:30 PM

Peak Hour - All Vehicles



Peak Hour - Pedestrians/Bicycles in Crosswalk



Note: Total study counts contained in parentheses.

Traffic Counts

	K	Censing	ton Rd		K	ensing	ton Rd			Memor	ial Dr			Memo	rial Dr							
Interval		Eastb	ound			Westb	ound			Northb	ound			South	oound			Rolling	Ped	lestrair	n Crossi	ngs
Start Time	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	Total	Hour	West	East	South	North
11:00 AM	0	11	7	3	0	17	20	27	0	5	159	19	0	14	173	6	461	1,881	2	1	3	0
11:15 AM	0	13	7	3	0	19	25	25	0	4	137	24	0	16	165	8	446	1,953	7	6	4	5
11:30 AM	0	6	9	7	0	21	20	24	0	2	169	13	0	26	169	9	475	2,070	16	1	10	0
11:45 AM	0	11	16	1	0	21	21	25	0	1	165	24	1	23	182	8	499	2,151	4	2	4	1
12:00 PM	0	9	21	3	0	15	27	24	0	5	158	18	0	23	221	9	533	2,211	6	3	7	2
12:15 PM	0	8	15	6	0	18	28	23	0	8	175	21	1	24	221	15	563		5	4	4	4
12:30 PM	0	7	24	3	0	30	25	31	0	5	184	21	0	21	195	10	556		4	2	6	2
12:45 PM	0	11	18	3	0	20	15	25	0	3	179	28	0	32	213	12	559		9	5	6	5

		East	bound			West	ound			Northb	ound			South	bound		
Vehicle Type	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	Total
Articulated Trucks	0	0	0	0	0	1	0	7	0	0	2	1	0	2	3	0	16
Lights	0	28	71	13	0	80	92	93	0	17	671	84	1	97	835	40	2,122
Mediums	0	7	7	2	0	2	3	3	0	4	23	3	0	1	12	6	73
Total	0	35	78	15	0	83	95	103	0	21	696	88	1	100	850	46	2,211

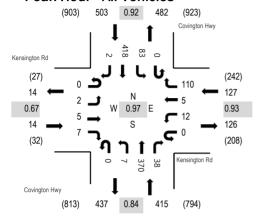


Location: 2 Covington Hwy & Kensington Rd Noon **Date and Start Time:** Thursday, March 22, 2018

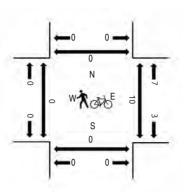
Peak Hour: 11:45 AM - 12:45 PM

Peak 15-Minutes: 12:00 PM - 12:15 PM

Peak Hour - All Vehicles



Peak Hour - Pedestrians/Bicycles in Crosswalk



Note: Total study counts contained in parentheses.

Traffic Counts

	k	(ensing	gton Rd		K	ensingt	on Rd			Covingto	n Hwy		(Covingto	on Hwy							
Interval		Eastb	ound			Westb	ound			Northb	ound			South	oound			Rolling	Ped	estrair	n Crossi	ngs
Start Time	U-Turn	Left	Thru	Right	U-Turn	Left	Thru F	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	Total	Hour	West	East	South	North
11:00 AM	0	1	1	4	0	3	1	23	0	1	71	10	0	6	87	2	210	915	2	0	1	0
11:15 AM	0	0	1	4	0	4	1	29	0	1	108	7	0	6	97	1	259	979	0	3	0	0
11:30 AM	0	0	1	2	0	4	1	21	0	2	79	6	0	12	73	0	201	987	5	7	0	0
11:45 AM	0	0	1	1	0	3	1	27	0	3	73	14	0	22	100	0	245	1,059	0	2	0	0
12:00 PM	0	1	2	2	0	3	0	26	0	1	115	9	0	17	96	2	274	1,056	0	2	0	0
12:15 PM	0	0	2	1	0	2	2	30	0	2	83	9	0	19	117	0	267		0	4	0	0
12:30 PM	0	1	0	3	0	4	2	27	0	1	99	6	0	25	105	0	273		0	2	0	0
12:45 PM	0	1	2	1	0	7	1	20	0	2	88	4	0	26	90	0	242		0	0	0	0

