

MEMORANDUM

To: JBG SMITH

From: Christopher Forinash

Date: May 22, 2024

Subject: Parking Analysis for RiverHouse Neighborhood

This memo accompanies the draft Multimodal Transportation Analysis (MMTA) dated October 2023¹, and expands on vehicle parking requirements, provision, and sharing arrangements.

CONTEXT

Zoning Requirements

The Arlington County Zoning Ordinance² requires minimum vehicle parking spaces per unit under RA6-15 Multiple-Family Dwelling:

- Residential: One and one-eighth (1.125) spaces for the first 200 dwelling units and one (1) space for each additional dwelling unit.
- Retail: One (1) space per 1,000 square feet of floor area.
- Elder Care (proposed use in Building C2): minimum 0.5 vehicle parking spaces per bedroom for assisted living and independent living units.³

¹ Available from <u>RiverHouse Neighborhood – Official Website of Arlington County Virginia Government</u> (<u>arlingtonva.us</u>).

² Arlington County Zoning Ordinance (effective 11/11/2023), §14.3.7, https://www.arlingtonva.us/files/sharedassets/public/v/1/building/documents/codes-and-ordinances/aczo effective 11.11.2023.pdf.

³ Arlington County Zoning Ordinance (effective 11/11/2023), §14.3.7, https://www.arlingtonva.us/files/sharedassets/public/v/1/building/documents/codes-and-ordinances/aczo effective 11.11.2023.pdf.

In 2017 the County Board adopted guidelines⁴ for multi-family residential projects in Metro corridors that recognize lower vehicle-ownership in these developments and locations. These quidelines provide for reductions for market-rate housing from 1 space per unit to as little as 0.2 spaces per unit, depending on a project site's distance to Metro. For RiverHouse, the guidelines require a minimum of 0.4 spaces per unit. See Figure 1.

Residential: 0.4 spaces per unit

Visitor: 0.05 spaces per unit for the first 200 units

Figure 7: Proposed Parking Minimums in the Jefferson Davis Corridor Note: Areas not zoned to allow Multi-Family Buildings by Site Plan or UCMUD at the time of writing are partially obscured. Minimum Parking Requirement Metro Corridors Spaces per Unit Zoning Districts Where Multi-Family Housing Permitted by Site Plan or UCMUD (Excludes "R-C" Zones) Market-Rate 0.2 60% of AMI 0.14 0.21 0.28 0.35 0.42 50% of AMI 0.1 0.15 0.2 0.25 0.3 40% of AMI STH ST.S

Figure 1: Excerpt from 2017 Off-Street Parking Guidelines

Parking Use and Trends

The current RiverHouse complex has 1,820 parking spaces for 1,676 residential units, a ratio of 1.09 spaces/unit. Recent data shows current utilization is closer to 0.6 spaces/unit—a number that has been trending downward for some time and is expected to approach 0.5 spaces/unit upon completion of the full RiverHouse Neighborhood buildout.

https://arlington.granicus.com/MetaViewer.php?view id=2&event id=1106&meta id=169654.

⁴ "Off-Street Parking Guidelines for Multi-Family Residential Projects Approved by Special Exception in the Rosslyn-Ballston and Jefferson Davis Metro Corridors,"

The nearest recently approved site plan with a major residential component is the Americana Hotel site at 1400 Richmond Hwy. It was approved in April 2023 with a residential parking ratio of 0.60 spaces/unit (384 spaces for 639 units), of which 178 spaces are provided on site (0.28/unit) and 206 are provided off-site at the Bartlett (0.32/unit).⁵ Other recently approved site plans with residential components near RiverHouse include the Verizon site at400 11th St S, approved in 2019 with 306 units and 149 parking spaces (0.44/unit)⁶, and the Bartlett itself (520 12th St S), approved in 2016 with 700 spaces for 700 units (1.0/unit).⁷ An unpublished County-commissioned building-level transportation study of the Bartlett showed that as of 2019, roughly 400 permits were in use for a utilization ratio on a typical day of 0.57 spaces/unit. During the COVID era, the typical utilization ratio at the Bartlett rose to 0.71. This oversupply and under-utilization allows the off-site sharing with the recently approved Americana redevelopment.

