

June 1, 2022
PLANNING COMMISSION



Why are we creating Residential Objective Standards?

Recent State Law

- Housing Accountability Act (2017)
- SB 35 (2017) Streamlining for Affordable Development
- SB 330 (2019), SB 8 (2021) Housing Crisis Act
- 2021 Housing Bills, including SB 9, SB 478

City Council Referrals

- Housing Accountability Act (2017)
- Missing Middle Housing (2019)
- Eliminate Exclusionary Zoning (2021)

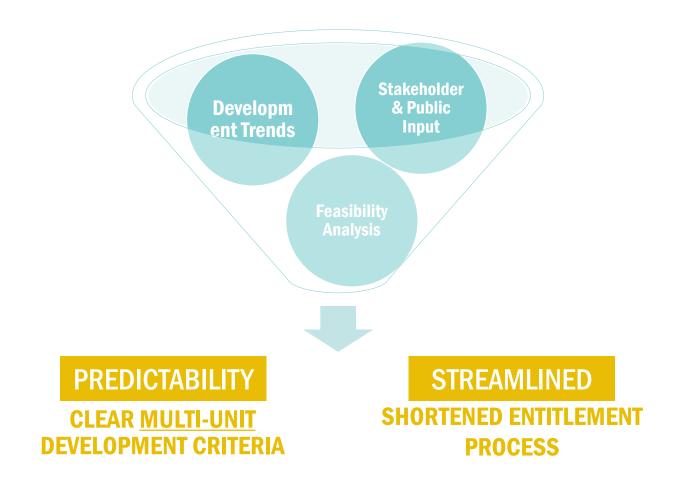
Housing Element

- Plan for 8,934 new units between 2023-2031
- Housing Program to encourage Middle Housing



ENCOURAGE HOUSING PRODUCTION

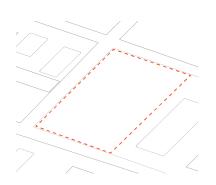
What is the goal of the project?



A Two-Part Process

PART 1 – OBJECTIVE <u>DEVELOPMENT</u> STANDARDS

WE ARE HERE (2021 to 2023)

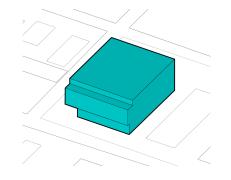


SITE

Lot Size

Coverage

Setbacks



FORM/MASSING

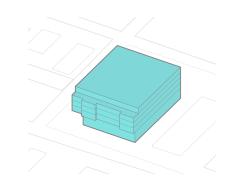
Density (units/acre)

Floor Area Ratio (FAR)

Height

PART 2 – OBJECTIVE <u>DESIGN</u> STANDARDS

2023 to 2025 %







FACADE

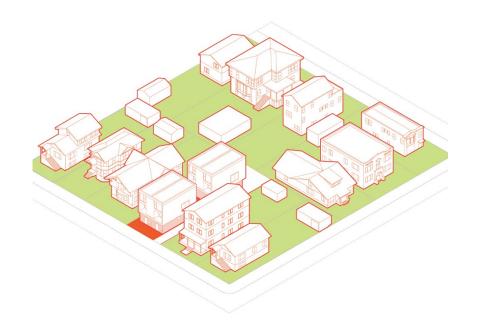
Objective Standards Framework

HOUSING FLEMENT

MIDDLE HOUSING

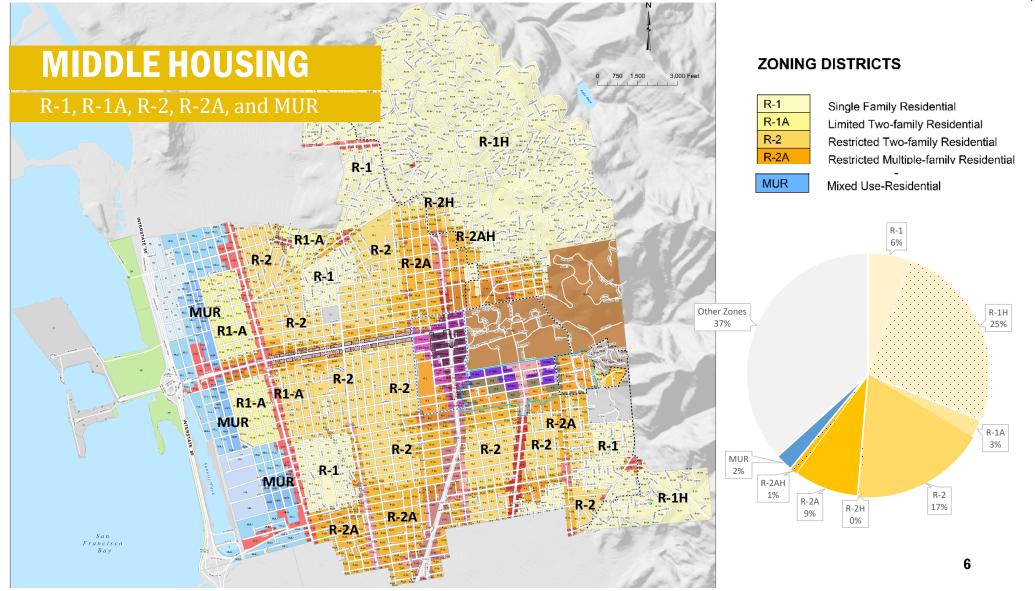
HIGHER DENSITY







Item 9 - Presentation Planning Commission June 1, 2022



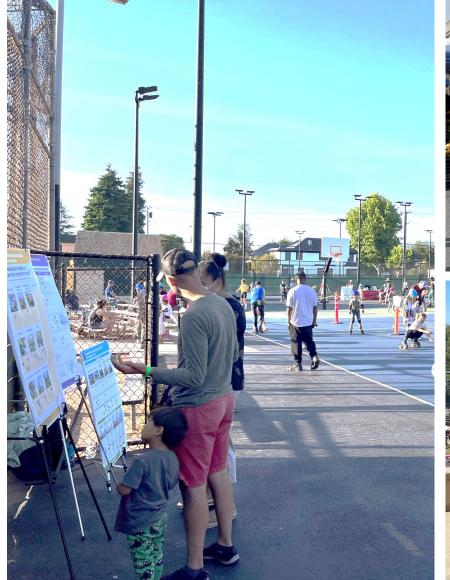
Agenda – Middle Housing Development Standards