		East	bound			West	oound			Northb	ound			South	bound		
Vehicle Type	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	Total
Articulated Trucks	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
Lights	0	2	5	7	0	9	5	105	0	7	363	36	0	78	412	2	1,031
Mediums	0	0	0	0	0	3	0	4	0	0	7	2	0	5	6	0	27
Total	0	2	5	7	0	12	5	110	0	7	370	38	0	83	418	2	1,059

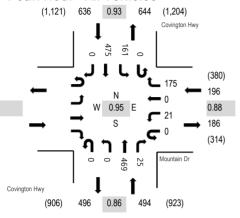


Location: 3 Covington Hwy & Mountain Dr Noon Date and Start Time: Thursday, March 22, 2018

Peak Hour: 12:00 PM - 01:00 PM

Peak 15-Minutes: 12:00 PM - 12:15 PM

Peak Hour - All Vehicles



Peak Hour - Pedestrians/Bicycles in Crosswalk



Note: Total study counts contained in parentheses.

Traffic Counts

					I	Mounta	ain Dr		(Covingto	n Hwy		(Covingt	on Hwy							
Interval		Eastb	ound			Westb	ound			Northb	ound			Southl	bound			Rolling	Ped	lestrain	Crossi	ngs
Start Time	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	Total	Hour	West	East	South	North
11:00 AM					1	8	0	51	0	0	87	8	0	23	91	0	269	1,098		0	0	0
11:15 AM					0	7	0	32	0	0	122	8	0	20	92	0	281	1,178		2	0	0
11:30 AM					0	6	0	35	0	0	96	5	0	25	87	0	254	1,232		0	0	0
11:45 AM					0	4	0	40	0	0	97	6	0	32	115	0	294	1,315		0	0	0
12:00 PM					0	7	0	45	0	0	135	9	0	45	108	0	349	1,326		0	0	0
12:15 PM					0	6	0	50	0	0	101	7	0	46	125	0	335			5	0	0
12:30 PM					0	4	0	40	0	0	125	7	0	34	127	0	337			1	0	0
12:45 PM					0	4	0	40	0	0	108	2	0	36	115	0	305			1	0	0

	East	bound			West	oound			North	ound			South	bound		
Vehicle Type	U-Turn Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	Total
Articulated Trucks				0	0	0	0	0	0	0	0	0	4	1	0	5
Lights				0	21	0	172	0	0	460	25	0	155	463	0	1,296
Mediums				0	0	0	3	0	0	9	0	0	2	11	0	25
Total				0	21	0	175	0	0	469	25	0	161	475	0	1 326



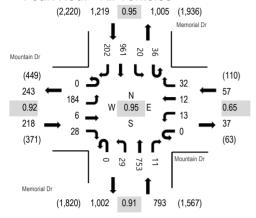
Location: 4 Memorial Dr & Mountain Dr Noon

Date and Start Time: Thursday, March 22, 2018

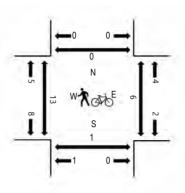
Peak Hour: 12:00 PM - 01:00 PM

Peak 15-Minutes: 12:45 PM - 01:00 PM

Peak Hour - All Vehicles



Peak Hour - Pedestrians/Bicycles in Crosswalk



Note: Total study counts contained in parentheses.

Traffic Counts

		Mount	ain Dr			Mounta	ain Dr			Memor	ial Dr			Memo	rial Dr							
Interval		Eastb	ound			Westb	ound			Northb	ound			South	bound			Rolling	Ped	estrair	Crossi	ngs
Start Time	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	Total	Hour	West	East	South	North
11:00 AM	0	32	0	2	0	3	2	15	0	4	189	3	5	4	197	54	510	1,981	2	1	0	0
11:15 AM	0	26	1	6	0	3	3	8	0	7	162	0	7	0	184	40	447	2,019	0	2	2	0
11:30 AM	0	38	0	9	0	1	0	7	0	8	187	4	12	4	196	39	505	2,161	2	1	0	0
11:45 AM	0	32	1	6	0	3	2	6	0	7	201	2	4	7	208	40	519	2,201	3	2	0	0
12:00 PM	0	45	1	7	0	8	4	10	0	5	176	0	10	4	225	53	548	2,287	3	0	0	0
12:15 PM	0	48	3	8	0	0	2	5	0	6	192	3	9	3	255	55	589		6	4	0	0
12:30 PM	0	49	0	8	0	3	4	6	0	10	180	2	7	5	223	48	545		2	2	1	0
12:45 PM	0	42	2	5	0	2	2	11	0	8	205	6	10	8	258	46	605		1	0	0	0

