

# A MARKET FEASIBILITY STUDY OF: FAIRFAX VILLAGE

## A MARKET FEASIBILITY STUDY OF: FAIRFAX VILLAGE

Located At: 332 Fairfax Street Radford, Radford City, Virginia 24141

Effective Date: January 10, 2019 Report Date: January 28, 2019

Prepared for:
PJ Hornik
Southport Financial Services, Inc.
5403 W Gray Street
Tampa, FL 33609

Client Code: SFS600-192

Prepared by: Novogradac & Company LLP 11044 Research Blvd, Ste. 400 Austin, Texas, 78759





January 28, 2019

PJ Hornik Southport Financial Services, Inc. 5403 W Gray Street Tampa, FL 33609

Re: Market Study of Fairfax Village

332 Fairfax Street,

Radford, Radford City, Virginia 24141

Dear Mr. Hornik:

At your request, Novogradac & Company LLP has performed a study of the multifamily rental market in the Radford, Virginia area relative to the above-referenced Section 8 project. We have previously performed a preliminary rent analysis on the property that is the Subject of this report, effective May 28, 2018, and have performed two Rent Comparability Studies on the property that is the Subject of this report, effective July 6, 2018 and are completing an appraisal and RCS concurrently with this report.

The purpose of this market study is to assess the viability of Fairfax Village ("Subject"). The Subject is an existing 40-unit multifamily Section 8 property that will be renovated with LIHTC funding. The property will offer 40 subsidized two, three, and four-bedroom units restricted to 60 percent of the Area Median Income (AMI), or less. The following report provides support for the findings of the study and outlines the sources of information and the methodologies used to arrive at these conclusions. The scope of this report meets the 2019 market study requirements of the Virginia Housing Development Authority (VHDA) and conforms to VHDA guidelines. In addition to the addressee, additional users of this report include VHDA.

The National Council of Housing Market Analysts (NCHMA) is a professional organization chartered to promote the development of high quality market analysis for the affordable housing industry. Novogradac is a charter member of this organization. NCHMA has compiled model content standards for market studies. This report generally conforms to those standards. Any slight modifications or departures from those standards are considered incidental and result from the specific market study requirements of VHDA. The scope of the study is based on agreed upon procedures as outlined in the engagement letter and as summarized as follows:

- Analyzing the appropriateness of the proposed unit mix, rent levels, unit and complex amenities, and site.
- In-person inspection of the Subject property.
- Estimating the market rents, absorption rates and stabilized vacancy levels for the market area.
- Investigating the general economic health and conditions of the rental market.
- Complete a by-bedroom capture rate analysis that analyzes the level of potential income eligible tenants in the primary market area.
- Reviewing relevant public records and contacting appropriate public agencies.
- Brief analysis of the economic and social conditions in the market area, in relation to the proposed project.
- Establishing the Subject's Primary Market Area, if applicable.
- Surveying competing projects, both LIHTC and market-rate.

This report contains, to the fullest extent possible and practical, explanations of the data, reasoning, and analyses that were used to develop the opinions contained herein. The depth of discussion contained in the report is specific to the needs of the client.

Southport Financial Services, Inc. is the client in this engagement and intended user of this report. As our client Southport Financial Services, Inc. owns this report and permission must be granted from them before another third party can use this document. We assume that by reading this report another third party has accepted the terms of the

MR. PJ HORNIK SOUTHPORT FINANCIAL SERVICES, LLC JANUARY 2019 PAGE 2

original engagement letter including scope of work and limitations of liability. We are prepared to modify this document to meet any specific needs of the potential uses under a separate agreement.

The Stated Purpose of this assignment is to assist with underwriting and for submittal to VHDA for the purposes of obtaining LIHTC funding. You agree not to use the Report other than for the Stated Purpose, and you agree to indemnify us for any claims, damages or losses that we may incur as the result of your use of the Report for other than the Stated Purpose. Without limiting the general applicability of this paragraph, under no circumstances may the Report be used in advertisements, solicitations and/or any form of securities offering.

The authors of this report certify that we are not part of the development team, owner of the Subject property, general contractor, nor are we affiliated with any member of the development team engaged in the development of the Subject property or the development's partners or intended partners. Please do not hesitate to contact us if there are any questions regarding the report or if Novogradac & Company LLP can be of further assistance. It has been our pleasure to assist you with this project.

Respectfully submitted, Novogradac & Company LLP

Blair Kincer, MAI, CRE LEED Green Associate

Partner

Blair.Kincer@novoco.com

Yennifer Stapelfeld

Analyst

Jennifer.Stapelfeld@novoco.com

Lindsey Sutton Principal

Lindsey.Sutton@novoco.com

Molly Carpenter Junior Analyst

Molly.Carpenter@novoco.com

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### **EXECUTIVE SUMMARY**

The Subject is an existing 40-unit Section 8 rental development known as Fairfax Village. The Subject consists of 10 two-, 20 three-, and 10 four-bedroom units contained in five two-story townhome-style buildings and one single-story leasing office/maintenance storage shed. Additionally, two of the Subject's units are handicapped accessible, which are contained in single-story apartments. The Subject's buildings were originally built in 1979 and are constructed with wood siding exterior, a masonry block frame, and gabled, asphalt-shingled roofs. The Subject is located at 332 Fairfax Street in Radford, Virginia 24141. The Subject currently benefits from a 20-year term HAP contract (#VA36H027091) that covers all 40 of the Subject's units. The most recent HAP contract rent increase went into effect on November 19, 2017. As of the date of our inspection, the Subject was 97.5 percent occupied and had one vacant two-bedroom unit. Additionally, the Subject maintains a waiting list of 65 households.

The Subject is proposing renovations with LIHTC equity. Following rehabilitation, all of the Subject units will continue to receive Project-Based Section 8 rental assistance and will also be restricted to households earning 60 percent of AMI, or less. The renovations are anticipated to begin in the third quarter of 2019. Additionally, according to the client, the Subject is applying for a Chapter 15 mark-up-to-market restructuring of the current Section 8 contract.

The Subject is located in the eastern portion of Radford, which is a mixed-use neighborhood consisting of single-family homes in fair to good condition, multifamily uses, vacant wooded land, the Radford University uses, public uses, and commercial/retail uses in fair to good condition. Land uses to the north, east, and west of the Subject consist of residential single-family homes in fair to average condition. Land use to the south and east of the Subject is wooded land and single-family homes in average condition. Land use farther east of the Subject consists of the Radford University Recreation Center, multifamily uses, and retail and commercial uses along E Main Street. Uses east of the Subject site include Riverside Veterinary Clinic, Happy Stop Grocery, Radford Universal Car Care single-family homes in average to good condition, followed by Highland Village and Norwood Station Apartments. Highland Village was used as a rent comparable in our analysis. Overall, the majority of surrounding land uses are in fair to good condition.

The Subject's proposed rents are detailed in the following table.

### PROPOSED RENTS

Unit Type	Unit Size (SF)	Number of Units	Asking Rent	Utility Allowance (1)	Gross Rent	2018 LIHTC Maximum Allowable Gross Rent	HUD Fair Market Rents
			@60% (Se	ection 8)			
2BR / 1BA	855	10	\$843	\$100	\$943	\$943	\$869
3BR / 1.5BA	1,174	20	\$923	\$166	\$1,089	\$1,089	\$1,256
4BR / 2BA	1,333	10	\$1,066	\$149	\$1,215	\$1,215	\$1,526
		40					

Notes (1) Source of Utility Allowance provided by the Developer.

In general, we believe there is demand in the marketplace for the Subject as conceived. We recommend no changes to the general development scheme.

### Strengths

- As a newly renovated property, the Subject will exhibit similar to slightly superior condition relative to the majority of the comparable properties.
- The Subject's projected LIHTC rents represent a discount to the achievable market rents.
- The LIHTC vacancy at the comparable properties is 5.0 percent, which suggests a stable market for affordable housing.
- The Subject primarily offers a townhouse design for a majority of its units, which will offer appeal to family renters.

### Weaknesses

The Subject's unit sizes are at a market disadvantage to the average unit sizes at the comparables.



### Capture Rates - VHDA:

• The VHDA net demand and capture rate table illustrates demand for the Subject based on capture rates of income-eligible renter households. The following table illustrates the conclusions from this table.

Project Wide Capture Rate - Section 8 Units
Project Wide Capture Rate - LIHTC Units
Project Wide Absorption Period (Months)

2.7%	
3.4%	
3 months	

### Recommendations

• In general, we believe there is demand in the marketplace for the Subject as proposed. Additionally, the market has reported strong occupancy rates and waiting lists. The Subject will be well-positioned in the market. As a newly renovated property, the Subject will be in generally superior condition to most of the comparable properties. The market exhibits strong demand for affordable housing, with limited vacancy and strong absorption rates at LIHTC properties that have opened in the past three to four years. Further, the comparable LIHTC properties reported an overall average vacancy rate of five percent. Based on the performance of the comparable properties, we expect the Subject to operate with an annual vacancy and collection loss of five percent, or less. Based on the comparable data, we believe the proposed rental rates are not achievable at the maximum allowable levels. Thus, we have concluded to achievable LIHTC rents of \$825, \$900, and \$1,025 for the Subject's two-, three-, and four-bedroom units, respectively, at the 60 percent AMI levels. The Subject's rents offer significant market rent advantages. Overall, we believe there is demand for the Subject.

### B. INTRODUCTION AND SCOPE OF WORK

### INTRODUCTION AND SCOPE OF WORK

The purpose of this market study is to assess the viability of Fairfax Village ("Subject"). The Subject is an existing 40-unit multifamily Section 8 property that will be renovated with LIHTCs. Tenants at the Subject pay 30 percent of their income towards rent under the Section 8 subsidy. The property will offer 40 subsidized units restricted to 60 percent of the Area Median Income (AMI), or less. The sponsor has indicated that this report is being submitted to the Virginia Housing Development Authority (VHDA) for application purposes. The following report provides support for the findings of the study and outlines the sources of information and the methodologies used to arrive at these conclusions. The scope of this report meets the 2019 market study requirements of the Virginia Housing Development Authority (VHDA) and conforms to VHDA guidelines. In addition to the addressee, additional users of this report include VHDA.

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- Analyzing the appropriateness of the proposed unit mix, rent levels, unit and complex amenities, and site.
- In-person inspection of the Subject property.
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- Investigating the general economic health and conditions of the rental market.
- Complete a by-bedroom capture rate analysis that analyzes the level of potential income eligible tenants in the primary market area.
- Reviewing relevant public records and contacting appropriate public agencies.
- Brief analysis of the economic and social conditions in the market area, in relation to the proposed project.
- Establishing the Subject's Primary Market Area, if applicable.
- Surveying competing projects, both LIHTC and market-rate.





### **PROJECT DESCRIPTION**

**Location:** The Subject site is located at 332 Fairfax Street, Radford, Virginia 24141.

Site Description: The Subject site consists of approximately 3.60 acres, or 156,759 square feet. The Subject has average visibility from its western and northern

boundaries along Davis, Fairfax, and Burlington Streets.

Aerial Photo:



Source: Google Earth, January 2019

### **Proposed Rents and Unit Mix:**

The following table details the proposed rents and unit mix for the Subject.

### PROPOSED RENTS

Unit Type	Unit Size (SF)	Number of Units	Asking Rent	Utility Allowance (1)	Gross Rent	2018 LIHTC Maximum Allowable Gross Rent	HUD Fair Market Rents
			@60% (Se	ection 8)			
2BR / 1BA	855	10	\$843	\$100	\$943	\$943	\$869
3BR / 1.5BA	1,174	20	\$923	\$166	\$1,089	\$1,089	\$1,256
4BR / 2BA	1,333	10	\$1,066	\$149	\$1,215	\$1,215	\$1,526
		40					

Notes (1) Source of Utility Allowance provided by the Developer.

**Target Population:** 

The units will be rent restricted to households earning 60 percent of AMI, or less. All units will operate with full Section 8 subsidy, wherein tenants pay 30 percent of their income towards rent.

**Utility Structure:** 

Tenants are responsible for all electric expenses, which include general electric, electric cooking, electric water heating, and electric heating. The property covers cold water, sewer and trash expenses. Following the renovations, the utility structure will remain the same. The Subject currently utilizes a project-specific utility allowance of \$100, \$166, and \$149 for its two-, three-, and four-bedroom units, respectively. The utility structure varies among the comparable properties; we have adjusted the comparables' rents in accordance with the utility schedule obtained from the Virginia Housing Development Authority, effective July 1, 2018.

### HOUSING AUTHORITY UTILITY ALLOWANCE

UTILITY AND SOURCE	Paid By	2BR	3BR	4BR
Heating - Electric	Tenant	\$34	\$41	\$51
Cooking - Electric	Tenant	\$5	\$6	\$7
Other Electric	Tenant	\$18	\$22	\$28
Air Conditioning	Tenant	\$9	\$12	\$15
Water Heating - Electric	Tenant	\$16	\$20	\$25
Water	Landlord	\$30	\$36	\$46
Sewer	Landlord	\$35	\$43	\$55
Trash	Landlord	\$12	\$12	\$12
TOTAL - Paid By Landlord		\$77	\$91	\$113
TOTAL - Paid By Tenant	\$82	\$101	\$126	
TOTAL - Paid By Tenant Per HUD Rent Sched	\$100	\$166	\$149	
DIFFERENCE		122%	164%	118%

Source: Radford Dept. of Social Services and VHDA, effective 7/2018

### Unit Mix:

The following table illustrates the Subject's existing unit mix and size:

### UNIT MIX AND SQUARE FOOTAGE

Unit Type	# of Units	Unit Size (SF)	Net Rentable Area
2BR/1BA	10	855	8,550
3BR/1.5BA	20	1,174	23,480
4BR/2BA	10	1,333	13,330
Total	40		45,360

**Net Rentable Area:** 

Approximately 45,360 square feet as outlined in the table above.



**Unit Amenities:** 

The Subject's units currently offer a balcony/patio, blinds, carpeting, refrigerators, range/oven, central air conditioning, coat closet, exterior storage, and washer/dryer hookups. Microwaves, dishwashers, and washer/dryer appliances will be installed in all units post renovation. Further, laminate/vinyl flooring will be replaced and installed.

**Common Area Amenities:** 

The Subject's property features include a basketball court, off-street parking, on-site management, and a playground. It should be noted that based on information from the property manager at the time of inspection, management plans to convert the area currently being used as a maintenance shop into a community room. No other new common area amenities are proposed with the renovations.

**Security Features:** 

The Subject does not offer any security features.

Parking:

The Subject features off-street parking to its tenants at no additional cost. There are 64 surface parking spaces, which equates to a parking ratio of approximately 1.6 spaces per unit. Overall, the parking offered at the Subject is reasonable given its tenancy and proximity to public transportation. Further, there is ample on-street parking along Calhoun, Fairfax, Davis, and Burlington Streets.

**Number of Stories:** 

The Subject consists of 10 two-, 20 three-, and 10 four-bedroom units contained in five two-story townhome-style buildings and one single-story leasing office/maintenance storage shed. Additionally, two of the Subject's units are handicapped accessible, which are contained in single-story apartments.

**Date of Construction:** 

The Subject was originally built in 1979. Renovations are scheduled to commence in July 2019 and be completed in July 2020.

**Construction Details:** 

The scope of renovations will include, but not be limited to the following:

- Replace/upgrade kitchen appliances;
- New kitchen and bathroom cabinets and counter tops:
- Addition of in-unit microwaves and dishwashers:
- Addition of in-unit washer/dryer appliances;
- Replace/update bathroom and kitchen plumbing fixtures;
- Update site lighting fixtures/features;
- Patch/repair asphalt pavement, sidewalks, and walkways;
- New roofs; New HVAC systems;
- Replace front doors and install new sliding doors;
- Replace property and patio fencing;
- Replace/update in-unit finishes; Install laminate/vinyl planking and upgrade tile flooring;
- Upgrade common areas including hallways and on-site management office.
- Create new community area out of existing maintenance shed;

The total renovation hard costs are estimated to be \$1,705,440, or \$42,636 per unit. The construction timeline is anticipated to be 12 months, starting in July 2019, with an anticipated completion date of July 2020. Renovations are expected to occur with tenants in place to limit tenant disruption.



**Assisted Housing** 

Program: The Subject currently benefits from a 20-year term HAP contract (#VA36H027091) that covers all 40 of the Subject's units. The most recent

HAP contract rent increase went into effect on November 19, 2017. Additionally, according to the client, the Subject is applying for a Chapter 15

mark-up-to-market restructuring of the current Section 8 contract.

Target Population and Occupancy Type:

The Subject will be set-aside for low to moderate-income tenants restricted to households earning 60 percent of the AMI or less. Based on the unit mix and proposed rent levels, the qualified annual incomes for the Subject's units will range from \$0 to \$48,600 as a Section 8 property and \$32,331 to

\$48,600 as a LIHTC property absent subsidy.

Americans with

**Disabilities Act of 1990:** We assume the property does not have any violations of the Americans with

Disabilities Act of 1990.

Quality of Construction Condition and Deferred Maintenance:

We assume the Subject will be renovated in a timely manner consistent with

the information provided, using average-quality materials in a professional

manner.

Functional Utility: We reviewed plans for the Subject property and inspected the property; the

unit sizes and layout appear functional and market-oriented.

Conclusion: The Subject will be a newly renovated Section 8 and LIHTC property and will

exhibit good condition upon completion of renovations. The renovation of the

Subject is expected to be an improvement to the existing neighborhood.

### PROPERTY PROFILE REPORT

### Fairfax Village

Effective Rent Date 1/10/2019

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Marketing Began B#5
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Major Competitors BcbY fYdcfftYX

Tenant Characteristics A ]| YX h/bUbWnia U'cf]hmiZJa ] ]/Yg

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### **Utilities** Market Information A/C GYWMjcb', bch]bWi XYX"!! WblfU Program bchi]bWi XYX'!!'Y`YVMf]W Annual Turnover Rate %) ı Cooking B#5 Units/Month Absorbed Water Heat bch]bWi XYX"!! Y`YVMf]W **HCV** Tenants Heat bchi]bWi XYX'!!'Y`YVMf]W DfY! YUgYX ho hk c k YY\_g bch]bW XYX Leasing Pace Other Electric Annual Chg. in Rent BcbY Water ]bWi XYX Concession BcbY ]bWi XYX Sewer Trash Collection Waiting List ]bWi XYX

Unit Mix (face rent)												
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### **Unit Mix**

@60%	Face Rent	Conc.	Concd. Rent	Util. Adj.	Adj. Rent
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4BR / 2BA	~% <u>₹</u> \$**	~ <b>\$</b>	~% <u>₹</u> \$**	~ <b>\$</b>	~ % <del>ž</del> \$* *

### Fairfax Village, continued

### **Amenities**

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### Fairfax Village, continued

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### Fairfax Village, continued

### Photos













### **D.LOCATION**

### LOCATION

### **Description of the Site**

The location of a multifamily property can have a substantial negative or positive impact upon the performance, safety and appeal of the project. The site description discusses the physical features of the site, as well as the layout, access issues, and traffic flow.



Source: Google Earth, retrieved January 2019

Size: The Subject site consists of approximately 3.60 acres, or 156,759 square

**Shape:** The Subject consists of three irregularly shaped parcels.

Frontage: The Subject has frontage along the north side of Calhoun and Davis Streets, the east side of Burlington Street, and the north and south sides of Fairfax

Street.

**Topography:** The site is slightly sloping to level.

**Utilities:** All utilities are available to the site.

The Subject has average visibility from its western and northern boundaries along Davis, Fairfax, and Burlington Streets. The Subject is located in a residential neighborhood with generally limited traffic. To the north, east, and west of the Subject, views consist of single-family homes in fair to average condition. Views south of the Subject consist of wooded, undeveloped land along the length of the Subject's southern border. Additional views to the north consist of the Radford University Recreation Center, which exhibits good condition overall. Overall, visibility is considered average, and views are considered fair.



Visibility/Views:

**Surrounding Uses:** 

The Subject is located in the eastern portion of Radford, which is a mixeduse neighborhood consisting of single-family homes in fair to good condition, multifamily uses, vacant wooded land, the Radford University uses, public uses, and commercial/retail uses in fair to good condition. Land uses to the north, east, and west of the Subject consist of residential single-family homes in fair to average condition. Land use to the south and east of the Subject is wooded land and single-family homes in average condition. Land use farther east of the Subject consists of the Radford University Recreation Center, multifamily uses, and retail and commercial uses along E Main Street. Uses east of the Subject site include Riverside Veterinary Clinic, Happy Stop Grocery, Radford Universal Car Care single-family homes in average to good condition, followed by Highland Village and Norwood Station Apartments. Highland Village was used as a rent comparable in our analysis and Norwood Station Apartments was excluded based on the targeted student tenancy. Overall, the majority of surrounding land uses are in fair to good condition.

Access and Traffic Flow:

The Subject site is accessible by Calhoun, Davis, and Fairfax Streets, which are two lane residential roads that generally traverse east/west, and both connect to Jefferson Street 0.2 miles west. Jefferson Street is an arterial roadway along the southeast border of the Radford University's campus and also provides access to I-81, approximately 3.5 miles southeast. I-81 is a major highway providing access to Roanoke and Knoxville, TN, approximately 35 miles east and 228 miles southwest, respectively. The Subject has frontage along Calhoun Street, Fairfax Street, Burlington Street, and Clement Street. Overall, traffic in the Subject's immediate area is considered light, and access is considered average.

Layout and Curb Appeal:

Based on our inspection, the Subject has a functional layout for its intended use and offers average curb appeal. The following table summarizes various characteristics of the Subject site.

SUMMARY OF SUBJECT SITE					
Visibility	Average				
Views	Fair				
Access/Traffic Flow	Average/Light				
Layout/Curb Appeal	Average				

Drainage:

Appears adequate, however, no specific tests were performed. Further, Novogradac is not an expert in this field and cannot opine on this issue.

Soil and Subsoil Conditions:

Novogradac did not perform any soil and subsoil test upon inspection of the site, as this is beyond the scope of work. We have not been provided with a soil and subsoil report. We are not experts in this field and assume the soil is adequate for development.

**Environmental Assessment:** 

We requested but were not provided with a Phase I Environmental Report for the Subject. During our inspection, we walked the grounds of the Subject and the rear of the building and observed no obvious signs of detrimental environmental conditions. However, Novogradac and Company LLP does not have expertise in this field and cannot opine as to the adequacy of the soil conditions, drainage, or existence of adverse environmental conditions.



Flood Plain:

According to Flood Insights and Flood Insurance Rate Map Community Panel Number 5101270018C, dated September 2009, the Subject site is located in Zone X. Zone X is defined as an area outside 500-year floodplain, which is determined to be outside the .02 percent annual chance floodplains. Novogradac & Company LLP does not offer expertise in this field and cannot opine on this issue. Further analysis by Novogradac is beyond the scope of the report.



Source: FEMA Flood Map service center, January 2019

**Proximity to Adverse Conditions:** 

At the time of the site inspection, there were no detrimental influences observed that would adversely impact the marketability of the Subject.