Figure 2: Parking Supply and Utilization at and near RiverHouse

Location	Parking supply (per unit)	Parking demand/utilization (per unit)
RiverHouse	1.09	~0.63 (in 2023)
Bartlett (520 12 th St S)	1.00 (reduced to 0.70 via Americana SP)	~0.57 in 2019) ~0.71 (in 2023)
Americana (1400 Richmond Hwy)	0.60 (with 0.32 off-site)	
Verizon (400 11 th St S)	0.44	

Recent County-developed information on transportation trends in the area does not speak specifically to parking demand, but indirectly does via traffic and trip-generation trends.⁸ From 2000 to 2020, population increased by 50%, developed GFA increased by 28%, transit ridership increased, yet average vehicle traffic *decreased* by 18%. The trends are clear and accelerating. In addition, the number of car-free households continues to increase significantly. These trends argue that the demand for vehicle parking will continue to decrease due to improved conditions for biking, walking, and transit; demographic trends; and other factors.

⁵ https://www.arlingtonva.us/Government/Projects/Project-Types/Site-Plan/1400-Richmond-Highway

⁶ https://www.arlingtonva.us/Government/Projects/Project-Types/Site-Plan/400-11th-St

⁷ https://www.arlingtonva.us/Government/Projects/Project-Types/Site-Plan/Bartlett-Apartments

⁸ "Four Decades (1980-2019) of Transportation, Development & Demographic Data for the 22202 Zip Code Area," https://arlingtonva.s3.amazonaws.com/wp-content/uploads/sites/31/2020/09/DES-22202-Final Report 2020 Update.pdf linked from https://www.arlingtonva.us/Government/Projects/22202-Data.

RIVERHOUSE NEIGHBORHOOD

Phased Development Site Plan (PDSP)

The proposed PDSP preserves the existing residential towers which include 1,676 residential units and 2,200 square feet (sf) of retail. The PDSP adds 1,515 new residential units and 26,530 sf of new retail space. The new buildings are largely concentrated on the existing surface parking lots which along with structured parking garages currently provide 1,820 parking spaces. The PDSP results in a total of 2,156 vehicle parking spaces. Figure 3 shows these totals and describes how, in several parts of the site, parking is shared across buildings in an efficient way that allows the total supply to be kept in-line with County standards. The resulting parking supply of 0.67 spaces/unit across the site aligns with current and expected future parking utilization numbers. Given trends as described above, this is expected to sufficiently serve anticipated future levels of parking demand, particularly given that delivery of the new buildings is expected to occur in a phased manner over the next decade. This is supported by conclusions of the MMTA that future RiverHouse development should produce minimal and manageable impacts on the future transportation network.

Figure 3: PDSP Sitewide Parking

e			Units or Sq Ft	Proposed I	Ratio	Proposed Spaces	Provided I	ocation of Spaces
		James (Existing)	452	0.52	Spaces/Unit	233	34	Surface
		James (Existing)	432	0.52	spaces/onit	255	199	N1/N2 Garage
							130	Potomac Garage
	Existing	Potomac (Existing)	647	0.53	Spaces/Unit	341	9	Surface
	Multifamily						202	N1/N2 Garage
	marchanny			0.63			115	Ashley Garage
		Ashley (Existing)	577		Spaces/Unit	364	19	Surface (on-street/ADA)
		raine) (Existing)	J	0.00	Spaces/ office			C1 Garage
								C2 Garage
		C1	102	0.44	Spaces/Unit	51	45	C1 Garage
Residential		C1 Visitor Parking	102	0.05	Spaces/Unit (first 200 units)	51	6	C1 Garage
	New Development	C2	185	0.68	Spaces/Unit	136	126	C2 Garage
		C2 Visitor Parking	105	0.05	Spaces/Unit (first 200 units)	130	10	C2 Garage
		C3	162	1.52 Spaces/Unit		255	246	C3 Garage
		C3 Visitor Parking	102	0.05	Spaces/Unit (first 200 units)	255	9	C3 Garage
		N1		0.50 Spaces/Unit	458	277	N1/N2 Garage	
		N2	916		Spaces/ Offic	450	181	N1/N2 Garage
		N1/N2 Visitor Parking		0.05	Spaces/Unit (first 200 units)	10	10	N1/N2 Garage
		О	32	1.41 Spaces/Unit 0.06 Spaces/Unit		45	43	Condo Garage
		O Visitor Parking	32			45		On-Street
		TH Multifamily	118	1.96 Spaces/Unit		204	202	TH Garage
		TH Multifamily Visitor Parking	118	0.00	Spaces/Unit	231	29	On-Street
	Future Building	F1	24,000			0	0	Surface
Total Residential			3,191	0.67	Spaces/Unit	2,124		
Retail		N1	15,766	1/1 000	Sa Et	32	22	N1/N2 Garage - 1st Floor
Ketali		N2	10,764			32	32	141/142 Garage - 15t F1001
tal						2,156		

Landbay N Site Plan

Landbay N, at the north end of the RiverHouse Neighborhood, consists of two new buildings (N1 & N2) with a shared garage, replacing the current garage and surface parking between the James and Potomac buildings. Parking in the new garage will be shared among residents of and visitors to N1, N2, and the existing residential buildings as well as the retail space.