		East	bound			West	ound			Northb	ound			South	bound		
Vehicle Type	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	Total
Articulated Trucks	0	3	0	1	0	0	0	0	0	0	10	0	0	0	4	0	18
Lights	0	176	6	27	0	13	12	32	0	29	708	11	35	19	936	198	2,202
Mediums	0	5	0	0	0	0	0	0	0	0	35	0	1	1	21	4	67
Total	0	184	6	28	0	13	12	32	0	29	753	11	36	20	961	202	2,287

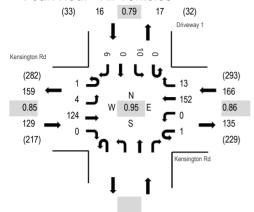


Location: 5 Driveway 1 & Kensington Rd Noon **Date and Start Time:** Thursday, March 22, 2018

Peak Hour: 12:00 PM - 01:00 PM

Peak 15-Minutes: 12:15 PM - 12:30 PM

Peak Hour - All Vehicles



Peak Hour - Pedestrians/Bicycles in Crosswalk



Note: Total study counts contained in parentheses.

Traffic Counts

	k	(ensing	ton Rd		K	ensing	ton Rd						Drivev	ay 1							
Interval		Eastb	ound			Westb	ound			Northb	ound		South	oound			Rolling	Ped	lestrair	n Crossin	ngs
Start Time	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru Right	U-Turn	Left	Thru	Right	Total	Hour	West	East	South	North
11:00 AM	0	0	18	0	0	0	28	1				0	4	0	2	53	232	0	0		0
11:15 AM	0	1	19	0	1	0	32	4				0	2	0	1	60	254	0	0		0
11:30 AM	0	1	21	0	0	0	30	3				0	2	0	2	59	276	0	2		0
11:45 AM	0	3	25	0	0	0	26	2				0	2	0	2	60	299	0	0		0
12:00 PM	0	0	28	0	0	0	37	4				0	4	0	2	75	311	0	0		0
12:15 PM	1	1	28	0	1	0	44	3				0	2	0	2	82		0	0		0
12:30 PM	0	1	32	0	0	0	41	3				0	3	0	2	82		0	1		0
12:45 PM	0	2	36	0	0	0	30	3				0	1	0	0	72		0	0		0

		East	bound			Westl	oound		No	rthbound			South	bound		
Vehicle Type	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn Le	eft Thru	Right	U-Turn	Left	Thru	Right	Total
Articulated Trucks	0	0	0	0	0	0	0	0				0	0	0	0	0
Lights	1	1	117	0	1	0	149	2				0	1	0	2	274
Mediums	0	3	7	0	0	0	3	11				0	9	0	4	37
Total	1	4	124	Λ	1	0	152	13				0	10	0	6	311

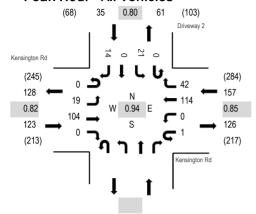


Location: 6 Driveway 2 & Kensington Rd Noon **Date and Start Time:** Thursday, March 22, 2018

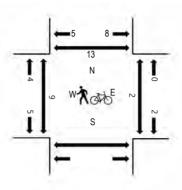
Peak Hour: 12:00 PM - 01:00 PM

Peak 15-Minutes: 12:30 PM - 12:45 PM

Peak Hour - All Vehicles



Peak Hour - Pedestrians/Bicycles in Crosswalk



Note: Total study counts contained in parentheses.