### PHOTOGRAPHS OF SUBJECT AND NEIGHBORHOOD



SUBJECT SIGNAGE



SUBJECT EXTERIOR

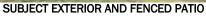


SUBJECT EXTERIOR AND PARKING



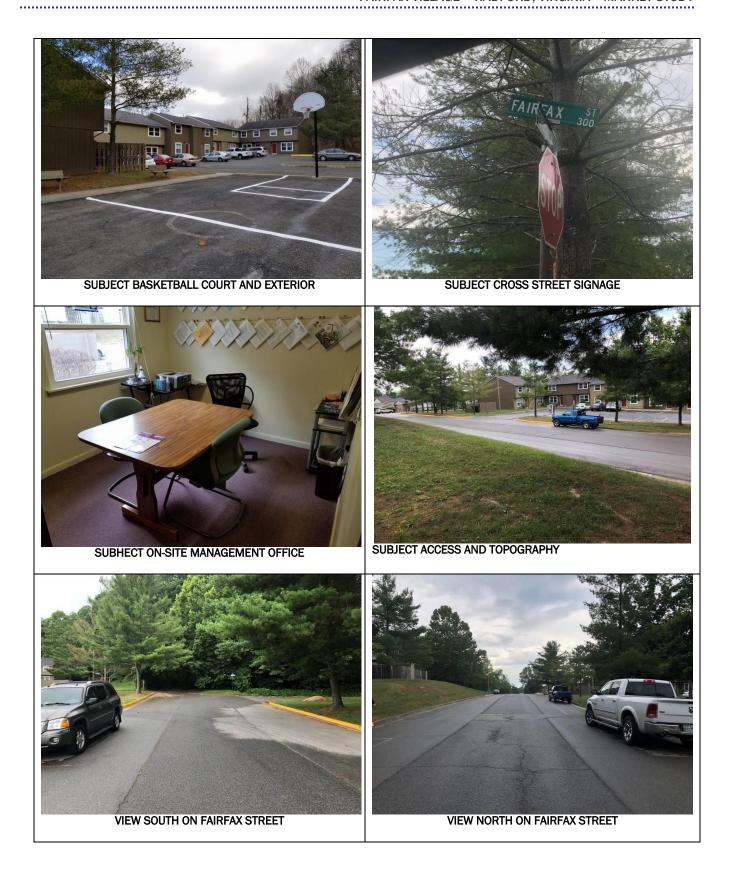
SUBJECT EXTERIOR







SUBJECT WALKWAY AND LEASING OFFICE





TYPICAL BEDROOM



TYPICAL BEDROOM



TYPICAL LIVING ROOM



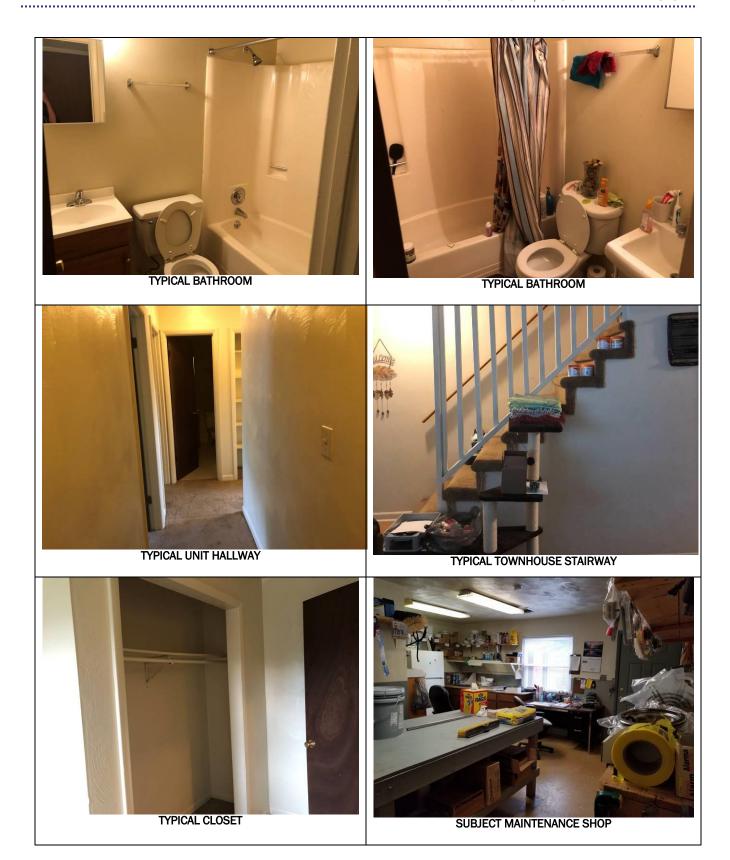
TYPICAL LIVING ROOM

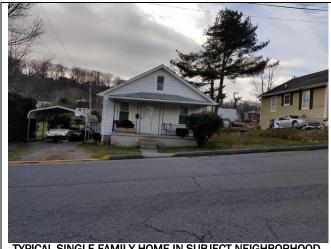


TYPICAL KITCHEN



TYPICAL KITCHEN







TYPICAL SINGLE-FAMILY HOME IN SUBJECT NEIGHBORHOOD

TYPICAL SINGLE-FAMILY HOME IN SUBJECT NEIGHBORHOOD





**RETAIL USE NEAR SUBJECT** 

POST OFFICE NEAR SUBJECT

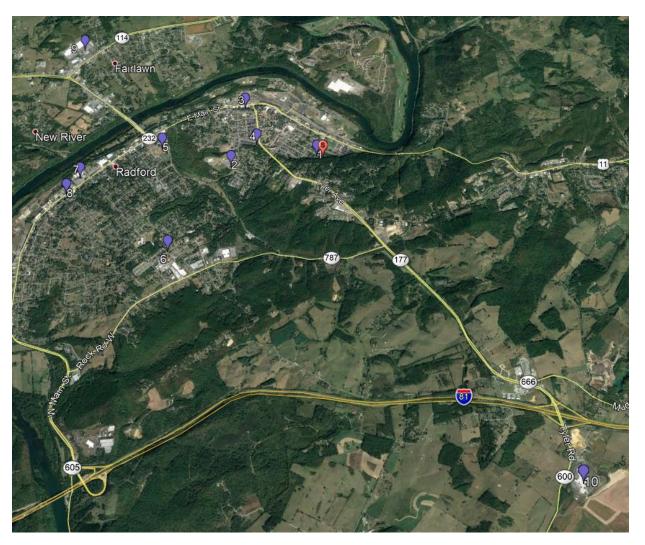




RADFORD UNIVERSITY RECREATION CENTER NEAR SUBJECT

**Proximity to Local Services:** 

The Subject is located in close proximity to services including area retail, medical facilities, and schools. The distances of various services from the Subject and a map of the locations are provided following.



### **LOCATIONAL AMENITIES**

Map #	Service or Amenity	Distance from Subject
1	Bus Stop	<0.1 Miles
2	Belle Heth Elementary School	1.2 Miles
3	Wells Fargo Bank	1.2 Miles
4	Virginia Secondary & Middle School	1.5 Miles
5	Radford High School	2.1 Miles
6	Radford Fire and Rescue Department	2.5 Miles
7	Radford City Police Department	2.9 Miles
8	Post Office	3.0 Miles
9	Walmart Supercenter	3.7 Miles
10	Carilion New River Valley Medical Center	4.7 Miles

### **Crime Statistics**

The following tables show crime statistics from 2017 for the PMA. The table below depicts crime indices in the PMA in comparison to that of the MSA and the nation. A crime index below 100 is below the national average and anything over 100 is above the nation's crime index average. A crime index of 75 in a PMA would be 25 percent below the national average while a crime rate of 200 would be twice that of the national average.

2018 CRIME INDICES

	PMA	Blacksburg- Christiansburg-Radford,				
Total Crime*	57	62				
Personal Crime*	31	34				
Murder	63	69				
Rape	70	76				
Robbery	14	15				
Assault	35	38				
Property Crime*	60	66				
Burglary	44	48				
Larceny	70	77				
Motor Vehicle Theft	23	25				

Source: Esri Demographics 2018, Novogradac & Company LLP, January 2018

As the previous table illustrates, crime indices in the PMA are below the MSA and significantly below the nation as a whole. The Subject's does not offer any security features, similar to eight of the comparables. The majority of the surveyed properties do not offer security features. Coupled with the low overall crime index in the PMA, the lack of security features offered by the Subject and the market does not appear to impact the marketability of the Subject. We believe the Subject is competitive in the market in terms of security features.

### **Public Transportation**

Radford Transit provides public transit services within the City of Radford via seven local bus routes that operate Monday through Friday from 7:00 AM to 10:00 PM. Fares are \$1.00 for one-way rides to the general public, children under 12 years ride for free, and monthly passes are available for \$20 per month. Adults ages 65 and older and passengers with a Radford Transit Disability Card ride for free. The closest bus stop is located at the intersection of Burlington and Fairfax Streets, on the Subject's north border, and is serviced by Route 50. Route 50 provides access to East Main Street, Radford University, and to all other bus routes at the Hub Transfer Center.

### **Conclusion**

The Subject is located in mixed-use neighborhood within Radford city limits, which consists of single-family homes in fair to good condition, multifamily uses, vacant wooded land, the Radford University uses, public uses, and commercial/retail uses in fair to good condition. Access to public transportation, groceries, pharmacy, and shopping is convenient. Overall, the Subject's location is considered good. The neighborhood is well suited for this type of affordable multifamily housing.



<sup>\*</sup>Unweighted aggregations



### **MARKET AREA DEFINITION**

### **Primary Market Area**

For the purpose of this study, it is necessary to define the competitive primary market area (PMA), or the area from which potential tenants for the project are likely to be drawn. In some areas, residents are very much "neighborhood oriented" and are generally very reluctant to move from the area where they have grown up. In other areas, residents are more mobile and will relocate to a completely new area, especially if there is an attraction such as affordable housing at below market rents.

The Subject property is located in Radford, Virginia. The boundaries of the PMA are defined below:

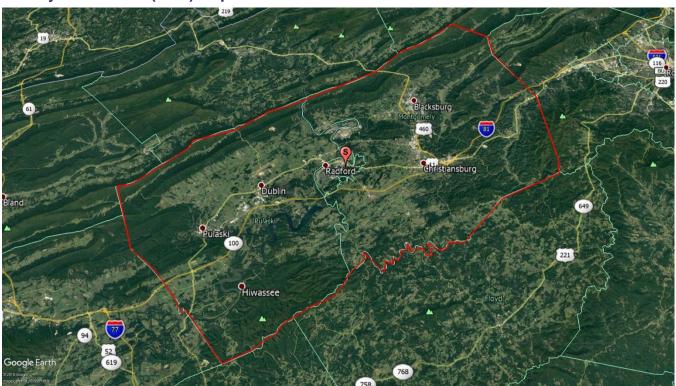
**North:** Pulaski and Montgomery County lines **South:** Pulaski and Montgomery County lines

**East:** Montgomery County line **West:** Pulaski County line

The PMA was determined based on input from area property managers, including the manager at the Subject property.

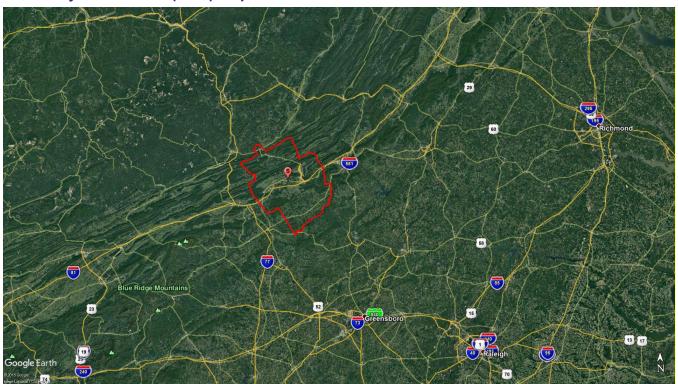
Per VHDA guidelines, analysts are not to include secondary or tertiary markets. In this case, we have conservatively defined the PMA for a multifamily development (also per specific VHDA guidance) and the secondary market area is simply presented as a source of comparison to the PMA.

### **Primary Market Area (PMA) Map**





### **Secondary Market Area (SMA) Map**



### F.EMPLOYMENT AND ECONOMY

### **ECONOMIC ANALYSIS**

The city of Radford has a strong and diverse economy that is concentrated within the education, healthcare, manufacturing, government, retail trade sectors, and arts/entertainment/recreation sectors. Radford University, a midsize public university, is the largest employer in the city of Radford. The other largest employers offered in Radford are diverse and are represented in the education, healthcare, and manufacturing sectors. Radford is an independent city and is surrounded by Montgomery and Pulaski Counties. As of the 2010 census, the population in Radford was 16.408.

### **Employment and Unemployment Trends**

The table below illustrates the total employment and unemployment rates for the Blacksburg-Christiansburg-Radford, VA MSA and nation as of October 2018.

**EMPLOYMENT & UNEMPLOYMENT TRENDS (NOT SEASONALLY ADJUSTED)** 

	Blacksburg-Christiansburg-Radford, VA Metropolitan Statistical Area					<u>usa</u>			
Year	Total	% Change	Unemployment Rate	Change	Total	% Change	Unemployment	Change te	
	Employment				Employment		Rate		
2002	77,117	-	4.9%	-	136,485,000	-	5.8%	-	
2003	79,505	3.1%	4.6%	-0.3%	137,736,000	0.9%	6.0%	0.2%	
2004	78,947	-0.7%	4.6%	-0.1%	139,252,000	1.1%	5.5%	-0.5%	
2005	80,394	1.8%	4.1%	-0.5%	141,730,000	1.8%	5.1%	-0.5%	
2006	81,467	1.3%	3.4%	-0.6%	144,427,000	1.9%	4.6%	-0.5%	
2007	81,683	0.3%	3.9%	0.5%	146,047,000	1.1%	4.6%	0.0%	
2008	83,335	2.0%	4.8%	0.9%	145,363,000	-0.5%	5.8%	1.2%	
2009	79,995	-4.0%	8.2%	3.4%	139,878,000	-3.8%	9.3%	3.5%	
2010	81,365	1.7%	8.3%	0.0%	139,064,000	-0.6%	9.6%	0.3%	
2011	83,543	2.7%	7.1%	-1.1%	139,869,000	0.6%	9.0%	-0.7%	
2012	84,884	1.6%	6.5%	-0.6%	142,469,000	1.9%	8.1%	-0.9%	
2013	85,719	1.0%	6.3%	-0.2%	143,929,000	1.0%	7.4%	-0.7%	
2014	86,055	0.4%	5.5%	-0.8%	146,305,000	1.7%	6.2%	-1.2%	
2015	86,371	0.4%	4.6%	-0.9%	148,833,000	1.7%	5.3%	-0.9%	
2016	85,998	-0.4%	4.7%	0.1%	151,436,000	1.7%	4.9%	-0.4%	
2017	86,533	0.6%	4.3%	-0.5%	153,337,000	1.3%	4.4%	-0.5%	
2018 YTD Average*	87,250	0.8%	3.3%	-1.0%	155,695,545	1.5%	3.9%	-0.4%	
Oct-2017	87,083	-	3.6%	-	154,223,000	-	3.9%	-	
Oct-2018	89,547	2.8%	2.8%	-0.8%	156,952,000	1.8%	3.5%	-0.4%	

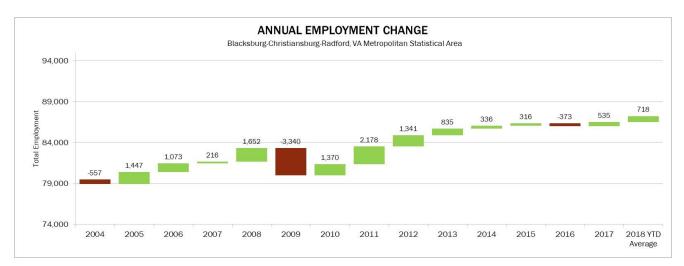
Source: U.S. Bureau of Labor Statistics, January 2019

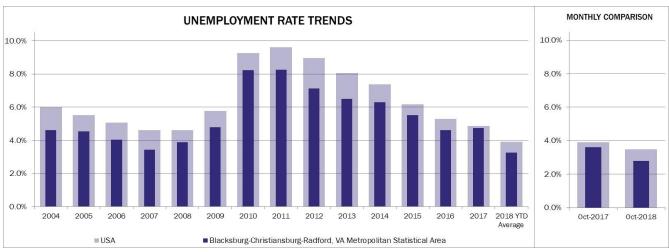
Prior to the national recession, average employment growth in the MSA generally trailed the nation. Annual job growth in the MSA lagged the nation in all but two years between 2003 and 2007. Comparatively speaking, the MSA economy performed well during the recession. Total MSA employment contracted by only 4.0 percent (2008-2009), less than the 4.8 percent decline reported by the overall nation (2007-2010). Employment in the MSA recovered and surpassed pre-recessionary levels in 2011, three years prior to the overall nation. More recently, average employment growth in the MSA lagged the nation in every year since 2012. As of October 2018, total employment in the MSA is at a post-recessionary record and increasing at an annualized rate of 2.8 percent, compared to 1.8 percent across the overall nation.

The MSA experienced a lower average unemployment rate relative to the overall nation during the years preceding the recession. Unemployment in the MSA reached a historic low in 2006, a year before the overall nation. The local labor market demonstrated relative strength during the recession, as the rate of unemployment increased by only 4.4 percentage points, compared to a 5.0 percentage point increase across the overall nation. Since 2012, the MSA generally experienced a lower unemployment rate compared to the overall nation. According to the most recent labor statistics, the unemployment rate in the MSA is 2.8 percent, lower than the current national unemployment rate of 3.5 percent. Overall, the local economy appears to have fully recovered from the national recession and entered into an expansionary phase.



<sup>\*2018</sup> data is through October





# **Employment by Industry**

The following table depicts employment by industry in the Primary Market Area (PMA) and the nation.

2018 FMPI OYMENT BY INDUSTRY

PMA Percent Employed 24.1% 11.6%	Number Employed 14,568,337	Percent Employed 9.2%
24.1% 11.6%	Employed 14,568,337	Employed
24.1% 11.6%	14,568,337	
11.6%		0.2%
		J.Z/0
	17,381,607	11.0%
11.1%	15,694,985	9.9%
10.9%	11,958,374	7.6%
10.2%	22,154,439	14.0%
6.5%	11,673,939	7.4%
4.1%	7,758,801	4.9%
4.1%	10,333,928	6.5%
3.5%	7,345,537	4.7%
2.8%	6,943,459	4.4%
2.1%	7,284,572	4.6%
2.0%	6,660,099	4.2%
1.8%	3,672,444	2.3%
1.4%	3,165,171	2.0%
1.3%	2,881,691	1.8%
1.1%	4,028,405	2.6%
0.6%	1,433,069	0.9%
0.5%	2,273,158	1.4%
0.1%	591,596	0.4%
0.0%	87,511	0.1%
100.0%	157,891,122	100.0%
	10.2% 6.5% 4.1% 4.1% 3.5% 2.8% 2.1% 2.0% 1.8% 1.4% 1.3% 6.6% 0.5% 0.1% 0.0%	10.9% 11,958,374 10.2% 22,154,439 6.5% 11,673,939 4.1% 7,758,801 4.1% 10,333,928 3.5% 7,345,537 2.8% 6,943,459 2.1% 7,284,572 2.0% 6,660,099 1.8% 3,672,444 1.4% 3,165,171 1.3% 2,881,691 1.1% 4,028,405 0.6% 1,433,069 0.5% 2,273,158 0.1% 591,596 0.0% 87,511

Source: Esri Demographics 2018, Novogradac & Company LLP, January 2018

Employment in the PMA is concentrated in the educational services, retail trade, and manufacturing industries, which collectively comprise 46.9 percent of local employment. The large share of PMA employment in retail trade and manufacturing is notable as both industries are historically volatile, and prone to contraction during recessionary periods. However, the PMA also has a significant share of employment in the educational services industry, which is historically known to exhibit greater stability during recessionary periods. Relative to the overall nation, the PMA features comparatively greater employment in the educational services, accommodation/food services, and manufacturing industries. Conversely, the PMA is underrepresented in the healthcare/social assistance, finance/insurance, and construction industries.

# **Major Employers**

The following table illustrates the major employers in the city of Radford. It should be noted that we were unable to obtain employee counts for each employer.

#### MAJOR EMPLOYERS - RADFORD, VA

Employer	Industry
Radford University	Education
Kollmorgen Corporation	Manufacturing
City of Radford	Government
Radford City School Board	Education
Wackenhut Services Inc	Security Services
Radford Nursing & Rehabilitation	Healthcare Services
Pyrotechnique by Grucci	Manufacturing
Marty, Inc.	Manufacturing
Techlab Inc	Manufacturing
Macado's Inc.	Food Services
U.S. Department of Defense	Government
Harvey Chevrolet Corporation	Retail Trade

Source: Virginia Employment Commission, Novogradac & Company, January 2019

The largest employers in the city of Radford are within the education, healthcare, manufacturing, government, and retail trade sectors. The large portion of major employers in the healthcare and government sectors provides a stable employment base for a large portion of the workforce. The major employers in the area provide employment for a broad range of workers, spanning hi-tech, skilled, and service occupations.

# **Employment Contraction/Expansion**

We consulted the Virginia Employment Commission's Worker Adjustment and Retraining Notification (WARN) filings to determine the reported contractions within the Western Virginia Region, which includes the counties of Roanoke, Montgomery, Radford City, Pulaski, Franklin, Wythe, and surrounding areas from 2016 to 2019 YTD. The notices are summarized in the table below.

WARN LISTINGS
WESTERN VIRGINIA REGION (2016 - 2019 YTD)

Company	Industry	City	Employees Affected	Layoff Date
Ammar's, Inc.	Retail Trade	Bluefield	97	10/2/2018
Ammar's, Inc.	Retail Trade	Pulaski	28	10/2/2018
Ammar's, Inc.	Retail Trade	Galax	30	10/2/2018
Avante	Healthcare Services	Roanoke	78	5/31/2018
Dish Network	Telecommunications	Christiansburg	570	5/15/2018
Walmart-Roanoke #3618	Retail Trade	Roanoke	72	1/8/2018
Shaw Industries Group, Inc.	Manufacturing	Stuart	166	10/31/2017
Cardinal Logistics Management Corp	<b>Professional Services</b>	Salem	69	12/2/2017
JCPenney	Retail Trade	Roanoke	72	7/31/2017
LSC Communications	<b>Commercial Printing</b>	Salem	140	7/23/2017
FreightCar America, Inc.	Transportation	Roanoke	364	4/24/2017
Volvo Group Trucks Operations	Transportation	Dublin	519	2/13/2016
Chubb	Insurance	Salem	71	12/31/2016
Nordson Corporation	Manufacturing	Pulaski	146	5/1/2017
HSN	Retail Trade	Roanoke	257	8/10/2016
Total			2,679	

Source: Virginia Employment Commission, retrieved January 2019

As illustrated, there have been 15 WARN notices impacting 2,679 workers in the Western Virginia Region area since 2016. Taken in context with the size of the local labor markets and the business expansions outlined below, this is a



relatively small number of documented layoffs within the past three years and can be considered an indicator of a generally healthy local economy.

# **Employment Expansion/Contractions**

We attempted to contact the City of Radford's Office of Economic Development regarding any new employment expansions or contractions in the area. However, as of the date of this report, our calls and emails had not been returned. Further, we researched the Montgomery County Office of Economic Development website and various online articles for additional expansions in the region. Our findings are detailed below.

 Oran Safety Glasses (OSG), a manufacturer of specialty glass for buses, military vehicles, and trains, will invest \$4.45 million to expand its manufacturing operation in Montgomery County. This expansion will create 55 new jobs for the area.

# **Wages by Occupation**

The following table illustrates the mean hourly and annual wages for various occupations in the Blacksburg-Christiansburg-Radford, VA MSA; information at the PMA level was not available.

BLACKSBURG-CHRISTIANSBURG-RADFORD, VA METROPOLITAN STATISTICAL AREA - 2ND QTR 2017 AREA

Occupation	Number of Employees	Mean Hourly Wage	Mean Annual Wage
All Occupations	69,280	\$20.66	\$42,960
Management Occupations	2,170	\$50.99	\$106,070
Legal Occupations	230	\$37.05	\$77,070
Architecture and Engineering Occupations	1,150	\$34.75	\$72,280
Computer and Mathematical Occupations	1,460	\$33.68	\$70,050
Business and Financial Operations Occupations	2,560	\$33.54	\$69,770
Healthcare Practitioners and Technical Occupations	3,370	\$30.43	\$63,300
Life, Physical, and Social Science Occupations	1,000	\$27.27	\$56,710
Arts, Design, Entertainment, Sports, and Media Occupations	760	\$24.02	\$49,960
Community and Social Service Occupations	1,290	\$19.51	\$40,590
Installation, Maintenance, and Repair Occupations	2,860	\$18.90	\$39,310
Production Occupations	8,740	\$18.33	\$38,130
Construction and Extraction Occupations	2,270	\$18.30	\$38,050
Protective Service Occupations	1,490	\$17.43	\$36,260
Office and Administrative Support Occupations	9,340	\$15.01	\$31,220
Sales and Related Occupations	6,470	\$14.48	\$30,110
Transportation and Material Moving Occupations	3,550	\$14.05	\$29,230
Healthcare Support Occupations	1,260	\$13.73	\$28,550
Farming, Fishing, and Forestry Occupations	140	\$13.36	\$27,780
Personal Care and Service Occupations	2,040	\$12.19	\$25,360
Building and Grounds Cleaning and Maintenance Occupations	2,050	\$12.18	\$25,340
Food Preparation and Serving Related Occupations	6,970	\$10.62	\$22,090
Education, Training, and Library Occupations	8,120	n/A	n/A

Source: Department Of Labor, Occupational Employment Statistics, 5/2017, retrieved 1/2019

The table above shows the average hourly and annual wages by occupation classification. The classification with the lowest average hourly wage is food preparation and serving related occupations at \$10.62 per hour. The highest average hourly wage, of \$50.99, is for those in management occupations. Qualifying income for the Subject's affordable units will range between \$0 and \$0 under the proposed scenario. Absent subsidy, qualifying incomes of the Subject's tenants will range from \$32,331 to \$48,600. This encompasses a significant amount of the employment based on wages in the area.



