



Attainable Housing Strategies

Planning Board Recommendations
2021

DRAFT Attainable Housing Strategies Report

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Executive Summary

In March 2021, the Montgomery County Council requested that the Montgomery County Planning Board undertake an effort to consider zoning reforms to allow opportunities for more diverse housing types in the county, to provide opportunities for public input, and to send recommended zoning modifications to the Council. Subsequently, through the Attainable Housing Strategies initiative (AHS), the Montgomery County Planning Department (Montgomery Planning) studied, reviewed and refined various housing policy options. This report represents the culmination of this effort by Montgomery Planning, providing the findings of the analyses and presenting the recommendations of the Planning Board, which have also been informed by an extensive stakeholder feedback effort.

As requested by the Council, the report identifies zoning reforms that will allow and encourage the creation of a more diverse range of housing typologies across the county. Appendix H includes comprehensive modifications to the county's zoning ordinance that would implement the numerous recommendations contained within this report. However, the recommendations should be viewed as providing a menu of options for the Council to consider, which can be implemented by introducing and adopting relevant portions of the corresponding zoning modifications.

Planning staff conducted seven AHS work sessions with the Planning Board, which resulted in the following recommendations.

AHS Goals and Scales

- **AHS Initiative Goals:** While the overarching purpose of the AHS initiative is to increase the diversity of housing options across more of Montgomery County, the Planning Board endorses the following specific goals for the initiative:
 - Increase opportunities to meet the county's diverse housing supply needs and obligations, as well as the county's economic development objectives.
 - Unravel the exclusionary aspects of the county's single-family residential zones to diversify the county's communities by diversifying the county's housing stock.
 - Create more opportunities for homeownership for more households in more parts of the county.
- **Attainable Housing Definition:** The Planning Board supports a definition of attainable housing that includes a focus on providing more diverse housing options that allow more neighborhoods to be attainable to more households. Attainability is the ability of households of various incomes and sizes to obtain housing that is suitable for their needs and affordable to them. Attainable housing includes diverse housing types beyond single-family detached units and these housing types tend to be smaller and more affordable than the typical new detached home in that neighborhood.
- **Attainable Housing Scales:** The Planning Board recognizes three scales of attainable housing – small, medium and large. With the three scales comes three distinct sets of housing typologies, achieved through different recommendations and implementation tools, each with its own geographic focus.

Small Scale Attainable Housing Recommendations

- **Applicable Residential Zones for Small Scale Attainable Housing:** Small scale attainable housing includes house-scaled duplexes and multiplexes (triplexes and quadplexes). The Planning Board

recommends allowing, by-right with pattern book conformance, small scale attainable housing as follows:

- duplexes in the R-40, R-60, R-90, and R-200 zones;
 - triplexes in the R-40, R-60, and R-90 zones; and
 - quadplexes in the R-40, R-60, and R-90 zones within the Priority Housing District.
- **Pattern Book:** The Planning Board recommends creating a Planning Board-approved pattern book, to which conformance will be mandatory for the creation of new small scale attainable housing whether through new construction or renovations to existing structures. The pattern book will be developed separately from the zoning recommendations through a process that will provide additional opportunities for community and stakeholder input. Work on the pattern book will proceed after receiving direction from the Montgomery County Council. The Planning Board advised Planning staff to work with the Montgomery County Department of Permitting Services to design a process for the implementation of the pattern book.
- **Priority Housing District:** The Planning Board recommends establishing the Priority Housing District, as the part of the county in which quadplexes would be allowed and parking requirements would be reduced. The Board recommends defining the Priority Housing District using a straight-line buffer of 1-mile from Red line, Purple Line, and MARC rail stations,¹ plus 500 ft from a BRT Corridor plus River Road (inside the beltway) and Connecticut Avenue.
- **Development Standards:** The Planning Board recommends a series of development standards for small scale attainable housing that generally follows the development standards for detached houses. The Board further recommends that:
 - Substandard sized lots that currently allow single-family detached homes should not have restrictions placed on them prohibiting duplexes, triplexes or quadplexes.
 - The development standards will act to put limits on building size, but, more importantly, the pattern book should be utilized to establish design standards that ensure compatibility and feasibility.

Medium Scale Attainable Housing Recommendations

- **Attainable Housing Optional Method (AHOM) for Medium Scale Attainable Housing:** The Planning Board was supportive of the idea of the AHOM and middle density attainable housing. The intent of the AHOM is to allow greater density and development flexibility in exchange for attainability.
 - **AHOM Geographic Applicability:** Properties zoned R-90 or R-60 that abut a corridor planned for BRT in the *2013 Countywide Transit Corridors Functional Master Plan*, and Connecticut Ave and River Road inside the beltway, properties recommended for AHOM in a Master Plan or properties recommended for a Residential Floating Zone through a Master Plan are eligible for the AHOM.
 - **Maximum Average Unit Size:** The most practical means of ensuring attainability is to establish a maximum average unit size across all unit types within a development project. The Planning Board recommended 1,500 SF as the maximum average unit size.
 - **Density in the AHOM:** The Planning Board agreed to a net density of 10 units/acre for the R-90 zone, and 13 units/acre for the R-60 zone. Additional bonus density would be allowed for AHOM projects with an average unit size below 1,500 SF.

¹ This station buffer is consistent with the reduced parking requirements currently allowed for Accessory Dwelling Units.

Large Scale Attainable Housing Recommendation

- **Corridor-Focused Master Plans:** The Planning Board recommends using the master plan process to potentially rezone properties along the county's primary growth corridors for higher intensity, large scale attainable housing development.

Additional Recommendations

- **MPDU and Cluster Optional Methods of Development:** The Planning Board recommends updating the existing MPDU and Cluster Optional Methods of Development to allow triplex and quadplex buildings. Correspondingly, the Board recommends a series of applicable development standards that largely mimic the optional method standards for detached houses.
- **Standard Method of Development in Other Zones:** The Planning Board recommends allowing triplexes and quadplexes under the standard method of development in the Residential Townhome, Residential Multi-Unit, Commercial/Residential and Employment zones, where duplex and townhouse building types are currently allowed by-right
- **Parking:** The Planning Board agreed to reduce minimum off-street vehicle parking requirements for Attainable Housing units but will also include other parking options in the AHS report.
- **Catalyst Policies and Programs:** The Planning Board recommends that the county explore several additional policies and programs to encourage the production of attainable housing. These policies include ones that would assist existing homeowners who wish to convert their homes to a duplex, triplex or quadplex, and other community-level incentive programs. The Board recommends that these ideas be studied through multi-agency efforts after implementing any zoning reform.

Introduction

On March 4, 2021, the Montgomery County Council directed the Montgomery County Planning Board to review and analyze housing options in the county (see Appendix A). In order to explore these housing options and to provide a comprehensive overview of housing options in the County, Montgomery Planning launched the [Attainable Housing Strategies \(AHS\)](#) initiative, a study aimed at evaluating and refining various proposals to spur the development of more diverse types of housing, including [Missing Middle Housing](#) in Montgomery County.

This report provides an overview of the Planning Board's recommendations. While the report will discuss the entirety of the Planning Board's recommendations, given the depth and complexity of the recommendations, the recommendations section should be viewed as providing a menu of options from which the County Council can choose elements to pursue.

Initiative Timeline

The Attainable Housing Strategies initiative planned its major milestones and activities around gathering feedback from the community and other stakeholders with the goal of reaching as many members of the community as possible. This process included seven work sessions with the Planning Board, four community meetings, three sets of virtual office hours, an external advisory team (Housing Equity Advisory Team) that provided initial feedback and guidance on the preliminary recommendations, and a social media day focused on housing.

Major Engagement Events and Project Milestones	
March 24, 2021	HEAT Meeting #1
March 29, 2021	Community Meeting #1
April 9, 2021	Virtual Office Hours
April 14, 2021	HEAT Meeting #2
April 21, 2021	Community Meeting #2
April 27, 2021	Virtual Office Hours
April 28, 2021	HEAT Meeting #3
May 1, 2021	#MyMoCoHome Kickoff
May 13, 2021	Planning Board Update Briefing
May 19, 2021	HEAT Meeting #4
June 2, 2021	Community Meeting #3
June 3, 2021	Virtual Office Hours
June 14, 2021	Social Media Day
June 24, 2021	Planning Board Briefing and Public Comments
July 8, 2021	Planning Board Work Session #1
July 22, 2021	Planning Board Work Session #2
September 9, 2021	Planning Board Work Session #3
October 7, 2021	Planning Board Work Session #4
November 4, 2021	Planning Board Work Session #5
December 9, 2021	Planning Board Work Session #6
December 13, 2021	Community Meeting #4
January 6, 2022	Planning Board Work Session #7

Research and Analysis

In support of the AHS initiative, Planning staff conducted research and analysis to inform and support the AHS recommendations. This research included:

- [Missing Middle Market Study](#) and AHS refinement ([Appendix C](#))
- Changes in Attainability ([Goals section](#) and [Appendix G](#))
- Feasibility of Requiring an Affordability Component ([Appendix C](#))
- Gentrification and Displacement Analysis ([Appendix C](#))
- Catalyst Policies and Programs Research ([Additional Recommendations section](#))
- Review of Other Jurisdictions ([Appendix D](#))
- Attainable Housing Typologies Modeling ([Appendix F](#))

Concurrent and Related Efforts

The Attainable Housing Strategies initiative is part of an ongoing, extensive, multi-year effort by the county and Planning Department to address the housing supply crisis in Montgomery County. This includes several studies listed below, as well as master plans, bills and zoning text amendments that were targeted in their evaluation and application to specific housing elements.

Montgomery Planning Housing Studies

The work on the AHS initiative has also been influenced by other recent housing initiatives within the county and studies conducted by Montgomery Planning.

- Montgomery Planning Housing Studies:
 - [Rental Housing Study \(2017\)](#)
 - [Housing for Older Adults Study \(2018\)](#)
 - [Missing Middle Housing Study \(2018\)](#)
 - [Housing Needs Assessment \(2020\)](#)
 - [Preservation of Affordable Housing Study \(2020\)](#)
 - [Residential Development Capacity Analysis \(2021\)](#)
- Updates to the county's requirements for MPDU production (2018)
- Adoption of ZTA 19-01 modifying the rules and standards pertaining to Accessory Dwelling Units (2019)
- Establishment and county concurrence with regional housing targets (2019)
- Council adoption of a revamped [Growth and Infrastructure Policy \(2020\)](#)
- Council creation of a PILOT program for housing on WMATA sites (2020)
- Increased funding for the Housing Opportunities Commission Production Fund (2021)
- Recently adopted Master Plans with a focus on Missing Middle Housing:
 - [Veirs Mill Corridor Master Plan \(2018\)](#)
 - [Forest Glen Montgomery Hills Sector Plan \(2019\)](#)

Thrive Montgomery 2050

In April, the Planning Board approved its draft of [Thrive Montgomery 2050](#), the county's most comprehensive update to the General Plan in more than 50 years. As a General Plan, Thrive Montgomery 2050 is a long-range policy framework that does not change zoning, but rather establishes the county's vision for the future that relies on future Zoning Text Amendments, Sectional Map Amendments, bills and policy changes to have its vision implemented. Thrive Montgomery 2050 aims to promote diversity of housing types and more housing choice. Attainable Housing Strategies represents the county's first opportunity to implement housing policies in Thrive Montgomery 2050.

There have been concerns raised about conducting the AHS initiative prior to the adoption of Thrive Montgomery 2050. While Thrive Montgomery adoption is not a prerequisite for consideration of zoning reform, the Board agrees that the framework established by the new General Plan should be adopted prior to the Council taking action on the significant recommendations in this report. Similarly, when Councilmember Will Jawando introduced Zoning Text Amendment (ZTA) 20-07 in December 2020 to allow certain new types of housing near Metrorail stations, the Planning Board recommended a more comprehensive review of policy options through a Thrive Montgomery lens. The County Council has

agreed with this approach. Ultimately, any zoning changes the Council pursues will not be taken up until after Thrive Montgomery is adopted. Nevertheless, the two initiatives have been moving in tandem and the outcome of Thrive Montgomery 2050 will influence any zoning reform adopted by the Council to implement AHS recommendations.

ZTA 20-07

Through Attainable Housing Strategies, the Planning Board has considered zoning reforms that would allow greater opportunities for more diverse housing types in the county. The Board considered concepts in [ZTA 20-07](#), which was introduced in December 2020 by Councilmember Will Jawando to allow certain new housing types in the R-60 zone near Metrorail stations, as well as a [draft ZTA](#) circulated by Councilmember Hans Riemer in early 2021 that would allow certain new housing types along the county's bus rapid transit corridors.

Silver Spring Downtown and Adjacent Communities Plan

In the spring of 2020, the Planning Board approved the [Silver Spring Downtown and Adjacent Communities \(SSDAC\) Plan](#) area, which includes residential blocks adjacent to downtown Silver Spring and within walking distance of high-capacity downtown transit stations. Planning staff began studying housing policy options for these blocks, but with the launch of the AHS initiative, the SSDAC Plan approach and recommendations shifted to support the outcome of the AHS initiative. The Plan ultimately will rely on the AHS recommendations for the R-60 zone, so that the recommendations for properties within the plan's boundary will be consistent with the recommendations for R-60 countywide. The initial research for the Plan also included a [mini Missing Middle market study](#), which has helped to inform Planning staff's work on the AHS initiative.

Definition of Attainable Housing and Scale

The term “attainable housing” is a broad umbrella term that encapsulates both house-scale Missing Middle, as well as larger-scale housing products that will provide more housing choice along Montgomery County’s transit corridors.

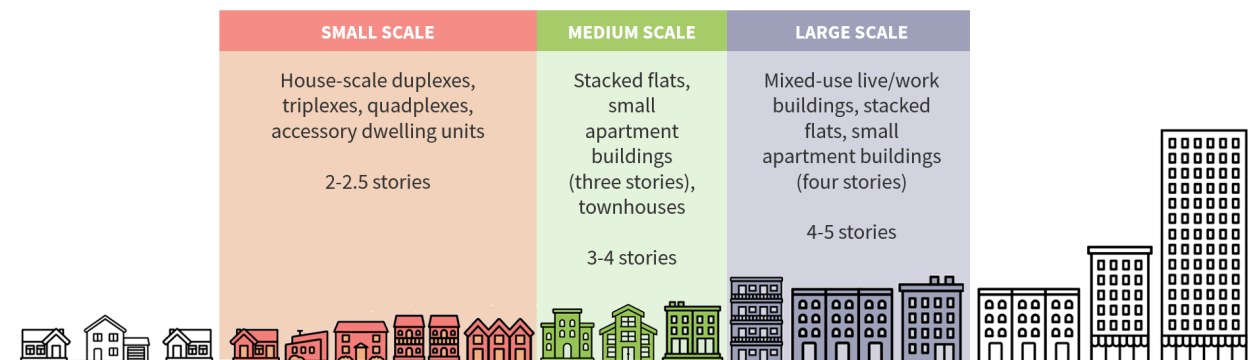


Figure 1. Attainable housing spectrum of scales.

A critical element of attainable housing is the existence of housing units at a variety of scales. The graphic in Figure 1 depicts three distinct scales on a spectrum:

- **Small scale:** 2- to 2.5-story duplexes (structures with two dwelling units), triplexes (three dwelling units) and quadplexes (four dwelling units),² and accessory dwelling units
- **Medium scale:** 3- to 4-story stacked flats, small apartment buildings and small townhouses
- **Large scale:** 4- to 5-story mixed-use live/work buildings, stacked flats, and small apartment buildings

On either end of the attainable housing spectrum, you find structures that are similar to those just beyond the spectrum. For small scale, these include traditional missing middle types, which are house-scale and include housing products like duplexes and other structures that are similar in scale to the single-family homes to the left. Likewise, on the right, the large scale looks very similar to some structures that are outside the attainable housing spectrum. The difference being that those outside the spectrum are large four-story townhouses, whereas the those classified as large scale attainable housing types, are stacked flats, with two-or-three units in each column.

Locationally, these scales fit in different neighborhood contexts in Montgomery County. The small scale housing typologies, that are envisioned as house-scale, are ideal for the interior of single-family neighborhoods at heights of 2-2.5 stories. The medium to large scale housing typologies is envisioned to play an important role in transforming the county’s transit corridors, at 3-5 stories in height.

Using the recommended scales helps explain the roles and the different contexts for the various housing types within the attainable housing spectrum and allows for solutions that are not simply “one-size-fits-all.” With these three distinct scales of attainable housing, come three corresponding sets of recommendations that regulate different aspects of attainable housing, and provide a detailed strategy for how and where the recommendations will be implemented.

² Throughout this report the term multiplex is used to collectively refer to triplexes and quadplexes.

In public comments during the Planning Board's July 24 briefing, some expressed their confusion of the term "attainable housing." Some noted a [ULI report](#) that defined "attainable housing" as for-sale housing that is affordable to households with incomes between 80 and 120 percent of the area median income (AMI). Of note, Montgomery County's [Workforce Housing Program](#) generally serves households 70 percent to 120 percent of AMI already. Market conditions vary throughout the county, and as currently defined for this effort and for Thrive Montgomery 2050, attainable housing is geographically-sensitive market-rate housing that is generally more affordable due to its smaller size, making it difficult to have a single target income range for the entire county. Thus, attainable housing is less about housing for a particular income range, and more about integrating the types and sizes of housing that would be affordable to more households within the context of each individual neighborhood.

Using the term attainable housing also presents a departure from using the term "missing middle" housing, as was used in previous planning initiatives. Missing Middle housing is a term coined by Opticos Design to describe a range of house-scale multi-unit structures that are compatible in scale with detached single-family homes. Attainable housing offers more diverse types of housing beyond house-scale missing middle housing types. Attainable housing incorporates building types described as Missing Middle but also adds a focus on households of various incomes being able to obtain housing that is suitable for their needs.

The Planning Board recognizes that attainability is a new concept for both Montgomery Planning and the housing policy world. Attainability is used in recognition that our housing needs go beyond a sole focus on affordability but also include, type of housing, location of housing, size of housing, and tenure. **Attainability is the ability of households of various incomes and sizes to obtain housing that is suitable for their needs and affordable to them. Implicit in this idea of attainability is the idea that a range of housing options (type, size, tenure, cost) exists in the local market. Attainable housing includes diverse housing types beyond single-family detached units that tend to be smaller and more affordable than the typical new detached home in that neighborhood.**

Using the term "attainable housing" makes sense in this context of providing more types of housing beyond house-scale Missing Middle housing and diversifying residential building types while increasing housing choice. While the term "attainable housing" is new to both Montgomery Planning and the community, education and consistent term usage will support increased awareness and understanding of the term. Planning staff has already created a website with FAQ and an explainer in English and Spanish in the hopes of educating the community on the topic and will continually work to develop materials to educate the community on the definition and use of the term.

Goals

While the overarching purpose of the AHS initiative is to increase the diversity of housing options across more of Montgomery County, three main goals emerged for the initiative based on Montgomery Planning's previous work, a study of current planning best practices, and conversations with stakeholders:

- Increase opportunities to meet the county's diverse housing supply needs and obligations, as well as the county's economic development objectives.
- Unravel the exclusionary aspects of the county's single-family residential zones to diversify the county's communities by diversifying the county's housing stock.
- Create more opportunities for homeownership for more households in more parts of the county.

Increasing Equitable Access to Housing

At the root of the AHS initiative is an effort to make communities more equitable and more inclusive by countering the historically exclusionary aspects of zoning. Zoning determines what can be built where and consequently limits housing options in certain neighborhoods. Limiting housing options also limits who has access, especially economic access, to different neighborhoods, which has led to neighborhoods that are homogeneous racially, ethnically, and economically.

Discriminatory lending practices and restrictive covenants have also led to deep disparities in wealth and homeownership. Making homeownership more attainable – with more equitable, mixed-income neighborhoods – is one way that the county can work to reverse existing historical inequities.

Montgomery Planning recognizes and acknowledges the role that its plans and policies have played in creating and perpetuating racial inequity in Montgomery County. The Department has a long history of land use decisions that created exclusionary neighborhoods and formed barriers to resources and opportunities for people of color and other disadvantaged persons. Given how deeply entrenched exclusionary development patterns are in suburban counties like Montgomery County, countering these spatial patterns is not an easy task. Critical to this effort is reassessing the county's longstanding development pattern of exclusively single-family neighborhoods. Revisiting land use and zoning is also integral to implementing the county's 2019 Racial Equity and Social Justice Law and Montgomery Planning's [Equity in Planning](#) effort.

Improving Affordability of Housing

Housing has become less affordable in all parts of Montgomery County. In 2020, the average detached home sales price was \$775,000 – an increase of over 8 percent from the 2019 average. This was not a one-year outlier, as year-to-date in 2021 (January through May) the average detached home sales price has increased by approximately \$100,000 to over \$875,000.³

While the COVID-19 pandemic has highlighted the growing demand for housing in Montgomery County, the decline in housing affordability has been occurring for decades. In all zip codes in Montgomery

³ Source: MRIS

County, home prices have increased above the rate of inflation and outpaced income growth since the mid-1990s. After making a few assumptions,⁴ staff found that the typical house value in neighborhoods all across the county and the estimated incomes required to afford these homes has risen dramatically in the last 25 years. Neighborhoods that were once considered relatively affordable are now only affordable to households earning well above the median income.

Table 1 demonstrates the change in affordability from 1996 to 2019 for four county zip codes. Appendix G provides the same data for all county zip code. It shows what the value of the typical 1996 home in the zip code would have been in 2019 had home values simply increased at the rate of inflation. It then shows how much income a household in 2019 would have needed to earn in order to comfortably afford that 1996 typical home – both as a percent of county median income (CMI) and in dollars. The table also shows the approximate percent of county households in 2019 that earned that much income. The table then shows, for each of those zip codes, what the actual typical home value was in 2019 and the corresponding income levels needed to afford those typical homes and what percent of county households earned at least that amount of income. For example, in Silver Spring (20910) if house values had increased at the pace of inflation from 1996 to 2019, households earning 61 percent of the CMI could comfortably afford the typical home in the zip code. 71 percent of county households in 2019 would have earned enough income to afford that typical 20910 home. Instead, in 2019, households had to earn 107 percent of the CMI to afford the typical home in that neighborhood. Less than half – approximately 47 percent – of county households earned enough in 2019 to afford the typical home in the 20910 zip code.