Traffic Counts

		K	Censing	ton Rd		K	ensing	ton Rd						Drive	vay 2							
	Interval		Eastb	ound			Westb	ound			Northb	ound		Southl	oound			Rolling	Ped	estrair	n Crossing	S
_	Start Time	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru Right	U-Turn	Left	Thru	Right	Total	Hour	West	East	South No	orth
	11:00 AM	0	4	13	0	0	0	25	5				0	9	0	2	58	250	0	0		3
	11:15 AM	0	4	10	0	0	0	32	2				0	5	0	4	57	260	0	0		4
	11:30 AM	0	5	16	0	2	0	21	8				0	6	0	3	61	285	0	0		4
	11:45 AM	0	9	29	0	0	0	27	5				0	1	0	3	74	308	0	0		3
	12:00 PM	0	3	25	0	0	0	29	7				0	3	0	1	68	315	6	0		4
	12:15 PM	0	6	21	0	1	0	32	13				0	7	0	2	82		0	1		1
	12:30 PM	0	7	24	0	0	0	29	13				0	6	0	5	84		0	0		2
	12:45 PM	0	3	34	0	0	0	24	9				0	5	0	6	81		3	1		6

		East	bound			Westl	oound		Nort	hbound			South	bound		
Vehicle Type	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn Lef	t Thru	Right	U-Turn	Left	Thru	Right	Total
Articulated Trucks	0	0	0	0	0	0	0	0				0	0	0	0	0
Lights	0	18	94	0	1	0	107	41				0	21	0	13	295
Mediums	0	1	10	0	0	0	7	1				0	0	0	1	20
Total	0	19	104	0	1	0	114	42				0	21	0	14	315



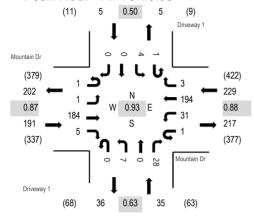
Location: 7 Driveway 1 & Mountain Dr Noon

Date and Start Time: Thursday, March 22, 2018

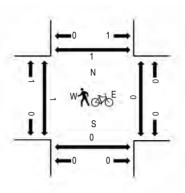
Peak Hour: 12:00 PM - 01:00 PM

Peak 15-Minutes: 12:15 PM - 12:30 PM

Peak Hour - All Vehicles



Peak Hour - Pedestrians/Bicycles in Crosswalk



Note: Total study counts contained in parentheses.

Traffic Counts

		Mount	ain Dr			Mounta	in Dr			Drivew	ay 1			Drivev	vay 1							
Interval		Eastb	ound			Westb	ound			Northb	ound			South	oound			Rolling	Ped	lestrair	n Crossii	ngs
Start Time	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	Total	Hour	West	East	South	North
11:00 AM	0	0	30	4	0	6	51	0	0	0	0	7	0	0	0	0	98	373	0	0	0	0
11:15 AM	0	0	30	1	0	5	36	1	0	2	0	2	1	0	0	0	78	386	0	0	0	1
11:30 AM	0	0	36	3	0	4	37	0	0	4	0	5	0	3	0	0	92	431	1	0	0	1
11:45 AM	0	1	41	0	0	9	44	0	0	2	1	5	0	1	0	1	105	453	0	0	0	2
12:00 PM	0	1	47	3	0	4	50	0	0	2	0	4	0	0	0	0	111	460	0	0	0	1
12:15 PM	0	0	55	0	0	9	49	1	0	3	0	6	0	0	0	0	123		0	0	0	0
12:30 PM	1	0	37	1	0	10	54	2	0	1	0	5	0	3	0	0	114		0	0	0	0
12:45 PM	0	0	45	1	1	8	41	0	0	1	0	13	1	1	0	0	112		1	0	0	0

		East	bound			West	oound			Northb	ound			South	bound		
Vehicle Type	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	Total
Articulated Trucks	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Lights	1	1	178	5	1	31	190	3	0	7	0	27	1	4	0	0	449
Mediums	0	0	2	0	0	0	4	0	0	0	0	1	0	0	0	0	7
Total	1	1	184	5	1	31	194	3	0	7	٥	28	1	4	0	0	460



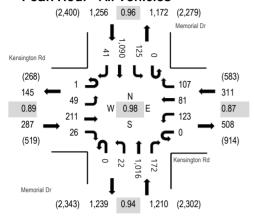
Location: 1 Memorial Dr & Kensington Rd PM

Date and Start Time: Thursday, March 22, 2018

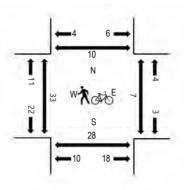
Peak Hour: 05:00 PM - 06:00 PM

Peak 15-Minutes: 05:15 PM - 05:30 PM

Peak Hour - All Vehicles



Peak Hour - Pedestrians/Bicycles in Crosswalk



Note: Total study counts contained in parentheses.