An element not reflected in the data is that many positions represent part-time employment, and starting rates are typically lower than mean wage rates. We expect that part-time employment and entry-level positions will be common amongst the Subject's tenant base. An element not reflected in the wage rate data is that many positions represent part-time employment, and the starting rates are typically lower than mean wage rates. Household income data shown later in this report demonstrates a significant number of households within the region have earnings of less than \$30,000.

# **Commuting Patterns**

The chart below shows the travel time to work for the PMA according to US Census data.

#### **COMMUTING PATTERNS**

Number of Commuters	Percentage
2,546	3.9%
11,188	17.0%
14,020	21.3%
11,870	18.0%
8,837	13.4%
3,815	5.8%
5,375	8.2%
1,625	2.5%
1,499	2.3%
2,447	3.7%
1,754	2.7%
954	1.4%
21 minutes	
	2,546 11,188 14,020 11,870 8,837 3,815 5,375 1,625 1,499 2,447 1,754

Source: US Census 2018, Novogradac & Company, LLP January 2018

As shown in the preceding table, the weighted average commute time in the PMA is approximately 21 minutes. More than 73 percent of PMA commuters travel under 24 minutes, indicating many households work in the local area. The average commute time across the overall nation is approximately 28 minutes.

#### **Conclusion**

Employment in the PMA is concentrated in the educational services, retail trade, and manufacturing industries, which collectively comprise 46.9 percent of local employment. The large share of PMA employment in retail trade and manufacturing is notable as both industries are historically volatile, and prone to contraction during recessionary periods. However, the PMA also has a significant share of employment in the educational services industry, which is historically known to exhibit greater stability during recessionary periods. The MSA economy performed well during the recession, suffering only a 4 percent employment contraction, compared to a 4.8 percent decline across the overall nation. Employment in the MSA recovered and surpassed pre-recessionary levels in 2011, three years prior to the overall nation. As of October 2018, total employment in the MSA is at a post-recessionary record and increasing at an annualized rate of 2.8 percent, compared to 1.8 percent across the overall nation. Overall, the local economy appears to have fully recovered from the national recession and entered into an expansionary phase.



# G. DEMOGRAPHIC CHARACTERISTICS

# **General Population and Household Trends**

The following tables illustrate general population and households in the PMA, the SMA and the nation from 2000 through 2023.

#### **POPULATION**

Year	PMA Blacksburg-Christiansburg- Radford, VA MSA		U	ISA		
	Number	Annual Change	Number	Annual Change	Number	Annual Change
2000	134,627	-	164,773	-	281,038,168	-
2010	145,688	0.8%	178,237	0.8%	308,745,538	1.0%
2018	153,091	0.6%	186,332	0.6%	330,088,686	0.8%
2023	157,000	0.5%	190,580	0.5%	343,954,683	0.8%

Source: Esri Demographics 2018, Novogradac & Company LLP, January 2019

#### **HOUSEHOLDS**

Year	PMA B		ear PMA Blacksburg-Christiansburg- Radford, VA MSA		ι	JSA
	Number	Annual Change	Number	Annual Change	Number	Annual Change
2000	51,448	-	64,062	-	105,403,008	-
2010	56,530	1.0%	70,154	1.0%	116,716,296	1.1%
2018	59,061	0.5%	72,946	0.5%	124,110,017	0.8%
2023	60,511	0.5%	74,471	0.4%	128,855,931	0.8%

Source: Esri Demographics 2018, Novogradac & Company LLP, January 2019

Historical population growth in the PMA remained relatively stable between 2000 and 2010. Population growth in the PMA slowed between 2010 and 2018, and was similar to the MSA. Growth in both geographic areas remained below the nation during the same time period. According to ESRI demographic projections, annualized PMA growth is expected to remain relatively stable at 0.5 percent through 2023, similar to projected growth in the MSA. However, growth in both geographic areas is expected to trail the nation. Historical household growth in the PMA remained relatively stable between 2000 and 2010. Household growth in the PMA slowed between 2010 and 2018, and was similar to the MSA. Growth in both geographic areas remained below the nation during the same time period. According to ESRI demographic projections, annualized PMA growth is expected to remain relatively stable at 0.5 percent through 2023, similar to projected growth in the MSA. However, growth in both geographic areas is expected to trail the nation.

#### **Average Household Size**

The following table is a summary of the average household size in the PMA, the MSA and the nation from 2000 through 2023. This table includes households of all ages.

# **AVERAGE HOUSEHOLD SIZE**

Year	РМА		Blacksburg-Christiansburg- Radford, VA MSA		USA	
	Number	Annual Change	Number	Annual Change	Number	Annual Change
2000	2.36	-	2.37	-	2.59	-
2010	2.33	-0.1%	2.34	-0.1%	2.58	-0.1%
2018	2.36	0.1%	2.36	0.1%	2.59	0.1%
2023	2.36	0.1%	2.37	0.1%	2.61	0.1%

Source: Esri Demographics 2018, Novogradac & Company LLP, January 2018

As shown in the previous table, the household size in the PMA remained stable from 2000 to 2018. Additionally, the average household size in the PMA is similar to the MSA and both are slightly below the average household size of the overall nation, at 2.59. The PMA is projected to increase at a similar rate to the surrounding MSA and the nation through 2023.



#### **Median Household Income Levels**

The following table illustrates the median household income for all households in the PMA, the SMA, and the nation from 2000 through 2023.

#### MEDIAN HOUSEHOLD INCOME

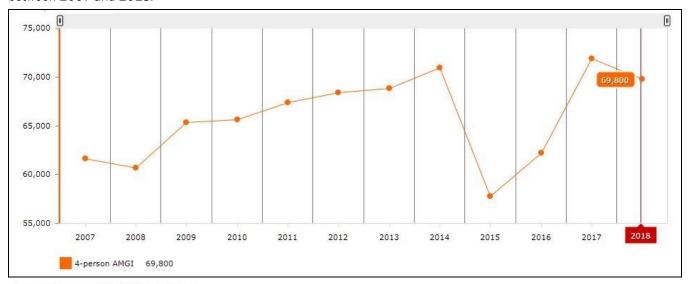
Year	Blacksburg-Christiansburg- PMA Radford, VA MSA		USA			
	Amount	Annual Change	Amount	Annual Change	Amount	Annual Change
2000	\$21,237	-	\$30,924	-	\$44,872	-
2018	\$45,426	6.2%	\$46,096	2.7%	\$58,100	1.6%
2023	\$51,736	2.8%	\$52,653	2.8%	\$65,727	2.6%

Source: Esri Demographics 2018, Novogradac & Company LLP, January 2018

As of 2018, the median income in the PMA is similar the surrounding MSA. Median household income growth in the PMA exceeded the MSA between 2000 and 2018. Income growth in both geographic areas exceeded the overall nation during this time period. In particular, median income in the PMA rose from 47 percent of the national median income in 2000 to 78 percent in 2018. The overall rise in median income levels reflects a market where lower income households may be priced out by more affluent households. It also indicates that affordable housing properties should prosper in the future as incomes and, therefore, achievable rents rise. According to ESRI demographic projections, annualized PMA growth is expected to decline significantly to 2.8 percent through 2023, similar to the MSA, but above the overall nation.

#### **Area Household Income Levels**

The following chart illustrates the area median gross income (AMGI) of a four-person household in Radford City County between 2007 and 2018.



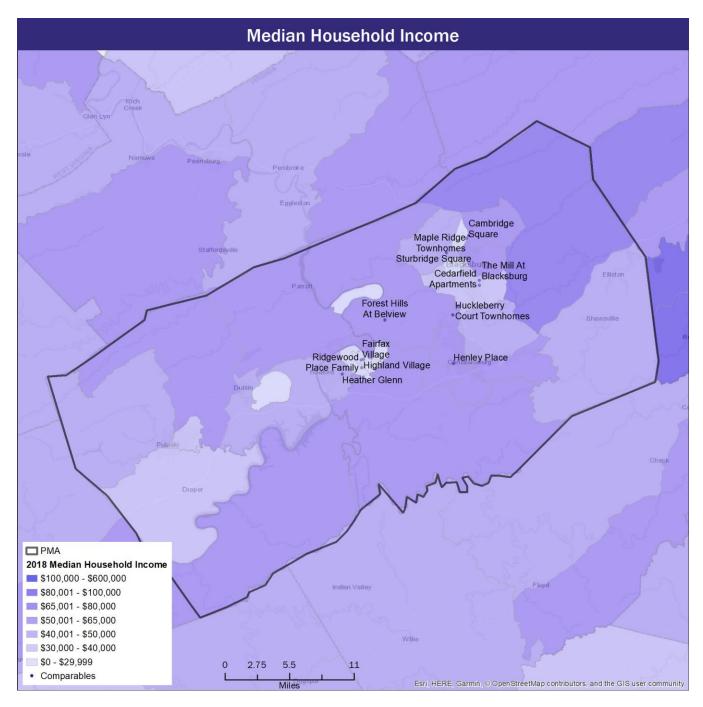
#### Average Increase (AMGI): 1.1%/year

Source: Novogradac & Company LLP, January 2019

Overall, the AMI in Radford City has increased by an average of 1.1 percent annually between 2007 and 2018. The chart above illustrates that the AMI in the county of Radford City has generally increased since 2008, with the exception of 2015 and 2018. As of 2018, the AMI in the county is \$69,800. In 2013, the AMI decreased in approximately 84 percent of counties nationwide based on a HUD methodological change. Radford City was not affected by this methodology change, and instead, increased in 2013 and 2014. However, these increases were subsequently followed by a significant decrease in 2015, where the AMI declined 18.5 percent. Further, it should be noted that the AMI in Radford City increased in 2016 and reached its highest AMI level in 2017 at \$71,900. However, the AMI experienced a slight decrease in 2018 and is currently 3.4 percent from its peak. The Subject's proposed rents are set at the 2018 maximum allowable levels; therefore, rent increases will be dependent on AMI growth.



The following map illustrates median household income throughout the PMA for the Subject and the rent comparables as of 2018.



# **Household Income Distribution**

The following tables illustrate the household income distribution for the PMA and MSA for 2018 and 2023.

#### **HOUSEHOLD INCOME PMA**

PMA						
Income Cohort	20	018	202	23	<b>Annual Change</b>	2018 to 2023
	Number	Percentage	Number	Percentage	Number	Percentage
\$0-9,999	7,435	12.6%	7,234	12.0%	-40	-0.5%
\$10,000-19,999	7,455	12.6%	7,217	11.9%	-48	-0.6%
\$20,000-29,999	6,427	10.9%	6,471	10.7%	9	0.1%
\$30,000-39,999	5,654	9.6%	5,452	9.0%	-40	-0.7%
\$40,000-49,999	5,884	10.0%	5,895	9.7%	2	0.0%
\$50,000-59,999	4,742	8.0%	4,764	7.9%	4	0.1%
\$60,000-74,999	5,341	9.0%	5,532	9.1%	38	0.7%
\$75,000-99,999	5,875	9.9%	6,269	10.4%	79	1.3%
\$100,000-124,999	4,044	6.8%	4,404	7.3%	72	1.8%
\$125,000-149,999	2,239	3.8%	2,589	4.3%	70	3.1%
\$150,000-199,999	1,922	3.3%	2,243	3.7%	64	3.3%
\$200,000+	2,043	3.5%	2,441	4.0%	80	3.9%
Total	59,061	100.0%	60,511	100.0%		

Source: HISTA Data / Ribbon Demographics 2018, Novogradac & Company LLP, January 2019

#### HOUSEHOLD INCOME SMA

				•				
	SMA							
Income Cohort	20	018	202	23	<b>Annual Change</b>	2018 to 2023		
	Number	Percentage	Number	Percentage	Number	Percentage		
\$0-9,999	8,256	11.3%	7,991	10.7%	-53	-0.6%		
\$10,000-19,999	9,095	12.5%	8,711	11.7%	-77	-0.8%		
\$20,000-29,999	8,019	11.0%	7,976	10.7%	-9	-0.1%		
\$30,000-39,999	6,916	9.5%	6,666	9.0%	-50	-0.7%		
\$40,000-49,999	7,382	10.1%	7,245	9.7%	-27	-0.4%		
\$50,000-59,999	6,241	8.6%	6,187	8.3%	-11	-0.2%		
\$60,000-74,999	6,992	9.6%	7,244	9.7%	50	0.7%		
\$75,000-99,999	7,575	10.4%	8,082	10.9%	101	1.3%		
\$100,000-124,999	5,124	7.0%	5,590	7.5%	93	1.8%		
\$125,000-149,999	2,805	3.8%	3,295	4.4%	98	3.5%		
\$150,000-199,999	2,155	3.0%	2,638	3.5%	97	4.5%		
\$200,000+	2,386	3.3%	2,846	3.8%	92	3.9%		
Total	72,946	100.0%	74,471	100.0%				

Source: HISTA Data / Ribbon Demographics 2018, Novogradac & Company LLP, January 2019

As of 2018, approximately 36.1 percent of households within the PMA have annual incomes below \$30,000. Through 2023, the percentage of low-income households earning less than \$30,000 annually is projected to decline slightly to 34.6 percent.

#### Conclusion

The PMA is an area of mild population and household growth. Through 2023, the population in the PMA and SMA are both projected to increase at an annual rate of 0.5 percent. As of 2018, approximately 54.3 percent of renter households within the PMA have annual incomes below \$30,000. Through 2023, the percentage of low-income renter households is projected to decline slightly; however, 52.4 percent of renter households within the PMA will still earn less than \$30,000 annually. Although this percentage is decreasing, the need for affordable housing is still evident as over 50 percent of renter households earn less than \$30,000 annually. The income limitations for the Subject will range from \$32,331 to \$48,600. Based on the mild population growth and relatively stable percentage of renter households projected in the PMA, the large percentage of renters with low incomes, coupled with an aging housing stock, we can project that there will continue to be substantial demand for new or renovated affordable housing units within the PMA.



# H. COMPETITIVE ENVIRONMENT

# **SUPPLY ANALYSIS**

# **Tenure Patterns**

The table below shows the breakdown of households by tenure within the Subject's PMA.

#### **Household Tenure**

The following table illustrates the breakdown of households by tenure within the Subject's PMA.

#### **TENURE PATTERNS PMA**

Year	Owner-Occupied Units	Percentage Owner- Occupied	Renter-Occupied Units	Percentage Renter- Occupied
2000	30,426	59.1%	21,022	40.9%
2018	31,710	53.7%	27,351	46.3%
2023	33,091	54.7%	27,420	45.3%

Source: Esri Demographics 2018, Novogradac & Company LLP, January 2019

As of 2018, approximately 46.3 percent of households in the PMA reside in renter-occupied housing units. Through 2023, the percentage of renter-occupied housing units in the PMA is projected to slightly decrease, while the number of renter-occupied housing units is projected to increase by approximately 69 units.

#### **Renter Household Size Distribution**

The following table illustrates the breakdown of renter households by number of persons in the household within the Subject's PMA.

#### PMA RENTER HOUSEHOLD SIZE DISTRIBUTION

	2000		2018		2023	
Household Size	Total Households	Percent	Total Households	Percent	Total Households	Percent
1 persons	7,134	33.9%	9,980	36.5%	10,037	36.6%
2 persons	6,552	31.2%	8,218	30.0%	8,165	29.8%
3 persons	3,859	18.4%	4,872	17.8%	4,903	17.9%
4 persons	2,747	13.1%	3,264	11.9%	3,275	11.9%
5+ persons	730	3.5%	1,017	3.7%	1,040	3.8%
Total	21,022	100.0%	27,351	100.0%	27,420	100.0%

Source: Esri Demographics 2018, Novogradac & Company LLP, January 2019

Historically, the majority of renter households in the PMA have consisted of one and two-person households. The Subject will target three, four, and five-person households. Through 2023, the number of three, four, and five-person renter households is projected to slightly increase, while the percentage of three, four, and five-person renter households is expected to remain relatively stable during the same time period. The projected increase in total number of renter households, and the household size composition of renter households in the PMA is a positive indicator for the Subject's affordable rental units.



# **Building Permits**

Historical building permit information for Radford City County, obtained from the U.S. Census Bureau, is presented in the following chart.

BUILDING PERMITS: RADFORD COUNTY - 2002 to 2018 YTD

Year	Single-family and Duplex	Three and Four- Family	Five or More Family	Total Units
2002	55	0	40	95
2003	55	4	5	64
2004	30	0	26	56
2005	20	0	52	72
2006	19	0	46	65
2007	20	0	0	20
2008	13	0	6	19
2009	11	0	0	11
2010	15	0	15	30
2011	8	0	35	43
2012	8	0	5	13
2013	14	0	80	94
2014	10	0	0	10
2015	4	0	0	4
2016	11	4	0	15
2017	15	3	10	28
2018*	0	0	0	0
Total**	339	11	320	670
Average**	18	1	17	35
+Through August (	2010			

<sup>\*</sup>Through August 2018

Source: US Census Bureau Building Permits, January 2019

As illustrated in the previous table, building permits for residential units in Radford County have been generally evenly split between single-family homes and multifamily dwellings with five or more units. It should be noted that reporting of permit data by the county to the census is done on a voluntary basis.

# **Age of Housing Stock**

The age of the area housing stock is presented in the following table:

#### HOUSING STOCK BY YEAR BUILT

	PMA	Percentage							
Built 2005 or later	1,262	2.0%							
Built 2000 to 2004	9,716	15.4%							
Built 1990 to 1999	10,112	16.1%							
Built 1980 to 1989	9,943	15.8%							
Built 1970 to 1979	12,577	20.0%							
Built 1960 to 1969	6,460	10.3%							
Built 1950 to 1959	4,701	7.5%							
Built 1940 to 1949	3,649	5.8%							
Built 1939 or earlier	4,471	7.1%							
Total Housing Units	62,891	100.0%							

Source: Esri Demographics 2018, Novogradac & Company LLP, January 2019

Of the housing stock in the PMA, 69.3 percent was constructed after 1970, with the largest percentage built between 1970 and 1979, followed by housing stock built between 1990 and 1999. Further, the PMA exhibits a mix of relatively older housing stock along with new housing stock, as 17.5 percent of the housing stock was built in 2000 or later. The data does not reflect condition, which oftentimes is well-maintained through ongoing maintenance. The field inspection of the area reflects a varied housing stock, generally in fair to average condition.



<sup>\*\*</sup>Excludes 2018

# **Description of Property Types Surveyed**

Comparable properties are examined on the basis of physical characteristics; i.e., building type, property age/quality, level of common amenities, and absorption rates, as well as similarity in rent structure. We attempted to compare the Subject to properties from the competing market, in order to provide a picture of the general economic health and available supply in the local rental market.

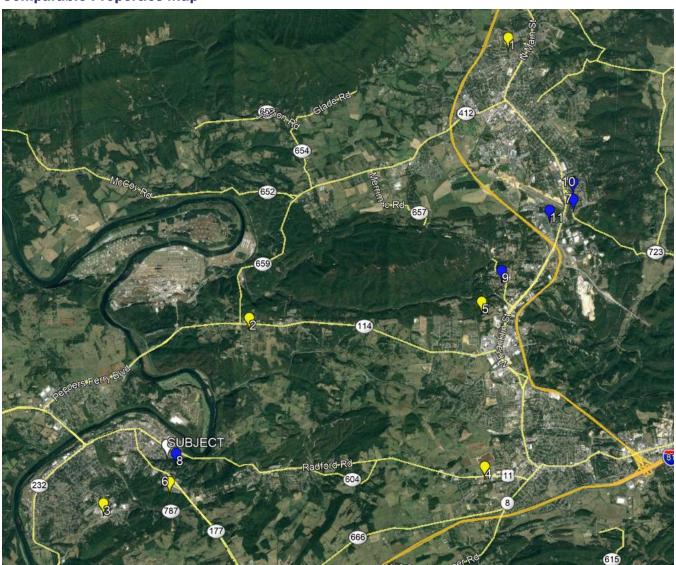
To evaluate the competitive position of the Subject, we surveyed a total of 1,304 units in 11 rental properties that are all located within the PMA. The LIHTC data is considered fair. We included six affordable developments in our analysis, three of which offer rents at the 60 percent of AMI level, and the remaining three offer rents at the 40 and 50 percent of AMI levels. The market rate data in Radford is considered average, thus we expanded our search to nearby cities and have included five market rate properties located within 9.7 miles from the Subject site, all of which are located within the PMA. Overall, we believe the availability of data is adequate to support our conclusions.

Excluded properties include, but are not limited to the properties located in the following table.

EXCLUDED LIST									
Property Name	Rent Structure	Tenancy	Reason for Exclusion						
Cedar Valley Apartments	Market	Students	Student Housing/Per Bedroom Rents						
Copper Beach	Market	Students	Student Housing/Per Bedroom Rents						
Norwood Station Apartments	Market	Students	Student Housing/Per Bedroom Rents						
Scottish Hills I	Market	Students	Student Housing/Per Bedroom Rents						
Fox Run & Hethwood Apartments	Market	Family	Unable to Contact						
Maple Ridge Apartments	Market	Students	Student Housing/Per Bedroom Rents						
Sturbridge Square	Market	Students	Student Housing/Per Bedroom Rents						
Smithfield Manor	Market	Students	Student Housing/Per Bedroom Rents						
Landings Apartments	LIHTC	Family	Unable to Contact						
Ridgewood Place Senior Apartments	LIHTC	Senior	Incomparable Tenancy						
Fieldstone Senior Apartments	LIHTC	Senior	Incomparable Tenancy						
Parkview of Radford	Section 8	Disabled	Subsidized Rents						
Riverbend Apartments	Section 8	Disabled	Subsidized Rents						
Willow Woods	Section 8	Family	Subsidized Rents						
Red Coat Manor Apartments	Market	Family	Incomparable Unit Mix/Condition						

Detailed matrices describing the individual competitive properties, as well as the Subject, are provided in the addenda of this report. A map illustrating the location of the Subject in relation to the comparable properties follows.