Figure 4: Landbay N Parking

LANDBAY N - PARKING REQUIRE	D				
Use	Vicini is the second		Units or Sq Ft	Zoning Requirement ^C	Parking Required
	Existing	James (Existing)	452	1 & 1/8 for each of the first 200	477
Residential	Multifamily	Potomac (Existing)	647	dwelling units in any structure. Plus 1 for each additional dwelling	672
	New Multifamily	N1/N2	916	unit.	941
Retail ^A		N1	15,766 ⁸		63
Ketait		N2	10,764 ^B	1 per each 250 sq.ft. of floor area on the first floor of a building	44
Total					2,197
A Retail Parking number assumes standard r	etail requirement. Depen	iding on final retail use, i.e. daycare, medical	office or restaurant the requirement will adju	st.	
^B Retail Squarefootage assumes no park	king requirement for the	e first 5,000 sq.ft of each multifamily build	ding per ACZO section 14.3.6.		
^C Parking requirements per ACZO section	on 14.3.7.				

LANDBAY N - PARKING PROVIDE	D							
Use			Units or Sq Ft	Proposed Ratio	Proposed Spaces		Provided Location of Spaces	
		James (Existing)	452	0.52 Spaces/Unit	233	34	Surface - To be removed with future Landbay F redevelopment	
	Existing	Junes (Existing)	402	0.02 opaces one	200	199	N1/N2 Garage	
	Multifamily						130	Potomac Garage
Residential	Fractionity	Potomac (Existing)	647	0.53 Spaces/Unit	341	9	Surface	
Residentiat						202	N1/N2 Garage	
		N1	551	0.5 Spaces/Unit	458	277	N1/N2 Garage	
		N2	365	0.5 Spaces/Onit	436	181	N1/N2 Garage	
		Visitor Parking	916	0.05 Spaces/Unit	10	10	N1/N2 Garage	
		N1	15,766	1/1,000 SF				
Retait ⁶	Retait ^A		10,764		32	32	N1/N2 Garage - Ground Floor	
		N2		2,2,2,2,2				
Total					1,074			

Landbay N provides 2,015 residential units as well as approximately 26,000 square feet of retail. Per the zoning code, Landbay N would require 2,197 parking spaces for residents, visitors, and retail. As proposed, Landbay N includes a total of 1,074 parking spaces, of which 1,032 are for residents. The remainder serve retail (32 spaces) and visitors (10 spaces). The resulting residential parking ratio of 0.51 is expected to provide sufficient capacity given current parking demand at RiverHouse and the trends described above, and exceeds County guidelines for a minimum parking ratio of 0.4 in this area.

Landbay C Site Plan

Landbay C consists of three new buildings, each with a separate garage, in addition to the Ashley building which remains. Anticipated uses include rental apartments in building C1, elder care in building C2, and for-sale condos in building C3. Residents of the Ashley will have access to parts of the C1 and C2 garages along with a small number of surface spaces to meet potential parking demand. Residents of and visitors to buildings C1 and C3 will have

access to those garages only. Residents, visitors, and employees at the elder care building C2 will have access to that garage only.

The new C buildings will likely be developed at different times and may have different owners. Careful planning and phasing will ensure that sufficient parking is available at all times (before, after, and during construction) for current residents and visitors. In addition, negotiated sharing agreements will ensure the long-term availability of parking for the Ashley in the C1 and C2 buildings as intended.

Figure 5: Landbay C Parking

PARKING REQUIRED					
Use			Units or Sq Ft	Zoning Requirement ^C	Parking Required
	Ast	hley (Existing)	577	1 & 1/8 for each of the first 200	602
Desidential	C1		102		115
Residential	C2		185	Plus 1 for each additional dwelling unit.	209
	СЗ		162		183
Total					1,109
^A Retail Parking number assumes standard r	etail requirement. Depending	on final retail use, i.e. daycare, medical o	office or restaurant the requirement will adju	st.	
^B Retail Squarefootage assumes no park	ring requirement for the firs	t 5,000 sq.ft of each multifamily build	ling per ACZO section 14.3.6.		
^C Parking requirements per ACZO section	on 14.3.7.				