Traffic Counts

	K	ton Rd		K	ensing	ton Rd			Memor	ial Dr			Memo	rial Dr								
Interval		Eastb	ound			Westb	ound			Northb	ound			South	oound			Rolling	Ped	lestrair	n Crossi	ngs
Start Time	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	Total	Hour	West	East	South	North
4:00 PM	0	10	28	4	0	20	28	30	0	3	220	40	0	27	198	4	612	2,740	11	0	10	1
4:15 PM	0	15	52	7	0	17	20	21	0	2	252	34	0	26	230	10	686	2,898	10	0	11	0
4:30 PM	0	10	37	5	0	14	19	34	0	2	233	27	0	28	303	8	720	2,996	10	0	9	1
4:45 PM	0	11	49	4	0	22	14	33	0	7	238	34	0	24	280	6	722	3,050	8	1	5	2
5:00 PM	0	13	51	8	0	42	17	33	0	7	242	42	0	36	271	8	770	3,064	10	1	7	1
5:15 PM	1	10	58	5	0	31	15	32	0	7	247	46	0	28	294	10	784		8	3	5	4
5:30 PM	0	15	60	7	0	34	24	23	0	3	276	43	0	30	247	12	774		6	2	8	3
5:45 PM	0	11	42	6	0	16	25	19	0	5	251	41	0	31	278	11	736		9	1	8	2

		East	bound			West	oound			North	oound			Sout	hbound		
Vehicle Type	,,						Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	Total
Articulated Trucks	0	0	0	0	0	6	0	1	0	0	3	5	0	0	1	0	16
Lights	1	39	206	23	0	112	78	103	0	15	1,000	163	0	124	1,078	28	2,970
Mediums	0	10	5	3	0	5	3	3	0	7	13	4	0	1	11	13	78
Total	1	49	211	26	0	123	81	107	0	22	1,016	172	0	125	1,090	41	3,064

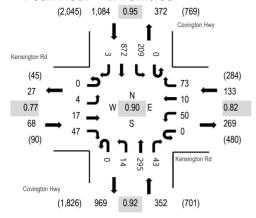


Location: 2 Covington Hwy & Kensington Rd PM **Date and Start Time:** Thursday, March 22, 2018

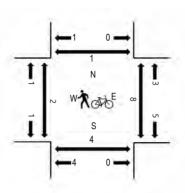
Peak Hour: 04:45 PM - 05:45 PM

Peak 15-Minutes: 05:30 PM - 05:45 PM

Peak Hour - All Vehicles



Peak Hour - Pedestrians/Bicycles in Crosswalk



Note: Total study counts contained in parentheses.

Traffic Counts

	k	ton Ro		K	ensing	ton Rd			Covingto	n Hwy		(Covingt	on Hwy								
Interval		Eastb	ound			Westb	ound			Northb	ound			Southl	oound			Rolling	Ped	estrair	Crossi	ngs
Start Time	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	Total	Hour	West	East	South	North
4:00 PM	0	0	1	3	0	9	0	30	0	0	69	8	0	29	179	0	328	1,505	1	4	0	1
4:15 PM	0	0	4	4	0	18	0	21	0	3	78	14	0	47	207	0	396	1,575	0	2	0	0
4:30 PM	0	0	3	1	0	7	3	18	0	2	86	11	0	40	211	0	382	1,566	2	2	0	0
4:45 PM	0	0	5	4	0	10	3	17	0	5	66	10	0	45	234	0	399	1,637	0	4	2	0
5:00 PM	0	1	4	17	0	14	2	19	0	4	74	10	0	53	200	0	398	1,615	2	2	0	0
5:15 PM	0	2	3	11	0	12	3	15	0	2	66	5	0	59	207	2	387		0	2	2	0
5:30 PM	0	1	5	15	0	14	2	22	0	3	89	18	0	52	231	1	453		0	0	0	1
5:45 PM	0	1	3	2	0	13	5	27	0	4	67	7	0	44	203	1	377		0	5	0	0