# **Comparable Properties Map**



# **COMPARABLE PROPERTIES**

#	Comparable Property	City	Rent	Distance to
"	Comparable 1 toperty	Oity	Structure	Subject
S	Fairfax Village	Radford	Section 8	-
1	Fieldstone Apartments	Blacksburg	LIHTC	10.7 miles
2	Forest Hills At Belview	Radford	LIHTC	3.2 miles
3	Heather Glen	Radford	LIHTC	1.6 miles
4	Henley Place	Christiansburg	LIHTC	6.3 miles
5	Huckleberry Court Townhomes	Christiansburg	LIHTC	6.9 miles
6	Ridgewood Place Family	Radford	LIHTC	0.5 miles
7	Cedarfield Apartments	Blacksburg	Market	9.5 miles
8	Highland Village	Radford	Market	0.2 miles
9	Highlands At Huckleberry Ridge	Blacksburg	Market	7.6 miles
10	The Mill At Blacksburg	Blacksburg	Market	9.7 miles
11	The Reserve At Knollwood	Blacksburg	Market	9.0 miles

#### SUMMARY MATRIX

					MARY MATRIX									
Comp #	Property Name	Distance to Subject	Type / Built /	Rent Structure	Unit Description	#	%	Size (SF)	Restriction	Rent (Adj)	Max Rent?	Waiting List?	Vacant Units	Vacancy Rate
Subject	Fairfax Village	Subject -	Renovated Various	Section 8	2BR / 1BA	10	25.0%	855	260% (Section 8		N/A	Yes	1	10.0%
,	300 Fairfax St		2-stories	000000110	3BR / 1.5BA	20	50.0%		260% (Section 8		N/A	Yes	0	0.0%
	Radford, VA 24141		1979 / 2020		4BR / 2BA	10	25.0%	1,333	260% (Section 8	\$1,066	N/A	Yes	0	0.0%
	Radford County		Family											
						40	= 4 407			4000			1	2.5%
1	Fieldstone Apartments 401 Givens Lane	10.7 miles	Garden 3-stories	@60%	2BR / 2BA 3BR / 2BA	60 6	71.4% 7.1%	1,009 1,176	@60% @60%	\$893 \$1,028	N/A N/A	No No	3 0	5.0% 0.0%
	Blacksburg, VA 24060		2017 / n/a		3BR / 2BA	18	21.4%	1,176	@60%	\$1,028	N/A	No	0	0.0%
	Montgomery County		Family		SBIT/ ZBIT	10	21.470	1,100	G00%	Ψ1,020	14/74	140	o	0.070
	0 , ,		•			84							3	3.6%
2	Forest Hills At Belview	3.2 miles	Various	@40%, @50%	1BR / 1BA	7	10.0%	707	@40%	\$454	No	Yes	N/A	N/A
	3226 Peppers Ferry Road NW		1-stories		1BR / 1BA	7	10.0%	709	@50%	\$587	No	Yes	N/A	N/A
	Radford, VA 24141 Montgomery County		2011 / n/a Family		2BR / 1.5BA 2BR / 1.5BA	16 10	22.9% 14.3%	980 1,011	@50% @50%	\$697 \$697	No No	Yes Yes	N/A N/A	N/A N/A
	Montgomery County		raililly		3BR / 2BA	6	8.6%	1,123	@50% @50%	\$757	No	Yes	N/A	N/A
					3BR / 2BA	14	20.0%	1,161	@50%	\$757	No	Yes	N/A	N/A
					4BR / 2BA	6	8.6%	1,244	@50%	\$870	No	Yes	N/A	N/A
					4BR / 2BA	4	5.7%	1,247	@50%	\$870	No	Yes	N/A	N/A
						70							8	11.4%
3	Heather Glen 1700 Wadsworth Street	1.6 miles	Townhouse 2-stories	@40%, @50%	1BR / 1.5BA 2BR / 2.5BA	2	5.0% 5.0%	1,029 1,350	@40% @40%	\$477 \$578	No No	Yes Yes	0	0.0%
	Radford, VA 24141		2-stories 2004 / n/a		3BR / 2.5BA	36	90.0%	1,438	@40% @50%	\$743	No	Yes	2	5.6%
	Radford County		Family		00.1, 2.00A		33.070	2,700	23070	Ţ. <del>1</del> 5		.03	-	0.070
	•		,			40							2	5.0%
4	Henley Place	6.3 miles	Townhouse	@50%, @60%	2BR / 2.5BA	9	22.0%	1,656	@50%	\$680	No	Yes	0	0.0%
	1020-1150 Beaver Drive		1-stories		3BR / 2.5BA	27	65.9%	2,253	@60%	\$890	No	Yes	1	3.7%
	Christiansburg, VA 24073		2006 / n/a		4BR / 2.5BA	5	12.2%	2,582	@60%	\$1,005	No	Yes	0	0.0%
	Montgomery County		Family			41							1	2.4%
5	Huckleberry Court Townhomes	6.9 miles	Townhouse	@50%, @60%	2BR / 2.5BA	12	24.0%	1,185	@50%	\$680	No	Yes	0	0.0%
	501-599 Virginian Drive		2-stories	, , , , , , , , , , , , , , , , , , , ,	3BR / 2.5BA	27	54.0%	1,366	@60%	\$764	No	Yes	1	3.7%
	Christiansburg, VA 24073		2005 / n/a		4BR / 2.5BA	11	22.0%	1,939	@60%	\$834	No	Yes	0	0.0%
	Montgomery County		Family											
6	Ridgewood Place Family	0.5 miles	Garden	@50%	2BR / 2BA	50 8	25.0%	1,072	@50%	\$645	No	No	0	2.0% 0.0%
O	100 Ridgewood Lane	0.5 filles	3-stories	@30%	3BR / 2BA	24	75.0%	1,304	@50%	\$715	No	No	1	4.2%
	Radford, VA 24141		2002 / n/a		,			,						
	Radford County		Family											
						32							1	3.1%
7	Cedarfield Apartments	9.5 miles	Lowrise	Market	1BR / 1BA	4	3.8% 15.1%	652 792	Market Market	\$913 \$976	N/A	Yes	0	0.0% 0.0%
	200 Old Cedarfield Drive Blacksburg, VA 24060		2-stories 1993 / n/a		1BR / 1BA 2BR / 1BA	16 12	11.3%	869	Market	\$1,032	N/A N/A	Yes Yes	0	0.0%
	Montgomery County		Family		2BR / 2BA	36	34.0%	992	Market	\$1,115	N/A	Yes	Ö	0.0%
	3 7, 11		,		2BR / 2.5BA	6	5.7%	1,280	Market	\$1,365	N/A	Yes	0	0.0%
					3BR / 2.5BA	32	30.2%	1,444	Market	\$1,639	N/A	Yes	0	0.0%
						106							0	0.0%
8	Highland Village 400 Robey Street	0.2 miles	Garden 3-stories	Market	1BR / 1BA	37 60	17.1% 27.7%	340 546	Market Market	\$392 \$497	N/A N/A	Yes Yes	0	0.0%
	Radford, VA 24141		1984 / n/a		1.5BR / 1BA 1.5BR / 1BA	6	2.8%	654	Market	\$632	N/A	Yes	0	0.0%
	Radford County		Family		2BR / 1BA	34	15.7%	654	Market	\$725	N/A	Yes	0	0.0%
			- ***9		2.5BR / 1BA	20	9.2%	754	Market	\$765	N/A	Yes	Ö	0.0%
					2.5BR / 1BA	37	17.1%	860	Market	\$795	N/A	Yes	0	0.0%
					3BR / 2BA	2	0.9%	1,280	Market	\$1,313	N/A	Yes	0	0.0%
					4BR / 2BA	21	9.7%	1,280	Market	\$1,597	N/A	Yes	0	0.0%
9	Highlands At Huckleberry Ridge	7.6 miles	Garden	Market	1BR / 1BA	217	8.1%	918	Market	\$1,127	N/A	No	0	0.0%
3	535 Blackrock Drive		2-stories	Maiver	1.5BR / 1BA	20	8.1%	1,216	Market	\$1,207	N/A	No	0	0.0%
	Blacksburg, VA 24060		2015 / n/a		2BR / 2BA	94	38.1%	1,209	Market	\$1,252	N/A	No	1	1.1%
	Montgomery County		Family		2.5BR / 2BA	60	24.3%	1,506	Market	\$1,371	N/A	No	0	0.0%
					3BR/2BA	53	21.5%	1,363	Market	\$1,440	N/A	No	0	0.0%
10	The Mill At Disabeles	0.7 miles	Corden	Manten	1PD / 1D1	247	22.40/	E25	Modest	¢700	NI /A	No	1	0.4%
10	The Mill At Blacksburg 1811 Grayland Street	9.7 miles	Garden 3-stories	Market	1BR / 1BA 2BR / 1BA	53 54	33.1% 33.8%	535 780	Market Market	\$799 \$839	N/A N/A	No No	0 1	1.9%
	Blacksburg, VA 24060		1968 / 2013		3BR / 1BA	53	33.1%	1,025	Market	\$1,065	N/A	No	0	0.0%
	Montgomery County		Family		,			_,0		, _,, _ 00	,		-	
						160							1	0.6%
11	The Reserve At Knollwood	9.0 miles	Garden	Market	1BR / 1BA	N/A	N/A	691	Market	\$1,129	N/A	Yes	0	N/A
	2401 Pamela Way		3-stories		2BR / 2BA	N/A	N/A	1,076	Market	\$1,466	N/A	Yes	0	N/A
	Blacksburg, VA 24060 Montgomery County		2013 / n/a Family		3BR / 3BA	N/A	N/A	1,182	Market	\$1,871	N/A	Yes	0	N/A
	wongomery county		ranilly			111							0	0.0%
														0.070



# AMENITY MATRIX

					AWEN	ITY MATR	IX					
	Subject-	Fieldstone	Favort IIIIa	Handbar	Hanley	Huckleberry	Ridgewood	0-46-14	I I i e la la ca al	Highlands	The Mill At	The
	Fairfax		Forest Hills	Heather	Henley	Court	Place	Cedarfield	Highland	At	The Mill At	Reserve At
	Village	Apartments	At Belview	Glen	Place	Townhomes	Family	Apartments	Village	Huckleberry	Blacksburg	Knollwood
Rent Structure	LIHTC/ Section 8	LIHTC	LIHTC	LIHTC	LIHTC	LIHTC	LIHTC	Market	Market	Market	Market	Market
Building												
Property Type	Various	Garden	Various	Townhouse	Townhouse	Townhouse	Garden	Lowrise	Garden	Garden	Garden	Garden
# of Stories	2-stories	3-stories	1-stories	2-stories	1-stories	2-stories	3-stories	2-stories	3-stories	2-stories	3-stories	3-stories
Year Built	1979	2017	2011	2004	2006	2005	2002	1993	1984	2015	1968	2013
Year Renovated	2020	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	2013	n/a
Utility Structure												
Cooking	no	no	no	no	no	no	no	no	yes	no	no	no
Water Heat	no	no	no	no	no	no	no	no	yes	no	no	no
Heat	no	no	no	no	no	no	no	no	yes	no	no	no
Other Electric	no	no	no	no	no	no	no	no	no	no	no	no
Water	yes	no	yes	yes	yes	yes	yes	no	yes	no	yes	no
Sewer	yes	no	yes	yes	yes	yes	yes	no	yes	no	yes	no
Trash	yes	yes	yes	yes	yes	yes	yes	yes	yes	no	yes	yes
Unit Amenities												
Balcony/Patio	yes	no	yes	yes	yes	yes	yes	no	no	yes	no	no
Blinds	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
Carpeting	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	no
Hardwood	no	no	no	no	no	no	no	no	no	no	no	yes
Central A/C	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	no	yes
Ceiling Fan	no	no	no	yes	yes	yes	yes	yes	no	yes	yes	yes
Coat Closet	yes	yes	yes	yes	yes	yes	no	yes	yes	yes	yes	no
Exterior Storage	yes	no	no	no	no	no	yes	yes	no	no	no	no
Fireplace	no	no	no	no	no	no	no	no	no	yes	no	no
Vaulted Ceilings	no	no	no	no	no	no	no I	no	no	yes	no	no
Walk-In Closet	no	yes	yes	yes	yes	yes	no	yes	no	yes	no	no I
Wall A/C	no	no	no	no	no	no	no	no	no	no	yes	no
Window A/C	no	no	no	no	no	no	no	yes	no	no	no	no
Washer/Dryer	yes	yes	yes	yes	yes	yes	no	yes	yes	yes	no	yes
W/D Hookup	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	no	yes
Kitchen												
Dishwasher	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
Disposal Microwave	no	no	yes	yes	yes	yes	no	yes	no	yes	no	yes
Oven	yes	no vos	no	no	no	no	no	yes	no vos	yes	yes	yes
Refrigerator	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes no
Community	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	110
Business Center	200	200	no	no	no	no	no	no	no	VOC	no	no
Community Room	no yes	no vec	no vec	no no	no no	no no	no yes	no no	no no	yes	no ves	no vec
Central Laundry	yes	yes yes	yes	no	no	no	yes	no	yes	yes	yes yes	yes no
On-Site Mgmt	yes	yes	yes	no	yes	yes	yes	yes	yes	yes	yes	no
Recreation	ycs	yes	yes	TIO	yes	ycs	yes	ycs	ycs	yes	ycs	110
Basketball Court	yes	no	no	no	no	no	no	yes	yes	no	yes	no
Exercise Facility	no	yes	no	no	no	no	no	no	no	yes	no	yes
Playground	yes	no	yes	no	no	yes	yes	no	no	yes	no	no
Swimming Pool	no	no	no no	no	no	no	no	no	yes	yes	yes	yes
Picnic Area	no	no	yes	no no	no	yes	yes	yes	yes	no	yes	no
Recreational Area	no	no	no	no	no	no	no	yes	no	no	no	no
Volleyball Court	no	no	no	no	no	no	no	ves	yes	no	yes	no
WiFi	no	yes	no	no	no	no	no	no	no	no	no	no
Shuttle Service	no	no	no	no	no	no	no	no	yes	no	no	no
Security					.,0				, 50			
Intercom (Buzzer)	no	no	no	no	no	no	no	yes	no	no	no	no
Limited Access	no	no	no	no	no	no	no	yes	no	no	no	no
Patrol	no	no	no	yes	no	no	no	no	no	no	no	no
Perimeter Fencing	no	no	no	yes	no	no	no	no	no	no	no	no
Video Surveillance	no	no	yes	no	no	no	no	no	no	no	no	no
Parking			, , ,		.,0							
Carport Fee	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Garage	no	no	no	yes	yes	no	no	no	no	yes	no	no
Garage Fee	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$140	\$0	\$0
Off-Street Parking	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
	,	, , , , ,	, , , ,	, , , , ,	, 50	, , , ,	, , , ,	, , , ,	, , , , ,	, 50	, 50	, , , ,



	-		ING - All rents adjusted for utilities and concessions		the market.	
	Units Surveyed:	1,158	Weighted Occupancy:	98.4%		
	Market Rate	841	Market Rate	99.8%		
	Tax Credit	317	Tax Credit	95.0%		
	Two-Bedroom One Bath		Three-Bedroom One and a Half Bath		Four-Bedroom Two Bath	
	Property	Average	Property	Average	Property	Averag
RENT	The Reserve At Knollwood (Market)(2BA)	\$1,466	The Reserve At Knollwood (Market)(3BA)	\$1,871	Highland Village (Market)	\$1,59
	Cedarfield Apartments (Market)(2.5BA)	\$1,365	Cedarfield Apartments (Market)(2.5BA)	\$1,639	Fairfax Village (@60%)	\$1,06
	Highlands At Huckleberry Ridge (Market)(2BA)	\$1,252	Highlands At Huckleberry Ridge (Market)(2BA)	\$1,440	Henley Place (@60%)(2.5BA)	\$1,00
	Cedarfield Apartments (Market)(2BA)	\$1,115	Highland Village (Market)(2BA)	\$1,313	Forest Hills At Belview (@50%)	\$870
	Cedarfield Apartments (Market)	\$1,032	The Mill At Blacksburg (Market)(1BA)	\$1,065	Forest Hills At Belview (@50%)	\$870
	Fieldstone Apartments (@60%)(2BA)	\$893	Fieldstone Apartments (@60%)(2BA)	\$1,028	Huckleberry Court Townhomes (@60%)(2.5BA)	\$834
	Fairfax Village (@60%)	\$843	Fieldstone Apartments (@60%)(2BA)	\$1,028		
	The Mill At Blacksburg (Market)	\$839	Fairfax Village (@60%)	\$923		
	Highland Village (Market)	\$725	Henley Place (@60%)(2.5BA)	\$890		
	Forest Hills At Belview (@50%)(1.5BA)	\$697	Huckleberry Court Townhomes (@60%)(2.5BA)	\$764		
	Forest Hills At Belview (@50%)(1.5BA)	\$697	Forest Hills At Belview (@50%)(2BA)	\$757		
	Huckleberry Court Townhomes (@50%)(2.5BA)	\$680	Forest Hills At Belview (@50%)(2BA)	\$757		
	Henley Place (@50%)(2.5BA)	\$680	Heather Glen (@50%)(2.5BA)	\$743		
	Ridgewood Place Family (@50%)(2BA)	\$645	Ridgewood Place Family (@50%)(2BA)	\$715		
	Heather Glen (@40%)(2.5BA)	\$578				
				0.050		
SQUARE	Henley Place (@50%)(2.5BA)	1,656	Henley Place (@60%)(2.5BA)	2,253	Henley Place (@60%)(2.5BA)	2,582
OOTAGE	Heather Glen (@40%)(2.5BA)	1,350	Cedarfield Apartments (Market)(2.5BA)	1,444	Huckleberry Court Townhomes (@60%)(2.5BA)	1,939
	Cedarfield Apartments (Market)(2.5BA)	1,280	Heather Glen (@50%)(2.5BA)	1,438	Fairfax Village (@60%)	1,333
	Highlands At Huckleberry Ridge (Market)(2BA)	1,209	Huckleberry Court Townhomes (@60%)(2.5BA)	1,366	Highland Village (Market)	1,280
	Huckleberry Court Townhomes (@50%)(2.5BA)	1,185	Highlands At Huckleberry Ridge (Market)(2BA)	1,363	Forest Hills At Belview (@50%)	1,247
	The Reserve At Knollwood (Market)(2BA)	1,076	Ridgewood Place Family (@50%)(2BA)	1,304	Forest Hills At Belview (@50%)	1,244
	Ridgewood Place Family (@50%)(2BA)	1,072	Highland Village (Market)(2BA)	1,280		
	Forest Hills At Belview (@50%)(1.5BA)	1,011	Fieldstone Apartments (@60%)(2BA)	1,189		
	Fieldstone Apartments (@60%)(2BA)	1,009	The Reserve At Knollwood (Market)(3BA)	1,182		
	Cedarfield Apartments (Market)(2BA)	992	Fieldstone Apartments (@60%)(2BA)	1,176		
	Forest Hills At Belview (@50%)(1.5BA)	980	Fairfax Village (@60%)	1,174		
	Cedarfield Apartments (Market)	869	Forest Hills At Belview (@50%)(2BA)	1,161		
	Fairfax Village (@60%)	855	Forest Hills At Belview (@50%)(2BA)	1,123		
	The Mill At Blacksburg (Market)	780	The Mill At Blacksburg (Market)(1BA)	1,025		
	Highland Village (Market)	654				
RENT PER	The Reserve At Knollwood (Market)(2BA)	\$1.36	The Reserve At Knollwood (Market)(3BA)	\$1.58	Highland Village (Market)	\$1.25
SQUARE	Cedarfield Apartments (Market)	\$1.19	Cedarfield Apartments (Market)(2.5BA)	\$1.14	Fairfax Village (@60%)	\$0.80
FOOT	Cedarfield Apartments (Market)(2BA)	\$1.12	Highlands At Huckleberry Ridge (Market)(2BA)	\$1.06	Forest Hills At Belview (@50%)	\$0.70
	Highland Village (Market)	\$1.11	The Mill At Blacksburg (Market)(1BA)	\$1.04	Forest Hills At Belview (@50%)	\$0.70
	The Mill At Blacksburg (Market)	\$1.08	Highland Village (Market)(2BA)	\$1.03	Huckleberry Court Townhomes (@60%)(2.5BA)	\$0.43
	Cedarfield Apartments (Market)(2.5BA)	\$1.07	Fieldstone Apartments (@60%)(2BA)	\$0.87	Henley Place (@60%)(2.5BA)	\$0.39
	Highlands At Huckleberry Ridge (Market)(2BA)	\$1.04	Fieldstone Apartments (@60%)(2BA)	\$0.86		
	Fairfax Village (@60%)	\$0.99	Fairfax Village (@60%)	\$0.79		
	Fieldstone Apartments (@60%)(2BA)	\$0.89	Forest Hills At Belview (@50%)(2BA)	\$0.67		
	Forest Hills At Belview (@50%)(1.5BA)	\$0.71	Forest Hills At Belview (@50%)(2BA)	\$0.65		
	Forest Hills At Belview (@50%)(1.5BA)	\$0.69	Huckleberry Court Townhomes (@60%)(2.5BA)	\$0.56		
	Ridgewood Place Family (@50%)(2BA)	\$0.60	Ridgewood Place Family (@50%)(2BA)	\$0.55		
	Huckleberry Court Townhomes (@50%)(2.5BA)	\$0.57	Heather Glen (@50%)(2.5BA)	\$0.52		
	Heather Glen (@40%)(2.5BA)	\$0.43	Henley Place (@60%)(2.5BA)	\$0.40		
	Henley Place (@50%)(2.5BA)	\$0.41				

# **PROPERTY CHARACTERISTICS**

Following are relevant characteristics of comparable properties surveyed:

#### Location

he Subject is located in Radford in a primarily residential neighborhood consisting of single- and multifamily residences, and limited public uses. Further, the Subject has good access to public transportation. The following table compares the Subject to comparable properties.

	LOCATION COMPARISON SUMMARY										
#	Property Name	City	Rent Structure	Distance to Subject	Household Income	Median Home Value	Median Rent	Crime Index	Walk Score	Vacant Housing	% Renter HH
s	Fairfax Village	Radford	Section 8	-	\$35,584	\$158,700	\$713	64	47	4.8%	58.4%
1	Fieldstone Apartments	Blacksburg	LIHTC	10.7 miles	\$35,000	\$278,500	\$905	50	41	4.88%	58.7%
2	Forest Hills At Belview	Radford	LIHTC	3.2 miles	\$57,500	\$158,700	\$713	57	1	13.2%	26.7%
3	Heather Glen	Radford	LIHTC	1.6 miles	\$36,272	\$158,700	\$713	67	12	5.5%	57.2%
4	Henley Place	Christiansburg	LIHTC	6.3 miles	\$55,743	\$180,300	\$775	88	9	7.1%	38.7%
5	Huckleberry Court Townhomes	Christiansburg	LIHTC	6.9 miles	\$53,451	\$180,300	\$775	66	16	6.4%	43.2%
6	Ridgewood Place Family	Radford	LIHTC	0.5 miles	\$35,000	\$158,700	\$713	64	23	4.9%	60.0%
7	Cedarfield Apartments	Blacksburg	Market	9.5 miles	\$39,202	\$278,500	\$905	57	43	7.4%	64.6%
8	Highland Village	Radford	Market	0.2 miles	\$35,008	\$158,700	\$713	64	40	4.5%	61.2%
9	Highlands At Huckleberry Ridge	Blacksburg	Market	7.6 miles	\$40,793	\$278,500	\$905	63	14	7.1%	53.5%
10	The Mill At Blacksburg	Blacksburg	Market	9.7 miles	\$41,081	\$278,500	\$905	54	57	6.9%	64.0%
11	The Reserve At Knollwood	Blacksburg	Market	9.0 miles	\$39,202	\$278,500	\$905	57	43	7.4%	64.6%

Overall, the Subject's location is similar to the four comparables located in Radford in terms of median home value, median rent, and crime indices. However, the Subject's location is inferior in terms of household income compared to the majority of the comparables. Additionally, the Subject is slightly superior to superior in terms of walk score and percentage of renters when compared the majority of the comparables. Overall, the Subject is considered generally similar to slightly inferior to the comparables.

# **Age and Condition**

The Subject was constructed in 1979 and is in average condition. Following renovations, the Subject will be considered in good condition.

Highlands at Huckleberry Ridge was constructed in 2015, exhibiting excellent condition, superior to the Subject "as is" and slightly superior to the Subject "as renovated." The Reserve at Knollwood was constructed in 2013 and based on our site inspection is considered superior to the Subject "as is" and slightly superior to the Subject "as renovated." Cedarfield Apartments and Highland Village were built between 1993 and 2013, exhibiting average condition, similar to the Subject "as is" and inferior to the Subject "as renovated." The remaining comparable, The Mill at Blacksburg was built in 1968 and reported renovations in 2013. However, based on our inspection, this property is considered to be in average condition and similar to the Subject "as is" and inferior to the Subject "as renovated."

The LIHTC properties range in size from 32 to 84 units, with an average development size of 53 units, while the market rate developments range from 106 to 247 units, with an average development size of 168 units. The Subject falls within the range of development size for LIHTC properties, but below the range of development size for the market rate properties. However, there is no distinct correlation between property size and rental rates.

#### **Unit Size**

The following table illustrates the unit sizes of the Subject and the comparable properties.

