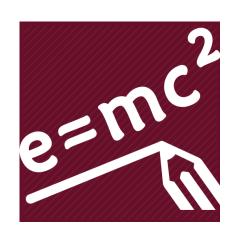
Visualizing Development Density / Intensity

Lorton Visioning November 23, 2020

Planning Terms



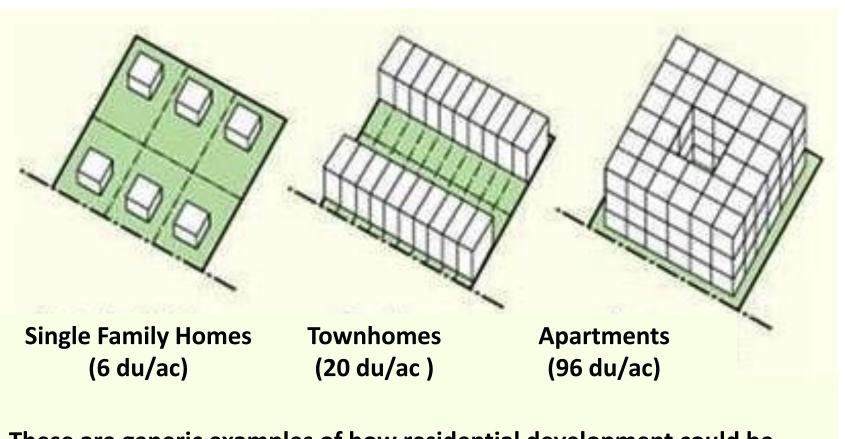
Density, Intensity and F.A.R.

Terms used to talk about "how much" development.

Do not tell you about what development will look like

(the form of development)

Residential Use <u>Density</u>



These are generic examples of how residential development could be achieved at three different density levels on a 1-acre parcel.

Nonresidential Use Intensity = Floor Area Ratio (FAR)

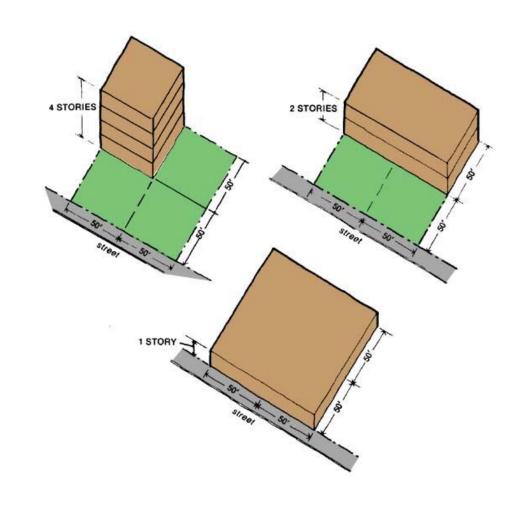
The floor area of the building is divided by the land area to calculate the FAR.

FLOOR AREA (sq. ft.)

LAND AREA (sq. ft.)

EXAMPLE:

100,000 sq. ft. of building 100,000 sq. ft. of land = 1.0 FAR



Density/Intensity Matrix: Fairfax County Examples

Example	Density/
Intensity	Chart

CATEGORY	LAND USE	AVG. DENSITY/FAR	EXAMPLES	
Low Density	Single Family Detached	0.1 - 4 du/ac		
Medium Density	Townhome Urban Townhome Low-Rise Multifamily (3 story)	5-12 du/ac 12-25 du/ac 20-30 du/ac		
High Density	Mid-Rise Multifamily (4-5 stories) Mid-Rise Multifamily w/Podium (6-7 stories)	40-80 Du/ac		

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Residential

മ	Low Intensity	Village Center	1.0 FAR	
Mixed-Use	Medium Intensity	Mid-Rise Retail/Residential	1.3 FAR	
	High Intensity	Mid-Rise Office/Residential/Retail	1.8 FAR	

Residential Building Types

Urban Townhomes



Density Range

(dwelling units per acre)

4.5 du/ac

Low

16 du/ac

12 du/ac

Zero-Lot-Line Single Family



Medium

Stacked Townhomes (2-over-2)