		East	bound			West	ound			Northb	ound			South	bound		
Vehicle Type	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	Total
Articulated Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lights	0	4	17	46	0	44	10	71	0	14	289	39	0	203	859	3	1,599
Mediums	0	0	0	1	0	6	0	2	0	0	6	4	0	6	13	0	38
Total	0	4	17	47	0	50	10	73	0	14	295	43	0	209	872	3	1,637



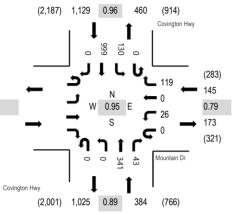
Location: 3 Covington Hwy & Mountain Dr PM

Date and Start Time: Thursday, March 22, 2018

Peak Hour: 05:00 PM - 06:00 PM

Peak 15-Minutes: 05:30 PM - 05:45 PM

Peak Hour - All Vehicles



Peak Hour - Pedestrians/Bicycles in Crosswalk



Note: Total study counts contained in parentheses.

Traffic Counts

							Mounta	in Dr		(Covingto	n Hwy		(Covingt	on Hwy	,						
	Interval	E	Eastbo	ound			Westb	ound			Northb	ound			Southl	oound			Rolling	Ped	lestrain	Crossi	ngs
_	Start Time	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	Total	Hour	West	East	South	North
	4:00 PM					0	9	0	25	0	0	91	7	0	25	190	0	347	1,578		1	0	0
	4:15 PM					0	7	0	29	0	0	84	12	0	29	237	0	398	1,642		0	0	0
	4:30 PM					0	9	0	28	0	0	97	9	0	27	261	0	431	1,638		1	0	0
	4:45 PM					0	6	0	25	0	0	75	7	0	32	257	0	402	1,645		4	0	0
	5:00 PM					0	11	0	37	0	0	86	8	0	33	236	0	411	1,658		2	0	0
	5:15 PM					0	3	0	22	0	0	73	11	0	34	251	0	394			0	0	0
	5:30 PM					0	7	0	35	0	0	81	17	0	30	268	0	438			0	0	0
	5:45 PM					0	5	0	25	0	0	101	7	0	33	244	0	415			0	0	0

	East	bound			West	oound			Northb	ound			South	bound		
Vehicle Type	U-Turn Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	Total
Articulated Trucks				0	0	0	0	0	0	0	0	0	0	0	0	0
Lights				0	24	0	116	0	0	332	43	0	128	985	0	1,628
Mediums				0	2	0	3	0	0	9	0	0	2	14	0	30
Total				0	26	0	119	0	0	341	43	0	130	999	0	1 658



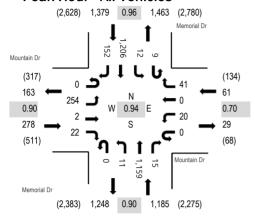
Location: 4 Memorial Dr & Mountain Dr PM

Date and Start Time: Thursday, March 22, 2018

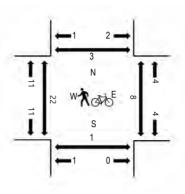
Peak Hour: 05:00 PM - 06:00 PM

Peak 15-Minutes: 05:30 PM - 05:45 PM

Peak Hour - All Vehicles



Peak Hour - Pedestrians/Bicycles in Crosswalk



Note: Total study counts contained in parentheses.

Traffic Counts

		Mount	ain Dr			Mounta	in Dr			Memor	ial Dr			Memo	rial Dr							
Interval		Eastb	ound			Westb	ound			Northb	ound			South	oound			Rolling	Ped	lestrair	n Crossi	ngs
Start Time	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	Total	Hour	West	East	South	North
4:00 PM	0	57	0	8	0	6	0	11	0	6	248	4	2	5	206	34	587	2,645	7	2	0	1
4:15 PM	0	44	1	4	0	5	1	11	0	3	279	7	6	2	276	29	668	2,819	1	1	0	0
4:30 PM	0	52	0	7	0	12	0	12	0	5	273	2	5	9	308	39	724	2,856	3	2	0	0
4:45 PM	0	50	0	10	0	4	1	10	0	6	251	6	6	3	289	30	666	2,902	4	1	0	0
5:00 PM	0	66	0	6	0	10	0	21	0	1	291	5	4	3	313	41	761	2,903	6	2	0	0
5:15 PM	0	55	2	10	0	4	0	10	0	5	280	5	2	2	300	30	705		4	1	0	0
5:30 PM	0	73	0	4	0	4	0	3	0	2	325	2	3	4	304	46	770		5	3	1	3
5:45 PM	0	60	0	2	0	2	0	7	0	3	263	3	0	3	289	35	667		7	2	0	0