	If home values had increased at the pace of inflation from 1996 to 2019				Actual home values in 2019			
	Typical Home Value	Affordable to Households Earning		Approx. % of County Households Earning This Income	Typical Home Value	Affordable to Households Earning		Approx. % of County Households Earning This Income
Silver Spring (20910)	\$359,871	61% of CMI	\$67,152	71%	\$630,354	107% of CMI	\$117,625	47%
N. Bethesda (20852)	\$414,069	70% of CMI	\$77,266	66%	\$647,064	109% of CMI	\$120,743	46%
Bethesda (20817)	\$665,267	112% of CMI	\$124,140	45%	\$1,011,842	171% of CMI	\$188,811	27%
Chevy Chase (20815)	\$747,078	126% of CMI	\$139,406	40%	\$1,243,894	210% of CMI	\$232,112	<20%*

* Data for incomes earned within the top quintile of earners (which began at \$218,291) cannot be interpolated.

Table 1. Changes in attainability between 1996 and 2019 for select zip codes. (Sources: Zillow, U.S. Census American Community Survey 1-year Estimates (2019), Montgomery Planning Research and Strategic Projects Division)

⁴ Assumptions: 4% interest rate, 5% down payment, 30-year mortgage, escrow/insurance is 20% of primary principal/interest payment, debt cannot exceed 35% of income, borrower has no additional debt

Housing Attainability in 2019 if Home Values Increased at the Rate of Inflation from 1996-2019

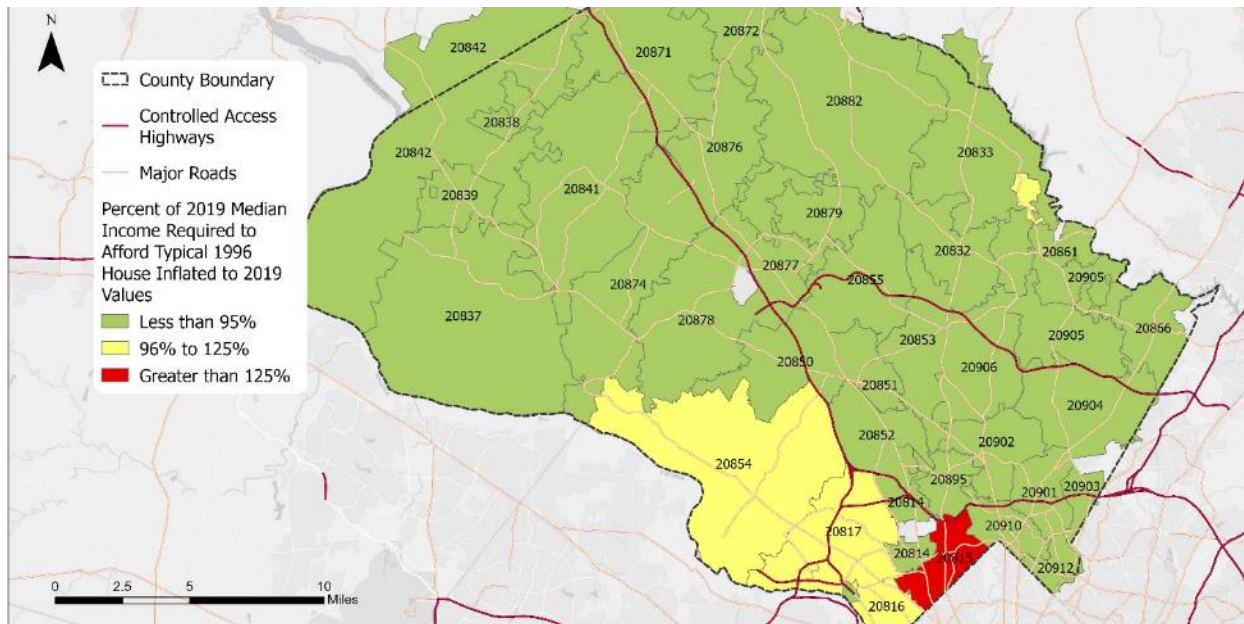


Figure 2. Ratio of countywide 2019 median income to income required to afford the typical valued typically valued house in each zip code if home values had increased from 1996 to 2019 at just the pace of inflation. Assumptions: 4% interest rate, 30 year fixed-rate mortgage, 5% down-payment, home buyer has no other debts, maximum mortgage to income ratio of 0.35, escrow 20% of principal payment. (Data source: Zillow, Montgomery Planning Research and Strategic Projects Division)

Actual Housing Attainability in 2019

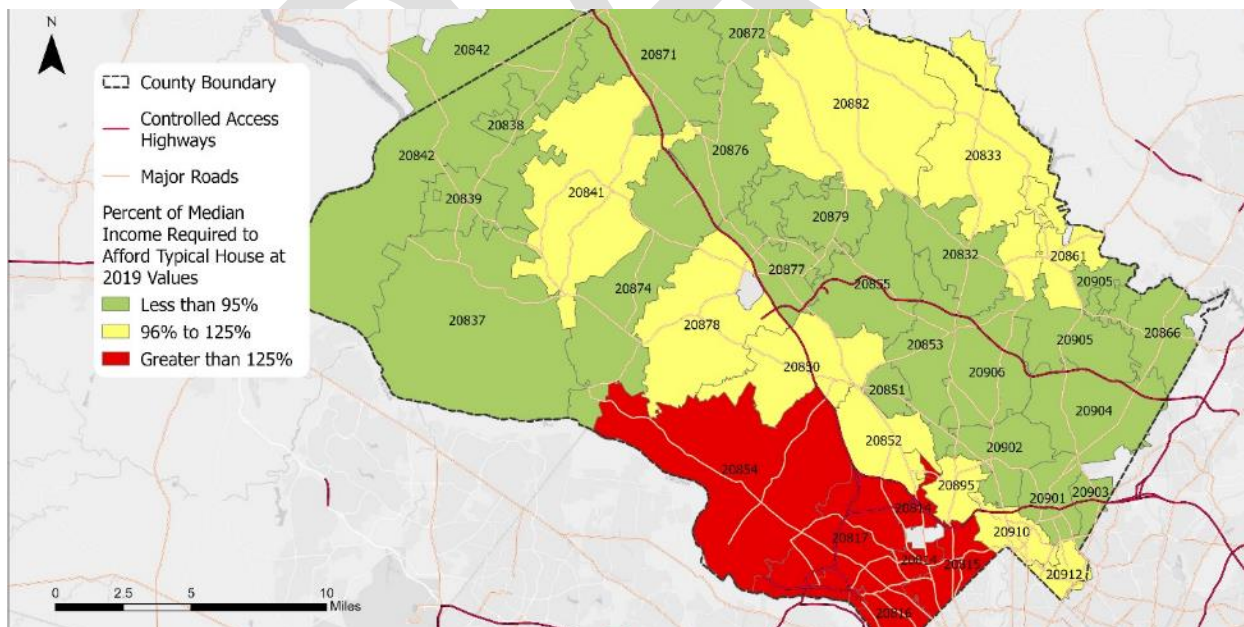


Figure 3. Ratio of countywide median income to income required to afford the typical valued home in each zip code in 2019. Assumptions: 4% interest rate, 30 year fixed-rate mortgage, 5% down-payment, home buyer has no other debts, maximum mortgage to income ratio of 0.35, escrow 20% of principal payment (Data source: Zillow, Montgomery Planning Research and Strategic Projects Division)

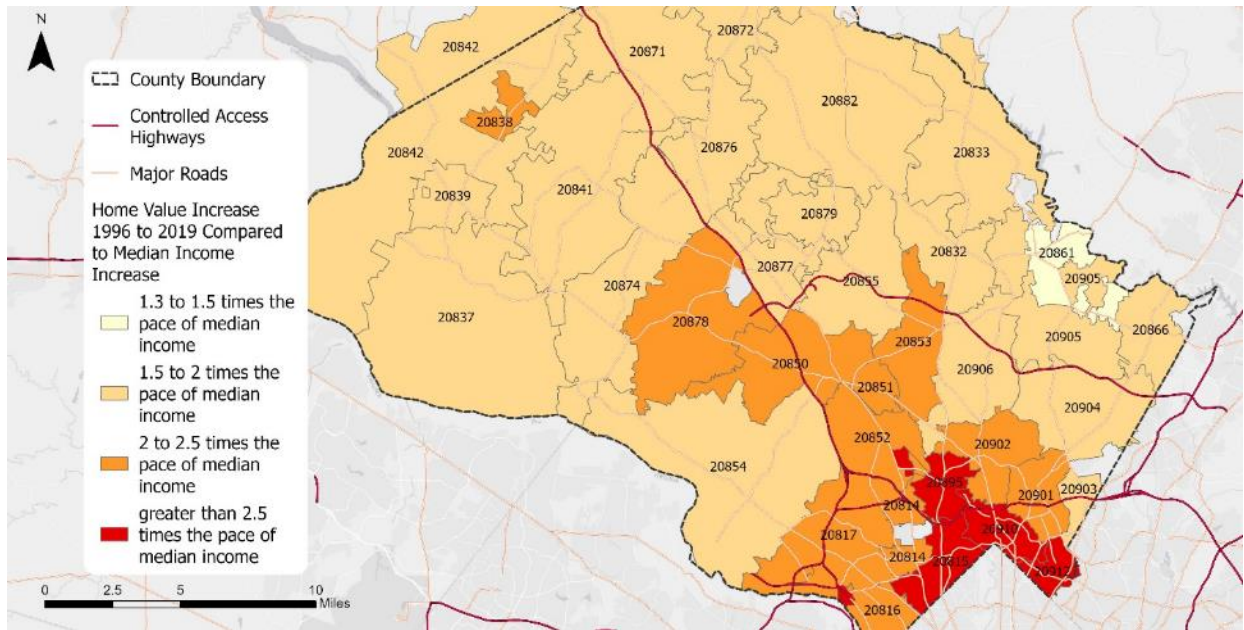


Figure 4. Ratio of the change from 1996 to 2019 of the typical house value in each zip code to the change in countywide median income for that same time period. (Data source: Zillow, Montgomery Planning Research and Strategic Projects Division)

These trends provide tremendous benefits to current landowners who increase their wealth as home values surge, while also represent a correspondingly growing barrier for potential future homeowners. Montgomery County's single-family neighborhoods are becoming less and less attainable to households without high incomes or the privilege of generational wealth.

Maintaining the status quo will only exacerbate these trends. If the trends are not addressed, the disparities between those who can and cannot afford to buy a home in the county will continue to grow. Given the historical inequities associated with homeownership, those disparities will continue to segregate Montgomery County communities along racial, ethnic, and economic lines. Therefore, these trends highlight the imperative nature of taking action on the Attainable Housing Strategies recommendations. Equally important is implementing the wide-ranging policies of Thrive Montgomery 2050 that address many other aspects of housing, including, increasing housing production generally, producing more income-restricted affordable housing, and pursuing housing preservation tactics.

Recommendations

Small Scale Attainable Housing

For small scale attainable housing, the Planning Board recommends zoning modifications that would allow duplexes, triplexes and quadplexes to be developed by-right under the standard method of development in zones that predominantly consist of single-family detached houses.

Geographic Applicability

The Planning Board recommends allowing the addition of small-scale attainable housing types (duplexes, triplexes, and quadplexes) within the zoning blocks of R-40, R-60, R-90, and R-200, as follows:

- duplexes in all R-60, R-90, and R-200 zoning blocks across the county;⁵
- triplexes in all R-40, R-60, and R-90 zoning blocks across the county; and
- quadplexes in the R-40, R-60, and R-90 zoning blocks within the Priority Housing District.

In all of the above cases, the Planning Board recommends allowing the given housing type by-right, with conformance to a Planning Board-approved pattern book that will provide clear and objective form-based standards.

Some people questioned whether to include the R-200 zone in the small scale AHS recommendations as it tends to include larger lots that generally fall outside the county's growth envelope. The Planning Board, however, decided to include R-200 but narrow the attainable housing type options available in the zone to duplexes only. Table 2 identifies the average lot sizes for each of the zones under consideration. Although the R-200 zone requires a minimum of 20,000 SF, the average lot size is 19,000 SF because the current optional methods of development allow lots as small as 6,000 SF for a detached home in the R-200 zone. In fact, 80% of R-200 lots today are below the standard minimum and nearly a third are below 10,000 SF.

Zone	Average Lot Size ⁶
R-40	3,900 SF
R-60	8,000 SF
R-90	12,000 SF
R-200	19,000 SF

Table 2. Average lot size by zone.

Figure 5 demonstrates the geographic distribution of lots within the four zones relative to the growth tiers identified in the Planning Board draft of Thrive Montgomery 2050.

⁵ Duplexes are an existing permitted use in the R-40 zone.

⁶ The State Department of Assessment and Taxation (SDAT) gives each parcel in Montgomery County a land use code based on its use classification. For this analysis, only parcels with a land use code "111" or single-family detached were included for the R-60, R-90, and R-200 zones. For R-40, land use code "116" was used, which is the land use code for Townhouse, Duplex, Quadruplex, and Other forms of Attached Single-Family Dwellings.

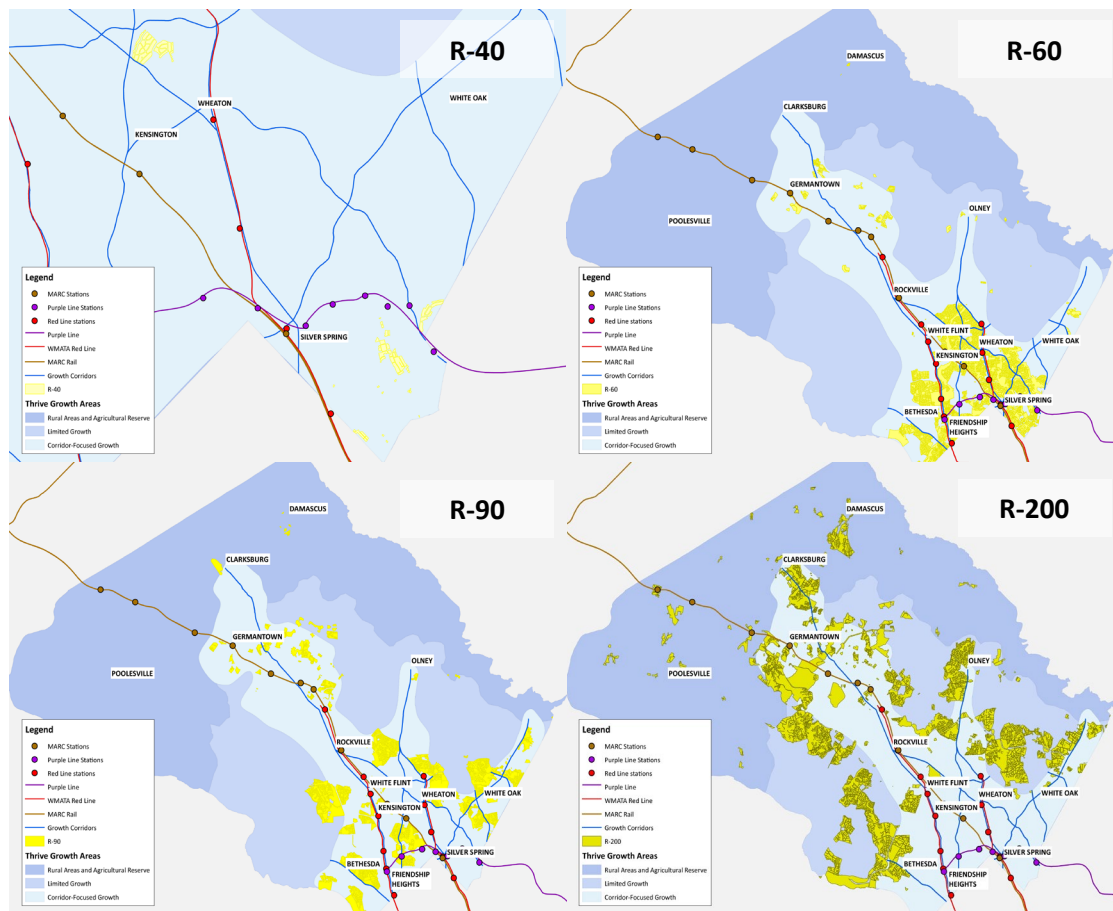


Figure 5. Maps showing the location of properties zoned R-40, R-60, R-90 and R-200 relative to the growth tiers identified in the Planning Board draft of Thrive Montgomery 2050.

Priority Housing District

The Planning Board recommends establishing the Priority Housing District, as the part of the county in which quadplexes would be allowed and parking requirements would be reduced. The Board recommends defining the Priority Housing District using a straight-line buffer of 1-mile from Red line, Purple Line, and MARC rail stations,⁷ plus 500 feet from a BRT Corridor,⁸ River Road (inside the Beltway) and Connecticut Avenue.

Building Types and Use Standards

Every built use is defined by two components within the zoning ordinance: the actual use itself, which is discussed through the use standards under Section 3 of the zoning ordinance; and the building type the use is within, which is detailed under Sections 4.1.3 to 4.1.6.

⁷ This station buffer is consistent with the reduced parking requirements currently allowed for Accessory Dwelling Units.

⁸ Georgia Avenue, MD 355, New Hampshire Avenue, Old Georgetown Road (North Bethesda Transitway), Randolph Road, University Boulevard, US 29, and Veirs Mill Road.

Building Types

Building types describe the physical form of the building within which a use can exist. The zoning code identifies allowed building types based on the underlying zone. Sections 4.1.3 and 4.1.4 describe the building types allowed within various Agricultural, Rural Residential, and Residential zones. Sections 4.1.5 and 4.1.6 discuss the building types allowed by Commercial/Residential, Employment, and Industrial zones. The Planning Board recommends adding a new building type in Sections 4.1.3 and 4.1.4 for three-unit (triplex) and four-unit (quadplex) living called a “multiplex” and making follow-up modifications to the definitions for the townhouse and apartment building types to avoid any overlap with the multiplex building type.

Section 4.1.3, Building Types in the Agricultural, Rural Residential, and Residential Zones, currently allows and defines the following building types:

- **Detached House or a Building for a Cultural Institution, Religious Assembly, Public Use, or Conditional Use allowed in the zone:** A detached house is a building containing one dwelling unit that may contain ancillary nonresidential uses, such as a Home Occupation or Family Day Care. A Building for a Cultural Institution, Religious Assembly, Public Use, or a Conditional Use allowed in the zone is a building that accommodates only a Cultural Institution, Religious Assembly, Public Use, or an approved conditional use allowed in the applicable zone under Article 59-3, Uses and Use Standards. This building type includes buildings used for agriculture associated with Farming.
- **Duplex:** A duplex is a building containing 2 principal dwelling units that may contain ancillary nonresidential uses, such as a Home Occupation or Family Day Care.
- **Townhouse:** A townhouse is a building containing 3 or more dwelling units where each dwelling unit is separated vertically by a party wall. A townhouse may contain ancillary nonresidential uses, such as a Home Occupation or Family Day Care.
- **Apartment Building:** An apartment building is a building containing 3 or more dwelling units vertically and horizontally arranged. An apartment may contain up to 10% of the gross floor area as Retail/Service Establishment uses, otherwise it is a multi-use building.

The Planning Board recommends that a new type, called a **multiplex**, be established as follows:

- **Multiplex:** A multiplex is a building containing 3 or 4 principal dwelling units where each dwelling unit has discrete access and is fully separate from the other units. Multiplexes may have the units arranged horizontally, vertically, or a combination of the two. A multiplex may contain ancillary nonresidential uses, such as a Home Occupation or Family Day Care. A three-unit multiplex is also known as a triplex, and a four-unit multiplex is also known as a quadplex. A building is not a multiplex if it otherwise meets the definition of a Townhouse.

The Planning Board finds it more straightforward to create one new building type to cover both the triplex and quadplex development rather than to create two unique building types. Other portions of the zoning ordinance, such as the use standards, can distinguish where triplexes and quadplexes are each appropriate. The definition of multiplex specifies that buildings that otherwise meet the definition of a townhouse (4 or more units linearly arranged) is a townhouse and not a multiplex. The multiplex building type would also be utilized in the recommended Attainable Housing Optional Method (see the [Medium Scale Attainable Housing recommendations section](#)), and in updates to the existing MPDU and Cluster optional methods (see the [Additional Recommendations section](#)). In addition to creating the new

multiplex building type, the Board recommends amendments to the definitions of the townhouse and apartment building types:

- **Townhouse:** A townhouse is a building containing ~~3~~ 4 or more dwelling units where each dwelling unit is separated vertically by a party wall and the dwellings are arranged linearly. A townhouse may contain ancillary nonresidential uses, such as a Home Occupation or Family Day Care.
- **Apartment Building:** An apartment building is a building containing ~~4~~ 5 or more dwelling units vertically and horizontally arranged. An apartment may contain up to 10% of the gross floor area as Retail/Service Establishment uses, otherwise it is a multi-use building. An apartment building with 19 or fewer dwellings is also known as a small apartment building.

The amended definition for townhouse is to provide clarity that a three-unit attached structure in all situations would be a multiplex building, regardless of how the units are arranged. These distinctions become important because this study recommends multiplex buildings by-right under the standard method of development in certain residential zones, but not townhouses.

The change in the apartment building type definition is to clarify that buildings with fewer than five units would be considered a multiplex. Also defining apartment buildings with 19 or fewer units as a small apartment building is important because small apartments are allowed as a building type within the new Attainable Housing optional method in the Planning Board's medium scale attainable housing recommendations.

An updated table, as provided in Section 4.1.4, Building Types Allowed by Zone in the Agricultural, Rural Residential, and Residential Zones, can be found in the appropriate section of [Appendix H](#).

Use Standards – Defined

The other component within the zoning ordinance that contributes to defining a use is the applicable set of use standards. The specific use standards that would be amended for the small scale attainable housing are under Section 3.3.1 Household Living. The existing use standards under Household Living include:

- **Single-Unit Living.** Single-Unit Living means one dwelling unit contained in a detached house building type.
- **Two-Unit Living.** Two-Unit Living means 2 dwelling units contained in a duplex building type.
- **Townhouse Living.** Townhouse Living means 3 or more dwelling units in a townhouse building type.
- **Multi-Unit Living.** Multi-Unit Living means dwelling units in an apartment or multi use building type. Multi-Unit Living includes ancillary offices to manage, service, and maintain the development.

The Planning Board recommends modifying the definitions under Section 3.3.1, Household Living for Townhouse living to 4 or more dwelling units in a townhouse building type and adding the multiplex building type to the definition of multi-unit living:

- **Townhouse Living.** Townhouse Living means ~~3~~ 4 or more dwelling units in a townhouse building type.