# **UNIT SIZE COMPARISON - ALL COMPARABLES**

Unit Type	Subject	Surveyed Min	Surveyed Max	Surveyed Average	Advantage/ Disadvantage
2BR	855	654	1,656	1,049	-18%
3BR	1,174	1,025	2,253	1,309	-10%
4BR	1,333	1,244	2,582	1,603	-17%



UNIT SIZE COMPARISON -	LIHTC COMPARABLES

Unit Type	Subject	Surveyed Min	Surveyed Max	Surveyed Average	Advantage/ Disadvantage
2BR	855	980	1,656	1,180	-28%
3BR	1,174	1,123	2,253	1,376	-15%
4BR	1,333	1,244	2,582	1,753	-24%

The Subject offers two-, three-, and four-bedroom units, which are below the average unit sizes of the comparables. The Subject's unit sizes provide a disadvantage between ten to 18 percent when compared to all of the comparables, and a slightly larger disadvantage between 15 to 28 percent when compared to just the LIHTC properties. Further, the Subject's two-bedroom unit size is below the range in unit sizes when compared to the LIHTC comparables. Overall, the Subject's unit sizes are considered similar to inferior to the majority of the comparables, resulting in a slight competitive disadvantage.

# **Unit Amenities**

The Subject's units currently offer a balcony/patio, blinds, carpeting, refrigerators, range/oven, central air conditioning, coat closet, exterior storage, and washer/dryer hookups. Microwaves, dishwashers, and washer/dryer appliances will be installed in all units post renovation. Further, laminate/vinyl flooring will be replaced and installed. For a detailed comparison between the Subject and the comparables, please refer to the amenity matrix at the beginning of this section of the report. Regarding in-unit amenities, the Subject is considered slightly inferior to the majority of LIHTC comparables, and generally inferior to the market rate comparables. We believe that the unit amenities are and will remain competitive.

#### **Common Area Amenities**

The Subject's current property features include a basketball court, central laundry facility, off-street parking, on-site management, and a playground. It should be noted that based on information from the property manager at the time of inspection, management plans to convert the area currently being used as a maintenance shop into a community room post renovations. No other new common area amenities proposed with the renovations. For a detailed comparison between the Subject and the comparables, please refer to the amenity matrix at the beginning of this section of the report. Regarding community amenities, the Subject is considered superior to the majority of LIHTC comparables, and generally similar to the market rate comparables. Nonetheless, we believe that the common area amenities are and will remain sufficiently competitive as an affordable property.

# **Security Features**

According to ESRI Demographic data, crime risk indices in the Subject's location are below the national average. The Subject does not offer any security amenities. A majority of the comparables offer zero to two security amenities. Based on the historical performance of the Subject and the demographic data, we believe the Subject will remain competitive.

# **Utility Structure**

The tenant is responsible for all electric expenses, including general electric, electric cooking, electric water heating, and electric heating. The property covers cold water, sewer trash, and common area amenities expenses. The Subject currently utilizes a project-specific utility allowance of \$100, \$166, and \$149 for its two-, three-, and four-bedroom units, respectively. There are no proposed changes to the utility structure post-renovation. The utility structure varies among the comparable properties; we have adjusted the comparables' rents in accordance with the utility schedule obtained from the Radford Department of Social Services and VHDA, effective July 1, 2018.

#### **Parking**

The Subject features off-street parking to its tenants at no additional cost. There are 64 surface parking spaces, which equates to a parking ratio of approximately 1.6 spaces per unit. Overall, the parking offered at the Subject is reasonable given its tenancy and proximity to public transportation. Further, there is ample on-street parking along Calhoun, Fairfax, Davis, and Burlington Streets. All of the comparable properties offer free off-street parking, similar to the Subject. In addition, there is one comparable that offers garage parking for an additional fee of \$140 per month. The Subject will be considered similar to the majority of the comparables in terms of parking.



# **MARKET CHARACTERISTICS**

Following are relevant market characteristics for comparable properties surveyed.

# **Vacancy Levels**

The following table details vacancy levels at comparable properties.

#### **OVERALL VACANCY**

Property Name	Rent Structure	Tenancy	Total Units	Vacant Units	Vacancy Rate
Fieldstone Apartments	LIHTC	Family	84	3	3.6%
Forest Hills At Belview	LIHTC	Family	70	8	11.4%
Heather Glen	LIHTC	Family	40	2	5.0%
Henley Place	LIHTC	Family	41	1	2.4%
Huckleberry Court Townhomes	LIHTC	Family	50	1	2.0%
Ridgewood Place Family	LIHTC	Family	32	1	3.1%
Cedarfield Apartments	Market	Family	106	0	0.0%
Highland Village	Market	Family	217	0	0.0%
Highlands At Huckleberry Ridge	Market	Family	247	1	0.4%
The Mill At Blacksburg	Market	Family	160	1	0.6%
The Reserve At Knollwood	Market	Family	111	0	0.0%
Total LIHTC			317	16	5.0%
<b>Total Market Rate</b>			841	2	0.2%
Overall Total			1,158	18	1.6%

The comparables reported vacancy rates ranging from zero to 11.4 percent, with an overall weighted average of 1.6 percent. The average vacancy rate reported by the LIHTC comparables was five percent, which is above the average vacancy rate reported by the market rate properties. The contact for Forest Hills at Belview indicated a seasonally lower occupancy rate based on recent evictions following the holidays, and that the property is actively using the current waiting list to fill the vacant units. Additionally, the contacts for both Heather Glenn and Henley Place reported the current vacancies have applications pending approval. The market rate properties reported vacancy rates of 0.6 percent or lower. Three LIHTC and four market rate properties maintain waiting lists ranging from three months to one year. Based on the performance of the comparable properties, we expect the Subject to operate with an annual vacancy and collection loss of five percent, or less.

The following table details vacancy by bedroom type for the comparable properties surveyed:

VACANCY	BY	<b>BEDR</b>	OOM	<b>TYPE</b>
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Property Name	Rent Structure	Tenancy	1BR	2BR	3BR	4BR	Overall
Fieldstone Apartments	LIHTC	Family	-	5.0%	0.0%	-	3.6%
Forest Hills At Belview	LIHTC	Family	-	-	-	-	11.4%
Heather Glen	LIHTC	Family	0.0%	0.0%	5.6%	-	5.0%
Henley Place	LIHTC	Family	-	0.0%	3.7%	0.0%	2.4%
Huckleberry Court Townhomes	LIHTC	Family	-	0.0%	3.7%	0.0%	2.0%
Ridgewood Place Family	LIHTC	Family	-	0.0%	4.2%	-	3.1%
Cedarfield Apartments	Market	Family	0.0%	0.0%	0.0%	-	0.0%
Highland Village	Market	Family	0.0%	0.0%	0.0%	0.0%	0.0%
Highlands At Huckleberry Ridge	Market	Family	0.0%	0.6%	0.0%	-	0.4%
The Mill At Blacksburg	Market	Family	0.0%	1.9%	0.0%	-	0.6%
The Reserve At Knollwood	Market	Family	-	-	-	-	0.0%

#### **Concessions**

None of the comparables reported offering rent concessions at the time of interview. We do not expect the Subject will need to rely on concessions to maintain a stabilized occupancy.



# **Turnover**

The following table details turnover rates at comparable properties that were able to report data. We were unable to obtain turnover information from one LIHTC and four market rae comparables.

**TURNOVER** 

Property Name	Rent Structure	Tenancy	Annual Turnover
Fieldstone Apartments	LIHTC	Family	N/A
Forest Hills At Belview	LIHTC	Family	25%
Heather Glen	LIHTC	Family	5%
Henley Place	LIHTC	Family	10%
Huckleberry Court Townhomes	LIHTC	Family	10%
Ridgewood Place Family	LIHTC	Family	38%
Cedarfield Apartments	Market	Family	N/A
Highland Village	Market	Family	24%
Highlands At Huckleberry Ridge	Market	Family	N/A
The Mill At Blacksburg	Market	Family	N/A
The Reserve At Knollwood	Market	Family	50%
Average Turnover			23%

It should be noted that we were unable to obtain turnover data for four of the 11 surveyed properties (Cedarfield Apartments, Highlands At Huckleberry Ridge, Sturbridge Square, and The Mill At Blacksburg). The remaining comparables reported turnover rates ranging from five to 50 percent, with an overall average of 23.1 percent. The LIHTC comparables operate with an average turnover rate of 17.6 percent, which was less than half the 37 percent average reported by the market rate properties. Based on the performance of the LIHTC comparables, we expect the Subject will operate a turnover rate of approximately 25 percent or less going forward.

#### **Waiting Lists**

The following table illustrates the waiting lists offered at the comparable properties included in our survey.

WA	ITING	LIST
VVA	HING	LISI

TO THIS ELECT								
Property Name	Rent Structure	Tenancy	Waiting List Length					
Fieldstone Apartments	LIHTC	Family	None					
Forest Hills At Belview	LIHTC	Family	Yes, 10HH					
Heather Glen	LIHTC	Family	Yes, 6-12 months					
Henley Place	LIHTC	Family	Yes; 3-6 months					
Huckleberry Court Townhomes	LIHTC	Family	Yes, 6 months					
Ridgewood Place Family	LIHTC	Family	First come, first serve. Typically no WL maintained.					
Cedarfield Apartments	Market	Family	Yes, for August move in					
Highland Village	Market	Family	Yes - Undisclosed					
Highlands At Huckleberry Ridge	Market	Family	None					
The Mill At Blacksburg	Market	Family	No					
The Reserve At Knollwood	Market	Family	Yes, for fall semester leasing					

Overall, five affordable properties maintain a waiting list, ranging from three months to one year, indicating unmet demand in the Subject's market for affordable housing. Further, three market rate comparables maintain waiting lists. The Subject currently maintains a waiting list consisting of 65 households. We believe the Subject will be able to continue to maintain a waiting list post-renovation.

# **Rental Rate Increases**

The following table illustrates rent growth at the comparables.

#### **RENT GROWTH**

Property Name	Rent Structure	Tenancy	Rent Growth
Fieldstone Apartments	LIHTC	Family	0
Forest Hills At Belview	LIHTC	Family	None
Heather Glen	LIHTC	Family	Increased
Henley Place	LIHTC	Family	Increased 2%
<b>Huckleberry Court Townhomes</b>	LIHTC	Family	None
Ridgewood Place Family	LIHTC	Family	None
Cedarfield Apartments	Market	Family	Increase 1 to 3%
Highland Village	Market	Family	None reported
Highlands At Huckleberry Ridge	Market	Family	None
The Mill At Blacksburg	Market	Family	Increased 3%-4%
The Reserve At Knollwood	Market	Family	Increased 2.8% up to 25%

Four of the LIHTC comparable properties reported stable rents, one reported a two percent rental increase, and one reported an increase but was unable to report the rent growth over the past year. Additionally, Ridgewood Place Family will increase asking rents for its two- and three-bedroom units by \$25 in March of 2019, equating to increases of 3.7 and 3.2 percent, respectively. Two of the market rate comparables reported stable rents, two reported moderate rent growth ranging from one to four percent over the past year, while the contact for The Reserve at Knollwood reported 2.8 to 25 percent increase in rents. The Subject's proposed rents are set at the maximum allowable LIHTC levels. As a result, rental rate increases will be dependent on increases in the AMI. Based on the performance of the comparables, and assuming healthy AMI growth, we believe the Subject would be able to achieve moderate rent growth of one to two percent within the confines of the rent and income limits.

# **Absorption Estimate**

According to our rent survey and the analysis of affordable housing demand, the demand for housing of all types is strong. We were able to obtain absorption information from three of the surveyed LIHTC comparable properties. Thus, we expanded our search for absorption data to include Roanoke and nearby counties, which is detailed following.

#### **ABSORPTION**

Property Name	Rent	Tenancy	Year	Total Units	Absorption
Fieldstone Senior Apts	LIHTC	Senior	2018	60	10
The Fieldstone*	LIHTC	Family	2017	84	16.8
Forest Hills At Belview*	LIHTC	Family	2011	70	11
Dara Heights Apartments	LIHTC	Family	2008	48	16
Heather Glen*	LIHTC	Family	2004	40	2
Sedona	Market	Family	2013	271	20
The View At Liberty Center	Market	Family	2014	257	21
LIHTC Average				60	11
Market Average				264	21
Overall Average				119	14

<sup>\*</sup>Utilized as rental comparable

Based on the information above, we estimate that the Subject would reach a stabilized occupancy within three months, at an absorption rate of approximately 15 units per month, in the event that it needed to reabsorb its tenancy. It should be noted that the Subject is currently operating at a stabilized occupancy; thus, this analysis is hypothetical. Further, the proposed renovations will occur with minimal disruption to tenants. Therefore, we do not believe that there will be a need for any significant reabsorption of units.



# **Affordable Properties in the PMA**

We do not believe the Subject will adversely affect existing affordable housing projects in the PMA. A survey of comparable affordable LIHTC rental housing developments in the area demonstrate substantial excess demand for quality rental units.

# AFFORDABLE HOUSING IN THE PMA

Property Name	Program	Total Units	LIHTC Units	Tenancy
	<u> </u>			
Bradley's Ridge Apartments	Section 8	58	0	Senior/Disabled
Cambridge Square	Section 8	40	0	Family
Christiansburg Bluff	Section 8	120	0	Family
Lantern Ridge Apts	Section 8	120	93	Family
Linden Green Aka Old Farm Village Ii	Section 8	84	0	Family
Meadowview Apartments	Section 8	98	0	Family
Melinda's Melody	Section 8	48	0	Senior/Disabled
New River House	Section 8	42	0	Family
Parkview Of Radford	Section 8	13	0	Senior/Disabled
Riverbend Apts	Section 8	60	0	Family
Trolinger House	Section 8	102	0	Family
Washington Square Apartments	Section 8	120	0	Family
Willow Woods	Section 8	144	0	Family
Cedar Crest I	LIHTC	26	26	Family
Cedar Crest li	LIHTC	24	24	Family
Fieldstone Family Apartments*	LIHTC	84	84	Family
Fieldstone Senior	LIHTC	60	60	Senior
Cedar Crest lii	LIHTC	28	28	Family
Forest Hills At Belview*	LIHTC	70	70	Family
Heather Glen Apts*	LIHTC	40	40	Family
Henley Place*	LIHTC	41	41	Family
High Meadows	LIHTC	60	60	Family
Huckleberry Court Townhouses*	LIHTC	50	50	Family
Hunting Hills	LIHTC	12	12	Family
Landings	LIHTC	18	18	Family
Laurel Woods (Pulaski)	LIHTC	46	46	Family
Linden Green	LIHTC	84	84	Family
Meadowview	LIHTC	98	98	Family
New River Gardens	LIHTC	48	48	Family
New River Gardens Ii	LIHTC	44	44	Family
New River Overlook	LIHTC	40	40	Senior
Plaza Apts	LIHTC	36	36	Family
Pulaski Village	LIHTC	44	44	Senior
Ridgewood Place*	LIHTC	32	32	Family
Ridgewood Place Seniors	LIHTC	40	40	Senior
Smokey Ridge	LIHTC	52	52	Family
Sunvalley	LIHTC	24	24	Family
Willow Woods Preservation	LIHTC	139	139	Family

<sup>\*</sup>Denotes property used as a rent comparable.

# **Reasonability of Rents**

The tables below illustrate the Subject's proposed asking rents.

#### PROPOSED RENTS

Unit Type	Unit Size (SF)	Number of Units	Asking Rent	Utility Allowance (1)	Monthly Gross Rent	2018 LIHTC Maximum Allowable Gross Rent	% of LIHTC Maximum Allowable Gross Rent	2018 Fair Market Rent
				60% AI	ИΙ			
2BR/1BA	855	10	\$843	\$100	\$943	\$943	100.0%	\$869
3BR/1.5BA	1,174	20	\$923	\$166	;\$1,089	\$1,089	100.0%	\$1,256
4BR/2BA	1,333	10	\$1,066	\$149	\$1,215	\$1,215	100.0%	\$1,526
Total		40						

Note (1) Utility allowance based on Subject's HUD Rent Schedule, (eff. 11/19/2017)

# **Comparable LIHTC Rents**

Following rehabilitation and the allocation of Low Income Housing Tax Credits (LIHTCs), all of the Subject units will continue to receive Project-Based Section 8 rental assistance and will also be restricted to households earning 60 percent of AMI, or less. The proposed rents are set at the 2018 maximum allowable rents. The following tables illustrate the Subject's rents compared to the LIHTC rents of the comparable properties surveyed. The rents have been adjusted for variances in utilities.

#### **LIHTC RENT COMPARISON @60%**

Property Name	County	Tenancy	2BR	3BR	4BR	Rents at Max?
Fairfax Village	Radford	Family	\$843	\$923	\$1,066	Yes
LIHTC Maximum Rent (Net)	Radford city		\$843	\$923	\$1,066	
LIHTC Maximum Rent (Net)	Montgomery		\$843	\$923	\$1,066	
Fieldstone Apartments	Montgomery	Family	\$893	\$1,028	-	Yes
Henley Place	Montgomery	Family	-	\$890	\$1,005	No
<b>Huckleberry Court Townhomes</b>	Montgomery	Family	-	\$764	\$834	No
Average			\$893	\$894	\$920	
Achievable LIHTC Rent			\$825	\$900	\$1,025	

Only one of the comparable properties, Fieldstone Apartments, reported rents at the maximum allowable levels. However, this comparable appears to be achieving rents above the maximum allowable, which could be due to a project-specific utility allowance. The remaining comparables appear to be just below the maximum allowable levels. Additionally, two comparables, Ridgewood Place Family and Heather Glen, are located within the city of Radford, similar to the Subject, and are restricted to households at the 40 and 50 percent of AMI levels, which are lower than the Subject's proposed LIHTC rents. These two comparables also reported current rents below maximum allowable levels at both set asides, but indicated high demand for affordable units in the area and maintain waiting lists, indicating they may not be testing the market in terms of rents.

The Subject's current Section 8 rents are below the proposed LIHTC rents. Further, all of the Subject's tenants would be subject to the new LIHTC rents, post-renovation, if the Section 8 rental assistance were hypothetically no longer be in place. Due to the vacancy rates among the comparables, as well as the market data indicating lengthy waiting lists for the majority of the comparables, indicates that the current rents do not appear to be testing the market. However, the Subject and surrounding areas are heavily populated with students attending various universities and this population does not qualify to live at a LIHTC property under Section 42 code. Thus, it appears that the market seasonality due to the local universities also has impacted achievable LIHTC rents at the affordable developments in the area. However, the most recently constructed property did report maximum allowable rents and only three vacant units, indicating maximum allowable rents may be achievable in the market for new construction developments. Given the Subject will be renovated, we believe that rents slightly below the maximum allowable levels are attainable and supported by the market. Thus, we have concluded to rents of \$825, \$900, and \$1,025 for the two-, three-, and four-bedroom units, respectively, for the Subject's proposed LIHTC rents at 60 percent AMI.

# **Achievable Market Rent - As Is**

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#### **Achievable Market Rent**

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#### FAIRFAX VILLAGE - 'AS RENOVATED' RENTS

Unit Type	Total Units	# of Section 8 Units	Unit Size (Sq. Ft.)	Estimated Market Rent -"As Renovated"	\$/Sq. Ft.
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Total	40	40		,	

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#### SUBJECT COMPARISON TO MARKET RENTS

Unit Type	Rent Level	Subject Achievable LIHTC Rent	Surveyed Min	Surveyed Max	Surveyed Average	Achievable Market Rent	Subject Rent Advantage
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A. Rents Charged		Data	\$ Adj	Data	\$ Adj	Data	\$ Adj	Data	\$ Adj	Data	\$ Adj
F \$ Last Rent / Restricted?		\$967	Þ	\$780	Þ	\$1,175	Þ	\$839	Þ	\$1,401	Þ
G Date Last Leased (mo/yr)		Ræ) ËFJ		Ræ) ËFJ		Ræ) ÉFJ		Ræ) ÉFJ		Ra) ËFJ	
H Rent Concessions		Þ		Þ		Þ		Þ		Þ	
Occupancy for Unit Type		F€€Ã		F€€Ã		JÌ Ã		JÌ Ã		F€€Ã	
Éffective Rent & Rent / sq. ft		\$967	ÅFÈFÁ	\$780	ÅFÈJÁ	\$1,175	Å€ÈÏÁ	\$839	ÅFÈEÌÁ	\$1,401	ÅFÈH€Á
In Parts B thru E, adjust only for		D-4-	6 4 4:	D-4-	6 4 4:	Data	6 4 4:	D-4-	6 4 4:	D-4-	6 4 4:
B. Design, Location, Condition  Structure / Stories	VPEG	Data Y WEG	<b>\$ Adj</b> ÅG Á	Data Õ⊕l	<b>\$ Adj</b> ÅG Å	Data ÕÆ	<b>\$ Adj</b> ÅGÍ Á	Data Õ⊕l	<b>\$ Adj</b> ÅG Á	Data Õ⊕l	<b>\$ Adj</b> ÅG Á
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F€ Same Market? Miles to Subj.		^^•ĐĚ		^ <b>•Æ</b> È		\*## ±		^•tJt	1	^^•£JÈE	
C. Unit Equipment / Amenities		Data	\$ Adj	Data	\$ Adj	Data	\$ Adj	Data	\$ Adj	Data	\$ Adj
FF # Bedrooms	G	G	ψAuj	G	y Auj	G	ψnuj	G	y Auj	G	o Auj
FG #Bathrooms	F	F	1	F		G	ØÁ€D	F		G	¢ÅÍ€D
FH Unit Interior Sq. Ft.	ìíí	iÎJ		îiı	ÅÎ €Á	FŒJ	ÇÅÌ€D	ïÌ€	ÅŒÁ	F€ÎÎ	ÇÄÏ€D
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FÏ Microwave / Dishwasher	T <del>E</del> Ö	T <del>E</del> Ő		Ö		ΤEÖ		ÖÁ		T <del>E</del> Ö	
Fì Washer / Dryer	Y ÖBŠEPW	Y Ö₽PW	ÅF€Á	Y ÖBĞEPW		Y Ö₽W	ÅF€Á	Š	ÅLÍÁ	Y ÖÐPW	ÅF€Á
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Œ Window Coverings	Y	Y		<u>Y</u>		Y b		Y	+	Y	
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G Security	Þ	Þ		Þ		Þ		Þ		Þ	
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GJ Business Ctr / Nbhd Network	Þ	Þ		Þ		ÓÔ	ÇÅF€D	Þ		Þ	
H€ Service Coordination	Þ	Þ		Þ		Þ		Þ	+	Þ	
HF Non-shelter Services	Þ	Þ	-	Þ		Þ		Þ	1	Þ	
HG Neighborhood Networks  E. Utilities	Þ	Þ Data	\$ Adj	Data	\$ Adj	Data	\$ Adj	Data	\$ Adj	Þ Data	\$ Adj
H Heat (in rent? / type)	ÞÐÒ	ÞÐ	a Auj	ŸĐÒ	ØH D	ÞÐÓ	a Auj	Data ÞÐÓ	3 Auj	ÞÐÖ	3 Auj
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H Cooking (in rent? / type)	ÞÐÒ	ÞÐÒ		ŸĐÒ	QÅÍ D	Ø∃d Ø∃d		ÞÐÓ		ÞÐÓ	
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F. Adjustments Recap		Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg
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G. Adjusted & Market Rents		Adj. Rent		Adj. Rent		Adj. Rent		Adj. Rent		Adj. Rent	
Adjusted Rent (5 + 43)		\$1,112		\$925		\$1,007		\$1,014		\$1,231	
I Adj Rent / Last rent			FFÍ Ã		FFJÃ		ÌÎÃ		FŒÃ		ììÃ
I Î Estimated Market Rent	ÅFÆÍÍÁ	ÅFEGHÁЕcã æg^åÁTæl\^cÁÜ^	} oÁDÁÚ řÁROCÉ								

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Attached are explanations of:

- a. why & how each adjustment was made
- b. how market rent was derived from adjusted rents
- c. how this analysis was used for a similar unit type

form HUD-92273-S8 (04/2002)