		East	bound			West	ound			North	oound			Sout	nbound		
Vehicle Type	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	Total
Articulated Trucks	0	0	0	0	0	0	0	0	0	0	2	0	0	0	1	0	3
Lights	0	249	2	22	0	20	0	41	0	11	1,131	15	9	12	1,179	148	2,839
Mediums	0	5	0	0	0	0	0	0	0	0	26	0	0	0	26	4	61
Total	0	254	2	22	0	20	0	41	0	11	1,159	15	9	12	1,206	152	2,903



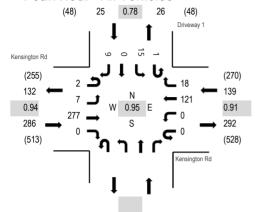
Location: 5 Driveway 1 & Kensington Rd PM

Date and Start Time: Thursday, March 22, 2018

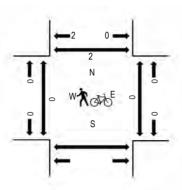
Peak Hour: 05:00 PM - 06:00 PM

Peak 15-Minutes: 05:30 PM - 05:45 PM

Peak Hour - All Vehicles



Peak Hour - Pedestrians/Bicycles in Crosswalk



Note: Total study counts contained in parentheses.

Traffic Counts

	k	(ensing	gton Rd		K	ensing	ton Rd						Drivev	vay 1							
Interval		Eastb	ound			Westb	ound			Northb	ound		Southl	oound			Rolling	Ped	estrair	Crossin	gs
Start Time	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru Right	U-Turn	Left	Thru	Right	Total	Hour	West	East	South N	Vorth
4:00 PM	0	1	40	0	0	0	32	4				0	5	0	1	83	381	0	0		1
4:15 PM	0	2	69	0	0	0	26	4				0	3	0	3	107	406	2	1		2
4:30 PM	0	2	55	0	0	0	28	4				0	3	0	3	95	414	0	0		1
4:45 PM	0	1	57	0	0	0	29	4				0	4	0	1	96	437	0	0		0
5:00 PM	1	1	69	0	0	0	26	5				0	4	0	2	108	450	0	0		0
5:15 PM	0	3	72	0	0	0	27	5				0	4	0	4	115		0	0		1
5:30 PM	0	0	76	0	0	0	33	5				0	3	0	1	118		0	0		1
5:45 PM	1	3	60	0	0	0	35	3				1	4	0	2	109		0	0		0

		East	bound			West	oound			North	bound						
Vehicle Type	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	Total
Articulated Trucks	0	0	0	0	0	0	0	0					0	0	0	0	0
Lights	2	1	275	0	0	0	120	1					1	0	0	1	401
Mediums	0	6	2	0	0	0	1	17					0	15	0	8	49
Total	2	7	277	Λ	0	0	121	18					1	15	0	9	450

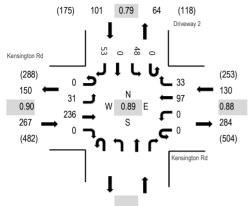


Location: 6 Driveway 2 & Kensington Rd PM **Date and Start Time:** Thursday, March 22, 2018

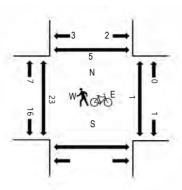
Peak Hour: 05:00 PM - 06:00 PM

Peak 15-Minutes: 05:30 PM - 05:45 PM

Peak Hour - All Vehicles



Peak Hour - Pedestrians/Bicycles in Crosswalk



Note: Total study counts contained in parentheses.