- **Multi-Unit Living.** Multi-Unit Living means dwelling units in a multiplex, apartment or multi use building type. Multi-Unit Living includes ancillary offices to manage, service, and maintain the development.

The modification to the definition of Townhouse Living use is straight forward and consistent with the building type change making a townhouse four or more units rather than three or more. The modification to the Multi-Unit Living use is to clarify that a multiplex would be included under the definition of Multi-Unit Living. The Planning Board recommends including multiplexes as multi-unit living because from a technical standpoint there is no clear distinction in **use** as it is a residential dwelling unit that is attached to other dwelling units in a form that does not meet the townhouse definition. This is true regardless of whether there are three or 300 units in a building. What makes the multiplex unique is the scale and form of the building type itself which is defined separately.

Use Standards – Limited Uses

Within the use standards Section 3.3.1 Household Living, is a set of specific standards that apply if the use is identified in the use table (Section 3.1.6) as either a limited use or a conditional use. To implement duplexes and multiplexes under standard method development in the R-40, R-60, R-90 and R-200 zones, as applicable, changes are recommended to the limited use standards for the two-unit living and the multi-unit living limited use standards.

Two-Unit Living

The Planning Board recommends adding new limited use standards for two-unit living to permit it by-right in the R-60, R-90 and R-200 zones with conformance to a pattern book. The existing limited use standards for Two-Unit Living within these zones limited the use to only the optional methods of development. The only requirement of the updated limited use standards is that two-unit living be permitted by-right, with new construction requiring conformance to a Planning Board-approved pattern book. The modified text to implement this change in the zoning code can be found in Section 3.3.1.C in Appendix H.

Multi-Unit Living

The Planning Board recommends adding new limited use standards for Multi-Unit Living to allow it by-right anywhere in the R-90, R-60 and R-40 zones, if built as a multiplex building type with three units, or within the Priority Housing District with up to four units and conforming to the Planning Board approved pattern book. Outside of the R-90, R-60 and R-40 zones, the new standards will limit the application of multi-unit living generally to the multiplex building type under an optional method of development. As a result, Multi-Unit Living would be allowed as a limited use across most residential zones. The recommended zoning code updates to implement these changes can be found in Section 3.3.1.E in Appendix H.

Rules for All Zones

The Planning Board recommends modifying the rules for the Agricultural, Rural Residential, and Residential Detached zones to clarify that only one principal structure for a detached house, duplex, or multiplex building may be built per lot. Under Section 4.1, Rules for All Zones, is subsection 4.1.2, Compliance Required, which generally sets the overarching zoning rules that require land alterations to follow the zoning and that all new buildings must be located on a recorded lot unless exempt. Subsection C limits the lots in Agricultural, Rural Residential and Residential Detached zoned land to one

detached house. The Board is recommending expanding this to include duplex or multiplex buildings consistent with the changes recommended through the AHS initiative. The recommended changes to this section of the code can be found in Appendix H.

Changes to Elements of the Standards Tables

While each unique zone's standards table details are specific to that zone, there are many elements that are being recommended for change that apply to multiple or all zones. The following sections will highlight the major changes to the format of the standards tables for the standard method of development within the residential zones, starting from the top of the table and working to the bottom.

Building Types

The Planning Board recommends modifying the building types in the standard method of development standards tables to include columns for duplex and multiplex buildings in the R-90, R-60 and R-40 zones, and for duplex in the R-200 zone. The building types that are being added or modified to the standards tables are discussed in more detail below.

Duplex: In certain zones, particularly in the R-40 zone (and in the Townhouse, Multi-Unit, and CR zones), the duplex is currently described as two unique building types; Duplex – Side, or a Duplex – Over. However, in other residential zones the duplex does not have those qualifiers. The intent appears to imply that an over, or 'stacked' duplex would be situated on a lot twice the size of the horizontal duplex, ensuring that stacking was not a way to increase density. Due to changes the Planning Board is recommending to the development standards table in how minimum lot and tract sizes are measured, it recommends that there only be one set of duplex standards, without side and over qualifiers, in any zone where duplex is allowed.

Multiplex: In any zone where the multiplex is proposed, the multiplex building would be added to the corresponding development standards table. Regardless of whether the multiplex is a triplex or a quadplex, the development standards across all multiplex buildings would be the same.

Figure 6 demonstrates how the standard method development standards tables would be updated for the R-90 and R-60 zones to include new columns for duplex and multiplex building types. In the R-200 zone, the duplex column would be added, but not the multiplex column.

	Detached House or a Building for a Cultural Institution, Religious Assembly, Public Use, or a Conditional Use allowed in the zone	<u>Duplex</u>	<u>Multiplex</u>
1. Lot and Density Site and Lot			
<u>Site</u>			
<u>Site Area (Min)</u>			
<u>Site Area (Max)</u>			
<u>Site width at front building line</u>			
Lot (min)			
Lot area			
Lot width at front building line			
Lot width at front lot line			
Frontage on street or open space			
Density			
Density (Units/Acre)			
Coverage (max)			
Lot			
<u>Site</u>			
Specification for <u>Site and Lot</u> and Density			

See Appendix H for specific standards for each zone

Figure 6. Recommended changes to certain standard method standards tables.

Site and Lot

The development standards tables in the zoning ordinance are broken down into multiple sub-sections grouped together by similar types of standards. Within the R-40, R-60, R-90 and R-200 zones, the first section is currently called '1. Lot and Density' but the Planning Board recommends that it be renamed '1. Site and Lot.' Within the Site and Lot section, certain development standards would be added, and others removed. In addition to renaming the first section, the Board also recommends appropriate standards for the duplex and multiplex building types, which can be found in the zoning modifications in Appendix H. The Planning Board's recommendations pertaining to the content and structure of the development standards tables for the R-40, R-60, R-90 and R-200 zones are shown in Figure 6.

Site Standards

As shown in Figure 6, the Planning Board recommends adding a new subsection for site standards that would apply to the duplex and multiplex building types. The site standards include setting minimum and maximum site areas for the duplex and multiplex buildings, as well as site width at front site line standards. These new site standards are necessary to enable duplex and multiplex buildings to be built either as condo/co-op style with one commonly owned structure on one lot, or as individual ownership with subdivided lots for each unit. Site area minimums for the duplex and multiplex building types would be set at the existing minimum lot area for a detached dwelling, and the site area maximums would be set at just slightly more than two times the minimum lot area for a detached dwelling. The intent of these standards is to minimize lot consolidation within the residential neighborhoods. Setting the site area maximum at a value slightly more than two-times the minimum would account for inconsistencies in existing lot areas within neighborhoods. The provision for site width at front building line mirrors an

existing compatibility provision for lot width at front lot line that currently applies to single detached lots that measures the width of the lot where the dwelling is placed. This helps regulate the spacing between buildings and is important in ensuring the new duplex and multiplex buildings remain house-scale.

Lot Standards

The Planning Board recommends adding lot standards for the duplex and multiplex building types, expressing lot size minimums as a 'per unit average.' Otherwise, there are no changes recommended to the types of standards covered under lot. The 'per unit average' recommendation is another that allows these sites to either be subdivided for individual ownership or built as a condo/co-op/rental on a single property. This new wording would also allow for subdivisions that potentially create unequal lot sizes.

For example, for a duplex in the R-200 zone, the Planning Board recommends the standard method minimum average lot area be set at 10,000 SF per unit. This would require a site of at least 20,000 SF to accommodate the two units. That 20,000 SF property could be one lot with a duplex building, or two separate lots that add up to 20,000 SF. Further, those two separate lots could each be 10,000 SF, or one could be larger than the other. The variation in lot size is to help with subdivision on irregularly shaped properties, or in instances where one dwelling is planned to be larger than the other. This would have no impact on the side setbacks, which are discussed later in this report.

Density Standards

The Planning Board recommends removing density as a development standard within the R-40, R-60, R-90 and R-200 zones. The density rows only served as a quick way to gauge how many units per acre were allowed, based on the minimum lot size for the detached dwelling. Allowing duplexes and multiplexes also allows an increase in the actual density on a units/acre measure, making the metric less useful. Maintaining development standards such as building height, setbacks and lot coverage is the more practical way to regulate development within the different zones, as these standards are what ultimately regulate the built form of the neighborhoods.

Specifications for Site and Lot

The Planning Board recommends adding a new specification for site and lot that provides flexibility for existing undersized lots to still pursue house-scale Attainable Housing. At the end of most sections within the standards tables is a 'Specifications' section, which includes footnotes on how to interpret the table or special standards that may be applied. There are some existing specifications that will remain unchanged; however, two new specification are recommended to address the creation of duplex and multiplex buildings on existing substandard sized lots or parcels, and to clarify that expressing lot area as a 'per unit average' allows individual lots to be smaller than the average.

The following new specifications are recommended:

- a. Site area minimum and lot area minimums averages for duplex and multiplex building types may be smaller than required if the project is on an existing residential lot eligible for a building permit under Section 7.7.1.D.1. The site area minimum becomes the existing lot or parcel area, and the minimum lot area average for the duplex is set at half the site area and for the multiplex is set at one quarter the site area.

- b. Lot area requirements for duplex and multiplex building types is expressed as an average lot area. Individual lots may be smaller so long as the lot is still adequate to meet all other development standards.

The first specification would allow existing substandard sized lots within the R-40, R-60, R-90 and R-200 zones to still accommodate and potentially subdivide for house-scale attainable housing, if the substandard sized lot is otherwise eligible for a detached house under today's standards. The minimum site area for duplex and multiplex buildings is set at the current minimum lot area for a detached house, so the first part of the specification provides the ability to start with a substandard site area. The second part of the specification deals with the lot area. As recommended, the duplex lot area average would be set at half the site area and the multiplex would be set at one quarter the site area. Setting the minimum multiplex lot area average at one quarter the site area is intended to still accommodate up to a quadplex if otherwise allowed.

Pattern Book

The Planning Board recommends requiring that certain new house-scale attainable housing created by-right in the R-40, R-60, R-90 and R-200 zones comply with the elements of a pattern book. The pattern book will be a complementary document to the development standards in the zoning ordinance. The Planning Board recommends using a pattern book as part of the building permit process as a tool to ensure clear and objective form-based standards. The pattern book would apply to new construction, which follows the same definition used for the applicability of residential infill compatibility in Section 4.4.1.B of the zoning code. This is defined as a new building, the demolition and reconstruction of more than 50 percent of the floor area of an existing building, or the addition of more than 50 percent of the floor area to an existing building. The pattern book would apply to new construction of standard method duplexes in the R-200, R-90 and R-60 zones and new construction of standard method multiplexes in the R-90, R-60 and R-40 zones. Adaptive reuse projects will not be required to conform to the standards in the pattern book, given the unique site conditions and building constraints typically involved with conversions and additions to existing structures. Also, duplexes are already a permitted use within the R-40 zone therefore the Board does not recommend applying the pattern book to duplexes there.

A primary goal of the pattern book is to facilitate the construction of duplexes, triplexes, and quadplexes that maintain a house-scale size and form. The pattern book will graphically illustrate the development standards for the underlying residential zones and provide multiple options for building placement and orientation, massing, frontage design, and parking layout based on a variety of lot configurations and sizes (narrow, deep, large etc.).

The form-based standards within the pattern book will ensure that duplexes, triplexes, and quadplexes contribute positively to the public realm and create safe and attractive streetscapes that are not overwhelmed by parking or that unintentionally look like small apartment buildings. The pattern book will also ensure elements like porches, stoops, and lead walks are included to create neighborly homes that encourage social interaction and do not lead to isolating community dynamics. Finally, the pattern book will help get rid of arbitrary terms such as "character" and "compatibility" from the evaluation criteria for these duplex and multiplex building types and will rather focus on specific standards that achieve these more ambiguous goals.

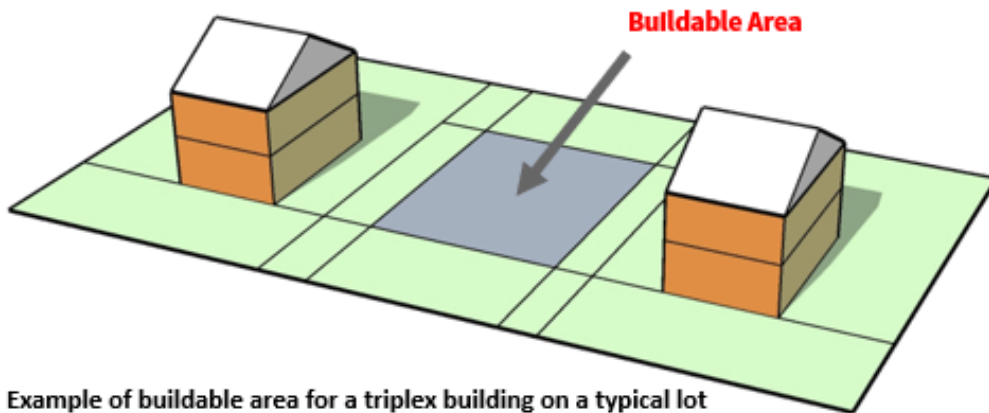
The pattern book will not dictate or restrict architectural styles, design choices, building materials, or colors. These creative choices will be the purview of the architect and/or homeowner. The pattern book

will provide clear regulatory guidance with some conceptual options but will not create cumbersome mandates related to design. Thus, while allowing ample creative freedom the pattern book will provide clear guidance to the architects and/or homeowners to construct house scale duplex and multiplex building types regardless of the size of the lot.

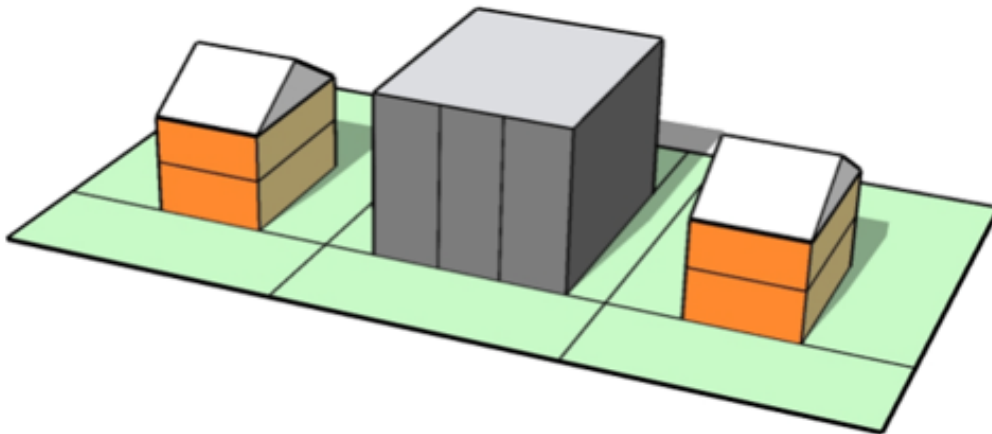
Presented below is an illustration showing the development of a triplex on a typical lot found in many of the county's neighborhoods. The first image shows the regulated buildable area, and the second image shows the "box" that can be built on the lot while adhering to typical regulatory requirements such as setbacks, lot coverage, and height. As demonstrated, the building envelop can create vastly different and potentially suboptimal results without form-based-standards. The third image shows how the addition of some minimal form-based guidance can create vastly superior outcomes.

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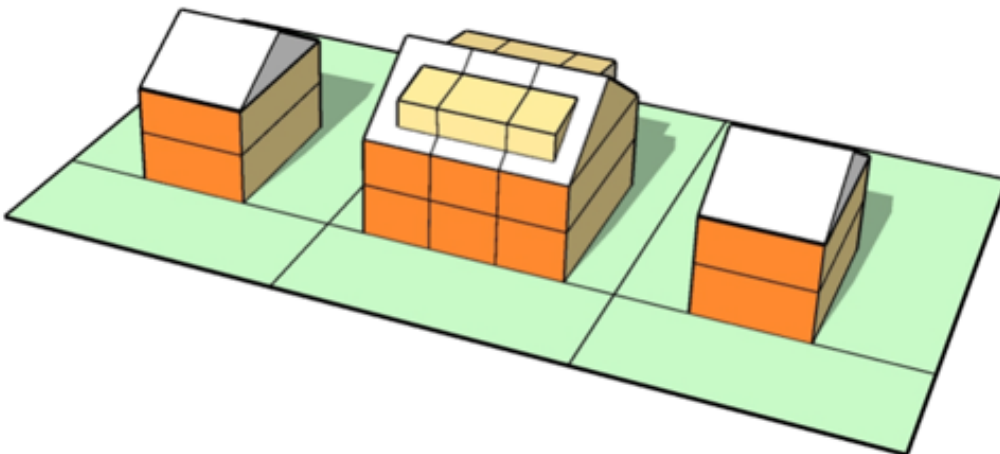
Typical Lot



Example of buildable area for a triplex building on a typical lot



Example of triplex's massing without pattern book and form-based standards



Example of triplex's massing's articulation based on the pattern book to maintain a "house-scale" in various lot configuration.

Figure 7. Images showing the value of form-based guidance provided by a pattern book for the development of triplexes on a typical lot.

The Planning Board believes that the development of house-scale attainable housing depends on five form-based standards, namely:

1. **Building Placement** – Placement of the main building and other structures on the lot, within the buildable area permitted by the zoning, setback, and/or development standards.
2. **Massing** – The size, scale, and shape of buildings on a lot, within the “box” created by the zoning standards and height restrictions. Guidance ensures buildings maintain a house-like scale and avoid large blank walls and monotonous design.
3. **Frontage Design** – Pertains to the space between the face of the building and the street. Frontage design standards ensure landscaped front yards with pedestrian friendly entrances and help create safe and attractive streetscapes for walking and social interaction.
4. **On-Site Parking Layout** – Options for sustainable parking designs that are environmentally friendly and ensure that asphalt, car ports, and garages don’t dominate the site.
5. **Neighorly House Details** – Guidance on the design and placement of elements such as porches, stoops, bay windows, balconies, sunrooms, decks etc. that provide “eyes on the street” and encourage interaction among neighbors while maintaining a residential aesthetic.

The pattern book will provide clear and objective form-based standards for duplexes, triplexes and quadplexes with respect to each of the categories listed above. The pattern book will focus on massing and urban design standards for various building types in different horizontal and vertical configurations. Additionally, the pattern book will include multiple plan layouts for architects, homeowners, and homebuilders.

The pattern book will also provide an overview of the regulatory process, which will include details about development applications, permitting steps, and links to relevant forms. Additional guidance and information for other development related issues such as environmental considerations, safety, and off-site parking may be included in an appendix.

During the development of the Board-approved pattern book, Montgomery Planning and the Department of Permitting Services will partner to create a review process to ensure applicable development projects conform.

Medium Scale Attainable Housing

For medium scale attainable housing, the Planning Board recommends zoning modifications that would create a new optional method of development that would facilitate the construction of small apartment buildings and other attainable housing types along major transportation corridors.

Attainable Housing Optional Method

The Planning Board recommends creating a new optional method of development, called the Attainable Housing optional method (AHOM), to provide opportunities for medium scale attainable housing on certain properties in the R-90 and R-60 zones. In addition to allowing duplexes, triplexes, quadplexes and small cottage homes, the AHOM would be used to construct stacked flats, small townhouses and small apartment buildings along certain corridors.

Optional method of development is not a concept new to the AHS initiative. There are two existing types of optional methods: MPDU and Cluster development. Under the optional methods, development

applications are reviewed under more flexible development standards that often include increased density, reduced setbacks, and more building types in exchange for site plan review by the Planning Board and for providing a pre-defined public benefit. In the case of the MPDU optional method, providing additional moderately priced dwelling units (MPDUs) beyond the code required minimum allows for a sliding scale of increased density, and the ability to provide duplexes and townhomes in zones that otherwise only allow detached houses. Under the Cluster optional method, an applicant will cluster development to minimize environmental disturbance and provide more open space in exchange for smaller lots and new housing types.

The new optional method of development would require a minimum site size and work much the same way as the existing MPDU and Cluster optional methods. The Attainable Housing optional method would require projects to include units that are size limited⁹ as a means of ensuring the development is more price attainable than it may otherwise have been. Lot sizes, setbacks, coverage and building heights would be similar to those allowed by the MPDU optional method today.

To incentivize use of the AHOM, the eligible base density would be set higher than the underlying zone and further density bonus would be offered for projects that provide an average unit size smaller than the established average unit size (max) standard. Setting an average unit size maximum is the Planning Board's recommended way of achieving the goal of producing attainable housing. To maximize flexibility allowing some units large enough for families, the average unit size maximum would be calculated across all unit types provided in a project.

Definition and Applicability

The Planning Board recommends that the definition and description of the AHOM, which would be located under Section 4.4.2.C of the zoning ordinance, read as follows:

C. Optional Method Attainable Housing Development

The Attainable Housing method of development provides an optional method of development that supports the creation of a variety of dwelling unit types. The focus is to limit the size of new dwelling units to promote sizes and prices that are lower than what existing new developments generally provide. Optional Method Attainable Housing Development allows flexibility in lot layout and variety in residential building types. Density is increased above the underlying zoning in a sliding scale that incentivizes the creation of price attainable housing options. The Attainable Housing Optional Method of Development also provides a transition from more intensive land uses or density to less dense areas near existing and proposed transit infrastructure. An applicant's use of this method of development, and site plan approval for portions of such development, are subject to approval by the Planning Board.

The Planning Board recommends allowing the AHOM in the R-90 and R-60 zones on properties:

- abutting certain major transportation corridors,
- recommended for the AHOM in a master plan, or
- recommended for a residential floating zone in a master plan.

The Planning Board is not recommending allowing the AHOM in the R-200 zone to be consistent with the zones where the Priority Housing District is and is not allowed. The R-40 zone was initially

⁹ Size limited by gross floor area, not by number of bedrooms.

considered for AHOM eligibility, however there are very few pockets of R-40 zoning in the county and only about 2 blocks in length where the zoning aligns with the location requirements, making the addition of standards not practical.