Unit TypekÁHÓÜÁÐÁFĚÓŒÁŒÙÁÜÒ⊳UXŒ/ÒÖ

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A. F	Rents Charged \$ Last Rent / Restricted?		Data \$1,560	\$ Adj	Data \$1,380	\$ Adj ♭	Data \$1,349	\$ Adj ⊳	Data \$1,065	\$ Adj ♭	Data \$1,792	\$ Adj
G	Date Last Leased (mo/yr)		Ra) IFJ	-	Ra) IFJ	-	Raà ËFJ	P	Ra) ËFJ	-	Ra) ËFJ	-
Н	Rent Concessions		Þ		Ь		Þ		ь	+	ь	
· ·	Occupancy for Unit Type		F€€Ã		F€€Ã		F€€Ã		F€€Ã		F€€Ã	
í	Effective Rent & Rent / sq. ft		\$1,560	ÅFÈEÌ Á	\$1,380	ÅFÈ€ÌÁ	\$1,349	Ä€ÈJÁ	\$1,065	ÅFÈEI Á	\$1,792	ÅFĚ GÁ
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	In Parts B thru E, adjust only for						11		1			
B. [	Design, Location, Condition	T	Data	\$ Adj	Data	\$ Adj	Data ~	\$ Adj	Data	\$ Adj	Data	\$ Adj
<u> </u>	Structure / Stories	VPEG	Y WEG	ÅGÍ Á	ÕĐ	ÅGÍ Á	ÕÐG	ÅGÍ Á	ФÐ	ÅGÍ Á	Õ <del>В</del> І	ÅGÍ Á
Ï	Yr. Built / Yr. Renovated	FJÏ J£0€FJ	FJJH		FJÌ I		ŒFÍ		FJÎÌÐ9€FH		ŒFH	
Ì	Condition / Street Appeal	Õ[ [ å	OĘ^¦æ*^	ÅF€€Á	OEç^¦æt^	ÅF€€Á	Ò¢&^  ^} c	ÇÅF€€D	Ofç^¦æ*^	ÅF€€Á	Ò¢&^  ^} c	ÇÅF€€D
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F€	Same Market? Miles to Subj.		ŤG•^^		^^• <del>BEIG</del>		^^• ÐĒ		^^•ÐË		^^•ÐÈ	
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FF	# Bedrooms	H	H	di m	H	dá n	H	dás	H	ا کی ا	H	ما تا ت
FG	# Bathrooms	FĚ	GĚ	ÇÅÍ€D ÇÄÏÍD	G FO 6	ÇÅGÍD ÇÄH€D	G	ÇÅGÍ D ÇÅI Í D	F	ÅGÍÁ ÅI€Á	H	ζÅΪÍD
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FI	Balcony / Patio	Ô	Ô	AF€A	Ô	AF€A	Ô		Y Œ	AF€A	Y Œ	AF€A
FI Eî	AC: Central / Wall Range / Refrigerator	ÜÐØ	ÜĐƠ		ÜĐƠ		ÜĐƠ		ÜĐƠ		ÜĐƠ	
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G€	Window Coverings	Ÿ	Ÿ		Ÿ		Ÿ		Ϋ́	+	Ÿ	φ. ω
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H€ HF	Service Coordination	Þ	Þ		Þ		Þ		Þ	1	Þ	+
HF HG	Non-shelter Services Neighborhood Networks	Þ	Þ		Þ	<del>                                     </del>	Þ		Þ	1	Þ	+
	Itilities	ј Р	Data	\$ Adj	Data	\$ Adj	Data	\$ Adj	Data	\$ Adj	Data	\$ Adj
H	Heat (in rent? / type)	ÞÐÒ	ÞÐÒ	g Auj	ŸĐÒ	ÇĂI FD	ÞÐÒ	y Auj	ÞÐÒ	φAuj	ÞÐÖ	φ Auj
H	Cooling (in rent? / type)	DBÓ	ĎBÓ		ÞÐ)	7	ÞÐÓ		ÞÐÓ		ÞÐÓ	+
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HÎ	Hot water (in rent? / type)	ÞÐÒ	ÞÐÒ		ŸĐÒ	ÇÅG€D	ÞÐÒ		ÞÐÒ	1	ÞÐÖ	1
ΗÏ	Other Electric	Þ	Þ		Þ		Þ		Þ		Þ	
ΗÌ	Cold Water / Sewer	ŸĐŸ	ÞÐÞ	ÅÏ JÁ	ŸĐŸ		ÞÐ	ÅÏ JÁ	ŸĐŸ		ÞÐÞ	ÅÏ JÁ
HJ	Trash / Recycling	Ÿ	Ÿ		Ÿ		Þ	ĂFGÁ	Ÿ		Ϋ	
	adjustments Recap		Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg
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I G	Sum Utility Adjustments		ÅÏ JÁ	C	N-4	ÇÂÎ Î D	ÅJFÁ Not	Cw	NY-4	C	ÅÏ JÁ	C
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	Stood Adjustificitie D to E		DID	711175	7417	,,,,,,,	م الدي	AIIA	7,0007	7,0004	طالة	ATTOM
G. /	Adjusted & Market Rents		Adj. Rent		Adj. Rent		Adj. Rent		Adj. Rent		Adj. Rent	
П	Adjusted Rent (5 + 43)		\$1,594		\$1,398		\$1,255		\$1,285		\$1,681	
ΙÍ	Adj Rent / Last rent			F€GÃ		F€FÃ		JHÃ		FŒÃ		JI Ã
ΙÎ	Estimated Market Rent	ÅFÊ€Í Á	ÅFÈG€ÁÒ•cã[æe^åÁTæ}\^cÁÜ	^} oÁRÁÚ řÁZHÈ								

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	Subject		Comp #7		Comp #8		Comp #9		Comp #1		Comp #	
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	Üæå.√,¦å.ÉÄÜæå.√,¦å	Subject	Ó æ&\•à`¦*Ê⁄T[}(	*[{ ^ ^	Üæå-{¦åÊÄÜæå	i-{¦å	Ó æ&\•à˚¦*ÊÁT[}♂[{	^ ^	Ó æ&\•àˇ¦*ÊÁT[}	c*[{ ^ ^	Ó æ&\•à*¦*ÊÁT[	} c* [ { ^¦^
					-							
	ents Charged		Data	\$ Adj	Data	\$ Adj	Data	\$ Adj	Data	\$ Adj	Data	\$ Adj
F	\$ Last Rent / Restricted?		\$1,560	Þ	\$1,680	Þ	\$1,349	Þ	\$1,065	Þ	\$1,792	Þ
G	Date Last Leased (mo/yr)		D ) #= 1		D ) #-1		5 ) <del>"-</del> !		D ) #= 1		5 \ <del>  -</del>	
	Rent Concessions		Ræ) ŒJ Þ		Ræ) ËFJ Þ	-	Ræ) ËFJ Þ		Ræ)ËFJ Þ		Ræ)ËFJ Þ	
H I	Occupancy for Unit Type		F€€Ã		F€€Ã		F€€Ã		F€€Ã		F€€Ã	
í	Effective Rent & Rent / sq. ft		\$1,560	ÅFÈEÌÁ	\$1,680	ÅFÈFÁ	\$1,349	Å€ÈJÁ	\$1,065	ÅFÈEIÁ	\$1,792	ÅFÉ GÁ
_	Zirodiro Rom d Rom, oq. n		<b>ψ.,000</b>	71.22.71	<b>V</b> 1,000	71 2171	<b>V</b> 1,0 10	7100071	<b>V</b> 1,000	71 22 71	<b>V.1,1.02</b>	71201
	In Parts B thru E, adjust only for										1	
B. D	esign, Location, Condition		Data	\$ Adj	Data	\$ Adj	Data	\$ Adj	Data	\$ Adj	Data	\$ Adj
Î	Structure / Stories	VP#6	Y WEG	ÅGÍ Á	Õ <del>D</del> I	ÅGÍ Á	ÕÐG	ÅGÍ Á	Õ <del>M</del>	ÅGÍ Á	Õ <del>D</del> H	ÅGÍ Á
1	Yr. Built / Yr. Renovated	FJÏ J£09€FJ	FJJH	ÅEGGÅ	FJII Ofc^¦æ*^	¥ECC!	GEFI O ( 9 A II A ) -	deco	FJĬÍÐ9€FH	ă Eccă	Q€FH O±80 II 0.1 =	deco
	Condition / Street Appeal Neighborhood	Ö[[å Œ^¦æ*^	Οξ^¦æ*^ Ο[[å	ÅF€€Á ØÁÍ €D	Offviær	ÅF€€Á	O¢&^  ^} c Õ[ [ å	ÇĂF€€D ÇĂGÍD	Οξ^¦æ*^ Ö[[å	ĂF€€Á ÇĂGÍ D	O¢&^  ^} c Õ[ [ å	ÇĂF€€D ÇĂÍ €D
J F€	Same Market? Miles to Subj.	OE/1887	^•ÐĚ	Àvi ED	^• BEEG	+		φωiυ	^•ÐË	ýlů D	^^•ÐIÈ€	ÀN ED
,	carro market: miles to ousj.		- 129 12			1	υц		THE LE	I	- 1915	1
C. U	nit Equipment / Amenities		Data	\$ Adj	Data	\$ Adj	Data	\$ Adj	Data	\$ Adj	Data	\$ Adj
FF	# Bedrooms		Н	ÅŒ€Á	I		Н	ÅŒ€Á	Н	ÅŒ€Á	Н	ÅG€€Á
FG	# Bathrooms	G	GĚ	ÇÂGÍ D	G		G		F		H	ÇÅÍ€D
FH	Unit Interior Sq. Ft.	FHH	FIII	ÇÅH€D	FGÌ€	ÅŒÁ	FHÎ H	ÇÅÍD	F€Gİ	ÅÌ€Á	FFÌ G	ÅÍÍÁ
FI	Balcony / Patio	Ÿ	Þ	ÅF€Á	Þ	ÅF€Á	Ÿ		Þ	ÅF€Á	Þ	ÅF€Á
FI	AC: Central / Wall	Ô Ü <del>L</del> ØØ	ÖÜÐØ		Ö Ü <del>B</del> Ø	-	ÖÜEØ		Y Œ ÜÐØ		Y Œ ÜÐØ	
FI Eï	Range / Refrigerator Microwave / Dishwasher	T ĐÔ	T ĐÔ	-	Ö		T ĐÔ		ÖÁ		T ĐÔ	
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G	Parking (\$ Fee)	Š	Š		Š	1==1	ŠÃÕĐÅFI€	1==1	Š	3 = -1	Š	8 = -1
G	Extra Storage	Ϋ́Þ	Ϋ́Þ	-	Þ	ÅF€Á	Þ	ÅF€Á	Þ	ÅF€Á	Þ	ÅF€Á
ď	Security Clubhouse / Meeting Rooms	Ô	Ö		Þ	ÅF€Á	Ö		Ö	-	Ô	-
G G	Pool / Recreation Areas	Ü	ÚĐĐÜ	QÅFÍ D	ÚĐÜ	ØF€D	ÚĐĐŮ	ÇÅFÍ D	ÚĐÜ	ÇÅF€D	ÚĐÒ	ÇÅF€D
GJ	Business Ctr / Nbhd Network	Þ	Þ	ŷ	Þ	ŷ. c	ÓÔ	ÇÅF€D	Þ	ŷ. w	Þ	ŷ. w
H€	Service Coordination	Þ	Þ		Þ		Þ	,	Þ		Þ	
HF	Non-shelter Services	Þ	Þ		Þ		Þ		Þ		Þ	
HG	Neighborhood Networks	Þ	Þ		Þ		Þ		Þ		Þ	
	tilities	. =	Data	\$ Adj	Data	\$ Adj	Data	\$ Adj	Data	\$ Adj	Data	\$ Adj
H	Heat (in rent? / type)	ÞÐÓ	ÞÐÓ		ŸÐÒ	ÇÅÍ FD	ÞÐÓ		ÞÐÒ	<u> </u>	ÞÐÖ	<u> </u>
H	Cooling (in rent? / type)	Þ.ØÒ	Þ₽Ò		ÞÐÓ ŸÐÓ	QÅÏ D	(Gtd (Gtd		Œd Œd	1	(Œd	1
нî	Cooking (in rent? / type) Hot water (in rent? / type)	ÓB4 ÓB4	(Bd (Bd	-	Y ĐÔ	ÇAI D	Œ4		Ødd Ødd	-	(Bdd ÖBd	-
H	Other Electric	Þ	Þ	+	P F	AICI D	Þ		Þ	1	Þ	1
HÌ	Cold Water / Sewer	ŸĐŸ	ÞÐÞ	ÅF€FÁ	ŸĐŸ		ÞÐÞ	ÅF€FÁ	ŸĐŸ		ÞÐÞ	ÅF€FÁ
HJ	Trash / Recycling	Ÿ	Ÿ		Ÿ		Þ	ÅFGÁ	Ÿ		Ÿ	
	djustments Recap		Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg
1€	# Adjustments B to D		ÍÁ	Ç D	ÎÁ	ÇED	IÁ	Ç̂ D	ΪÁ	ÇED 2016	ÎÁ	ÇD
I F	Sum Adjustments B to D		ÅHIÍÁ ÅF€FÁ	ÇÅFG€D	ÅFÏ Í Á	ÇÅFÍ D ÇÅÌ HD	ÅG Í Á	ÇÅFÎ Í D	ÅIÏ€Á	ÇÅHÍ D	ÅHF€Á ÅF€FÁ	ÇÅGG€D
ΙG	Sum Utility Adjustments		A⊦€⊦A Net	Gross	Net	Gross	ÅFFHÁ Net	Gross	Net	Gross	A⊦€⊦A Net	Gross
ΙH	Net / Gross Adjustments B to E		ÅHGÎ Á	ÅÍ Î Î Á	Net Åï ï Á	ÅG HÁ	Net ÅFJHÁ	ÅÍ GHÁ	ÅI HÍ Á	Åí €í Á	ÅFJFÁ	ÅÎ HFÁ
G. A	djusted & Market Rents		Adj. Rent		Adj. Rent		Adj. Rent		Adj. Rent		Adj. Rent	
Π	Adjusted Rent (5 + 43)		\$1,886	FOTĂ	\$1,757	ECÍ X	\$1,542	FFI Ã	\$1,500	EL EX	\$1,983	rre i
ı i	Adj Rent / Last rent Estimated Market Rent	λcf á λ	ÅFEGÌÁÒ•cãĮ æc^åÆTæb\^cAÜ^	FGFÃ		F€ÍÃ		FFI A		FI FÃ		FFFÃ
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ABL. K.

Attached are explanations of:

- a. why & how each adjustment was made
- b. how market rent was derived from adjusted rents
- c. how this analysis was used for a similar unit type

form HUD-92273-S8 (04/2002)

More significant adjustments are explained as follows:

#### **Structure**

The Subject's units are structured as two-story townhome-style units, with the exception of two two-bedroom units that are contained in single-story apartments. The Subject's townhome design is considered a slightly superior design to garden and walk-up style design, which all of the comparables offer. Our experience with properties nation-wide indicates that townhouse units are typically considered more desirable and more expensive than garden-style, walkup units. As such, we applied a \$25 upward adjustment to all comparables in the two, three and four-bedroom rent grids.

# **Condition Adjustment**

The Subject will be in good condition post renovation. Three of the comparables are in average condition and are considered slightly inferior to the Subject, while Highlands at Huckleberry Ridge and The Reserve at Knollwood are both in excellent condition, considered slightly superior to the Subject's condition, post rehabilitation. The following table and analysis details the adjusted rents among the comparables. These adjustments were made for all characteristics except condition.

	<b>CONDITION AD</b>	JUSTMENT		
Property Name	Condition	2BR	3BR	4BR
The Mill at Blacksburg	Average	\$914	\$1,185	\$1,400
Cedarfield Apartments	Average	\$1,012	\$1,494	\$1,786
Highland Village	Average	\$825	\$1,298	\$1,657
Mean Rent (Average Condition)		\$917	\$1,326	\$1,614
The Reserve At Knollwood	Excellent	\$1,331	\$1,781	\$1,983
Highlands at Huckleberry	Excellent	\$1,107	\$1,355	\$1,642
Mean Rent (Excellent Condition)		\$1,219	\$1,568	\$1,813
Difference Average vs. Excellent		\$302	\$242	\$198

Therefore, we relied on the range of differences of the comparable units in making our adjustments. This is a small sample size and likely does not illustrate the true market premium for developments in average and excellent conditions. Thus, we supplemented this analysis with conversations with local property managers and applied positive \$100 adjustment to the comparables in average condition and a negative \$100 adjustment to the comparables in excellent condition.

The table below illustrates the effect of renovation on market rate properties located in the central and western regions of Virginia.

#### RENOVATED UNIT PRICE INCREASED

Property Name	City	Rent Increase	Notes
Fairfield Crossing	Falls Church, VA	\$75	Renovations include new flooring, paint, finishes,
Taimed 01033ing	Talis Offatori, VA	Ψίσ	kitchens, and lighting.
Banbury Lake Village Apartments	Virginia Beach, VA	\$100	Renovations include new cabinets, appliances, new in-
Banbury Lake Village Apartments	viigiilia beacii, vA	Ψ100	unit flooring,
The Ashby at McLean	McLean, VA	\$85 - \$175	Updated kitchen appliances, new bathroom fixtures,
The Ashby at McLean	Wickean, VA	φ65-φ175	new flooring.
The Birches	Chesapeake, VA	\$94	Renovations include new kitchen cabinetry, new countertops, replaced appliances, new in-unit flooring.

As seen above, rents increased \$75 to \$175, post renovations. According to property managers we have interviewed, the amount of increase is dependent on the scope of work with the most significant increases occurring when amenities are added, and improvements are made to the unit interiors and common areas that the residents use on a daily basis. It is clear that improved condition commands a significant premium. Based upon the Subject's scope of work, we believe an increase of \$100 per unit, post renovation is reasonable for the Subject. Therefore, a rent differential of \$100 is reasonable and conservative for the Subject's two-, three-, and four-bedroom units for condition. Additionally, we have accounted for the additional amenities that will be added including a community center, washer/dryer appliances, a microwave, and a dishwasher for a net post renovation increase of \$155 over our concluded as is market rents.



Therefore an upward adjustment of \$100 is applied to the comparables in average condition, and a negative \$100 adjustment was applied to the comparables in excellent condition in the as renovated grids. Post-renovation the Subject will be in good condition. The total renovation hard costs are estimated to be approximately \$42,636 per unit. We have estimated the Subject's achievable as renovated market rents within the range of the comparables and generally similar to the adjusted surveyed average. The Subject is slightly superior to slightly inferior to the comparables. As such, equal consideration to the adjusted rents of the comparables when determining an achievable renovated market rent.

# **Bedroom Adjustment**

Highland Village is the only comparable that offers four-bedroom units. A bedroom adjustment was applied to the four comparables that offer three-bedroom units and were utilized in the four-bedroom rent grids. The following table details the differential in rents for bedrooms among the comparables.

SUPF	ORT FOR B	EDROOM A	ADJUSTMEN	NT	
Property Name	Unit Type	Effective Rent	Rent / SF	Value of Extra SF	Value of Bedroom
	2BR/2.5BA	\$1,300	\$1.02		
Cedarfield Apartments	3BR/2.5BA	\$1,560	\$1.08	\$44	\$216
	Difference	\$260	\$1.59		
	1BR/1BA	\$435	\$1.28		
Highland Village	2BR/1BA	\$780	\$1.19	\$94	\$251
	Difference	\$345	\$1.10		
	1.5BR/1BA	\$540	\$0.99		
Highland Village	2.5BR/1BA	\$820	\$1.09	\$57	\$223
	Difference	\$280	\$1.35		
	1.5BR/1BA	\$540	\$0.99		
Highland Village	2.5BR/1BA	\$850	\$0.99	\$78	\$232
	Difference	\$310	\$0.99		
	1.5BR/1BA	\$675	\$1.03		
Highland Village	2.5BR/1BA	\$850	\$0.99	\$51	\$124
	Difference	<b>\$175</b>	\$0.85		
	3BR/2BA	\$1,380	\$1.08		
Highland Village	4BR/2BA	\$1,680	\$1.31	\$0	\$300
	Difference	\$300	-		
	2BR/2BA	\$1,175	\$0.97		
Highlands At Huckleberry Ridge	3BR/2BA	\$1,349	\$0.99	\$38	\$136
	Difference	\$174	\$1.13		
	2BR/1BA	\$839	\$1.08		
The Mill At Blacksburg	3BR/1BA	\$1,065	\$1.04	\$64	\$162

SUPPORT FOR REDROOM ADJUSTMENT

As illustrated, the differential for bedrooms ranges from \$124 to \$300. We concluded to a value of \$200, and have applied adjustments accordingly in the rent grids.

\$226

Average

\$0.92

\$206

Difference

#### **Bathroom Adjustment**

The Subject offers one bath in its two-bedroom units, similar to three of the comparables. Two comparables offers two baths. The Subject offers 1.5 baths in its three-bedroom units, similar to none of the comparables, which offer a range from one to three bathrooms. Only one comparable, Highland Village, offers four-bedroom units; and of the comparables, is one of two comparables that offer two baths. The remaining comparables offer one, 2.5, and three baths. To determine the value of a bathroom, we conducted an analysis on the value of a bathroom in the market. The following tables detail our findings.



#### Value of Bathroom

Cedarfield Apartments										
Unit Type	Rent	SF	Rent/SF							
2BR/1BA	\$1,032	869	\$1.19							
2BR/2BA	\$1,115	992	\$1.12							
Calculation of Value										
1. Diff. in SF of 2BR/ 2.5BA and 2BR/1.5BA / 4	=	30.75								
2. Additional SF x RPSF of larger unit	=	\$34.56								
3. Diff. in rent for 2BR/ 2.5BA and 2BR/1.5BA - SF value	=	\$48								
Value of additional bathroom		\$48								

#### Value of Bathroom

Highlands at Huckleberry Ridge										
Unit Type	Rent	SF	Rent/SF							
2BR/1BA	\$1,127	918	\$1.23							
2BR/2BA	\$1,252	1209	\$1.04							
Calculation of Value										
1. Diff. in SF of 2BR/ 2.5BA and 2BR/1.5BA / 4	=	72.75								
2. Additional SF x RPSF of larger unit	=	\$75.34								
3. Diff. in rent for 2BR/ 2.5BA and 2BR/1.5BA - SF value	=	\$50								
Value of additional bathroom		\$50								

The differential for a full bath ranges from \$48 to \$50. Based on the tight range for the value of a bathroom in the Subject's market, we have valued a full bath at \$50 and a half bath at \$25 and have applied adjustments accordingly.

# **Square Footage Adjustment**

The Subject and the comparable properties vary in square footage. Most market observers agree that with all other variables being equal, a larger unit is more desirable than a smaller unit. However, typically the value of the additional square footage is mitigated to some degree by the similarity in perceived unit function (i.e. a 600 square foot two-bedroom functions similarly to a 700 square foot two-bedroom) reflective of economies of scale. In other words, there is a diminishing return of value for additional square footage, as each additional square foot does not necessarily equal additional functional utility. Matched pairs are the preferred methods to use for derivation of an adjustment. However, no matched pairs were available in the market. Therefore, we have applied a market standard that has been observed in similar markets as follows: the square foot difference between the Comparable and the Subject is divided by four and then multiplied by the rent per square foot of the Comparable. In other words, we estimate that the additional square footage is worth approximately 25 percent of the rent per square foot in comparison to the base square footage. It should be noted that we capped the square footage adjustment at \$100.

# Washer/Dryer

The Subject offers central laundry facilities and in-unit washer and dryer hookups. Post-renovations, washer/dryer appliances will be offered in all of the Subject's units. Three of the comparables offer in-unit washer/dryer appliances, one offers washer/dryer hookups and central laundry, and The Mill At Blacksburg offers central laundry only. We have used a cost/benefit methodology to determine the level of adjustment for in-unit washers and dryers. If a household does three loads of laundry a week, for \$3.00 per load, the cost would be approximately \$36 per month. This indicates approximately a \$35 value to in-unit washer and dryer appliances. We have valued central laundry and washer/dryer hookups at \$10 each and applied adjustments to all of the comparables based on the respective amenities offered.

#### **Pool/Recreation Areas**

The Subject offers a playground and basketball court. Cedarfield Apartments and Highlands at Huckleberry Ridge offer a swimming pool, exercise facility, and playground. Highland Village and The Mill at Blacksburg both offer a swimming pool, picnic area, and basketball court. The Reserve at Knollwood offers a swimming pool, and exercise facility. We valued a pool at \$10 and the remaining amenities at \$5 each and have applied adjustments accordingly. Additionally, based on information from the property manager at the time of inspection, management plans to convert the area currently being used as a maintenance shop into a community room post renovation. Three comparables offer a community room similar to the Subject, and a negative \$10 adjustment was applied to the two comparables that do not offer this amenity.