Mid-Rise Residential Over Retail



63 du/ac

72 du/ac

High

Mid-Rise Multifamily



Mixed-Use Building Types

Mixed-Use Residential/Retail



Intensity Range (floor area ratio)

1.0 FAR

1.3 FAR

1.8 FAR

Low

Medium

Mixed-Use Village Center



High

Mixed-Use Office/Residential/Retail



Detailed Fairfax County Case Studies

Residential – Lower Density 4.5 du/ac

Tower Hill

S. Van Dorn St., Alexandria, VA

- 75 Single Family Detached Homes
- 16.8 acres, Zoned PDH-4 (C-448)
- Approx. 35% Open Space
- Planning Area: Lehigh Planning Sector
- Land Use Recommendation: Residential 3-4 du/ac

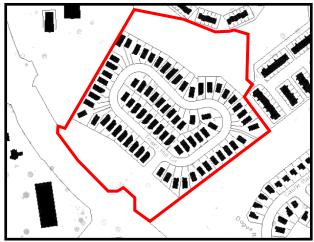
Building type:

"Zero-Lot-Line" Single Family Detached

Parking type:

• Individual 2-car garages







Residential – Lower Density 10 du/ac

Sunrise Square

Roland Clarke Place, Reston, VA

- Urban Townhome/Multifamily Community
- 4.6 acres, Zoned PDH-12 (RZ 2015-HM-012)
- 34 Urban Townhomes
- 10 Low-rise multifamily units
- 37% Open Space
- Planning Area: Wiehle-Reston East TSA
- Land Use Recommendation: Office or residential, 30 du/ac residential planned community

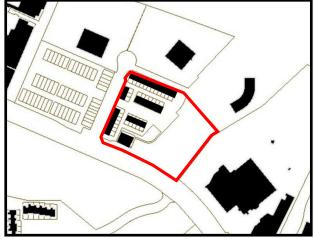
Building type:

- 4-story urban townhome (47' height)
- 3-story multifamily building

Parking type:

- Individual 2-car townhome garages
- Surface parking for multifamily







Residential – Medium Density 27 du/ac (0.9 FAR)

Centerpointe III

4000 Legato Rd., Fairfax, VA

- 90 Mid-Rise Multifamily Residential Units
- 120 Urban Townhomes
- 7.9 acres, Zoned PDC (PCA 87-P-052-02)
- 32% Open Space
- Planning Area: Fairfax Center Suburban Center
- Land Use Recommendation: Residential Mixed-Use Option to 1.4 FAR

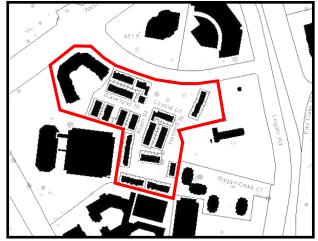
Building type:

- 4-story urban townhomes (50' height)
- 4-story mid-rise residential over podium (60' height)

Parking type:

- Individual townhome garages
- Underground parking for multifamily
- Some on-street parking







Residential – Medium Density w/Retail 47 du/ac (1.3 FAR)

Belvoir Square

9142 Richmond Hwy., Fort Belvoir, VA

- Mid-Rise Multifamily Residential w/ground-floor retail/commercial
- 6.0 acres, Zoned PRM (RZ 2012-MV-007)
- 283 Mid-rise multi-family units
- 25,000 sf retail/commercial
- Residential Density: 47 du/ac (w/affordable bonus)
- 30% Open Space
- Planning Area: Ft. Belvoir Community Planning Sector
- Land Use Recommendation: Residential Mixed-Use Option 30-40 du/ac

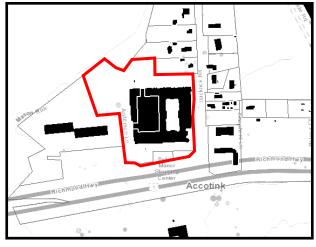
Building type:

- Mid-rise multifamily
- 5 stories (60' max height)

Parking type:

Wrapped internal parking structure







Residential – High Density 72 du/ac (1.7 FAR)

The Shelby

6200 North Kings Hwy., Alexandria, VA

- Mid-Rise Multifamily Residential
- 3.4 acres, Zoned PRM (RZ 2011-LE-016)
- 245 multifamily units
- 28% Open Space
- Planning Area: Penn Daw Community Business
 Center
- Land Use Recommendation: Residential Mixed-Use
 Option to 1.4 FAR

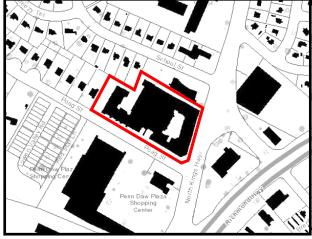
Building type:

• 3-4-story multifamily building (50' max. height)

Parking type:

- "Wrapped" structured parking
- Some on-street parking on Poag St.