The AHOM is intended to allow for higher densities and more diverse building types than is typically allowed in the county's residential zones. Also, the Planning Board draft of *Thrive Montgomery 2050* includes concepts such as focusing new housing growth along the county's major transportation corridors. For these reasons, the Board believes the AHOM should apply to sites within the R-90 and R-60 zones that abut a corridor planned for Bus Rapid Transit (BRT) through the 2013 *Countywide Transit Corridors Functional Master Plan*:

- Georgia Avenue
- MD 355
- New Hampshire Avenue
- Old Georgetown Road (North Bethesda Transitway)
- Randolph Road
- University Boulevard
- US 29
- Veirs Mill Road

Additionally, the Board recommends applying the AHOM along Connecticut Avenue and the portion of River Road inside the Beltway. A qualifying site may be made up of multiple properties including ones that previously did not abut a qualifying right-of-way but do after property consolidation.

Planning staff created an [interactive web map](#) of AHOM options to illustrate the chosen corridors and the parcels that currently abut an applicable corridor. These parcels should not be seen as an exclusive geography of where the AHOM may be eligible, since an eligible development site may be made up of multiple contiguous parcels, some of which may not currently have direct adjacency to the right-of-ways. Additionally, properties may be identified as eligible for the AHOM through a master plan.

Standards of Review

The standards of review recommended by the Planning Board for the AHOM are nearly identical to the other optional methods, and are shown below:

1. Development Approval Procedure

a. Site Plan

Approval of a site plan application under Section 7.3.4 is required.

2. Attainable Housing Development Across Different Zones

Optional method Attainable Housing Development may occur across different zones under the following limitations:

- a. The differently zoned areas must be contiguous;**
- b. Uses and building types are governed by the zone;**
- c. The site requirements in the optional method tables apply; density and open space must be calculated as if each area were developed individually; and**
- d. The allowed number of units and required common open space may be located in any zone.**

3. Usable Area

Density is calculated on usable area within the tract.

4. Dedicated Land

Land dedicated to public use for a school or park site may be included in the calculation of the density of development if development of the remaining land satisfies Section 4.4.2.B and the optional method Missing Middle Development standards.

Elements of the Standards Tables

The Planning Board recommends basing the development standards tables for the Attainable Housing optional method off similar standards currently applicable to the MPDU optional method, with a few exceptions explained below.

Building Types

The MPDU optional method allows detached houses, duplexes and townhouses. The Planning Board recommends allowing these same building types under the AHOM along with multiplexes and apartments. The Board believes there is a place in AHOM developments for small apartment buildings with 19 or fewer units. While small apartment buildings are larger than house-scale, they still are not close to the massing seen in modern apartments and are appropriate for locating adjacent to our major corridors where the AHOM is allowed. This is also why the AHOM is considered a medium scale type of attainable housing and why the optional method is limited to only along the major corridors.

Site Standards

The first section of the AHOM development standards table pertains to site standards. The Planning Board recommends that the section includes the same standards categories as the MPDU optional method (site dimensions, maximum density, minimum open space and maximum site coverage).

Site Dimensions

Unlike in standard method by-right developments for small-scale Attainable Housing where site consolidation is limited, the AHOM is intended to encourage assembly of land along the identified corridors. The minimum usable area is recommended to be set at two times the minimum area for a detached house within the underlying zone to ensure enough land to effectively utilize the density and building types available under the AHOM.

Maximum Density

Density as a development standard is recommended to be kept as part of the AHOM. For the standard method of development, the Board agreed to remove density from the standards table in favor of maintaining other development standards, however the Board recommends using a density measure for the optional method standards to remain consistent with how the other optional methods are treated. The shortcomings of not being able to effectively measure density within a community that has scattered property owners converting single detached properties into duplex or multiplex buildings do not exist in a development application with multiple structures and site plan review.

The recommended base densities for the AHOM vary based on the underlying zone:

- R-90 zone: 10 units/acre
- R-60 zone: 13 units/acre

The origin of these numbers is the existing density (rounded up to a whole number) that is allowed in the standard method of development for the Townhouse Low Density (TLD) and Townhouse Medium

Density (TMD) zones respectively. The Townhouse Zones were used as reference for a couple reasons. First, the Townhouse Zones already are the closest existing zones that have allowed building types and lot sizes that capture the vision of attainable housing (although their presence in the county is limited and there are no provisions to ensure the resulting units are actually attainable). Second, consultation staff had with Opticos Design and other literature review suggested targeting development densities in the low teens of units/acre as the ideal target measure for the desired attainable housing. Last, the Board considered the density achieved by existing townhouse developments in or near the corridors eligible for the AHOM to understand what is being achieved today using townhouse zones or mixed-use zones. This may look like a large increase in density from what is available today in these residential zones, however being an optional method of development, there is a policy benefit tied to this density – smaller more attainable housing units, which will be discussed more in the *Dwelling Unit Size* section below.

The AHS recommendations include a density bonus provision, similar in concept to the density bonuses available for the MPDU optional method of development. The Board recommends an increase in density when a project's average dwelling unit size is lower than the maximum allowed average unit size. The Board recommends a straight line of a 2 percent density increase for each 1 percent decrease in average unit size. This bonus quickly increases the underlying density to over 14 units per acre in the R-90 zone and over 20 units per acre in the R-60 zone with just a 20 percent decrease in average unit size.

Open Space

The type of open space recommended for certain AHOM projects is common open space, which is consistent with the type of open space in other residential-only optional methods of development. The provision for open space recommended by the Board is that projects with 10 or more dwelling units provide at least 10 percent common open space, however projects with less than 10 dwelling units do not need to provide open space. Most smaller scale residential projects do not require open space under the current zoning code because they typically do not require site plan review. As defined, any project utilizing the AHOM would require a site plan, so a provision to exclude the projects with less than 10 dwellings from open space requirements is intended to reduce the burden on the smallest of projects that may only cover a small area.

Site Coverage

Site coverage maximums are recommended, with allowed coverage maximums varying by building type with less coverage for detached houses and duplex buildings and more coverage in the multiplex, townhouse and apartment building types. The coverage amounts are also varied based on the underlying zone, with the R-90 zone having slightly less coverage maximums than the R-60 zone. The recommended coverage amounts roughly follow the coverage limits under the MPDU Optional Method that exists today.

Dwelling Unit Standards

The Planning Board recommends adding a new development standard for Dwelling Units that would only be applicable to AHOM development. This section of the standards table would capture the average unit size standard. The intent behind creating a standard for Average Unit Size is that limiting unit size is one of the few mechanisms the zoning code can employ that would ensure attainable housing types are more affordable than typical new single-family homes. One of the main goals of the AHS initiative is to make more housing more attainable to more people. The market is currently doing a

fairly good job at creating townhouses and apartments for high income earners usually by locating units in transit and amenity rich areas or by creating very large unit sizes. The Board hopes creating the AHOM enables more units that are of a smaller size and are more accessible to moderate income earners to be built along the corridors that connect these transit and amenity rich areas. The Board is recommending 1,500 SF as the maximum average unit size for any project that utilizes the AHOM.

There are two recommended Specifications for Dwelling Unit Size. The first is a straightforward clarification on how to read the Average Unit Size Standard:

- a. Average dwelling unit size is measured as the average unit size across all dwellings within the optional method development. Individual units may be larger or smaller.

The Board considered establishing a separate unit size maximum for each type of dwelling, but that proved to be overly complicated and increased the risk that the standards chosen today may become outdated quickly. Ultimately the Board recommends the average unit size be calculated across all units within an AHOM project regardless of the type of unit. Measuring the unit size as an average is intended to allow for the construction of some larger multi-bedroom products and townhouses that can be balanced with smaller dwelling units.

The second recommended specification only applies to detached houses:

- b. The maximum dwelling unit size for a Detached House is 1,500 SF

This recommendation was supported by the Board as a way to limit the size of any detached dwelling that is built under the AHOM. There is a concern that without a limit on the size of detached dwellings, an applicant may choose to build a few large detached homes and offset it with many small attached units. Planning staff did not initially propose allowing detached homes through the AHOM, but the Board saw value in allowing some small detached houses and decided limiting their size was the appropriate means to keep them attainable.

Lot Standards

The third section of development standards recommended for the AHOM standards table relates to minimum lot dimensions. Consistent with other standards sections, the Board is proposing the AHOM closely follow the MPDU optional method regarding the standards for lot dimensions. A minimum lot size is recommended for each of the building unit types, expressed as a per unit metric, intended to provide flexibility for buildings such as duplexes and multiplexes to either subdivide the land providing the minimum lot size or greater for each dwelling, or to have each building type on a single lot, sized large enough to still meet the standard. This is consistent with using the per unit approach to similar standards in the standard method of development.

Placement, Height and Form Standards

The remaining three sections of standards recommended for the AHOM include Placement (principal building setbacks and accessory structure setbacks), Height (principal building height and accessory structure height) and Form (massing). The Planning Board recommends largely pulling these standards directly from the MPDU optional method of development where building types overlap and setting appropriate standards for the multiplex and apartment building types.

Large Scale Attainable Housing

For large scale attainable housing, the Planning Board recommends using the master plan process to identify opportunities to rezone properties along the county's primary growth corridors for higher intensity residential development.

Large scale attainable housing development includes 4- to 5-story mixed-use live/work buildings, stacked flats, and small apartment buildings. Given the larger impact and scale of these attainable housing types, this scale of housing is most appropriate to be implemented after the full analysis and public engagement of a local master plan process. The master plan process reflects a vision for a particular area that is developed by the Montgomery Planning in consultation with community members through public meetings and outreach efforts, and often results in recommendations to rezone particular parcels.

Such an approach has been conducted in recent master plans to pursue large scale attainable housing, specifically in the Veirs Mill Corridor Master Plan and the Forest/Glen Montgomery Hills Sector Plan. These efforts include the use of the CRN zone. The CRN is the least dense zone in the Commercial/Residential family of zones and can be used in a master plan to align with the typical large scale attainable housing product desired along major transportation corridors.

Additional Recommendations

MPDU and Cluster Optional Methods of Development

The Planning Board recommends making modifications to the existing MPDU and Cluster optional methods of development in all Rural Residential, Residential, Commercial/Residential and Employment Zones to include multiplex as an allowed building type. There are two primary reasons for this:

- to accommodate existing and future three-unit buildings that were built as townhouses before the recommended definition change making townhouses four or more units, and
- to generally provide more flexibility to applicants to provide attainable types of housing in places where duplex and townhouse development is already allowed.

Table 3 illustrates each of the zones that currently have Cluster, MPDU or both optional methods available to them.

	Ag	Rural Residential			Residential												Commercial/ Residential			Employment				
					Residential Detached							Residential Townhouse			Residential Multi-Unit									
	AR	R	RC	RNC	RE-2	RE-2C	RE-1	R-200	R-90	R-60	R-40	TLD	TMD	THD	R-30	R-20	R-10	CRN	CRT	CR	GR	NR	LSC	EOF
Cluster						*	*	*	X	X														
MPDU				X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

* Denotes Cluster optional method of development for which the Planning Board does not recommend multiplex building types.

X Denotes where the Planning Board recommends multiplex building types be added to the optional method.

Table 3. Applicability of the MPDU and Cluster optional methods of development and whether the Planning Board recommends allowing multiplexes.

There are no recommended changes to the development standards categories for any of the optional methods for any of these zones. The only change is adding multiplex as an allowed building type and creating appropriate standards for multiplex buildings. The Planning Board's recommended standards for the multiplex building type can be found in the zoning modifications provided in Attachment G.

As shown in Table 3, the exceptions are in the RE-2C, RE-1 and R-200 zones under the Cluster option. This optional method does not currently allow duplex or townhouse building types in these zones, therefore the Planning Board is not proposing to add multiplex to the optional method for these zones.

For the MPDU optional method in the RNC, RE-2C and RE-1 zones, the Board does recommend a few modifications to the multi-unit living use standards in order to accommodate multiplexes. These proposed limited use standards clarify that in these three zones, multi-unit living is intended only to allow the multiplex building type and can only apply to MPDU optional method projects with public water and sewer service. The multi-unit household living would also only apply as a multiplex building type in the three townhouse zones. Multi-unit living in apartments is already allowed in the Residential Multi-Unit, Commercial/Residential, and Employment Zones.

These new limited use standards clarify that in the RNC, RE-2C and RE-1 zones, Multi-Unit living is intended only to allow for the Multiplex building type and can only apply to MPDU optional method projects with public water and sewer service. The Multi-Unit household living would also only apply as a Multiplex building type in the three townhouse zones. Multi-Unit living in apartments is already allowed in the Residential Multi-Unit, Commercial/Residential, and Employment Zones.

Standard Method of Development in Other Zones

The Planning Board recommends adding the multiplex building type to the standard method of development in the Residential Townhome, Residential Multi-Unit, Commercial/Residential and Employment zones. These are all zones where duplex and townhouse building types are currently allowed by-right, so the Board believes it is consistent and appropriate to also include the multiplex building type. Specifically, this includes the TLD, TMD, THD, R-30, R-20, R-10, CRN, CRT, CR, GR, NR, LSC and EOF zones. Zoning modifications to add the multiplex building type to the standard method of development in these zones can be found in Appendix H. Because the duplex and townhouse building types are already allowed, the Planning Board does not recommend using the pattern book for multiplex buildings in these zones.

The standard method development standards tables for each of these zones currently distinguishes between duplex-side and duplex-over. Through its modified definition of duplex and clarity of creating standards on a per unit basis, the Planning Board recommends consolidating these into one duplex building type in these standards tables.

Finally, to allow the addition of multiplex in the C/R and Employment zones, the Planning Board recommends adding multiplex as a defined term, and making minor text modifications to the duplex, townhouse, and apartment building types in Section 4.1.5 of the zoning code. These changes are identical to the ones recommended earlier for the Agricultural, Rural Residential and Residential zones.

Subdivision

Most of the reforms the Planning Board has recommended in this report have pertained to zoning changes that would make it feasible to build attainable housing in residential zones largely characterized

by single-family homes. The Board has also identified opportunities for clarification and streamlining Chapter 50, the county's subdivision code, that are worth exploring. These changes could be prepared through a subdivision regulation amendment (SRA) that would complement any zoning text amendments resulting from the AHS initiative.

Types of Subdivisions

To understand the existing process an attainable housing unit would need to follow, it is important to first review how the code defines Subdivision:

The division or assemblage of a lot, tract, or parcel of land into one or more lots or parcels or other divisions for the purpose, whether immediate or future, of sale or development. The definition of subdivision does not include a bona fide division of exclusively agricultural land not for development purposes. A resubdivision is a subdivision.

A subdivision can be as small as one existing parcel or tract of land being officially recorded and platted and can be as large as many hundreds (or more) new lots, roads, and open spaces for greenfield development. Given the wide range of scales, and involved complexities, Chapter 50 has established three separate processes for subdivisions: Preliminary Plans, Administrative Subdivision Plans, and Minor Subdivisions.

Preliminary Plans

A Preliminary Plan is the most comprehensive type of subdivision and is also considered the de-facto means of performing a subdivision in Montgomery County. If an applicant does not qualify to use one of the other two processes, they would follow the Preliminary Plan process. Preliminary Plans have a code-mandated 120-day review period measured from the date of plan acceptance to the date of the Planning Board hearing. Only the Planning Board may render a decision on a Preliminary Plan. A Preliminary Plan must make all the required findings outlined in Chapter 50 and must obtain approvals from the various outside government agencies prior to being approved by the Board.

Administrative Subdivision Plans

The Administrative Subdivision Plan is a streamlined review process available to certain applicants depending on their specific land uses or situations. These plans mandate an approval within 90 days of the date the application is accepted. Administrative Subdivision Plans may have the decision rendered by the Planning Director or the Planning Board. Administrative Subdivisions make the same technical findings as a Preliminary Plan, but the review is generally less complicated, and the likelihood of unusual circumstances is reduced. Outside agency approvals are requested but may be deferred until the time of record plat. The Planning Director is permitted to decide on most Administrative Subdivision Plans, but the Board may also render the decision if there are findings that need to be made that only the Board can make, opposition to the plan has been received from the community, or the situation is unusual enough that the Director deems the Board to be the more appropriate deciding body. Examples of allowed Administrative Subdivision Plans include existing places of worship, up to five lots for detached houses in the AR zone, up to three lots for detached houses in a residential zone, consolidating existing lots or parts of lots in non-residential zones, or lots associated with a Signature Business Headquarters.

Minor Subdivisions

A Minor Subdivision is the least intensive process of subdividing in Montgomery County, and generally allows an applicant to directly file an application for a record plat if they can meet certain criteria based

on the specific use. The uses that may be eligible for Minor Subdivision currently include minor lot line adjustments, converting an existing platted outlot into a buildable lot, consolidating two or more lots into one lot, subdividing commercial property to reflect ownership, plat of corrections, pre-1958 parcels, creating lots from parts of lots, and platting property with existing houses in the R-90 or R-60 zones. As these uses imply, most Minor Subdivisions involve land already platted in some way or are so small and unique that there is no perceived benefit from pursuing a more detailed subdivision review.

As Chapter 50 is written now, there are no provisions under the Administrative Subdivision Plan or the Minor Subdivision section that would pertain to creating lots for duplex or multiplex buildings, but there are processes that allow for creating lots for detached dwellings. Due to the size and potential complexities of a subdivision associated with the Attainable Housing optional method of development, the Board has focused their efforts on whether alternative review procedures may be appropriate in some or all situations of creating small scale attainable housing as part of the standard method in the R-200 R-90, R-60 or R-40 zones.

New Administrative or Minor Subdivision Procedures

The Board believes there are opportunities through the Administrative Subdivision Plans, Minor Subdivisions, or both, to establish a more streamlined process to subdivide property for the purposes of creating attainable housing. Under the recommended changes to the zoning code, the intended scale of standard method attainable housing projects is small, limited to a tract area no more than slightly larger than two typical existing lots for detached houses. The expected result would be up to two house-scale buildings used for duplexes or multiplexes. As such, the Board recommends creating a new type of Administrative Subdivision Plan for the creation of up to eight lots if the application uses the standard method of development for attached dwelling units in duplex or multiplex building types in the R-200, R-90, R-60 or R-40 zones. Eight lots would accommodate the largest scenario of two quadplexes. The Administrative Subdivision Plan would still make all the same findings as a full Preliminary Plan but may be approved by the Director instead of the Board and does not need to have final outside agency approvals until the submission of record plat(s). The final details of the applicable conditions have not been finalized but the Planning Board would recommend similar requirements as exist for the *Subdivision for creation of certain residential lots in Section 50.6.1.C*.

The Board is also recommending a new Minor Subdivision process that would apply to certain applications for subdivision for attainable housing. In situations where the recommended subdivision is limited in size to only one pre-recorded lot, the Board believes a Minor Subdivision process could be appropriate. In these situations, the existing lot (subdivision tract area) has already been platted and deemed appropriate for a detached house. There is little review benefit to filing formal plans to the Planning Department and having other agencies conduct preliminary reviews since any possible issues such as stormwater, utility hookups, confirmation of forest conservation qualification or exemption, and easement recordation can and do get resolved now through record plats or building permits. A detailed list of required materials, approvals and documents from an applicant and outside agencies can be established as requirements of a new Minor Subdivision.

Parking

The Planning Board recommends reducing minimum parking requirements for attainable housing types within the R-200, R-90, R-60 and R-40 zones under both the standard and optional methods of

development, with the deepest reduction in parking requirements for attainable housing within the Priority Housing District.

As part of the AHS, a review of the parking requirements under Section 6.2 was conducted. One of the areas of focus was on the required minimum parking that is appropriate for attainable housing dwellings, and whether that should vary based on the dwelling type, or the location of the housing. Part of what informed the Board's recommendations included the work done in 2018 on Accessory Dwelling Units where the council agreed to reduce parking requirements within a mile of transit or where adequate on-street parking was available. In addition, the priority of facilitating more intensive attainable housing (quadplexes) and generally reducing overall parking near existing and planned transit through the Priority Housing District was considered.

A review of professional literature on parking in various other jurisdictions suggests that parking requirements contribute to the high cost of housing. In "The trouble with minimum parking requirements,"¹⁰ Donald Shoup argues that minimum parking requirements increase the supply and reduce the price – but not the cost – of parking. They bundle the cost of parking spaces into the cost of development, and thereby increase the prices of all the goods and services sold at the sites that offer free parking. In the planning field there is a growing shift toward strategies that recognize that parking requirements negatively impact the affordability of housing too. Building parking is expensive and that cost is usually carried over to the tenant or homeowner. A recent American Planning Association¹¹ article noted that various studies indicate that surface parking lot spaces cost upwards of \$5,000 each, while above-ground parking garages average around \$25,000 per space and below-ground garages average around \$35,000 per space. That can translate into higher rent and higher housing costs.

Adjustments to Vehicle Parking

Section 6.2.3.I of the zoning code allows adjustments to vehicle parking based on certain situations. Subsection 2, Special Uses, includes existing adjustments for Restricted Housing Types and religious assembly. The Board is recommending a new section be added for attainable housing. This section, similar to the Restricted Housing Types, would offer an adjustment factor that can be applied toward the baseline minimum required parking to reduce the overall off-site parking requirements.

Specifically, the Board is recommending that baseline parking minimums for duplexes and multiplexes in the R-40, R-60, R-90 and R-200 zones, may be reduced by multiplying the baseline minimum by an adjustment factor of 0.50 under the following circumstances:

- a. In the R-200 zone, a duplex building built under the standard method that is located on a street with on-street parking;
- b. In the R-90, R-60 and R-40 zones, a duplex or multiplex building built under the standard method that is located outside the Priority Housing District and on a street *with* on-street parking;
- c. In the R-90, R-60 and R-40 zones, a duplex or multiplex building built under the standard method that is located inside the Priority Housing District and on a street *without* on-street parking; or

¹⁰ Source: <http://shoup.bol.ucla.edu/Trouble.pdf>

¹¹ Source: <https://www.planning.org/planning/2018/oct/peopleoverparking/>

- d. Dwellings built under the Attainable Housing optional method of development where 50% or more of the existing site frontage is along a street *without* on-street parking.

The Board further recommends that baseline parking minimums be reduced by multiplying the baseline minimum by an adjustment factor of 0.25 under the following circumstances:

- a. In the R-90, R-60 and R-40 zones, a duplex or multiplex building built under the standard method that is located inside the Priority Housing District and on a street *with* on-street parking; or
- b. Dwellings built under the Attainable Housing optional method of development where 50% or more of the existing site frontage is along a street *with* on-street parking.

These recommendations would allow modest parking reductions for attainable housing in most circumstances, except for the few where a site is outside of a priority housing district and there is no on-street parking on the block. The greatest reductions would occur within the Priority Housing District which is closest to planned and future transit where there is on-street parking available.