# **Conclusions and Recommendations**

The Subject will be newly renovated, and upon completion, will exhibit good condition. The surveyed properties exhibit inferior to slightly superior condition relative to the proposed Subject. The market exhibits stable demand for affordable housing, with limited vacancy and strong absorption rates at LIHTC properties that have opened in the past three to four years. As a stabilized property, we expect the Subject to operate with an annual vacancy and collection loss of five percent, or less. As detailed in our analysis of LIHTC rents at 60 percent of AMI, we do not believe that maximum allowable rents are achievable at present. Further, recent rent growth in the market indicates that rental rate increases of 1.0 to 2.0 percent annually are achievable within the confines of LIHTC program requirements. Our estimated achievable market rents for the Subject are \$1,055, \$1,405 and \$1,705 for the two, three and four-bedroom units respectively.



# I. AFFORDABILITY ANALYSIS/DEMAND ANALYSIS

#### **DEMAND ANALYSIS**

# Introduction

The Subject will be a newly renovated 40-unit LIHTC and Section 8 development. The Subject offers 10 two-, 20 ten-, and 10 four-bedroom units rent and income restricted to 60 percent of AMI. We calculated the number of income-eligible residents in this section of the analysis. LIHTC rents are based upon a percentage of the AMI, adjusted for household size and utilities. HUD estimates the relevant income levels, with annual updates. Rents are calculated assuming that the maximum net rent a household will pay is 35 percent of its income at the appropriate AMI levels. Household size for developments is assumed to be 1.5 person per bedroom for LIHTC rent calculation purposes. To assess the likely number of tenants in the market area eligible to live in the Subject, we used Census information as provided by ESRI Business Information Solutions.

# **Primary Market Area Defined**

For the purpose of this study, it is necessary to define the competitive primary market area (PMA), or the area from which potential tenants for the project are likely to be drawn. In some areas, residents are very much "neighborhood oriented" and are generally very reluctant to move from the area where they have grown up. In other areas, residents are much more mobile and will relocate to a completely new area, especially if there is an attraction such as affordable housing at below market rents.

The Subject site is located in Radford, Radford City, Virginia. The boundaries of the PMA are defined as the Pulaski and Montgomery County lines to the north and south, the Montgomery County line to the east, and the Pulaski County line to the west. The PMA encompasses approximately 728 square miles and was primarily devised based on our conversations with local property managers on the area that potential tenants for the project are likely drawn.

# **Income-Eligible Calculations**

To establish the number of income-eligible potential tenants for the Subject, the calculations are as follows:

First, we estimate the Subject's minimum and maximum income levels for the LIHTC project. HUD determines maximum income guidelines for tax credit properties, based on the AMI. For Radford City, the 2018 AMI is \$69,800 for a four-person household. Maximum incomes are set at the maximum 60 percent of AMI level(s). Minimum income levels were calculated based on the assumption that lower-income households should pay no more than 35 percent of their income towards rent. The minimum income levels absent subsidy, are calculated from the gross achievable LIHTC rents.

# **FAMILY INCOME LIMITS - AS PROPOSED**

#### **FAMILY INCOME LIMITS - ABSENT SUBSIDY**

Unit Type	Minimum Allowable Income	Maximum Allowable Income	Unit Type	Minimum Allowable Income	Maximum Allowable Income		
	@60% (	Section 8)		@60%			
2BR	\$0	\$37,740	2BR	\$32,331	\$37,740		
3BR	\$0	\$45,240	3BR	\$37,337	\$45,240		
4BR	\$0	\$48,600	4BR	\$41,657	\$48,600		



Often, lower-income households pay a higher percentage of gross income toward housing costs. Therefore, we used 35 percent for LIHTC calculations in the LIHTC scenario. Secondly, we illustrate the household population segregated by income band in order to determine those who are income-qualified to reside in the Subject site.

RENTER HOUSEHOLD INCOME

			PMA			
Income Cohort	2018		20	023	Annual Chang	e 2018 to 2023
	Number	Percentage	Number	Percentage	Number	Percentage
\$0-9,999	6,291	23.0%	6,045	22.0%	-49	-0.8%
\$10,000-19,999	5,202	19.0%	5,010	18.3%	-38	-0.7%
\$20,000-29,999	3,359	12.3%	3,320	12.1%	-8	-0.2%
\$30,000-39,999	2,915	10.7%	2,859	10.4%	-11	-0.4%
\$40,000-49,999	2,842	10.4%	2,863	10.4%	4	0.1%
\$50,000-59,999	2,125	7.8%	2,182	8.0%	11	0.5%
\$60,000-74,999	1,534	5.6%	1,637	6.0%	21	1.3%
\$75,000-99,999	1,259	4.6%	1,380	5.0%	24	1.9%
\$100,000-124,999	651	2.4%	728	2.7%	15	2.4%
\$125,000-149,999	426	1.6%	473	1.7%	9	2.2%
\$150,000-199,999	399	1.5%	484	1.8%	17	4.3%
\$200,000+	348	1.3%	439	1.6%	18	5.2%
Total	27,351	100.0%	27,420	100.0%		

Source: HISTA Data / Ribbon Demographics 2018, Novogradac & Company LLP, January 2019

Third, we combine the allowable income range with the income distribution analysis in order to determine the number of potential income-qualified households. In some cases, the LIHTC income-eligible band overlaps with more than one census income range. In those cases, the prorated share of more than one census range will be calculated. This provides an estimate of the total number of households that are income-eligible. This also derives an estimate of the percentage of the households that are income-eligible, illustrated by AMI threshold.

**FAMILY INCOME DISTRIBUTION 2018** 

Income Cohort	Total Renter Households	@6	0% (Section	on 8)	@60% Absent Subsidy			
		cohort	% in	# in	cohort	% in	# in	
		overlap	cohort	cohort	overlap	cohort	cohort	
\$0-9,999	6,291	9,999	100.0%	6,291				
\$10,000-19,999	5,202	9,999	100.0%	5,202				
\$20,000-29,999	3,359	9,999	100.0%	3,359				
\$30,000-39,999	2,915	9,999	100.0%	2,915	7,668	76.7%	2,235	
\$40,000-49,999	2,842	8,600	86.0%	2,444	8,600	86.0%	2,444	
\$50,000-59,999	2,125							
\$60,000-74,999	1,534							
\$75,000-99,999	1,259							
\$100,000-124,999	651							
\$125,000-149,999	426							
\$150,000-199,999	399							
\$200,000+	348							
Total	27,351		73.9%	20,211		17.1%	4,680	

# **Demand Analysis One - Capture Rate Analysis by Unit Type**

In order to determine demand for the proposed unit mix, we also analyzed the demand capture rates expected at the Subject by bedroom type. This analysis illustrates demand for the 60 percent of AMI level.

The by-unit-type breakdown illustrates an adequate demand, when considered on a by-bedroom-type basis. We added a 10 percent adjustment factor to compensate for a potential tenancy originating from outside the PMA.

The distribution of households by unit type is dependent on the following assumptions.

#### HOUSEHOLD DISTRIBUTION

TIOCOLITOLD DISTRIBUTION		
2 BR	70%	Of one-person households in 2BR units
	60%	Of two-person households in 2BR units
	20%	Of three-person households in 2BR units
3 BR	40%	Of two-person households in 3BR units
	50%	Of three-person households in 3BR units
	60%	Of four-person households in 3BR units
	50%	Of five-person households in 3BR units
4 BR	30%	Of three-person households in 4BR units
	40%	Of four-person households in 4BR units
	50%	Of five-person households in 4BR units



#### **60 Percent of AMI Demand-Section 8**

#### PROJECTED RENTER HOUSEHOLD DEMAND BY BEDROOM TYPE

Renter Household Distribution 2018

	7.0	2.002010	
	Renter Household Size	Total Number of Renter	
	Distribution	Households	
1 person	36.5%	9,980	
2 persons	30.0%	8,218	
3 persons	17.8%	4,872	
4 persons	11.9%	3,264	
5+ persons	3.7%	1,017	
Total	100.0%	27,351	

Income-Oualified Renter Demand

	moome quan	nou no		
	Total Number of Renter		% Income-Qualified	Number Qualified Renter
	Households		Renter Households	Households
1 person	9,980	X	73.9%	7,375
2 persons	8,218	X	73.9%	6,073
3 persons	4,872	X	73.9%	3,600
4 persons	3,264	X	73.9%	2,412
5+ persons	1,017	X	73.9%	752
Total	27,351			20,211

Projected Renter Household Demand by Bedroom Size

	Number of Qualified	
	Renter Households	
2BR	9,526	
3BR	6,052	
4BR	2,421	
Total	17,999	

Capture Rate Analysis - @60% (Section 8) - As Proposed

Developer's Unit Mix	Capture Rate	
10	0.10%	
20	0.33%	
10	0.41%	
40	0.22%	
d for Leakage from Outside of t	the PMA	10%
10	0.09%	
20	0.30%	
10	0.37%	
40	0.20%	
	10 20 10 <b>40</b> d for Leakage from Outside of t 10 20	10 0.10% 20 0.33% 10 0.41% 40 0.22%  d for Leakage from Outside of the PMA  10 0.09% 20 0.30% 10 0.37%

#### **60 Percent of AMI Demand-Absent Subsidy**

#### PROJECTED RENTER HOUSEHOLD DEMAND BY BEDROOM TYPE

Renter Household Distribution 2018

	Trontor Trodoction	Diodribation 2010	
	Renter Household Size	Total Number of Renter	
	Distribution	Households	
1 person	36.5%	9,980	
2 persons	30.0%	8,218	
3 persons	17.8%	4,872	
4 persons	11.9%	3,264	
5+ persons	3.7%	1,017	
Total	100.0%	27,351	

Income-Qualified Renter Demand

	Total Number of Renter		% Income-Qualified	Number Qualified Renter
	Households		Renter Households	Households
1 person	9,980	Х	17.1%	1,708
2 persons	8,218	X	17.1%	1,406
3 persons	4,872	X	17.1%	834
4 persons	3,264	X	17.1%	558
5+ persons	1,017	X	17.1%	174
Total	27.351			4.680

Projected Renter Household Demand by Bedroom Size

	Number of Qualified	
	Renter Households	
2BR	2,206	
3BR	1,401	
4BR	560	
Total	4,168	

Capture Rate Analysis - @60% Absent Subsidy

	Developer's Unit Mix	Capture Rate	
2BR	10	0.45%	
3BR	20	1.43%	
4BR	10	1.78%	
Total/Overall	40	0.96%	
Adjus	ted for Leakage from Outside of t	the PMA	10%
2BR	10	0.41%	
3BR	20	1.28%	
4BR	10	1.61%	
Total/Overall	40	0.86%	

#### **Annual Demand Table**

#### **ANNUAL DEMAND - AS PROPOSED**

Calculation	PMA
Number of Renter Households in 2018	27,351
Increase in Number of Renter Households	69
Number of Renter Households in 2023	27,420
Existing Demand	
Percentage of Total Households that are Renter	46.3%
Percentage of Income-Qualified Renter Households	73.9%
Number of Income-Qualified Renter Households	20,211
Percentage of Rent-Overburdened	44.0%
Existing Income-Qualified Renter Household Turnover	8,894
New Income-Qualified Demand, Stated Annually	
Increase in Renter Households per Annum	14
Percentage of Income-Qualified Renter Households	73.9%
New Rental Income Qualified Households	10
Capture Rate Analysis	
Number of Units in Subject	40
Occupied Units at Subject With Vacancy of: 5%	38
Units Pre-Leased	0
Total Demand (Turnover and Growth) from within PMA	8,904
Portion Originating within PMA	90%
Total Demand (Turnover and Growth) from within PMA	9,894
Less: Existing LIHTC Projects in Absorption Process	
(Number of Units) 0	
Total Demand after Competition (Turnover and Growth)	9,894
Yielded Annual Capture Rate of Available Demand in 2018	0.4%



#### **Annual Demand Table**

#### **ANNUAL DEMAND - ABSENT SUBSIDY**

Calculation	PMA
Number of Renter Households in 2018	27,351
Increase in Number of Renter Households	69
Number of Renter Households in 2023	27,420
Existing Demand	
Percentage of Total Households that are Renter	46.3%
Percentage of Income-Qualified Renter Households	17.1%
Number of Income-Qualified Renter Households	4,680
Percentage of Rent-Overburdened	44.0%
Existing Income-Qualified Renter Household Turnover	2,060
New Income-Qualified Demand, Stated Annually	
Increase in Renter Households per Annum	14
Percentage of Income-Qualified Renter Households	17.1%
New Rental Income Qualified Households	2
Capture Rate Analysis	
Number of Units in Subject	40
Occupied Units at Subject With Vacancy of: 5%	38
Units Pre-Leased	0
Total Demand (Turnover and Growth) from within PMA	2,062
Portion Originating within PMA	90%
Total Demand (Turnover and Growth) from within PMA	2,291
Less: Existing LIHTC Projects in Absorption Process	
(Number of Units) 0	
Total Demand after Competition (Turnover and Growth)	2,291
Yielded Annual Capture Rate of Available Demand in 2018	1.7%

#### **VHDA Demand Table**

We also included the required demand table from the VHDA market study guidelines. The following table illustrates the total demand, the net demand, and the absorption period for the Subject site. The supply illustrates all proposed or under construction units in the PMA.

We determined that there are no proposed competitive LIHTC units in the PMA, along with 16 vacant units at the comparable LIHTC properties considered directly competitive with the Subject's LIHTC units.

The table below illustrates the resulting capture rates for demand currently proposed in PMA.



	Up to 60% Section 8 (\$0 - \$48,600)	Up to 60% Absent Subsidy (\$32,331 - \$48,600)
Demand from New Rental Households	-59	-26
+		-
Demand from Existing Renter Housholds - Rent Overburdened Households	1,532	1,221
<u>+</u>		
Demand from Existing Renter Households - Substandard Housing	15	12
<u>=</u>		
Sub Total	1,488	1,207
Demand from Existing Households - Likely to Convert to Rental Housing	n/a	n/a
TOTAL DEMAND	1,488	1,207
<u>-</u>		<del>_</del>
Supply (Includes directly comparable vacant units or in pipeline in PMA)	16	16
= Net Demand	1,472	1,191
Proposed Units	40	40
Capture Rate	2.7%	3.4%
Absorption Period	3 months	3 months

We believe there is adequate demand for the Subject as proposed. Our concluded capture rates and absorption are shown in the table below.

Project Wide Capture Rate - Section 8 Units
Project Wide Capture Rate - LIHTC Units
Project Wide Absorption Period (Months)

2.7%
3.4%
3 months

#### **Conclusion**

The Novoco demand analysis illustrates demand for the Subject based on capture rates of income-eligible renter households. In terms of total income-eligible renter households, the calculation illustrates capture rates of 0.20 percent and 0.86 percent at the 60 percent of AMI levels, with and without the subsidy respectively.

To provide another level of analysis, we removed the households from the income-eligible renter demand pool that are currently suitably housed elsewhere in the PMA. We conducted an *annual demand analysis*, which is based on new income-eligible renter households moving into the area (in the Subject's first year of operation only) and those income-eligible renter households that are rent-overburdened (paying over 35 percent of income to living costs). This is a subset of the income-eligible renter households used previously and yields a far more conservative annual capture rate. This annual Novoco capture rate is 2.7 percent and 3.4 percent for the first year of operation as a Section 8 and LIHTC property, respectively. This suggests that the Subject will need to capture only a fraction of the available demand in its

first year of operation in order to stabilize, if vacant. This implies that no demand will be accommodated that is currently suitably housed elsewhere.

This calculation illustrates there are approximately 1,472 units and 1,191 of net demand in the first year of the Subject's operation following renovation. The Subject's units will need to accommodate 38 total units of demand in order to stabilize at 95 percent occupancy. Any unaccommodated households will most likely leave the PMA or remain severely rent-overburdened. The lack of available units will force many to look elsewhere.

The VHDA net demand and capture rate table illustrates demand for the Subject based on capture rates of incomeeligible renter households. The following table illustrates the conclusions from this table.

Project Wide Capture Rate - Section 8 Units
Project Wide Capture Rate - LIHTC Units
Project Wide Absorption Period (Months)

2.7%
3.4%
3 months

This is a low capture rate and indicative of adequate demand for the Subject. We do not believe the additional supply will harm other VHDA properties as the capture rates are low and the vacancy is low.

#### **Penetration Rate Analysis**

Per VHDA guidelines, we also performed a penetration rate analysis for the Subject's units, as seen in the following table.

PENETRATION RATE - Methodology Two (Market Focus - NCHMA)	
Number of Proposed Competitive Affordable Units in the PMA	0
	+
Number of Existing Competitive Family Affordable Units in the PMA	233
	+
Number of Proposed Affordable Units at the Subject	40
	=
Total	273
	/
Income Eligible Households - All AMI Levels	20,211
	=
Overall Penetration Rate - Market Focus (NCHMA)	1.4%

PENETRATION RATE - Methodology Two (Market Focus - NCHMA)	
Number of Proposed Competitive LIHTC Units in the PMA	0
	+
Number of Existing Competitive Family LIHTC Units in the PMA	233
	+
Number of Proposed LIHTC Units at the Subject	40
	=
Total	273
	/
Income Eligible Households - All AMI Levels	4,680
	=
Overall Penetration Rate - Market Focus (NCHMA)	5.8%



The overall penetration rate is derived by taking the number of affordable units proposed or under construction within the PMA, combined with the number of proposed LIHTC units, and the number of the Subject's units divided by the number of income eligible households. As detailed in the supply analysis, there are no proposed LIHTC developments within the PMA to remove from the previous calculations. The following table illustrates the existing affordable properties in the PMA.

#### AFFORDABLE HOUSING IN THE PMA

Property Name	Program	Total Units	LIHTC Units	Tenancy
Bradley's Ridge Apartments	Section 8	58	0	Senior/Disabled
Cambridge Square	Section 8	40	0	Family
Christiansburg Bluff	Section 8	120	0	Family
Lantern Ridge Apts	Section 8	120	93	Family
Linden Green Aka Old Farm Village li	Section 8	84	0	Family
Meadowview Apartments	Section 8	98	Ö	Family
Melinda's Melody	Section 8	48	Ö	Senior/Disabled
New River House	Section 8	42	Ō	Family
Parkview Of Radford	Section 8	13	0	Senior/Disabled
Riverbend Apts	Section 8	60	0	Family
Trolinger House	Section 8	102	0	Family
Washington Square Apartments	Section 8	120	0	Family
Willow Woods	Section 8	144	0	Family
Cedar Crest I	LIHTC	26	26	Family
Cedar Crest li	LIHTC	24	24	Family
Fieldstone Family Apartments*	LIHTC	84	84	Family
Fieldstone Senior	LIHTC	60	60	Senior
Cedar Crest lii	LIHTC	28	28	Family
Forest Hills At Belview*	LIHTC	70	70	Family
Heather Glen Apts*	LIHTC	40	40	Family
Henley Place*	LIHTC	41	41	Family
High Meadows	LIHTC	60	60	Family
Huckleberry Court Townhouses*	LIHTC	50	50	Family
Hunting Hills	LIHTC	12	12	Family
Landings	LIHTC	18	18	Family
Laurel Woods (Pulaski)	LIHTC	46	46	Family
Linden Green	LIHTC	84	84	Family
Meadowview	LIHTC	98	98	Family
New River Gardens	LIHTC	48	48	Family
New River Gardens Ii	LIHTC	44	44	Family
New River Overlook	LIHTC	40	40	Senior
Plaza Apts	LIHTC	36	36	Family
Pulaski Village	LIHTC	44	44	Senior
Ridgewood Place*	LIHTC	32	32	Family
Ridgewood Place Seniors	LIHTC	40	40	Senior
Smokey Ridge	LIHTC	52	52	Family
Sunvalley	LIHTC	24	24	Family
Willow Woods Preservation	LIHTC	139	139	Family

<sup>\*</sup>Denotes property used as a rent comparable.

The overall penetration rate for the market is 1.4 percent and 5.8 percent with and without subsidy, respectively. The penetration rate analysis we presented is conservative because it does not account for leakage (i.e. tenants originating outside of the PMA). This penetration rate is considered reasonable.

#### **Absorption Estimate**

According to our rent survey and the analysis of affordable housing demand, the demand for housing of all types is strong. We were able to obtain absorption information from three of the surveyed LIHTC comparable properties. Thus, we expanded our search for absorption data to include Roanoke and nearby counties, which is detailed following.



#### **ABSORPTION**

Property Name	Rent	Tenancy	Year	Total Units	Absorption
Fieldstone Senior Apts	LIHTC	Senior	2018	60	10
The Fieldstone*	LIHTC	Family	2017	84	16.8
Forest Hills At Belview*	LIHTC	Family	2011	70	11
Dara Heights Apartments	LIHTC	Family	2008	48	16
Heather Glen*	LIHTC	Family	2004	40	2
Sedona	Market	Family	2013	271	20
The View At Liberty Center	Market	Family	2014	257	21
LIHTC Average				60	11
Market Average				264	21
Overall Average				119	14

<sup>\*</sup>Utilized as rental comparable

Absorption rates at the comparables range from 12 to 32 units per month with an average of 17 units per month. The Subject is fully occupied and renovations will take place with the tenants in place. We believe that the Subject, if vacant, would lease at a rate of approximately 15 to 20 units per month for a total absorption period of approximately three months.

Rent conclusions were provided in Section F.

We do not anticipate any future changes in the housing stock or risks in the market area that would adversely affect the Subject.

# J. LOCAL PERSPECTIVE OF RENTAL HOUSING AND HOUSING ALTERNATIVES

#### INTERVIEWS/DISCUSSION

In order to ascertain the need for housing in the Subject's area, interviews were conducted with various local officials.

#### **Radford City Rental Assistance Office**

According to Mr. Gabe Martin with the Radford City Rental Assistance Office's Housing Choice Voucher program, there are approximately 113 vouchers allotted to Radford City. Mr. Martin indicated that 100 of the vouchers administered to Radford City are currently in use, while 13 are available and have yet to be administered. Further, Mr. Martin noted he is attempting to verify the applicants on the waiting list and intends to distribute the 13 remaining vouchers, but this process is currently paused due to the government furlough. Mr. Martin reported that there is high demand for affordable housing in Radford and the waiting list is currently comprised of 35 households. Mr. Martin reported there is ample difficulty for some voucher holders to find suitable housing based on the substantial number of student-housing projects and landlords unaccepting of vouchers in Radford. The Subject's proposed rents are below the payment standards. The gross payment standards, effective January 1, 2019, are as follows:

#### **VOUCHER PAYMENT STANDARDS**

Unit Type	Payment Standard	Subject's Current Rents	Subject's Proposed LIHTC Rents
2BR	\$955	\$601	\$843
3BR	\$1,381	\$724	\$923
4BR	\$1,678	\$801	\$1,066

The Subject's current and proposed gross rents are below the current payment standards, indicating residents will not need to pay additional rent out of pocket to reside in the Subject's units. According to the most recent rent roll provided, dated January 10, 2019, the Subject's was 97.5 percent occupied with a waiting list of over 65 households.

#### **Radford City Planning and Development Department**

We attempted to contact the Radford City Planning and Development Department regarding new multifamily developments in the Subject's rental market. However, as of the date of this report, our calls have not been returned. Additionally, we have utilized CoStar's New Construction Listings in order to gather additional information on proposed, planned, under construction, or recently completed multifamily development within the Subject's PMA. We do not believe any of the multifamily properties planned or under construction in the pipeline will directly compete with the Subject based on their student-based tenancy, or lack of affordable units. Our findings are detailed in the table below.