PARKING PROVIDED							
Use			Units or Sq Ft	Proposed Ratio	Proposed Spaces	Provide	ed Location of Spaces
					115	Ashley Garage	
		Ashley (Existing)	577	7 0.63 Spaces/Unit	364	19	Surface (on street/ADA)
		Asiney (Existing)				95	C1 Garage
							C2 Garage
Residential		C1	102	0.44 Spaces/Unit		45	C1 Garage
Residentiat		C1 Visitor Parking		0.05 Spaces/Unit		6	
	New	C2	185	0.68 Spaces/Unit	136	126	C2 Garage
	Development	C2 Visitor Parking		0.05 Spaces/Unit		10	C2 Garage
		C3	162	1.52 Spaces/Unit	255	246	C3 Garage
		C3 Visitor Parking	162	0.05 Spaces/Unit	255	9	OJ Garage
T-4-1							
Total					806		

Per the zoning code, Landbay C would require 1,109 parking spaces to serve residents of and visitors to the Ashley and buildings C1, C2, and C3. As proposed, 781 spaces are provided for residents and 25 for visitors.

The existing garage under the Ashley will be reserved for residents of the Ashley. Additional parking for those residents will be available (likely on dedicated floors) in the garages under buildings C1 & C2. Thus residents of the 577 units in the Ashley have access to 364 parking spaces, or 0.63/unit.

The garage under building C1 provides parking for its residents and visitors (along with spaces for the Ashley as described above). Residents of the 102 units in building C1 have access to 45 spaces, for a ratio of 0.44/unit.

Building C2 provides 185 one-bedroom units of elder care housing. Parking available for residents includes 126 spaces, for a ratio of 0.68, in excess of the zoning requirement of 0.5

spaces/bedroom. This excess provides ample capacity for staff serving elder care residents, including at staff changeover times, and 10 additional spaces are allocated for visitors.

Building C3 is anticipated to be for-sale condos. The market demand for parking at owner-occupied units is typically higher than that for rental units, even in Metro corridors. Applicant analysis shows that a ratio of 1.5 spaces/unit should accommodate demand when the building is delivered in the future. The building includes 162 units and 246 vehicle parking spaces for residents, resulting in a ratio of 1.52 spaces/unit. The low site-wide parking ratio, and the minimal and manageable impacts on the transportation network documented in the MMTA, support as reasonable the provision of sufficient parking to meet the anticipated use of building C2.

Landbay S Site Plan

Landbay S consists of 150 units of townhouse-style multifamily, a combination of for-sale and rental units. As rental units constructed to IBC R-2 building standards, the multifamily parking requirements apply. Parking is primarily provided in garages and small shared lots, with visitor parking provided on-street.

Figure 6: Landbay S Parking

PARKING REQUIRED					
Use			Units or Sq Ft	Zoning Requirement ^C	Parking Required
Residential	New Multifamily	Bldg. O TH Multifamily	11	Plus 1 for each additional dwelling unit. 1 & 1/8 for each of the first 200 dwelling units in any structure.	3
Total					16
Parking requirements per AC	ZO section 14.3.7.				

PARKING PROVIDED							
Use			Units or Sq Ft	Proposed Ratio	Proposed Spaces		Provided Location of Spaces
		O - Multifamily	32	1.34 Spaces/Unit	45	43	Condo Garage
Residential	New Multifamily	O - Multifamily Visitor Parking		0.06 Spaces/Unit		2	On-street
Nesidentiat	New Pluttiality	TH Multifamily		1.71 Spaces/Unit		202	TH Garage
		TH Multifamily Vistor Parking	110	0.25 Spaces/Unit	201	29	On-street
Total					276		

Per the zoning code, a minimum of 169 spaces would be required for 150 multifamily residential units. In Landbay S, a total of 245 parking spaces are provided for the 150 multifamily units, for a ratio of 1.63/unit. A total of 31 visitor parking spaces are provided onstreet.

Parking During Construction

The proposed RiverHouse Neighborhood PDSP and Site Plans will ultimately include a Multi-Building Phasing Plan as described in Arlington's standard Site Plan conditions. This Phasing Plan will include information about providing parking for continuing residential tenants of existing RiverHouse buildings, as well as for construction-related vehicles. Phasing will be coordinated across Landbays N, C, and S. Priority will be placed on providing all such parking within the RiverHouse site. Given the abundance of underutilized surface parking on the site, it is anticipated that all or nearly all replacement and construction parking will be able to be accommodated.

⁹ https://www.arlingtonva.us/files/sharedassets/public/v/1/projects/documents/site-plan-projects/2022-site-plan-conditions-final-8.2.2022-cmo-version-clean.pdf, accessed 5/20/2024.