Traffic Counts

	K	Censing	gton Rd		Kensington Rd								Drive	vay 2							
Interval	Eastbound				Westbound					Northb	ound		South	oound			Rolling	Pedestrain Crossings			JS
Start Time	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru Right	U-Turn	Left	Thru	Right	Total	Hour	West	East	South N	orth
4:00 PM	0	5	35	0	0	0	30	1				0	5	0	9	85	412	3	1		0
4:15 PM	0	10	55	0	0	0	26	5				0	11	0	13	120	456	3	0		1
4:30 PM	0	10	44	0	0	0	23	8				0	13	0	5	103	451	1	0		2
4:45 PM	0	6	50	0	0	0	21	9				0	7	0	11	104	488	1	0		1
5:00 PM	0	9	63	0	0	0	20	10				0	13	0	14	129	498	3	1		0
5:15 PM	0	3	63	0	0	0	21	9				0	10	0	9	115		2	0		1
5:30 PM	0	14	61	0	0	0	24	9				0	16	0	16	140		13	0		4
5:45 PM	0	5	49	0	0	0	32	5				0	9	0	14	114		5	0		0

		East	bound			West	oound			North	bound						
Vehicle Type	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	Total
Articulated Trucks	0	0	0	0	0	0	0	0					0	0	0	0	0
Lights	0	28	229	0	0	0	88	32					0	46	0	53	476
Mediums	0	3	7	0	0	0	9	1					0	2	0	0	22
Total	0	31	236	0	0	0	97	33					0	48	0	53	498



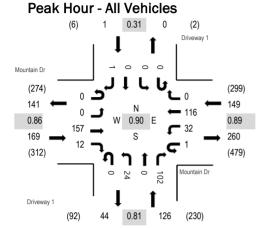
Location: 7 Driveway 1 & Mountain Dr PM

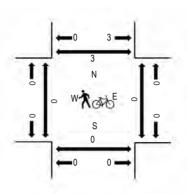
Date and Start Time: Thursday, March 22, 2018

Peak Hour: 05:00 PM - 06:00 PM

Peak 15-Minutes: 05:30 PM - 05:45 PM

Peak Hour - Pedestrians/Bicycles in Crosswalk





Note: Total study counts contained in parentheses.

Traffic Counts

		Mount	ain Dr		Mountain Dr							Drivev	vay 1									
Interval	Eastbound				Westbound				Northbound				Southbound				Rolling		Pedestrain Crossings			
Start Time	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	Total	Hour	West	East	South	North
4:00 PM	0	1	32	3	0	12	29	1	0	2	0	20	0	4	0	0	104	402	0	0	0	0
4:15 PM	0	0	33	3	0	6	23	0	0	6	0	23	0	0	0	1	95	412	0	1	0	1
4:30 PM	0	0	25	4	0	10	32	0	0	8	0	28	0	0	0	0	107	419	0	0	0	1
4:45 PM	0	0	40	2	0	8	29	0	0	3	0	14	0	0	0	0	96	436	0	0	0	1
5:00 PM	0	0	33	2	0	9	34	0	0	5	0	31	0	0	0	0	114	445	0	0	0	0
5:15 PM	0	0	43	7	0	6	25	0	0	2	0	19	0	0	0	0	102		0	0	0	1
5:30 PM	0	0	44	1	0	8	32	0	0	13	0	26	0	0	0	0	124		0	0	0	0
5:45 PM	0	0	37	2	1	9	25	0	0	4	0	26	0	0	0	1	105		0	0	0	1

		East	bound			West	oound			Northb	ound						
Vehicle Type	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	Total
Articulated Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lights	0	0	154	11	1	31	114	0	0	23	0	100	0	0	0	1	435
Mediums	0	0	3	1	0	1	2	0	0	1	0	2	0	0	0	0	10
Total	0	0	157	12	1	32	116	0	0	24	٥	102	0	0	0	1	445

APPENDIX E

Site Photographs



DeKalb County, Georgia Photograph Sheet

KHA Job No.: 013184000
Date: July 5, 2018

Page: 1 Of 1

4213 Memorial Drive



Comments: Site Driveway: Looking north along Memorial Drive (SR 154 / SR 10)

Photo No. 2



Comments: Site Driveway: Looking south along Memorial Drive (SR 154 / SR 10)