Mixed-Use Village Center 1.0 FAR

Woodland Park Crossing

12960 Highland Crossing Dr., Herndon, VA

- Retail/commercial w/grocery store and multifamily residential
- 8.2 acres, Zoned PDC (RZ 03-HM-046)
- 143,000 sf commercial retail (including 50k sf grocery)
- 230 Mid-rise multi-family units
- Residential Density: 28 dwelling units per acre
- Open space shared w/larger development
- Planning Area: Reston/Herndon Suburban Center
- Land Use Recommendation: Commercial office, hotel, or mixed-use to 0.70 FAR

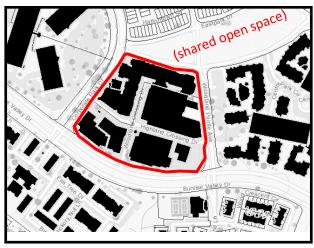
Building type:

- 2-Story "village" retail/commercial
- 4-story mid-rise residential over ground-floor retail/commercial
- Urban grocery w/structured parking above

Parking type:

- Structured (both above and below grade)
- On-street parking
- Limited surface parking for large uses







Mixed-Use Retail/Residential 1.3 FAR

South Alex

6224 North Kings Hwy., Alexandria, VA

- Mid-Rise Multifamily Residential & townhomes,
 w/grocery store, retail and restaurants
- 10.45 acres, Zoned PDH-40 (RZ 2013-LE-008)
- 400 Mid-rise multi-family units
- 41 Townhomes
- 45,000 sf non-residential uses (including 25,000 sf grocery store)
- Residential Density: 42 dwelling units per acre
- 32% Open Space
- Planning Area: Richmond Hwy Corridor Area
- Land Use Recommendation: Mixed-Use Option

Building type:

- Mid-rise w/ground-floor retail
- 5 stories (65' max height)
- 3-story townhomes

Parking type:

- Wrapped internal parking structure
- Small surface parking lot w/41 spaces

Additional Information:

 Small surface parking lot can be closed to extend the plaza during special events.







Mixed-Use Office/Residential/Retail (Office unbuilt) 1.8 FAR

The Beacon of Groveton

6852 Richmond Hwy, Alexandria, VA

- Mid-Rise Multifamily Residential w/ground floor commercial and structured parking
- 4.59 acres, Zoned PRM (RZ 2004-LE-012)
- 290 Mid-rise multi-family units (289,000 SF)
- 20,000 SF of Retail and Supporting Commercial uses
- 51,000 SF of approved but unbuilt Office use
- Residential Density: 63 dwelling units per acre
- 20% Open Space
- Planning Area: Beacon/Groveton CBC
- Land Use Recommendation: Office with mixed-use option

Building type:

- 5-story mid-rise residential over 2-story podium
- 85' max height

Parking type:

- Structured underground parking
- Some on-street parking

Additional Information:

• 27,515 SF pocket park is the interim use on office pad until the office use is built.







Town Center Visual Preferences – Building Scale and Mass, Character Study

1-2 story Regional Center | primarily retail, pedestrian promenade, central square



Stonebridge at Potomac Town Center



2-3 story mixed use | main street format



2-3 story mixed use | main street format





3-4 story mixed use | urban village



3-4 story mixed use | main street concept





5-6 story mixed use | main street concept



5-6 story residential with ground-floor retail





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Mixed-use infill | central programmable space



Omaha example



Indigo Ridge



A rendering of the future entrance to Indigo Ridge North's Village District.

Large scale development



Plan view of town center



Aerial view



Lorton Visioning Opportunity Sites "Core Area" Summary

November 23, 2020