While the Planning Board is supportive of reducing parking minimums and has recommended the above strategy, the Board is also supportive of working with the Council on other options to modify parking requirements. These include:

- 1. Basing the amount of required off-street parking on the width of street frontage available.
- 2. Allowing the required parking to be based on overall parking, which includes both on- and off-site, instead of just what is required on-site.
- 3. Using the existing multifamily parking minimums for attainable housing types, which ties parking to the number of bedrooms.

The Planning Board also wants to recognize that its recommendation for a reduction in parking minimums is exactly that – a reduction in parking *minimums*. The Planning Board is not recommending parking maximums, or even recommending no parking minimums. There are times the market will dictate more parking than the minimum. The Planning Board received a lot of correspondence out of concern for parking and took this concern seriously, but ultimately one of the goals of this initiative is to make housing more attainable and reducing parking requirements has the potential to help achieve that goal.

Catalyst Policies and Programs

The Board believes certain catalyst policies may assist the development of these attainable housing types. The Board has identified several policies for the Council to consider. These policies are broadly divided into two types, catalysts for Owners Occupied Conversions and Community-level Incentive Programs.

Formulating and implementing these policies and program will require a countywide effort and robust interagency coordination. It is also important to have private entities such as community organizations and non-profits deeply involved with implementation.

Owner Occupied Conversions

These catalyst policies would, if adopted and implemented, incentivize and assist existing homeowners who wish to convert their homes to a duplex or multiplex.

Property Tax Refunds

One option is to provide a property tax refund as an incentive to convert an existing single-family home to create small-scale attainable housing. If a property owner converts their single-family home to a multiplex or adds multiple units on their single-family zoned lot, their property taxes for the unit that they occupy would be refunded by a factor associated with units added, for up to 10 years as long as the original owner occupies the unit.

- If the converted property is a duplex, the property tax refund on the owner-occupied unit would be 50 percent of the taxes paid, for a triplex the refund would be 66 percent of the taxes paid, and for a quadplex or apartment the refund would be 75 percent of the taxes paid.
- In cases where it is required to temporarily transfer the deed of the house to a developer a signed affidavit from the homeowner and developer may be used as evidence of owner occupancy where repurchase may be required (repurchase within 365 days of deed transfer). This will also apply to cases where developers have carried out a lot consolidation.
- Additionally, for other homebuyers of the multiplex houses the same refund structure should apply for the first five years of their ownership of the new attainable housing types.

Conversion Assistance Toolkit

The Board believes that there may be some initial hesitancy on part of homeowners who wish to convert their Single-family homes or their single-family zoned lots, since any process that requires regulatory input can become daunting. One way to address this concern is to create countywide multiagency team to develop an 'Attainable Housing Conversion Assistance Toolkit' as a part of a new effort, which could have the following information:

- A detailed list of regulatory requirements and a process guide
- Contact information for relevant officials
- Resources for conflict mitigation
- Guidance on potential bidding resource, where homeowners can invite bids using a simple step by step guide while protecting themselves financially and legally
- Guidance on how to access current incentive and grant programs

Owner Occupied Conversion Loan Fund

The Board believes that it is important to address financial barriers that some homeowners may have while pursuing a conversion to the multiplex type. To that end, the Board recommends exploring establishment of a loan fund with a one-time capitalization of \$5,000,000. Potential guidelines for the loan may be as follows:

- The loan would be issued directly to the owner of any single-family home or single-family zoned lot for a period of five years. The first year of the loan would be interest-free and the county may set an interest rate adjusted to the Federal Reserve Prime Rate or Montgomery County Municipal Bond Rate for the subsequent four years.
- To access the loan the homeowner would have to submit an affidavit that specifies that they intend to convert their single-family home to a multiplex or to build a multiplex on a single-family zoned lot.
- The conversion must be completed within 365 days of loan disbursement or the loan will have to be repaid in full.
- The loan can be capped at \$25,000 and disbursed on a first come first serve basis.

The purpose of this loan is to ensure that the homeowners or landowners have access to credit for any initial activities associated with the conversion which traditional lending mechanisms may not fund. These activities may include consultations with architects, contractors, or legal professionals as they pursue a conversion to a multiplex. Additionally, a project of this scale may require a substantial time commitment for a homeowner and access to credit may alleviate some of the concerns associated with this time commitment. Other municipalities are also exploring similar programs to address their housing needs, for [instance](#) Charleston's Department of Housing and Community Development intends to provide grants for the creation of housing by single-family homeowners.

Community-level Incentive Programs

The Board also recommends exploring certain incentives that would apply to the communities that see a greater degree of growth in attainable housing types. The geographies for these incentive programs could be linked to census tracts, transportation analysis zones (TAZ) or some other set of established local boundaries.

Improvement Grant Program

One potential program is a grant program accessible to all homeowners (single-family, apartments, and multiplex) in the three neighborhoods with the highest number of attainable housing types built. To that end, the Board recommends exploring establishment of an annual grant fund of \$5,000,000. Each individual grant could be capped at \$10,000. Potential eligible activities for which homeowners could use the grant dollars are as follows:

- Stormwater Mitigation
 - Rain Barrels
 - Converting Impervious Surfaces to pervious surfaces (such as driveways, lead-walks etc.)
 - Bioswales
 - Gutter Upgrades
- Fire safety Improvements
 - Smoke Alarms/Fire extinguishers
 - Sprinkler System Installations
- Energy Efficiency upgrades
 - Installation of Solar Panels
 - Solar water heaters
 - Energy efficient fixtures and appliances

This list of eligible activities is not comprehensive and will require additional scrutiny and input from partner agencies, however it does align with the county's environmental and other key initiatives.

Other Topics

Collection of Impact Taxes and the Applicable Rates

Development impact taxes¹² are set by the Montgomery County Council and assessed on new residential and commercial buildings and additions to commercial buildings to help fund the improvements necessary to increase transportation or public school systems capacity. The residential impact tax rates charged are generally based on two factors – geographic location and type of housing being built.

Currently, impact taxes are not paid on a replacement home, as long as construction on the new home begins within four years of the demolition of the original home. This is because when a single dwelling unit replaces another single dwelling unit, the net housing impact is zero. As attainable housing types will, on net, increase the number of housing dwelling units on a property, they will be assessed an impact tax.

Planning staff will continue to research the topic to determine the most applicable impact tax rate to use based on observed student generation rates among existing duplexes and structures with three or four units.

Role of HOAs

Another theme in correspondence has to do with the role of homeowners' associations (HOAs) and covenants in restricting the development of multi-unit development. Many HOAs have restrictions against renting property or having more than one unit on a property. Covenants between a homeowner and an HOA are private binding documents. Just as with other private contracts, the courts enforce the contracts when asked to do so by one of the parties involved. The county does not enforce private covenants.¹³

While HOAs cannot override zoning, they can generally have more restrictive conditions and limit having more than one unit on a property.

Role of Municipalities

Municipalities with their own zoning authority (Brookeville, Poolesville, Laytonsville, Rockville, Barnesville, Gaithersburg, and Washington Grove) are not affected by any changes to county zoning.

Under Section 20-509 of the State Land Use Article, other municipalities without their own zoning authority may:

- Regulate only the construction, repair, or remodeling of single-family residential houses or buildings on land zoned for single-family residential use as it relates to:

¹² Transportation and School Impact Taxes, effective July 1, 2021:

<https://www.montgomerycountymd.gov/DPS/Resources/Files/Fees/Impact-Taxes-Handout.pdf>

¹³ The role of HOAs and municipalities was also a discussion point during the debate over Accessory Dwelling Units in ZTA 19-01, and much of the information in this staff report is summarized from that report:

https://www.montgomerycountymd.gov/council/Resources/Files/agenda/col/2019/20190709/20190709_3.pdf

- residential parking;
- the location of structures, including setback requirements;
- the dimensions of structures, including height, bulk, massing, and design; and
- lot coverage, including impervious surfaces

Within the scope of this provision, a municipality may have more restrictive conditions under any of these topics. For example, the Town of Chevy Chase generally has more restrictive setbacks and height requirements than required in the county's zoning code.¹⁴

DRAFT

¹⁴ Source: <https://www.townofchevy Chase.org/DocumentCenter/View/203/Land-Use-Handbook?bidId=#page=38>

Conclusion

The Planning Board recommends making changes to the Zoning Ordinance to allow the development of small, medium, and large scale attainable housing in order to provide more diverse types of housing in Montgomery County at price points that allow more neighborhoods to be attainable to more households. Attainability is the ability of households of various incomes and sizes to obtain housing that is suitable for their needs and affordable to them. The Attainable Housing Strategies initiative is one part of a coordinated, multi-agency, multi-partner initiative aimed at building more types of housing in Montgomery County.

The next steps for this initiative would be to present the Planning Board's recommendations to the County Council. The Council may then choose to introduce a zoning text amendment to implement the Board's recommendations. While the Planning Board believes these zoning changes are important steps in addressing the housing crisis and meeting the county's equity goals, the Board also recognizes that it is not enough to make zoning changes. There are other pieces – from financing, permitting, and subdivision – that need to work hand-in-hand with the zoning changes. The Board and Planning staff stand ready to work alongside partner agencies to meet the challenge of building attainable housing.

Appendix A: County Council Letter



MONTGOMERY COUNTY COUNCIL
ROCKVILLE, MARYLAND

Casey Anderson, Chair
Montgomery County Planning Board
Gwen Wright, Director
Montgomery County Planning Department
2425 Reedie Drive, 14th Floor
Wheaton, MD 20902

March 4, 2021

Dear Chair Anderson and Director Wright:

On behalf of the Council, we write to request that the Planning Board consider zoning reforms that would allow greater opportunities for Missing Middle housing in Montgomery County, provide opportunity for public input, and transmit to us a Zoning Text Amendment with your recommendations. This process was suggested by PHED Chair Riemer in the attached memo to colleagues and a majority of Councilmembers have agreed. Councilmember Riemer attached a draft ZTA and fact sheet for your consideration, and we hope you will consider the concepts in ZTA 20-07, introduced by Councilmember Jawando.

If we can receive your recommendations shortly after we receive the Thrive 2050 plan, we could hear from the community and complete our work by the end of the year.

We look forward to engaging in this important discussion.

Regards,

Handwritten signature of Tom Hucker in black ink.

Tom Hucker
Council President

Handwritten signature of Hans Riemer in black ink.

Hans Riemer
Chair
Planning, Housing and Economic Development Committee

Appendix B: Engagement

Developing community engagement tools is an important part of guiding public education on the topic of attainable housing and building awareness and garnering support for the AHS initiative. Planning staff used several tools with the aim of reaching the largest audience possible with special attention paid to coordinating with other ongoing initiatives to remove redundancy and to create consistent, comprehensive messaging about attainable housing.

The Attainable Housing Strategies initiative included a strategic communications plan to help guide staff on how to engage the community to interact with the effort, provide feedback and be involved with the process. This included understanding audiences and implementing key tactics.

- **Project Webpage:** A [project website](#) was created to provide transparency, accessibility and information to users wanting to engage with AHS related content. The webpage includes easy ways to contact staff, submit feedback and request meetings. It also includes links to presentations and recordings of community engagement and advisory team meetings.
- **Housing Equity Advisory Team (HEAT):** As part of the AHS initiative, a group of external stakeholders was convened to assess various aspects of AHS. The HEAT consisted of stakeholders that approach AHS from a range of industries and perspectives. It included developers (both for-profit and non-profit), a realtor, civic activists, housing advocates, an economist and a representative one from the banking industry. While the HEAT was not asked to come to a consensus or to make recommendations directly to the Planning Board, the members helped form staff's recommendations by providing an understanding of their different perspectives and knowledge about housing policy.
 - The HEAT met four times in March, April and May, for two hours each meeting. To date, below are the view counts on each of the [HEAT meeting](#) recordings:

Date	Recording Views	Live Broadcast Observers
March 24	56	N/A
April 14	51	N/A
April 28	38	11
May 19	38	12

- **Public Meetings:** Planning staff hosted three virtual public meetings held over Microsoft Teams to share the project scope and completed project milestones, conduct small group discussions in breakout rooms, and answer questions from community members.
 - Below are the participation counts, as well as the number of recording views, to date, for the [community meetings](#):

Date	Registered	Attendance	Recording Views
March 29	71	35	87
April 21	60	35	13 to 19*
June 2	170	85	84
December 13			

* This meeting included breakout sessions that were each recorded and posted, thus the range of views.

- **Stakeholder Conversations:** Planning staff has held other targeted stakeholder meetings with a presentation and/or Q&A.
 - Montgomery Mayors (April 6)
 - Montgomery County Civic Federation (April 12)

- Edgemoor Community Association (April 26)
 - Bethesda Implementation Advisory Committee (May 7)
 - Kensington Heights Civic Association (May 25)
 - Park Hills Civic Association (May 26)
 - Neighborhood Coalition (June 7)
 - Citizen’s Coordinating Committee on Friendship Heights (June 16)
 - NAIOP (July 13)
 - COG Housing Directors (July 21)
 - Bethesda Implementation Advisory Committee (October 1)
 - Maplewood Civic Association (October 13)
 - East Bethesda Civic Association (October 27)
- **Office Hours:** Planning staff held three recurring virtual “office hours,” offering community members personalized opportunities to provide their feedback and ask questions about the AHS initiative.
 - **Housing eLetter:** As part of AHS, a housing eLetter was created to help share project updates and milestones. As of November 15th, the eLetter had 278 subscribers.

Date Sent	Open Rate	Click Rate
March 26	65%	21%
April 2	68%	31%
April 16	74%	40%
April 28	63%	26%
May 7	65%	41%
May 18	56%	30%
May 27	65%	35%
June 8	56%	16%
June 11	55%	5%
June 21	54%	9%
June 29	61%	11%
July 2	56%	10%
July 16	52%	6%
September 3	48%	10%
October 13	66%	4%
November 2	53%	10%
November 12	55%	8%
17 Newsletters	60% Average	18% Average

- **Educational Materials:** An [explainer](#) was created that helps clarify key terms and content. The materials were also translated into [Spanish](#).
- **Social media campaign:** Similar to the “Housing Day” hosted previously on Twitter for Thrive Montgomery 2050, there was a planned social media campaign related to the initiative on June 14 to raise awareness and garner feedback on staff recommendations.
 - While there was some engagement on Facebook, most action occurred on Twitter (most of it overwhelmingly positive):
 - Montgomery Planning’s Twitter (@MontgomeryPlans) gained 5 new followers

- 39,990 organic impressions on #HousingDay (meaning the number of times people saw Montgomery Planning’s tweets organically throughout the day in their Twitter feed). To put this in perspective, Montgomery Planning had 92,200 organic impressions total over the previous 28 days.
 - 156 likes (compared to 303 total over the previous 28 days)
 - 46 retweets without comments (compared to 116 total over the previous 28 days)
 - 44 link clicks (compared to 210 total over the previous 28 days)
 - 50 replies (compared to 57 total over the previous 28 days)
 - 2.4 percent engagement rate (compared to a 1.3 percent engagement rate on average for the previous 28 days) – this is the ratio of the number of engagements to the number of impressions; engagement includes any way someone interacts with a Tweet, including but not limited to, retweets, clicks and likes
 - On Facebook:
 - 3 new followers
 - 623 people (up 332 percent from the previous day)
 - 292 engagements with Montgomery Planning posts (up 3,144 percent from the previous day)
 - 26 link clicks
 - 20 comments (this includes comments on shared posts that Montgomery Planning may not be able to see)
 - 10 shares
 - 75 reactions
- **#MyMoCoHome:** The [#MyMoCoHome](#) campaign crowdsourced stories from people throughout Montgomery County about their search for and struggles with finding appropriately sized and priced housing for themselves and their families. #MyMoCoHome stories will be used to inform the Attainable Housing Strategies initiative. Montgomery Planning has a lot of data and planning best practices but wanted to better understand the human element of Montgomery County residents as many struggle with finding appropriate housing in an expensive market like Montgomery County.



Appendix C: Stakeholder Concerns

Summary of Stakeholder Concerns

While many people have expressed support for the AHS initiative and recommendations, several key themes have emerged that highlight the community's concerns related to the project. Some of these concerns require further collaborative efforts with other agencies and development partners to address in future action. Below is a summary of the concerns raised by community members, and the Planning Board's responses.

Initiative scope: The Planning Board heard several concerns related to the scope of the initiative. Concerns ranged from no support to the initiative, to asking for modifications to the scope (i.e., just allowing duplexes), to support for the intent and approach but serious concerns over parking in areas with narrow streets and limited on-site parking already. Others felt the scope should be limited to a pilot area initially. While the Planning Board agrees that the scope is comprehensive, the nature of the report and recommendations allow the Council to pick and choose certain elements to pursue, should they want to narrow the scope.

Demands on infrastructure: The Planning Board heard concerns about the increased demands on existing infrastructure, like schools, roads, and water and sewer. The Planning Board believes the demands on infrastructure can be addressed through existing policies. The Planning Board also believes that impacts of schools for the house-scaled products will be de minimis. However, these and the larger scale products recommended along corridors are all subject to existing impact taxes and any applicable Utilization Premium Payments to mitigate impacts on crowded schools. Demands on other infrastructure can be addressed through the 2024 Growth and Infrastructure Policy, where staff is contemplating a focus on water and sewer.

Compatibility concerns: The Planning Board heard concerns about the compatibility between existing single-family detached structures and the new attainable housing typologies. The Planning Board believes the pattern book can serve a key tool to encourage physical compatibility of these structures. The Planning Board's recommendations would allow the creation of duplexes, triplexes and quadplexes by-right only if they follow the contents of a Planning Board-approved pattern book, which when completed, will give guidance on building massing, placement, height, door placement, parking, and other building features. Furthermore, the Planning Board recommends establishing zoning development standards (setbacks, height, lot size, etc.) for structures with these new housing types that are consistent with the existing standards for single-family detached homes.

Architectural covenants: There were also questions about architectural covenants, which can limit the type of housing allowed. Architectural covenants are legally binding and there are limited legislative options to change architectural covenants. Planning staff plans to assess the extent to which architectural covenants and deed restrictions apply through Montgomery Planning's new Redlining and Segregation Mapping project.

Geographic context: The Planning Board acknowledges that relative attainability and sales price vary by neighborhood, but this is part of the distinction between attainability and affordability. Allowing more housing options will make neighborhoods more attainable to more households than they are today.

Actual attainability: The Board also heard concerns, especially in response to the Silver Spring Downtown and Adjacent Communities market study, that these units are not going to actually be attainable. Due to the high cost of land and high cost of construction new attainable housing may be more expensive than existing single-family detached units. However, attainable units would be smaller and accordingly less expensive than the new replacement homes being built throughout the county. If no action is taken, over time the currently attainable properties in the existing housing stock will be slowly transformed by-right under the existing zoning code and development standards into larger custom homes that are less affordable than existing and new attainable housing.

The Board believes there are good reasons to undertake this project beyond the price point of the units. At the root of the AHS initiative is an effort to make the county's communities more equitable and more inclusive by countering the historical exclusionary aspects of zoning.

Parking concerns: The Planning Board believes that it is important to create policies today that promote the desired future of tomorrow. As envisioned in Thrive, the county's future is expected to be more multimodal and connected. The Board used guidance from Thrive and best practices from transportation literature, which prioritized decreased motor vehicle parking per unit of development and adoption of policies that reflect the economic and environmental costs of driving alone. The Board believes that reduced parking minimums are appropriate for walkable communities with access to services, amenities, and multiple modes of transportation. Creating housing with reduced parking in these areas will attract households with less of a reliance on personal automobiles.

Recommendations not bold enough: While a lot of concerns voiced were focused on mitigating impacts of the recommendations, many did voice their concern that the recommendations are not bold enough. Many felt that given the exclusionary aspects of single-family zoning, staff recommendations should more aggressively address the exclusionary history of single-family zoning (e.g., by applying the recommendations everywhere). The Board believes that its recommendations are among the boldest being pursued in jurisdictions across the country. Furthermore, the Board believes that additional bolder changes can and should be pursued through the master plan process, using tools like rezoning to increase density and housing diversity.

Tight timeline for the project: The Attainable Housing Strategies initiative comes on the heels of years of studies and other efforts, including Thrive Montgomery 2050 launched in 2019, pointing us in this direction.

Should the Council decide to take action on a new ZTA to implement the Attainable Housing Strategies recommendations, the Planning Board and County Council would each hold a formal public hearing to receive testimony. There will also be work sessions before any changes are implemented.

Tackling the effort during the pandemic: If anything, the pandemic has exacerbated the need for the county to take action on housing issues. There is a growing demand for homeownership in this county, that is being met with a severe lack of supply. This is driving up the cost of housing on both the ownership and rental sides everywhere across the county. Those not fortunate enough to currently own property in the county are finding it less and less likely that they will ever be able to do so. The county can't wait to take action on this, and the waning pandemic is certainly no reason to ignore the county's housing woes.

Alignment of AHS to Thrive Montgomery 2050: There have been multiple inquiries about how the Attainable Housing Strategy relates to Thrive Montgomery and that there seems to be misalignment with the goals set out in Thrive and the push for Attainable Housing through a Thrive lens. Further, there seems to be concern in the fact that Thrive has not yet been adopted by Council, but that there have already been blocks sectioned off for rezoning through the AHS. AHS will not be taken up by the County Council until Thrive Montgomery 2050 is adopted. If necessary, appropriate changes will be made to the AHS recommendations to align with changes made by the County Council to Thrive Montgomery.

ZTA seen as a way to circumvent Master Plan and Sector Plan process: The Zoning Modifications is often referred to as a “one size fits all” and “blanket approach” to change zoning without having to go through the normal Master Plan and/or Sector Plan process. This is perceived to be a less comprehensive and detailed process and will result in actions taken (such as zoning changes) that are not well thought out, that haven’t had enough community involvement, and that will favor developers’ agenda rather than the residents living there.

Staff believes that the AHS process is comprehensive – and builds upon years of work regarding missing middle housing, and now attainable housing.

Gentrification and displacement: There were many concerns raised that the cost of the attainable housing units is too expensive and will result in gentrification. The rationale behind this concern is that because the new build of structures like townhouses, duplexes and triplexes are initially more expensive, they will push out existing residents and incentivize developers to exercise the by-right option in neighborhoods that are organically affordable, which will price out some of the older stock of housing.