PLANNED DEVELOPMENT

Property Name	Rent Structure	Tenancy	Total Units	Competitive Units	Construction Status	Distance to Subject
Terrace View	Market	Student	1,054	0	Proposed	9.8 miles
Stadium View	Market	Student	77	0	Proposed	9.5 miles
Adams at Peppers Ferry II	Market	Family	156	0	Under Construction	6.4 miles
Highlands at Huckleberry Ridge II	Market	Family	100	0	<b>Under Construction</b>	7.6 miles
Totals		•	1,387	0		

Source: CoStar, January 2019

#### **LIHTC Competition / Recent and Proposed Construction**

According to the Virginia Housing Development Authority (VHDA), two developments have received LIHTC allocations within the Subject's PMA since 2016. The details of these allocations is listed below.

#### **RECENT LIHTC ALLOCATIONS IN PMA**

					-		
	Property Name	Year	Rent	Tenancy	Total Units	Competitive	Distance to
		Allocated	Structure	Tellaticy	Total Utilis	Units	Subject
	New River Gardens I	2018	LIHTC	Family	48	48	3.1 miles
	Bluegrass Apartments	2016	LIHTC	Elderly	39	39	15 miles
	Total				87	87	

Source: Virginia Housing Development Authority, January 2019



- New River Gardens I, an existing multifamily LIHTC development, was allocated new LIHTC funding in 2018 for its rehabilitation. New River Gardens I consists of 48 one-bedroom units and was originally constructed in 1992. The development is located within an Opportunity Zone, approximately three miles west of the Subject. However, due to its incomparable unit mix, and current stabilized operations, we do not believe the development will be directly competitive with the Subject, post renovation.
- Bluegrass Apartments is an existing historic preservation project that was significantly renovated and rehabilitated with LIHTC in 2000 for the rehabilitation of the existing building into 39 one-bedroom units set aside for senior tenants earning 50 percent of AMI or below. The development received an additional LIHTC allocation in 2016 for new renovations. Based on the targeted tenancy and unit mix of Bluegrass Apartments, we do not find it to be directly competitive with the Subject.





#### **ANALYSIS/CONCLUSIONS**

In general, we believe there is demand in the marketplace for the Subject as conceived. However, based on the comparable data, and given the Subject will be renovated, we believe that rents slightly below the maximum allowable levels are attainable and supported by the market. Thus, we have concluded to rents of \$825, \$900, and \$1,025 for the two-, three-, and four-bedroom units, respectively, for the Subject's proposed rents at 60 percent AMI.

#### **Strengths**

- As a newly renovated property, the Subject will exhibit superior condition relative to the majority of the comparable properties.
- The Subject's projected LIHTC rents represent a discount to the achievable market rents.
- The LIHTC vacancy at the comparable properties is 5.0 percent, which suggests a stable market for affordable housing.
- The Subject primarily offers a townhouse design for a majority of its units, which will offer appeal to family renters.

#### <u>Weaknesses</u>

The Subject's unit sizes are at a market disadvantage to the average unit sizes at the comparables.

#### Capture Rates - VHDA:

• The VHDA net demand and capture rate table illustrates demand for the Subject based on capture rates of income-eligible renter households. The following table illustrates the conclusions from this table.

Project Wide Capture Rate - Section 8 Units
Project Wide Capture Rate - LIHTC Units
Project Wide Absorption Period (Months)

2.7%
3.4%
3 months
-

These are low capture rates and are indicative of adequate demand for the Subject.

#### Conclusions/Recommendations

• In general, we believe there is demand in the marketplace for the Subject as proposed. Additionally, the market has reported strong occupancy rates and waiting lists. The Subject will be well-positioned in the market as a newly renovated property, and will be in generally superior condition to most of the comparable properties. The market exhibits moderate to strong demand for affordable housing, with vacancy rates ranging from zero to 11.4 percent at the comparable LIHTC properties, with average vacancy rates of five percent or below. Vacancy and collection loss at the Subject is expected to be no more than five percent over the long term. Based on the comparable data, we believe the proposed rental rates are not achievable at the maximum allowable levels. The Subject offers a significant market rent advantage. Overall, we believe there is demand for the Subject.



# L. OTHER REQUIREMENTS

#### I affirm the following:

- 1. I (Molly Carpenter) have made a physical inspection of the site and market area.
- 2. The appropriate information has been used in the comprehensive evaluation of the need and demand for the proposed rental units.
- 3. To the best of my knowledge the market can support the demand shown in this study. I understand that any misrepresentation in this statement may result in the denial of participation in the Low Income Housing Tax Credit Program in Virginia as administered by VHDA.
- 4. Neither I nor anyone at my firm has any interest in the proposed development or a relationship with the ownership entity.
- 5. Neither I nor anyone at my firm nor anyone acting on behalf of my firm in connection with the preparation of this report has communicated to others that my firm is representing VHDA or in any way acting for, at the request of, or on behalf of VHDA.
- 6. Compensation for my services is not contingent upon this development receiving a LIHTC reservation or allocation.

This report was written according to the 2019 VHDA market study guidelines. The recommendations and conclusions are based solely on professional opinion and best efforts.

Respectfully submitted, Novogradac & Company LLP

Blair Kincer, MAI, CRE LEED Green Associate

Partner

Blair.Kincer@novoco.com

Jennifer Stapelfeld

Analyst

Jennifer.Stapelfeld@novoco.com

Lindsey Sutton Principal

Lindsey.Sutton@novoco.com

Molly Carpenter Junior Analyst

Molly.Carpenter@novoco.com



# ASSUMPTIONS AND LIMITING CONDITIONS

#### ASSUMPTIONS AND LIMITING CONDITIONS

- 1. In the event that the client provided a legal description, building plans, title policy and/or survey, etc., the appraiser has relied extensively upon such data in the formulation of all analyses.
- 2. The legal description as supplied by the client is assumed to be correct and the author assumes no responsibility for legal matters, and renders no opinion of property title, which is assumed to be good and merchantable.
- All encumbrances, including mortgages, liens, leases, and servitudes, were disregarded in this valuation unless specified in the report. It was recognized, however, that the typical purchaser would likely take advantage of the best available financing, and the effects of such financing on property value were considered.
- 4. All information contained in the report, which others furnished, was assumed to be true, correct, and reliable. A reasonable effort was made to verify such information, but the author assumes no responsibility for its accuracy.
- 5. The report was made assuming responsible ownership and capable management of the property.
- 6. The sketches, photographs, and other exhibits in this report are solely for the purpose of assisting the reader in visualizing the property. The author made no property survey and assumes no liability in connection with such matters. It was also assumed there is no property encroachment or trespass unless noted in the report.
- 7. The author of this report assumes no responsibility for hidden or unapparent conditions of the property, subsoil, or structures, or the correction of any defects now proposed or that may develop in the future. Equipment components were assumed in good working condition unless otherwise stated in this report.
- 8. It is assumed that there are no hidden or unapparent conditions for the property, subsoil, or structures, which would render it more or less valuable. No responsibility is assumed for such conditions or for engineering, which may be required to discover such factors.
- 9. The investigation made it reasonable to assume, for report purposes, that no insulation or other product banned by the Consumer Product Safety Commission has been introduced into the Subject premises. Visual inspection by the appraiser did not indicate the presence of any hazardous waste. It is suggested the client obtain a professional environmental hazard survey to further define the condition of the Subject soil if they deem necessary.
- 10. Any distribution of total property value between land and improvements applies only under the proposed or specified program of property utilization. Separate valuations for land and buildings must not be used in conjunction with any other study or appraisal and are invalid if so used.
- 11. Possession of the report, or a copy thereof, does not carry with it the right of publication, nor may it be reproduced in whole or in part, in any manner, by any person, without the prior written consent of the author particularly as to value conclusions, the identity of the author or the firm with which he or she is connected. Neither all nor any part of the report or copy thereof shall be disseminated to the general public by the use of advertising, public relations, news, sales, or other media for public communication without the prior written consent and approval of the appraiser. Nor shall the appraiser, firm, or professional organizations of which the appraiser is a member be identified without written consent of the appraiser.
- 12. Disclosure of the contents of this report is governed by the Bylaws and Regulations of the professional appraisal organization with which the appraiser is affiliated: specifically, the Appraisal Institute.

- 13. The author of this report is not required to give testimony or attendance in legal or other proceedings relative to this report or to the Subject site unless satisfactory additional arrangements are made prior to the need for such services.
- 14. The opinions contained in this report are those of the author and no responsibility is accepted by the author for the results of actions taken by others based on information contained herein.
- 15. Opinions of value contained herein are estimates. There is no guarantee, written or implied, that the Subject site will sell or lease for the indicated amounts.
- 16. All applicable zoning and use regulations and restrictions are assumed to have been complied with, unless nonconformity has been stated, defined, and considered in the appraisal report.
- 17. It is assumed that all required licenses, permits, covenants or other legislative or administrative authority from any local, state, or national governmental or private entity or organization have been or can be obtained or renewed for any use on which the value estimate contained in this report is based.
- 18. On all studies, Subject to satisfactory completion, repairs, or alterations, the report and conclusions are contingent upon completion of the improvements in a workmanlike manner and in a reasonable period of time.
- 19. All general codes, ordinances, regulations or statutes affecting the property have been and will be enforced and the property is not Subject to flood plain or utility restrictions or moratoriums, except as reported to the appraiser and contained in this report.
- 20. The party for whom this report is prepared has reported to the appraiser there are no original proposed condition or development plans that would Subject this property to the regulations of the Securities and Exchange Commission or similar agencies on the state or local level.
- 21. Unless stated otherwise, no percolation tests have been performed on this property. In making the appraisal, it has been assumed the property is capable of passing such tests so as to be developable to its highest and best use, as detailed in this report.
- 22. No in-depth inspection was made of proposed plumbing (including well and septic), electrical, or heating systems. The appraiser does not warrant the condition or adequacy of such systems.
- 23. No in-depth inspection of proposed insulation was made. It is specifically assumed no Urea Formaldehyde Foam Insulation (UFFI), or any other product banned or discouraged by the Consumer Product Safety Commission has been introduced into the appraised property. The appraiser reserves the right to review and/or modify this appraisal if said insulation exists on the Subject site.
- 24. Estimates presented in this report are assignable to parties to the development's financial structure.

# **ADDENDUM A**

Statement of Qualifications

#### STATEMENT OF PROFESSIONAL QUALIFICATIONS H. BLAIR KINCER, MAI, CRE

#### I. Education

Duquesne University, Pittsburgh, Pennsylvania Masters in Business Administration Graduated Summa Cum Laude

West Virginia University, Morgantown, West Virginia Bachelor of Science in Business Administration Graduated Magna Cum Laude

#### **II. Licensing and Professional Affiliation**

Member of the Appraisal Institute (MAI)

Member, The Counselors of Real Estate (CRE)

LEED Green Associate

Member, National Council of Housing Market Analysts (NCHMA)

Past Member Frostburg Housing Authority

Certified General Real Estate Appraiser, No. RCG1046 – State of Connecticut

Certified General Real Estate Appraiser, No 4206 – State of Kentucky

Certified General Real Estate Appraiser, No. 1326 – State of Maryland

Certified General Real Estate Appraiser, No. 103789 – State of Massachusetts

Certified General Real Estate Appraiser, No. GA-805 – State of Mississippi

Certified General Real Estate Appraiser, No. 46000039124 – State of New York

Certified General Real Estate Appraiser, No. A6765 – State of North Carolina

Certified General Real Estate Appraiser, No. GA001407L – Commonwealth of Pennsylvania

Certified General Real Estate Appraiser, No. 5930 – State of South Carolina

Certified General Real Estate Appraiser, No. 3918 – State of Tennessee

Certified General Real Estate Appraiser, No. 4001004822 – Commonwealth of Virginia

Certified General Real Estate Appraiser, No. 1101008 – State of Washington

Certified General Real Estate Appraiser, No. CG360 – State of West Virginia

Certified General Real Estate Appraiser, No. 1081 – State of Wyoming

#### III. Professional Experience

Partner, Novogradac & Company LLP

Vice President, Capital Realty Advisors, Inc.

Vice President - Acquisitions, The Community Partners Development Group, LLC

Commercial Loan Officer/Work-Out Specialist, First Federal Savings Bank of Western MD

Manager - Real Estate Valuation Services, Ernst & Young LLP

Senior Associate, Joseph J. Blake and Associates, Inc.

Senior Appraiser, Chevy Chase, F.S.B.

Senior Consultant, Pannell Kerr Forster

#### **IV. Professional Training**

Have presented at and attended various IPED and Novogradac conferences regarding the affordable housing industry. Have done presentations on the appraisal and market analysis of Section 8 and 42 properties. Have spoken regarding general market analysis topics.

Obtained the MAI designation in 1998 and maintained continuing education requirements since. Completed additional professional development programs administered by the Appraisal Institute in the following topic areas:

- 1) Valuation of the Components of a Business Enterprise
- 2) Valuation of Sustainable Buildings

#### V. Real Estate Assignments – Examples

In general, have managed and conducted numerous market analyses and appraisals for all types of commercial real estate since 1988.

- Performed numerous appraisals for the US Army Corps of Engineers US Geological Survey and the GSA. Property types included Office, Hotel, Residential, Land, Gymnasium, warehouse space, border patrol office. Properties located in varied locations such as the Washington, DC area, Yuma, AZ, Moscow, ID, Blaine, WA, Lakewood, CO, Seattle, WA
- Performed appraisals of commercial properties such as hotels, retail strip centers, grocery stores, shopping centers etc for properties in various locations throughout Pennsylvania, New Jersey, Maryland, New York for Holiday, Fenoglio, Fowler, LP and Three Rivers Bank.
- Have managed and conducted numerous market and feasibility studies for affordable housing. Properties are generally Section 42 Low Income Housing Tax Credit Properties. Local housing authorities, developers, syndicators and lenders have used these studies to assist in the financial underwriting and design of LIHTC properties. Analysis typically includes; unit mix determination, demand projections, rental rate analysis, competitive property surveying and overall market analysis. An area of special concentration has been the category of Senior Independent living properties. Work has been national in scope.
- Provided appraisal and market studies for a large portfolio of properties located throughout the United States. The reports provided included a variety of property types including vacant land, office buildings, multifamily rental properties, gas stations, hotels, retail buildings, industrial and warehouse space, country clubs and golf courses, etc. The portfolio included more than 150 assets and the work was performed for the SBA through Metec Asset Management LLP.
- Have managed and conducted numerous appraisals of affordable housing (primarily LIHTC developments). Appraisal assignments typically involved determining the as is, as if complete and the as if complete and stabilized values. Additionally, encumbered (LIHTC) and unencumbered values were typically derived. The three traditional approaches to value

are developed with special methodologies included to value tax credit equity, below market financing and Pilot agreements.

- •Á Performed numerous appraisals in 17 states of proposed new construction and existing properties under the HUD Multifamily Accelerated Processing program. These appraisals meet the requirements outlined in HUD Handbook 4465.1 and Chapter 7 of the HUD MAP Guide.
- •Á Performed numerous market study/appraisals assignments for USDA RD properties in several states in conjunction with acquisition rehabilitation redevelopments. Documents are used by states, FannieMae, USDA and the developer in the underwriting process. Market studies are compliant to State, FannieMae and USDA requirements. Appraisals are compliant to FannieMae and USDA HB-1-3560 Chapter 7 and Attachments.
- •Á Completed numerous FannieMae appraisals of affordable and market rate multi-family properties for Fannie DUS Lenders. Currently have ongoing assignment relationships with several DUS Lenders.
- •Á In accordance with HUD's Section 8 Renewal Policy and Chapter 9, Mr. Kincer has completed numerous Rent Comparability Studies for various property owners and local housing authorities. The properties were typically undergoing recertification under HUD's Mark to Market Program.
- •Á Completed Fair Market Value analyses for solar panel installations, wind turbine installations, and other renewable energy assets in connection with financing and structuring analyses performed by various clients. The clients include lenders, investors, and developers. The reports are used by clients and their advisors to evaluate certain tax consequences applicable to ownership. Additionally, the reports have been used in the ITC funding process and in connection with the application for the federal grant identified as Section 1603 American Recovery & Reinvestment Act of 2009.

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### STATEMENT OF PROFESSIONAL QUALIFICATIONS Jennifer Stapelfeld

#### **EDUCATION**

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#### PROFESSIONAL EXPERIENCE

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### STATEMENT OF PROFESSIONAL QUALIFICATIONS MOLLY CARPENTER

#### I. Education

University of Maryland, College Park – College Park, MD Master of Community Planning

Iowa State University – Ames, IA Bachelor of Science, Community and Regional Planning

#### II. Professional Experience

Junior Analyst, Novogradac & Company LLP – March 2018 – Present Research Analyst, Sage Computing – June 2017 – March 2018 Intern, Maryland Department of Housing and Community Development – August 2016 – May 2017

#### III. Research Assignments

A representative sample of work on various types of projects:

- Assist in performing and writing markets studies of proposed and existing Low-Income Housing Tax Credit (LIHTC) properties.
- Research web-based rent reasonableness systems and contact local housing authorities for utility allowance schedules, payment standards, and Housing Choice Voucher information.
- Assisted numerous market and feasibility studies for family and senior affordable housing.
  Local housing authorities, developers, syndicators and lenders have used these studies to
  assist in the financial underwriting and design of market-rate and Low-Income Housing Tax
  Credit (LIHTC) properties. Analysis typically includes: unit mix determination, demand
  projections, rental rate analysis, competitive property surveying and overall market analysis.

# **ADDENDUM B**

Data Sources

#### **DATA SOURCES**

Sources used in this study include data that is both written and oral, published and unpublished, and proprietary and non-proprietary. Real estate developers, housing officials, local housing, and planning authority employees, property managers and other housing industry participants were interviewed. In addition, we conducted a survey of proposed, comparable properties.

This report incorporates published data supplied by various agencies and organizations including:

- U.S. Census Bureau
- Radford Economic Development Department
- New River Valley Regional Commission
- Radford City Planning and Development Department
- Virginia Employment Commission
- Virginia Workforce Network
- ESRI, Business Information Solutions
- Ribbon Demographics
- CoStar Rental Market Report
- US Department of Commerce, Bureau of Labor Statistics
- Department of Housing and Urban Development (HUD)
- Virginia Housing Development Authority Utility Allowance
- VHDA Market Study Requirements, 2019





**National Council of Affordable Housing Market Analysts** 

#### NCHMA MEMBER CERTIFICATION

This market study has been prepared by Novogradac & Company LLP, a member in good standing of the National Council of Housing Market Analysts (NCHMA). This study has been prepared in conformance with the standards adopted by NCHMA for the market analysts' industry. These standards include the Standard Definitions of Key Terms Used in Market Studies, and Model Content Standards for the Content of Market Studies. These Standards are designed to enhance the quality of market studies and to make them easier to prepare, understand, and use by market analysts and by the end users. These Standards are voluntary only. and no legal responsibility regarding their use is assumed by the National Council of Housing Market Analysts.

Novogradac & Company LLP is duly qualified and experienced in providing market analysis for Affordable Housing. The company's principals participate in the National Council of Housing Market Analysts (NCHMA) educational and information sharing programs to maintain the highest professional standards and state-of-the-art knowledge. Novogradac & Company LLP is an independent market analyst. No principal or employee of Novogradac & Company **LLP** has any financial interest whatsoever in the development for which this analysis has been undertaken.

Jennifer Stapelfeld

Analyst





### Virginia Housing Development Authority Housing Choice Voucher Program

Allowances for **Tenant-Furnished Utilities** and Other Services

Family Name: Unit Address:		
Voucher Size*:	Unit Bedroom Size*:	<del></del>
*Use smaller size to co	alculate tenant-supplied utilities ar	nd appliances.

		Unit Tun	. 2 Evnas	ad Walla		Effective	Dete: 07	7/04/2040	
		Unit Type	e: 2 Expos	ed walls	Monthly Do		Date: 07	701/2018	
Utility	Usage	0 BR	1 BR	2BR	3BR	4BR	5 BR	6 BR	7BR
Othity	Usage								
Appliance	Range/Microwave								
		\$2.00	\$2.00	\$2.00	\$2.00	\$2.00	\$2.00	\$2.00	\$2.00
	Refrigerator	\$3.00	\$3.00	\$3.00	\$3.00	\$3.00	\$3.00	\$3.00	\$3.00
Bottled Gas	Cooking	\$8.00	\$11.00	\$14.00	\$18.00	\$22.00	\$26.00	\$29.00	\$32.00
	Home Heating	\$49.00	\$68.00	\$88.00	\$107.00	\$137.00	\$156.00	\$175.00	\$195.00
	Water Heating	\$20.00	\$28.00	\$36.00	\$44.00	\$56.00	\$64.00	\$72.00	\$80.00
Electricity	Cooking	\$3.00	\$4.00	\$5.00	\$6.00	\$7.00	\$8.00	\$9.00	\$10.00
	Cooling (A/C)	\$5.00	\$7.00	\$9.00	\$12.00	\$15.00	\$17.00	\$19.00	\$21.00
	Home Heating	\$19.00	\$26.00	\$34.00	\$41.00	\$51.00	\$59.00	\$66.00	\$74.00
	Other Electric	\$10.00	\$14.00	\$18.00	\$22.00	\$28.00	\$32.00	\$36.00	\$40.00
	Water Heating	\$9.00	\$13.00	\$16.00	\$20.00	\$25.00	\$29.00	\$32.00	\$36.00
Natural Gas	Cooking	\$2.00	\$2.00	\$3.00	\$3.00	\$4.00	\$5.00	\$5.00	\$6.00
	Home Heating	\$11.00	\$14.00	\$18.00	\$22.00	\$28.00	\$32.00	\$36.00	\$40.00
	Water Heating	\$4.00	\$6.00	\$7.00	\$9.00	\$11.00	\$13.00	\$14.00	\$16.00
Oil	Home Heating	\$38.00	\$53.00	\$67.00	\$82.00	\$104.00	\$120.00	\$134.00	\$149.00
	Water Heating	\$16.00	\$22.00	\$28.00	\$34.00	\$43.00	\$50.00	\$56.00	\$62.00
Sewer	Other	\$20.00	\$27.00	\$35.00	\$43.00	\$55.00	\$62.00	\$70.00	\$78.00
Trash Collection	Other	\$12.00	\$12.00	\$12.00	\$12.00	\$12.00	\$12.00	\$12.00	\$12.00
Water	Other	\$17.00	\$23.00	\$30.00	\$36.00	\$46.00	\$53.00	\$59.00	\$66.00
	LOWANCE TAL:	\$	\$	\$	\$	\$	\$	\$	\$

## **ADDENDUM E**

Subject and Neighborhood Photographs



SUBJECT SIGNAGE



SUBJECT EXTERIOR



SUBJECT EXTERIOR AND PARKING



SUBJECT EXTERIOR



SUBJECT EXTERIOR AND FENCED PATIO



SUBJECT WALKWAY AND LEASING OFFICE



SUBJECT BASKETBALL COURT AND EXTERIOR



SUBJECT CROSS STREET SIGNAGE



SUBHECT ON-SITE MANAGEMENT OFFICE



SUBJECT ACCESS AND TOPOGRAPHY



**VIEW SOUTH ON FAIRFAX STREET** 



**VIEW NORTH ON FAIRFAX STREET** 



TYPICAL BEDROOM



TYPICAL BEDROOM



TYPICAL LIVING ROOM



TYPICAL LIVING ROOM



TYPICAL KITCHEN



TYPICAL KITCHEN



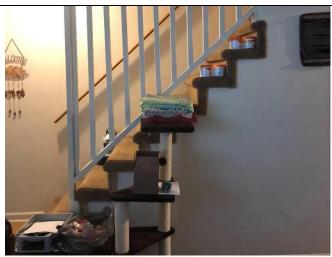
TYPICAL BATHROOM



TYPICAL BATHROOM



TYPICAL UNIT HALLWAY



TYPICAL TOWNHOUSE STAIRWAY



TYPICAL CLOSET



SUBJECT MAINTENANCE SHOP

### FAIRFAX VILLAGE - RADFORD, VIRGINIA SOURCE: MOLLY CARPENTER, JUNIOR ANALYST

**DATE: JANUARY 10, 2019** 



TYPICAL SINGLE-FAMILY HOME IN SUBJECT NEIGHBORHOOD



TYPICAL SINGLE-FAMILY HOME IN SUBJECT NEIGHBORHOOD



**RETAIL USE NEAR SUBJECT** 



POST OFFICE NEAR SUBJECT



PUBLIC LIBRARY NEAR SUBJECT



RADFORD UNIVERSITY REC CENTER NEAR SUBJECT