The recommendations from AHS will not force anyone to sell their house. AHS simply expands the options available to property owners who might already be inclined to sell their property to a developer or to redevelop it themselves. Currently, properties that are ripe for redevelopment can only be replaced with new single-family detached homes, which are much larger and more expensive than both existing homes and the proposed attainable housing type units. Under existing rules, these replacement single-family homes do more to exclude households from residential neighborhoods than any of the proposed new housing types ever will. The existing by-right replacement home process is transforming more and more neighborhoods and AHS aims to make a competitive alternative to that existing process.

Staff also completed further analysis on the topic below.

Confusion between affordable housing and attainable housing: There has been confusion expressed around the language of attainable housing and how this relates to affordable housing. Many mentioned that earlier versions of the housing element in Thrive Montgomery 2050 were framed using “affordable housing” language and that this has changed to “attainable housing,” which many feel will not be affordable to low-wage or middle-wage earners. Often, many made the point that they support the development of affordable housing but not the development of attainable housing.

The Planning Board disagrees with the assertion. The language in Thrive Montgomery has always been around both affordable and attainable housing. There is a recognition in Thrive that both more income-restricted housing and market-rate housing are needed. Furthermore, Montgomery County

neighborhoods need more housing affordable to a range of incomes, not just those on the lowest and highest ends.

Inclusion of R-200 Zone: The Planning Board's recommendations would allow duplexes in the R-200 zone. Some people have argued that the R-200 zone should be excluded, given that the zone is mostly includes larger lots located upcounty.

Buffer Distances: Several people believe that the buffer distances used to create the Priority Housing District are arbitrary and random – and either smaller buffers or pedestrian network walksheds should be used as a more realistic option. The Planning Board felt that it was simple to align the buffer distances with previous guidance from the Accessory Dwelling Unit parking requirements, which included 1-mile straightline buffers.

Naval Support Activity (NSA) Bethesda: Naval Support Activity (NSA) Bethesda considers increased residential density near their installation fence line an encroachment issue that can impact the ability to meet mission requirements. The installation is surrounded by properties zoned R-60 and R-90, and an NSA representative has indicated that an increase in residential density along the installation fence line can lead to changes in installation activity that can degrade the ability to meet mission requirements. While the Planning Board did not exempt any properties, the Council may wish to exempt properties along the installation fence line if they wish.

Affordability

The Planning Board does not believe it is economically feasible for small scale, infill housing types to cover the high subsidy required to make units affordable to low- and moderate-income households.

First, let's highlight existing county affordable programs and how they fit into the development process in Montgomery County. The most well-known affordable housing program in the county is the Moderately Priced Dwelling Unit program. Implemented in 1974, Montgomery County's landmark inclusionary zoning program, the Moderately Priced Dwelling Unit Ordinance is believed to be the country's first mandatory, inclusionary zoning law that allowed an optional bonus density to help offset the cost of constructing units. The program requires that 12.5 percent to 15 percent of units in developments to be set aside as affordable to households earning between 65 percent and 70 percent of Area Median Income.¹⁵ The MPDU requirement is only triggered in developments with 20 units or more, in recognition of the high cost of providing MPDU units and the need to have a sizeable share of market-rate units to help cover the costs of providing these subsidized MPDU units.

If there are any Attainable Housing developments with 20 units or more (which is only possible for certain medium scale or large scale developments and not small scale/house-scale attainable housing types), the MPDU requirement would still apply.

Furthermore, changes made in 2018 require housing developments with 11 to 19 units to make a payment to the Housing Initiative Fund (HIF) at one-half (0.5) percent of the purchase price of the unit, paid at settlement. The HIF is administered by the county's Department of Housing and Community

¹⁵ The maximum household income is \$81,500 for a household of three to qualify for a MPDU.
<https://montgomerycountymd.gov/DHCA/housing/singlefamily/mpdu/programsales.html#Are>

Affairs. HIF funding is used to provide loans to support production of new affordable housing, acquisition and preservation of existing affordable housing, and subsidies to make housing affordable to very low-, low-, and moderate-income tenants. Funding is also used to support homeownership programs. The fund receives revenue from a variety of other sources including taxes, proceeds from bonds, and loan repayments.

There is also a Workforce Housing Unit (WFHU) Program in Montgomery County. The Workforce Housing program is a voluntary affordable housing program, and not required like the MPDU program. WFHU are often required as a condition of development agreements related to the use of county owned land. The goals of Workforce Housing are to promote the construction of housing that will be affordable to households with incomes at or below 120 percent of AMI,¹⁶ as well as increase the availability of housing in the county for public employees and other workers whose income cannot support the high cost of housing located close to their workplace.

The Planning Board's recommendations for Attainable Housing, specifically having 1,500 as the average unit size for applications that utilize the AHOM, will enable the creation of more units that are of a smaller size and are more accessible to moderate income earners to be built along the corridors that connect these transit and amenity rich areas.

There are also state and federal affordable housing programs that operate outside county code that have a limited role in development review. Perhaps the most well-known program is the Low-Income Housing Tax Credit, which is the national leader for developing affordable housing. Administered by state housing finance agencies, LIHTC provides funding for the development costs of low income rental housing. LIHTC typically serves households at 40-60 percent of AMI, but recent changes allow for income up to 80 percent of AMI, so long as the average income/rent limit in the project remains at 60 percent or less of AMI. In Maryland, the building must remain in compliance and is subject to covenant to enforce compliance for a minimum of 40 years. Given the size of small scale attainable housing projects, it is unlikely that these types of projects would apply for competitive 9 percent LIHTC.

Feasibility of Requiring an Affordability Component

Recently, Planning staff worked with Habitat for Humanity on a post for [Montgomery Planning's Third Place blog](#) on an affordable duplex homeownership project on Garland Avenue in Takoma Park. The blog highlights how it is not economically feasible to require small attainable housing projects to dedicate affordable units:

Habitat estimates that the cost to renovate and sell the Garland Ave property as a single-family home would be about \$800,000 and that the property would appraise for around \$870,000. Habitat serves families earning less than 80 percent of Area Median Income and ensures that families do not pay more than 30 percent of their gross household income on housing. Habitat does this by subsidizing the difference between the cost to renovate the home and what would be an affordable price for the families we serve. Obviously, \$800,000 is not affordable. Habitat calculates that a sales price of closer to \$300,000 is affordable when considering mortgage

¹⁶ The maximum household income is \$139,500 for a household of three to qualify for a WFHU. <https://www.montgomerycountymd.gov/DHCA/housing/singlefamily/workforce/>

payments, property taxes and homeowners' insurance. If left as a single-family home, the subsidy would need to be \$500,000 to make up the difference. However, because the property's zoning allows us to create a duplex, we can make the dream of owning a home in Takoma Park realistic for not only one, but for two homebuyers with this single project.

Habitat's total budget for the duplex conversion is \$950,000 or \$475,000 per unit. With two units, the subsidy drops from \$500,000 to \$175,000 per unit or \$350,000 total. That makes a huge difference when it comes to fundraising to fill the gap.

First, by creating another unit, Habitat was able to lower the cost of the subsidy and spread it across two units to help fill the fundraising gap to make the units a reality, highlighting the impact of building more and smaller units. Second, the subsidy needed to make this affordable to the families that Habitat serves is still high - \$175,000 per unit. While not a perfect comparison, the average per-unit cost of procuring an MPDU utilizing a loan for the Housing Initiative Fund in 2019 was approximately \$49,000.

The Planning Board believes that this subsidy gap is too large for the market-rate sector to be able to build these types of units without financial assistance from the county and it would be infeasible to require a mandatory affordability component.

Gentrification and Displacement

There have been neighborhood concerns that new construction associated with AHS will lead to gentrification. Staff examined the potential of small scale attainable housing and middle and large scale attainable housing to cause gentrification separately due to the differing review process and applicable geography. Staff found that the potential for all scales of attainable housing to generate gentrification is small.

Gentrification is defined by the Urban Displacement Program at UC Berkeley as “a process of neighborhood change that includes economic change in a historically disinvested neighborhood —by means of real estate investment and new higher-income residents moving in - as well as demographic change - not only in terms of income level, but also in terms of changes in the education level or racial make-up of residents.”¹⁷ The Merriam-Webster dictionary defines gentrification as “a process in which a poor area (as of a city) experiences an influx of middle-class or wealthy people who renovate and rebuild homes and businesses and which often results in an increase in property values and the displacement of earlier, usually poorer residents.”¹⁸ Both definitions emphasize changing demographics at a neighborhood-scale within lower income areas or a neighborhood in which policies actively prevented investment and led to a concentration of poverty and a dearth of opportunity. The Urban Displacement Program's website further explains the context of gentrification with an emphasis on racial segregation and the intentional economic isolation of people of color.

Small scale attainable housing is unlikely to cause gentrification because it is most likely to be built in neighborhoods that are neither lower income nor have ever been historically disinvested. Under certain conditions, the recommendations for small scale attainable housing would allow duplexes and triplexes by-right in certain residential zones and quadplexes in select areas near transit.

¹⁷ Source: <https://www.urbandisplacement.org/gentrification-explained>

¹⁸ Source: <https://www.merriam-webster.com/dictionary/gentrification>

To better understand where builders might construct small scale attainable housing and whether this might cause gentrification, staff modelled the feasibility of replacing properties in the 30th to 70th percentile of value with a 3,000 SF duplex (1,500 SF for each unit) in each transportation analysis zone (TAZ) in the county. The model uses the same process and data on value of the new unit and cost of construction as [the Missing Middle Market Study](#) presented to the Planning Board on March 4, 2021. In slight contrast, the Missing Middle Market Study evaluated the financial feasibility of replacing properties of *average value* (the 100th percentile of value) within each TAZ with new missing middle housing typologies.

To examine the potential of gentrification staff updated the model to analyze the feasibility of replacing properties that are 55 percent of the average value in each TAZ. Average value was calculated using all arms-length sales of single-family properties in each TAZ from 2018 through 2020. 55 percent was chosen as the weighted midpoint of the homes selling within the 30th to 70th percentiles of value; Montgomery Planning's [investigation of the replacement home market](#), presented to the Planning Board on June 24, 2021, revealed that builders target homes that sell between the 30th and 70th percentile of value for replacement homes. Staff modeled the feasibility of a 3,000 SF duplex as this matches the 1,500 SF average unit size cap discussed at the AHS work-session with the Planning Board on October 7, 2021.

The following map shows the results of this financial modelling, demonstrating that the duplexes, the development typology most easily fit onto an existing single-family parcel, is most likely to occur in the same neighborhoods where the majority of replacement homes were built since 2010. Neighborhood shown in yellow are where the profit from development of the duplex is expected to generate between 75 percent to 125 percent of the cost of a home at the 55th percentile of value, indicating the builder may be able to find one of these lower-cost properties at a price that enables development to proceed. Neighborhoods in green are where the expected profit exceeds 125 percent of the value of a property at the 55th percentile of local area value, indicating that efforts to acquire the lower-cost properties to build attainable housing would be likely there. Areas in red do not generate enough profit to cover 75 percent of the value of a home in the 55th percentile of value, indicating a builder is unlikely to find a sufficiently low-cost property for a duplex project. Within the areas in grey the anticipated revenue from the new units does not cover the cost of constructing the duplex, indicating that new duplex development replacing homes at the 55th percentile of value is not feasible in these areas at this time. Importantly, the green and yellow areas overlap substantially with the location of the vast majority of replacement homes built since 2010.

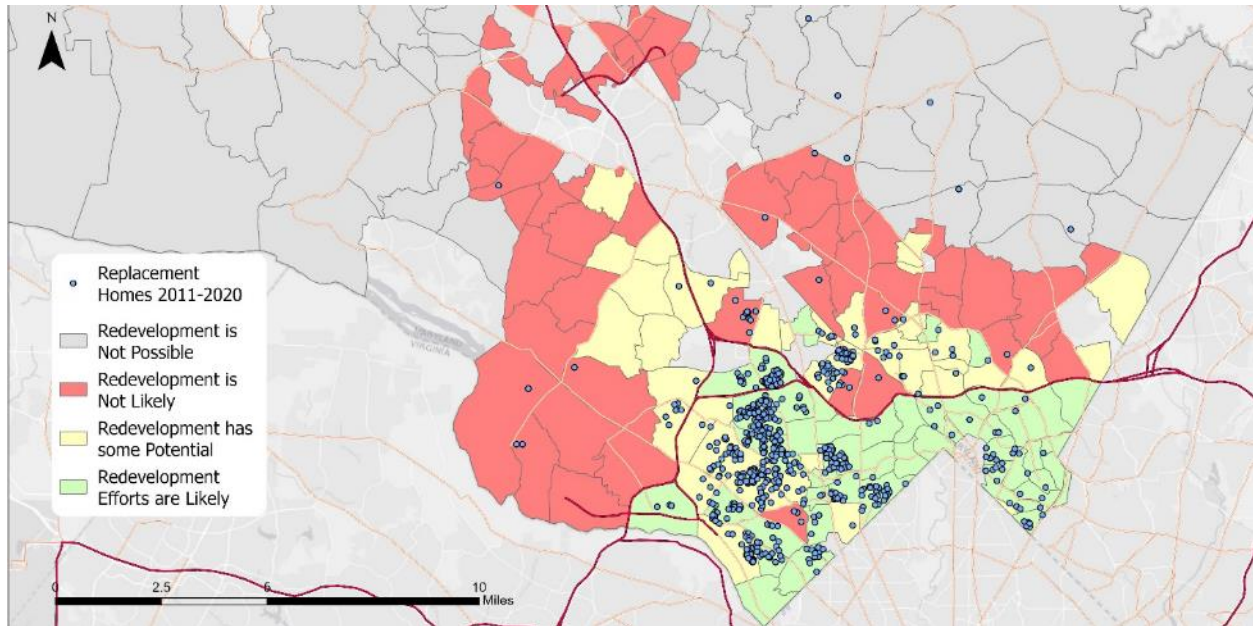


Figure C1. Feasibility of a 3,000 SF Duplex Redevelopment of Single-Family Homes at the 55th Percentile of TAZ average sales value and Location of Replacement Homes Built 2011-2020. (Source: Montgomery County Planning, Research & Strategic Projects)

While there is a broad geography in which builders could feasibly replace homes at the 55th percentile of average value with attainable housing, the supply of those lower cost homes is very limited.

Montgomery Planning's investigation of the replacement home market, presented to the Planning Board on June 24, 2021 found that just 10 percent of the approximately 20,000 arms-length sales of single-family homes in the years 2018 to 2020 were between the 30th and 70th percentile of value. This limited supply of properties within the price range required to profitably develop attainable housing will correspondingly limit the impact of the small scale attainable housing permitted by-right to existing single-family neighborhoods.

The finding that small scale attainable housing will likely occur in the same neighborhoods as replacement homes indicates that adoption of the AHS recommendations is unlikely to cause gentrification. This is because the neighborhoods where replacement homes are being built and where we would expect small scale attainable housing generally:

- had a higher proportion of households identifying as White alone, non-Hispanic or Latino in 2010 than the rest of the county;
- saw the proportion of White alone household decline at a slower pace from 2010 to 2020 than the rest of the county;
- had higher median income in 2010 than the rest of the county;
- had median income increase at a faster or similar rate as the rest of the county between 2010 and 2020; and,
- had average or higher than average levels of owner occupancy of the units within 1- to 4-unit properties.

The following series of maps shows the above five points, indicating that small scale AHS is most likely to occur in areas that are neither lower income nor historically disinvested.

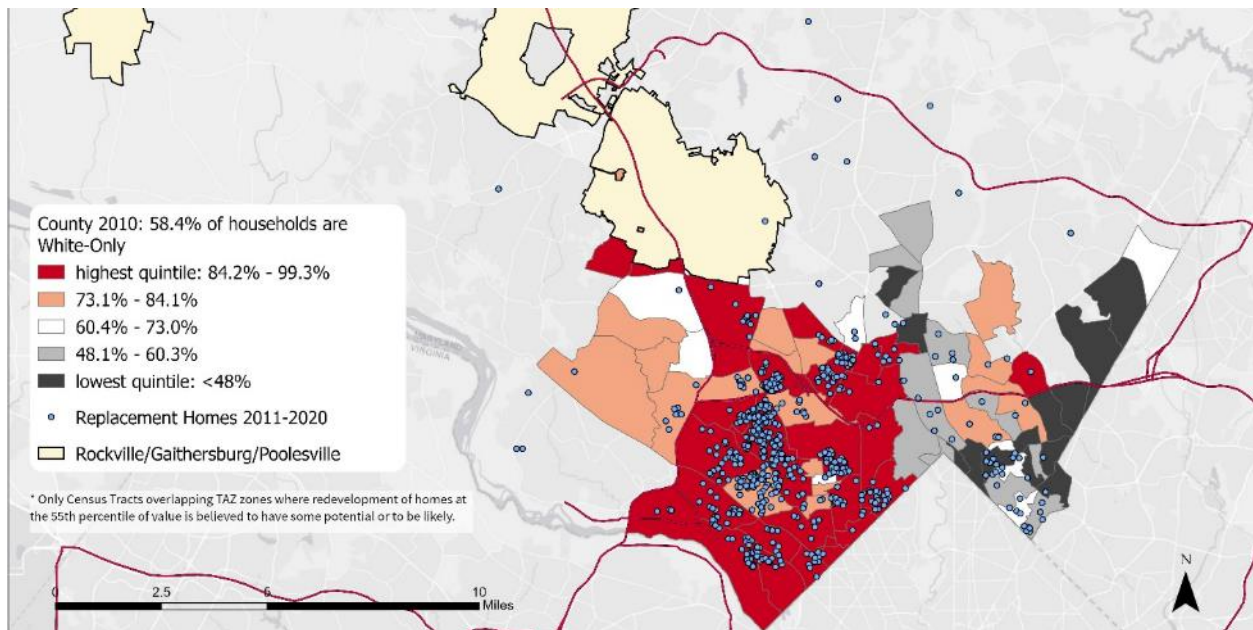


Figure C2. Proportion of the Population Identifying as White Only in 2010 by Census Tracts where Redevelopment of Homes at the 55th Percentile of Value has Potential or is Likely. (Source: Census 5-year ACS data, Montgomery County Planning, Research & Strategic Projects)

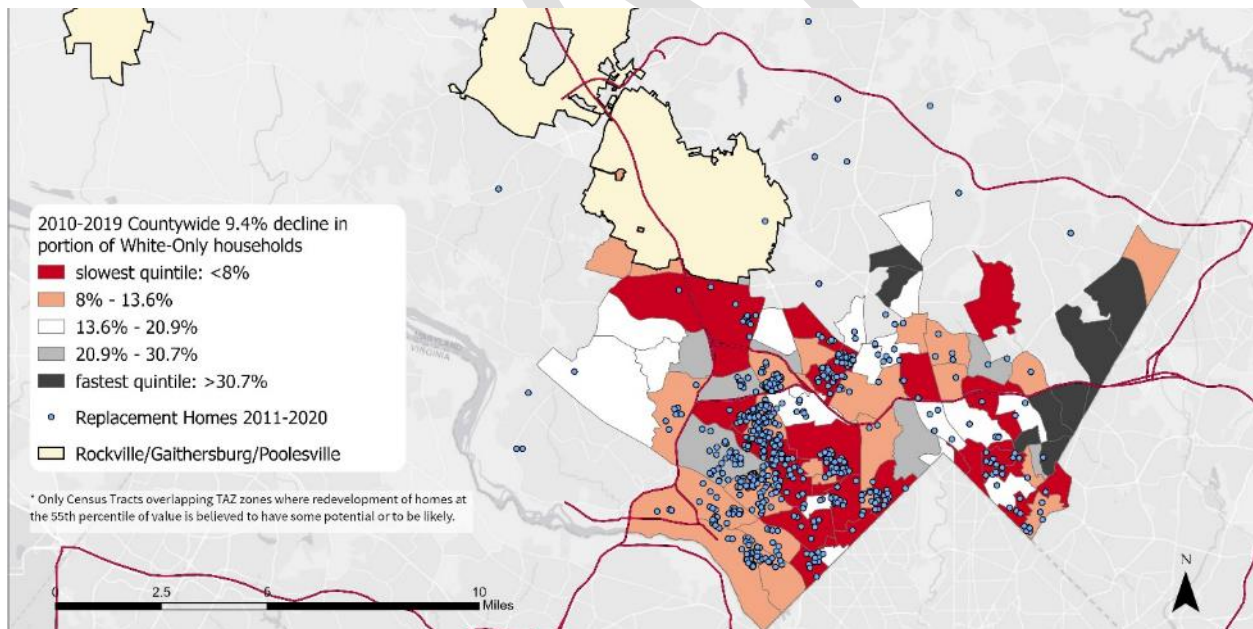


Figure C3. Decline in the Proportion of the Population Identifying as White Only from 2010 to 2019 by Census Tracts where Redevelopment of Homes at the 55th Percentile of Value has Potential or is Likely. (Source: Census 5-year ACS data, Montgomery County Planning, Research & Strategic Projects)

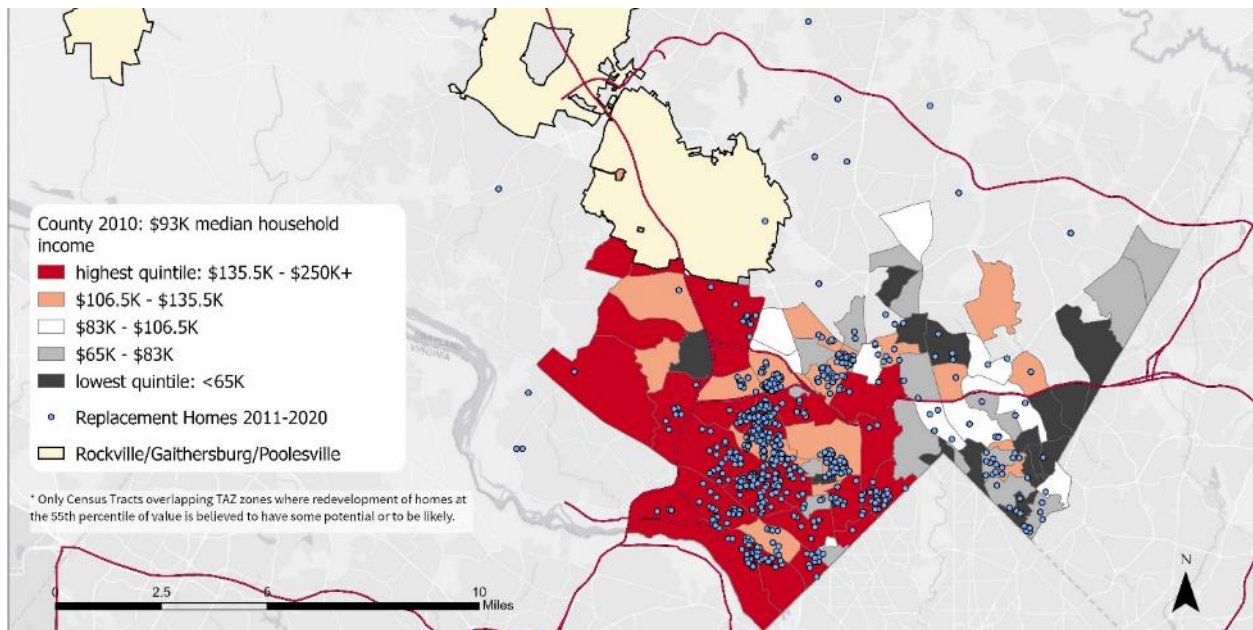


Figure C4. Median Household Income in 2010 by Census Tracts where Redevelopment of Homes at the 55th Percentile of Value has Potential or is Likely. Source: Census 5-year ACS data, Montgomery County Planning, Research & Strategic Projects

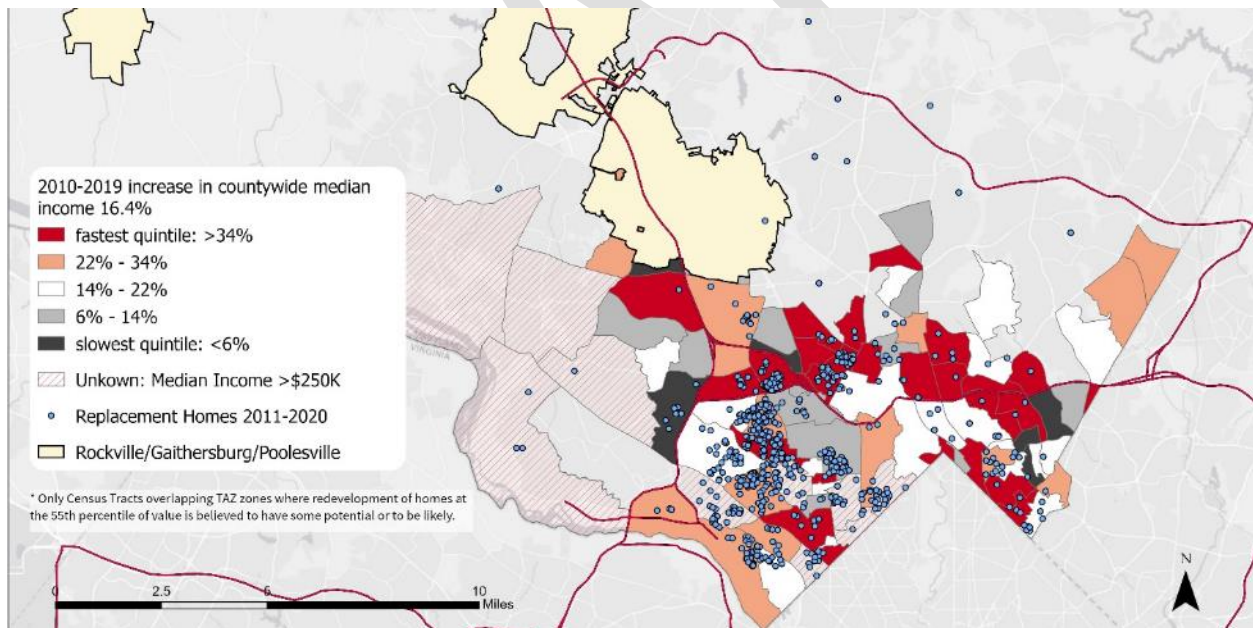


Figure C5. Change in Household Median Income 2010-2019 by Census Tracts where Redevelopment of Homes at the 55th Percentile of Value has Potential or is Likely. (Source: Census 5-year ACS data, Montgomery County Planning, Research & Strategic Projects)

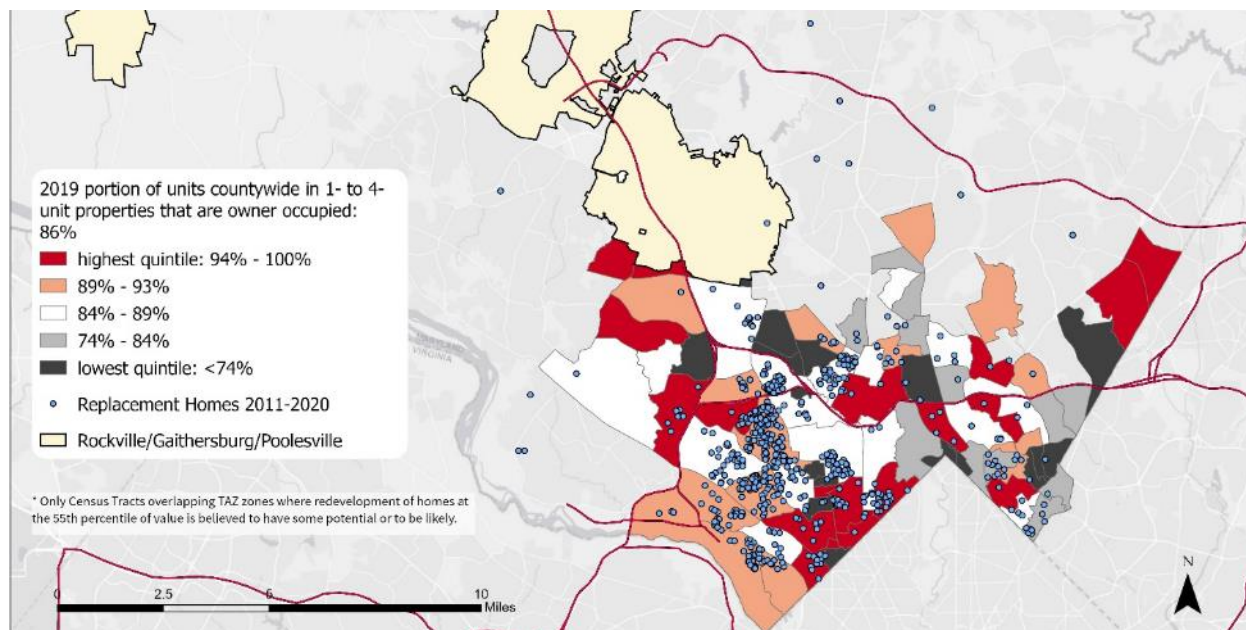


Figure C6. Proportion of Units in 1- to 4-Unit Properties That Are Owner-Occupied in 2019, by Census Tracts where Redevelopment of Homes at the 55th Percentile of Value has Potential or is Likely. (Source: Census 5-year ACS data, Montgomery County Planning, Research & Strategic Projects)

Staff also found that medium and large scale attainable housing are unlikely to cause gentrification for several reasons:

- there are only a small number of properties eligible for AHOM development in any neighborhood, making this type of development unlikely to generate neighborhood level demographic change;
- Eligible properties are not a source of lower-cost housing;
- A large proportion of properties abutting corridors are owner occupied, and thus there are few renters that development might displace.

Due to the small number of AHOM eligible properties compared to the entire stock of R-60 and R-90 homes, development of medium and large scale attainable housing is unlikely to perceptibly change the demographics of an entire neighborhood. There are approximately 2,380 R-60 and R-90 properties directly abutting the corridors, 2.6 percent of the approximately 89,000 R-60 and R-90 properties in the county. Within the TAZs with properties eligible for AHOM, such properties make up 4 percent of all properties with single-family homes. A portion of the neighborhood south of Randolph Road between Lindell street and Georgia Avenue has the highest proportion of properties eligible for AHOM at 19 percent.

R-60 and R-90 properties fronting the defined corridors are not a source of lower cost housing and thus middle and large scale attainable development is unlikely to remove a key source of relatively affordable homes. Staff evaluated the assessed value and sales from 2018 to 2020 of single-family homes in TAZs with properties eligible for AHOM and found little difference in value between properties fronting the corridors eligible for AHOM and properties with no frontage. The average assessed value of properties with corridor frontage was lower than the neighborhood average by 14 percent. However, 27 of the 75 TAZs with AHOM eligible properties had the average assessed value of properties fronting the corridor

exceeding the neighborhood average. Recent sales data from 2018 through 2020 produced a similar finding, with the average price of homes on the corridors sold in those years exceeding the neighborhood average sales price by 28 percent. 59 TAZs with AHOM eligible properties had the average sale price of homes fronting the corridor exceeding the neighborhood average, while in only 16 TAZs was the average sale price lower.

Lastly, existing homes fronting the defined corridors are not a key source of rental units thus few occupants could be displaced by development: approximately 2,000 of the 2,380 properties are owner occupied (84 percent), just somewhat lower than the proportion of all single-family properties (of any zone) in Montgomery County that are owner occupied (92 percent).

Property Assessment and Taxes

Planning staff spoke with a representative of the State Department of Assessment and Taxation (SDAT) on September 13, 2021 to fully understand the role of zoning on property assessments. Included in this report is a copy of the letter we received from SDAT regarding the potential zoning changes. Attachment 2 also includes a copy of the letter.

SDAT is responsible for assessing the value of property within the State of Maryland. Local County Governments and Municipalities then set their tax rates and apply it to our assessment valuations to generate property tax bills. Montgomery County is divided into three reassessment groups and currently reassesses each group on a three-year cycle, and SDAT analyzes market sales data during a reassessment cycle to determine the property's value change. We use verified sales for comparable properties of a similar use, type, and style that are in a comparable neighborhood or market area to determine the assessed values of properties. SDAT also reassesses properties out of cycle when they have had a use change or recent new construction resulting in an increase in assessment adding over \$100,000 in value.

If a property were to be redeveloped by plat and subdivide lots or were to change in use to create a multi-family unit on the parcel, the immediate change would only directly impact that particular parcel. However, if properties are acquired at lower or higher purchase prices over time and the comparable sales warrant a decrease or increase in the assessed value of those similar properties upon the next reassessment cycle, it may indirectly impact the assessments for similar properties in that market area. Property that is reassessed and is owner occupied and eligible for any applicable Homestead Tax Credits or Homeowners Tax Credits may continue to receive those credits.

In sum, the zoning code changes proposed by Montgomery County that are under consideration allowing for multiple living units or more development potential in single-family zones may or may not result in changed assessed value for properties subject to that change. SDAT can only follow the market trends after they occur. Local governments may offset any change in assessment by the implementation of their local property tax rates.

Similarly, based on conversations with Montgomery County's Office of Management and Budget, the tax rates applied by the county to the assessed values of residential properties are based on the actual use, not the potential use as allowed by zoning.

Trees

One of the themes in the correspondence about AHS is concern over loss of trees due to infill development. While the Planning Board is sympathetic to these concerns, the Board believes that any future analysis and action that looks at how to balance new infill development with the protection of tree canopy should not single out attainable housing typologies, but instead include all housing typologies, including replacement homes.

Adequate Public Facilities

Our analysis indicates that the amount of attainable housing built will have a limited and moderate impact on our housing supply and existing infrastructure. In addition, the Planning Board does not see the recommendations in AHS having a unique impact on public facilities that would require mitigation outside of our normal processes.

We currently have mechanisms to mitigate impact of new development through infrastructure impact fees for schools and transportation and through our Adequate Public Facilities Ordinance, the Growth and Infrastructure Policy. The purpose of the Growth and Infrastructure Policy (formerly Subdivision Staging Policy) is to establish a process that can give guidance on matters concerning land use development, growth management, and related issues. It includes guidelines for the Planning Board and other agencies in administering laws and regulations that affect the adequacy and timing of public facilities needed to support growth and development and is to be adopted by the Council every four years. We are currently looking at recommending that the 2024 update to the Growth and Infrastructure policy on water and sewer.

Market Feasibility

To support the development of the recommendations Montgomery Planning evaluated the market feasibility of constructing the attainable housing typologies proposed within established single-family neighborhoods. The following analysis builds upon and refines the findings from the market study for Missing Middle Housing that the staff presented in support of the [Silver Spring Downtown and Adjacent Communities Plan](#).

Replacement home builders are the only developers redeveloping existing single-family homes.

Replacement homes are the purchase of an existing house by a builder, the demolition of that existing house, and the construction of a replacement home that is then sold at a profit. Replacement homes are substantially larger and more expensive than the prior home that was demolished. Montgomery Planning identified 683 replacement homes built since the year 2011. The original homes averaged 1,500 gross square feet, while the replacement home averaged 3,730 gross square feet.¹⁹ Builders bought the properties for an average of \$640,000, and then sold the subsequent replacement homes for an average of \$1,635,000. This product is currently the primary redevelopment occurring within

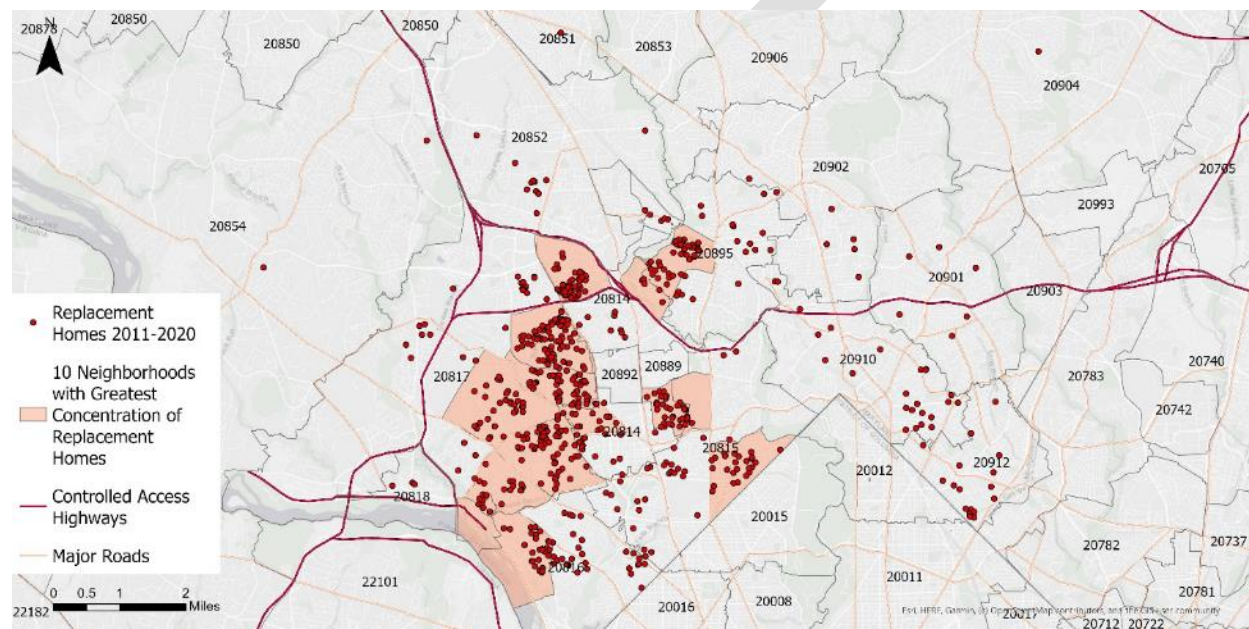
¹⁹ Calculations of gross square footage are taken from State Department of Assessments and Taxation (SDAT) data. SDAT does not include finished basements in the calculation of gross square footage while popular websites advertising home sales do. As a result replacement homes showcased on sites like Redfin or Zillow advertise substantially higher total square footage.

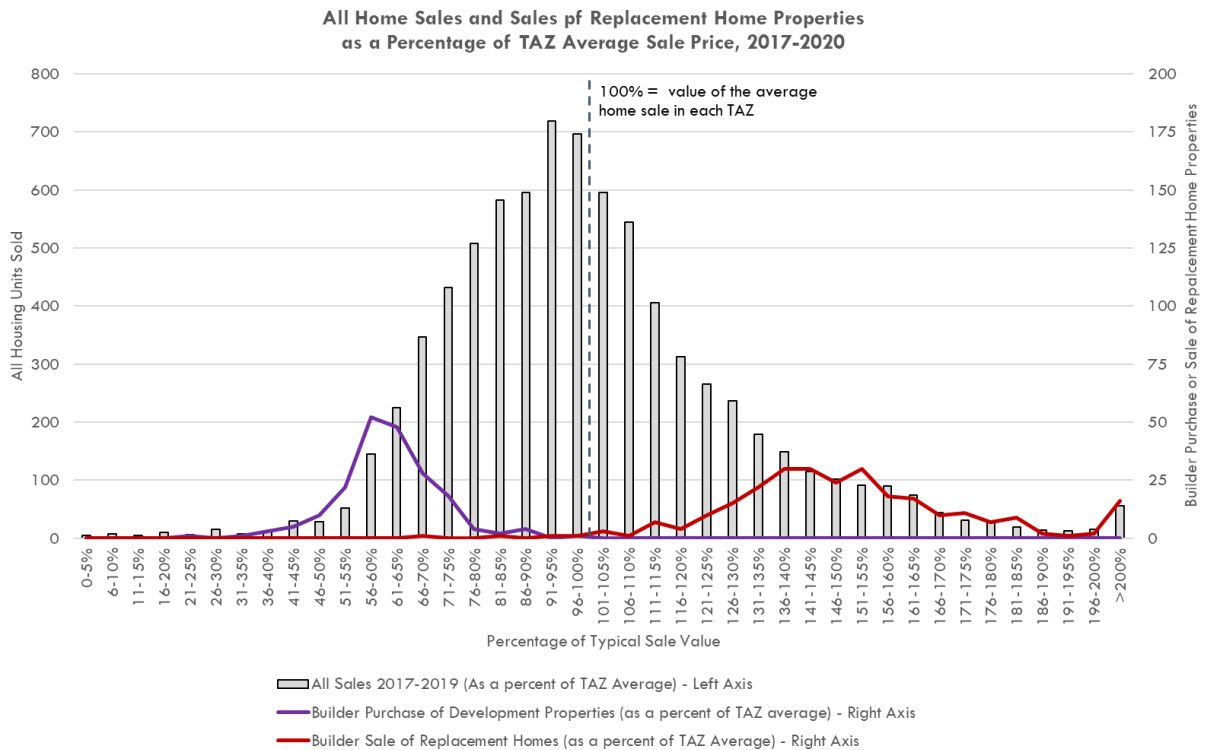
established single-family neighborhoods in Montgomery County. In order for multi-unit attainable housing to be feasible, it must be financially competitive with the replacement home industry.

The replacement home industry targets the lower cost and most attainable properties in high demand neighborhoods and converts them into the highest cost properties.

In each neighborhood the existing homes that are most attainable are ripe for replacement and there is an active industry replacing them. Under the current zoning and in the current market conditions the only option is to replace them with large single-family homes that are expensive and not attainable.

The replacement home industry centers on Chevy Chase, Bethesda, Kensington, and Silver Spring/Takoma Park (see below map).





Within the 10 neighborhoods with the greatest concentration of replacement homes built since 2010, this trend is even more pronounced: replacement home builders acquired 35 percent or 121 of 349 properties that sold for between 30 and 70 percent of average sales price from 2017 to 2019. New replacement homes accounted for 42 percent or 153 of 367 properties that sold for greater than 130 percent of the average sales price in these neighborhoods between 2017 and 2019.

These data indicate that while the replacement home industry is relatively small in comparison to the entire number of housing units in Montgomery County, it is resulting in a significant and meaningful loss of the most attainable single-family properties.

Attainable housing development is feasible; growth will be incremental

The Montgomery County Planning Department finds that the production of attainable housing will be incremental, with what is likely a small number of units built each year. This finding aligns with the Missing Middle market study presented to the Planning Board on March 4 which found that development of smaller and/or less dense multi-unit properties would be unlikely to generate enough value to justify the purchase and redevelopment of homes of average value in many neighborhoods.

Some critics of attainable housing have seized on this finding to claim that it would be impossible to build such development and that therefore the effort is not worthwhile. However, unlikely is not the same as impossible.

More importantly, staff's subsequent analysis of the replacement home industry highlights that the industry does not target *average* value homes, but rather the few homes of substantially reduced value. The Missing Middle market study (March 2021) did find that house-sized attainable housing would generate enough value to potentially purchase and redevelop properties in the 30 to 70 percent of average value range meaning that some level of development would be feasible. However, as is noted above, there are not many properties that sell within this price range which means that attainable housing development, while feasible, will be incremental and a small portion of the county's housing supply.

Small increases in housing supply will not solve Montgomery County's housing crisis but are nonetheless important and necessary:

- Even one attainable unit built is a positive step in the right direction and is needed as part of Montgomery County's larger strategy to address the housing crisis;
- The development of attainable homes will be incremental, so efforts started today will build over time;
- Enabling development of smaller and more attainable units is essential from an equity perspective and to enable more people to access Montgomery County's highest-opportunity neighborhoods.

The impact of incremental attainable housing to the mix of housing types and infrastructure would be manageable

A benefit of incremental development is that the impact to the existing character and infrastructure of established single-family neighborhoods would be manageable. Montgomery Planning forecasts that the market for house-scale attainable housing will be a small portion of the existing market for replacement homes. It is impossible to estimate or model in advance the precise size of the attainable housing market because no builder in the region has redeveloped existing single-family homes into duplexes, triplexes, or quadplexes in many decades. As high-level benchmarks, staff considered a scenario in which 5 percent of replacement homes instead became multi-unit attainable housing properties, and a more ambitious scenario in which multi-unit attainable housing properties were 30 percent of the replacement home market. These modest scenarios align with input from members of the HEAT involved in real estate sales and development who stated that while this effort is important, they did not believe that many attainable properties would be built in the initial years after passage of the policy.

Examining closely one neighborhood with a notable concentration of replacement homes demonstrates the limited impact to the mix of housing types and infrastructure of allowing the development of multi-unit attainable properties. The neighborhood highlighted below is a portion of TAZ 679 in Kensington. While other neighborhoods in Bethesda and Chevy Chase are better known as the center of the replacement home market, TAZ 679 has one of the most dense concentrations of replacement homes built since 2011: there are 27 replacement homes in the 8 to 10 blocks shown on the below map and 50 built in the entire TAZ. The following graphic shows the replacement homes built since the year 2011, the price the builder received for the replacement home, and the cost they paid for the old house (in parentheses). Statistics for the replacement home industry and housing market for this neighborhood are shown to the right of the map.

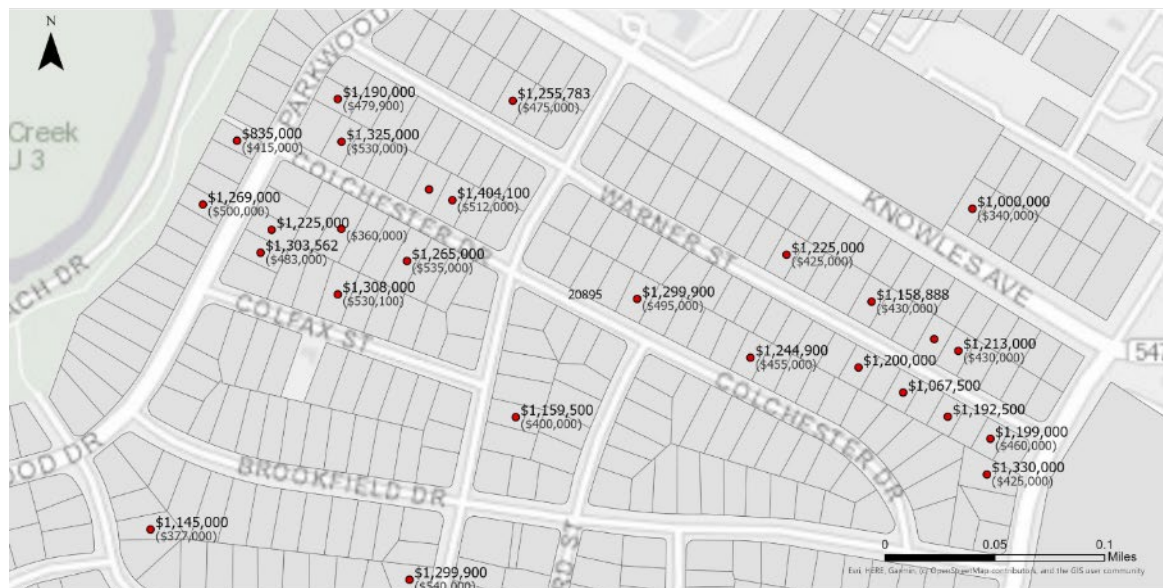


Figure C9. Map of a portion of the Kensington neighborhood showing the new replacement homes built between 2011 and 2020, the price those homes sold for, and the price the builder originally acquired the property at (in parentheses). Statistics of the housing market and custom home market in this TAZ are on the right of the graphic.

If 5 percent of replacement homes built over 10 years had instead become multi-unit attainable housing properties, it would have resulted in one or two properties converting to multiple units in the entire 10-block area shown. At 30 percent it would result in 8 properties converting, which is still less than one multi-unit attainable property per block over a 10-year period. Within the map in Figure C10, the stars symbolizing attainable multi-unit properties have been placed randomly over replacement homes to give a sense of the potential scale.

$$5\% \text{ of } 27 = 1 - 2 = \text{★}$$

$$30\% = 8 = \text{★} + \text{★}$$

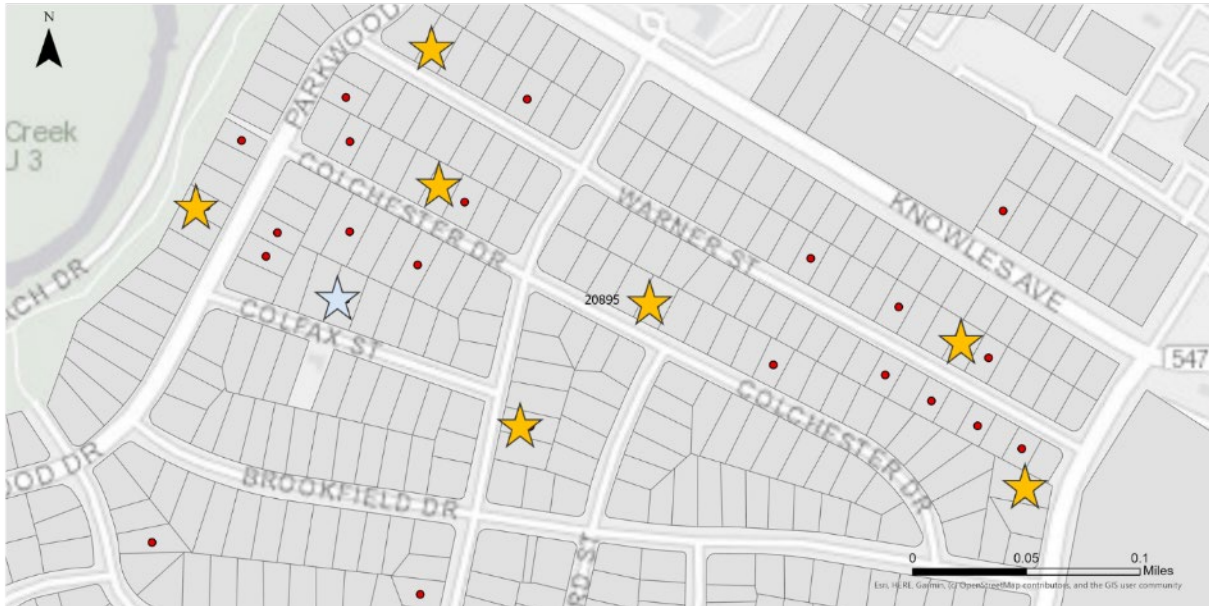


Figure C10. Map of a portion of the Kensington neighborhood showing a hypothetical scenario in which 5% of the 27 replacement homes built between 2011 and 2020, 1 to 2 properties, were instead multi-unit attainable housing properties, and a scenario in which 30%, 8 properties, were instead multi-unit attainable housing.²⁰

²⁰ Montgomery Planning presented a different version of this graphic at the third AHS community meeting on 6/2/2021 that included data from 2000 to 2021. As Planning staff detailed at the meeting and on those slides, that presentation was missing data from 2002 to 2004, 2014, and 2016 which depressed the total number of identified new replacement homes. Planning staff was able to fix the data error for 2014 and 2016 and decided to adjust the time period of analysis to 2011 to 2020. This resulted in a slight adjustment to the number of new replacement homes and as a result the number of multi-unit attainable housing properties in the 5% and 30% scenarios.

Appendix D: Other Jurisdictions

[To be included in a future report draft.]

DRAFT

Appendix E: Letter from SDAT



Larry Hogan, Governor · Boyd K. Rutherford, Lt. Governor · Michael L. Higgs, Jr., Director

October 19, 2021

To Whom It May Concern:

Recently, the Montgomery County Real Property office for the Maryland Department of Assessments and Taxation (SDAT) has been questioned about the potential impact on assessment values related to proposed zoning code changes for land use in Montgomery County. However, SDAT cannot make assumptions or predictions regarding assessment outcomes related to of any kind of zoning code changes being considered by the Montgomery County Planning Department.

SDAT is responsible for assessing the value of property within the State of Maryland. Local County Governments and Municipalities then set their tax rates and apply it to our assessment valuations to generate property tax bills. Montgomery County is divided into three reassessment groups and currently reassesses each group on a three-year cycle, and SDAT analyzes market sales data during a reassessment cycle to determine the property's value change. We use verified sales for comparable properties of a similar use, type, and style that are in a comparable neighborhood or market area to determine the assessed values of properties. SDAT also reassesses properties out of cycle when they have had a use change or recent new construction resulting in an increase in assessment adding over \$100,000 in value.

If a property were to be redeveloped by plat and subdivide lots, or were to change in use to create a multi-family unit on the parcel, the immediate change would only directly impact that particular parcel. However, if properties are acquired at lower or higher purchase prices over time and the comparable sales warrant a decrease or increase in the assessed value of those similar properties upon the next reassessment cycle, it may indirectly impact the assessments for similar properties in that market area. Property that is reassessed and is owner occupied and eligible for any applicable Homestead Tax Credits or Homeowners Tax Credits may continue to receive those credits.

In sum, the zoning code changes proposed by Montgomery County that are under consideration allowing for multiple living units or more development potential in single-family zones may or may not result in changed assessed value for properties subject to that change. SDAT can only follow the market trends after they occur. Local governments may offset any change in assessment by the implementation of their local property tax rates.

Montgomery County Office of Assessments
30 West Gude Drive, Suite 400, Rockville, MD 20850
Email: sdatt.mont@maryland.gov

240-314-4510 (Phone) 1-800-552-7724 (MD Relay) 301-424-3864 (Fax) 410-314-4530 (Commercial)



Larry Hogan, Governor · Boyd K. Rutherford, Lt. Governor · Michael L. Higgs, Jr., Director

I hope this information is useful for the Montgomery County Department of Planning. Please do not hesitate to contact me should your team have additional questions or concerns.

Regards,

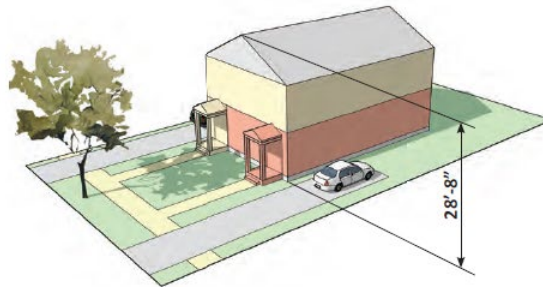
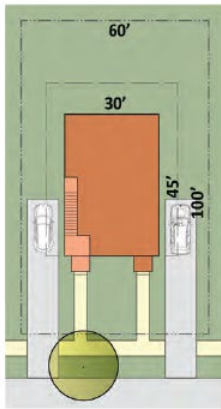
A handwritten signature in black ink that reads "Ava M. Garvey".

Ava McIntyre-Garvey
Supervisor of Assessments
Montgomery County

Montgomery County Office of Assessments
30 West Gude Drive, Suite 400, Rockville, MD 20850
Email: sdat.mont@maryland.gov

240-314-4510 (Phone) 1-800-552-7724 (MD Relay) 301-424-3864 (Fax) 410-314-4530 (Commercial)

Appendix F: Attainable Housing Typologies Modeling

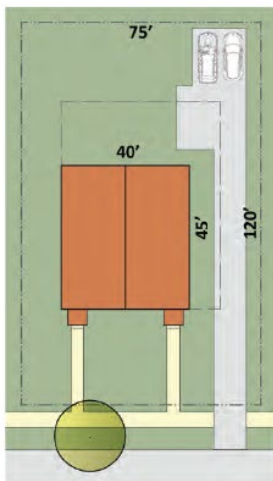


Duplex (Stacked Flats)

Lot Size:	6,000 sf
Building Footprint:	1,350 sf
Lot Coverage:	22.5%
Unit Size:	1,225 sf each
Parking:	1.0 space per unit



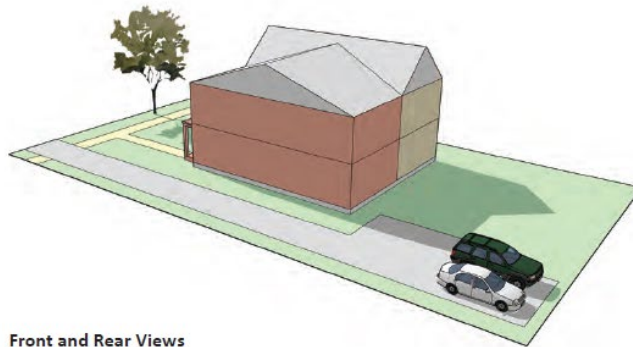
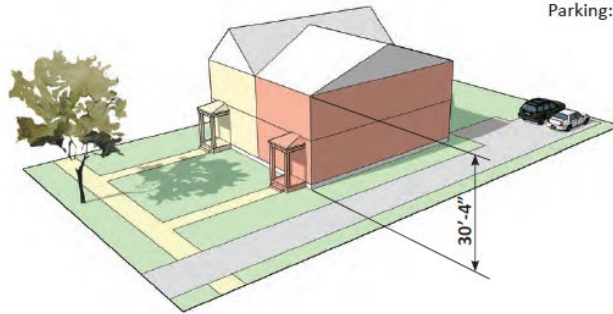
Front and Rear Views



Site Plan

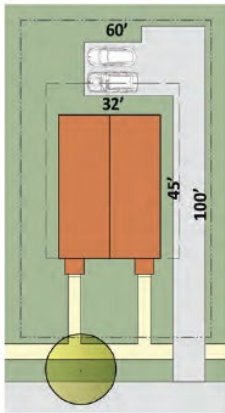
Duplex (Side by Side)

Lot Size:	9,000 sf
Building Footprint:	1,800 sf
Lot Coverage:	20%
Unit Size:	1,800 sf each
Parking:	1.0 space per unit



Front and Rear Views

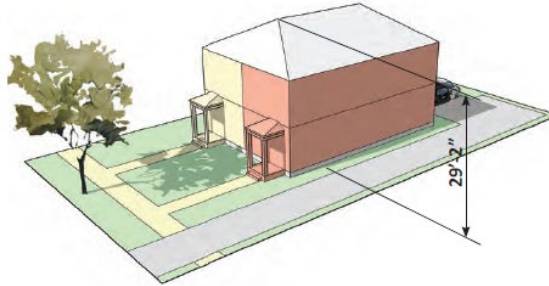
DK



Site Plan

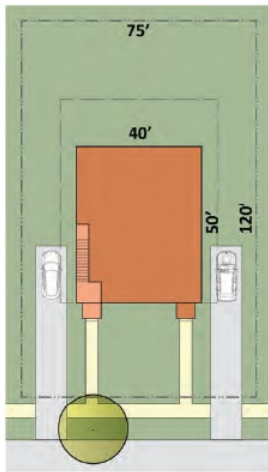
Duplex (Side by Side)

Lot Size:	6,000 sf
Building Footprint:	1,440 sf
Lot Coverage:	24%
Unit Size:	1,440 sf each
Parking:	1.0 space per unit



Front and Rear Views

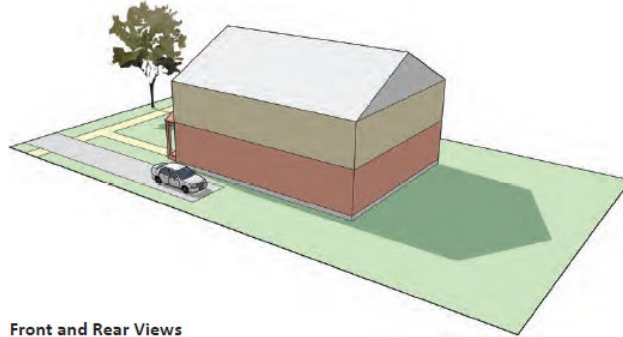
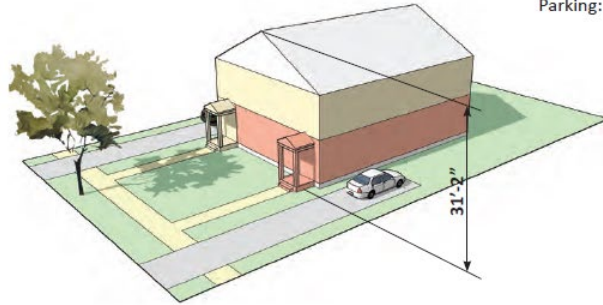
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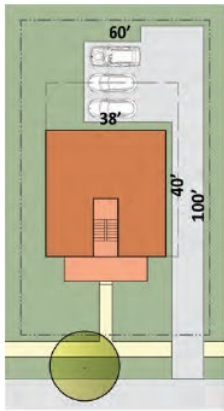
Site Plan

Duplex (Stacked Flats)

Lot Size:	9,000 sf
Building Footprint:	2,000 sf
Lot Coverage:	22.22%
Unit Size:	1,874 sf each
Parking:	1.0 space per unit



Front and Rear Views



Site Plan



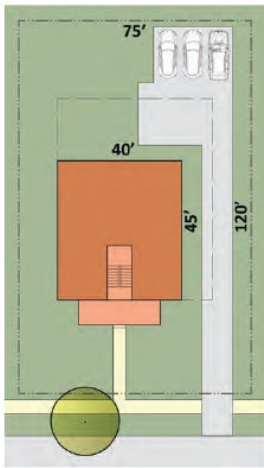
**Triplex (Flat Below/
Side by Side Above)**

Lot Size:	6,000 sf
Building Footprint:	1,520 sf
Lot Coverage:	25.33%
Unit Size:	1,374 sf (1st fl.) 1,265 sf (2nd/3rd fl.)
Parking:	1.0 space per unit



Front and Rear Views

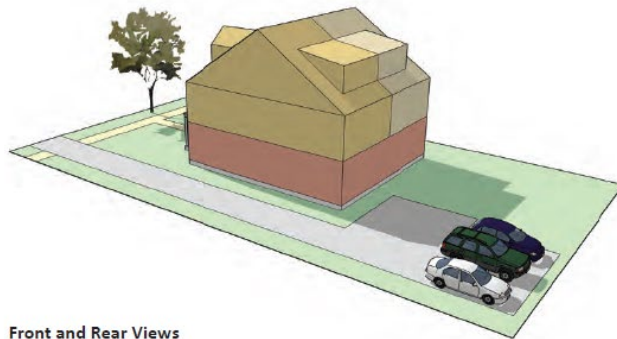
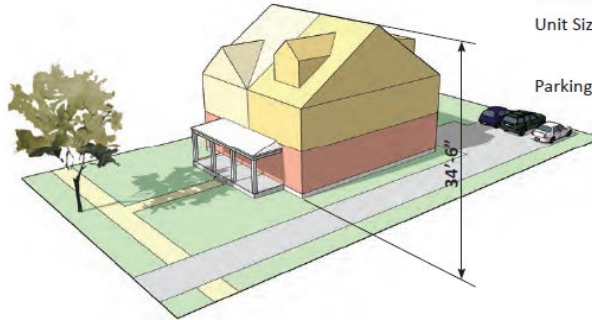
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Site Plan

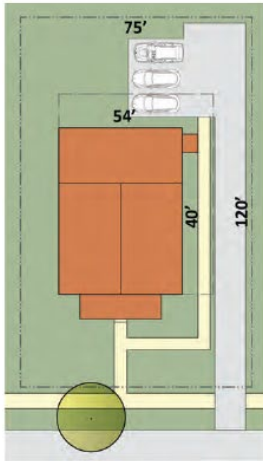
Triplex (Flat Below/ Side by Side Above)

Lot Size:	9,000 sf
Building Footprint:	1,800 sf
Lot Coverage:	20%
Unit Size:	1,660 sf (1st fl.) 1,540 sf (2nd/3rd fl.)
Parking:	1.0 space per unit



Front and Rear Views

DK



Site Plan

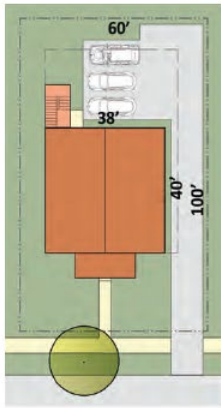
**Triplex (Side by Side on Front/
Unit in Back)**

Lot Size:	9,000 sf
Building Footprint:	2,160 sf
Lot Coverage:	24%
Unit Size:	1,400 sf each
Parking:	1.0 space per unit

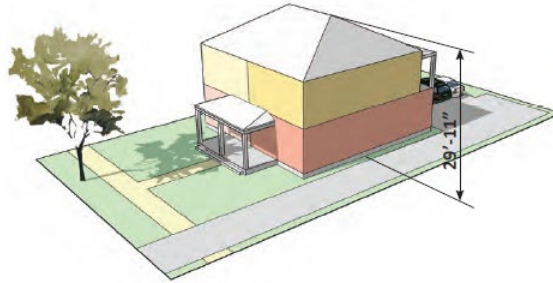


Front and Rear Views

OK



Site Plan



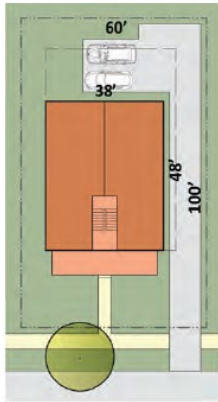
Quadplex (External Staircase)

Lot Size:	6,000 sf
Building Footprint:	1,596 sf
Lot Coverage:	26.6%
Unit Size:	760 sf each (1st fl.) 665 sf each (2nd fl.)
Parking:	0.75 space per unit

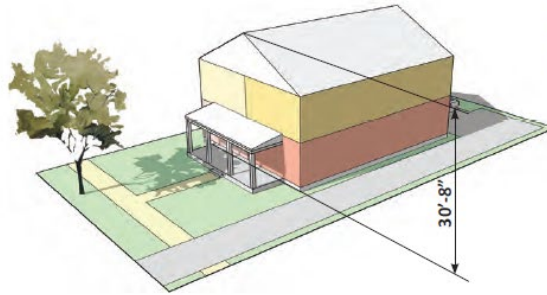


Front and Rear Views

DR



Site Plan



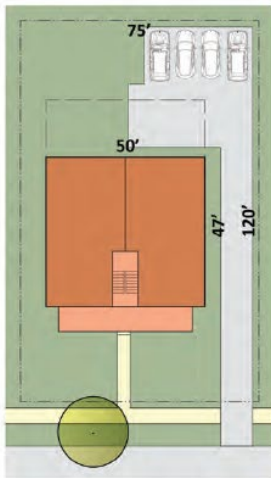
Quadplex (Internal Staircase)

Lot Size:	6,000 sf
Building Footprint:	1,824 sf
Lot Coverage:	30.4%
Unit Size:	842 sf each
Parking:	0.50 space per unit



Front and Rear Views

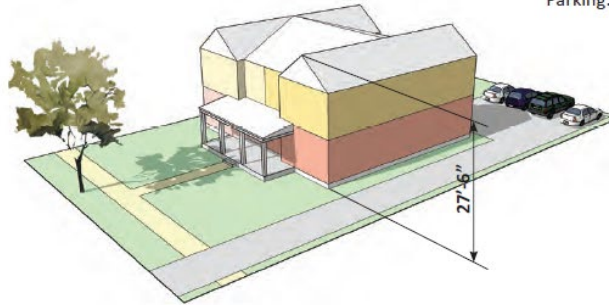
DK



Site Plan

Quadplex (Internal Staircase)

Lot Size:	9,000 sf
Building Footprint:	2,350 sf
Lot Coverage:	26.11%
Unit Size:	1,105 sf each
Parking:	1.0 space per unit



Front and Rear Views

DE

Appendix G: Change in Attainability by Zip Code (1996-2019)

[To be included in a future report draft.]

DRAFT

Appendix H: Draft Zoning Modifications

[To be included in a future report draft, following Planning Board review in January 2022.]

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