- 1. What We've Heard (Public Engagement, ZORP, and Council)
- 2. Recommended Standards
- 3. Solar Modeling
- 4. Discussion

WHAT WE'VE HEARD

- 1. Community Engagement
- 2. Council and ZORP feedback

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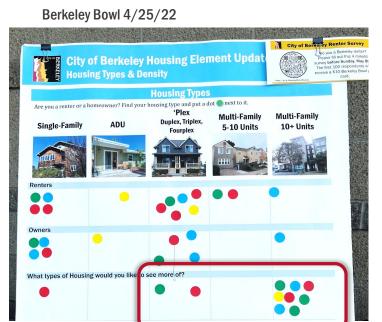








"What type of housing would you like to see more of?"







Poppin Skate Party 5/19/22



Desire for a mix of housing types and higher density living

Council and ZORP feedback

ZORP Subcommittees (12/15 & 2/16)

Encourage smaller units that are "affordable by design"

Permitting more density while discouraging financial speculation

Balance protecting solar access and allowing higher densities

City Council (3/15)

Consider merging zoning districts

Permit higher density equitably throughout the City, including consideration of the Hillside Overlay

Incentive for adaptive reuse and smaller, more affordable units, allow more than four units

Embrace climate adaption, but solar access should not be a barrier to creating more housing

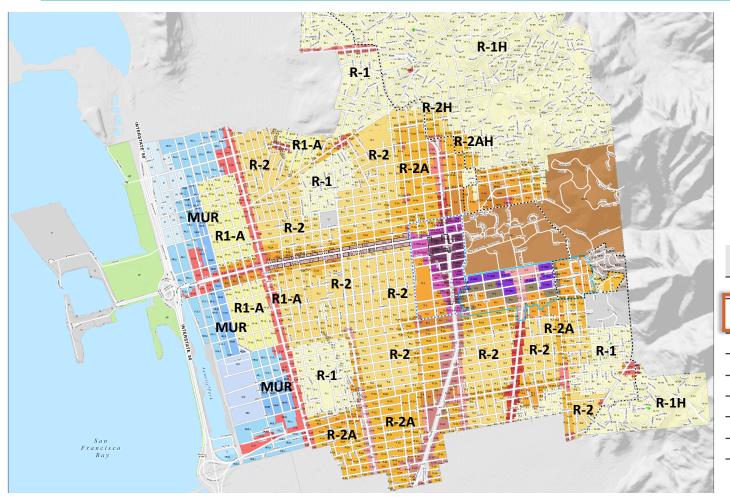
PRELIMINARY DEVELOPMENT STANDARDS

- 1. Merging Zoning Districts
- 2. Allowed Uses & Permits Required
- 3. Min and Max Density (Units per Acre)
- 4. Max Floor Area Ratio (FAR)
- 5. Min Open Space
- 6. Max Height
- 7. Min Lot Coverage & Setbacks
- 8. Min Separation

NOT A BLANK SLATE

- Existing Standards
- Development Patterns
- City Council Referrals
- State Laws
- Environmental/Social/Economic/ Demographic Factors

Consider Merging Zoning Districts



ZONING DISTRICTS

ı	R-1	Single Family Residential				
I	R-1A	Limited Two-family Residential				
L	R-2	Restricted Two-family Residential				
	R-2A	Restricted Multiple-family Residential				
	MUR	- Mixed Use-Residential				

General Plan Land Use Classification	Compatible Zoning District
Low Density Residential	R-1, ES-R
Low Medium Density Residential	R-1A, R-2
Medium Density Residential	R-2A, R-3
High Density Residential	R-4, R-5, R-S, R-SMU
Neighborhood Commercial	C-N, C-E C-NS C-SA C-SO
Avenue Commercial	C-C C-U C-T C-W, C-AC
Downtown	C-DMU
Mixed Use-Residential	MU-R

Minimum & Maximum Density (Units per Acre)

	R-1	R-1H	R-1A	R-2	R-2H	R-2A	R-2AH	MU-R
Min. Density (du/ac)	10	No min.	1	.0	No min.	20	No min.	20
Max. Density (du/ac)	25	20	3	5	20	55	55	55

Resulting units on a 5,000 sf lot...

Min. # Units	1	No min.	1	No min.	2	No min.	2
Max. # Units	3	2	4	2	6	6	6
Max ADUs	1 or 2*						

- More than 1 detached dwellings → max 1 ADU
- Duplex or attached multi-family dwellings \rightarrow max 2 detached ADUs or 1 converted ADU

Note: Minimum densities would apply for new development on a vacant lot or redevelopment of a nonvacant lot. 14

^{*}ADUs allowed per https://berkeley.municipal.codes/BMC/23.306

Density - Examples











1028-1030 Grayson Street





1744-1756 10th Street

Maximum Floor Area Ratio (FAR)

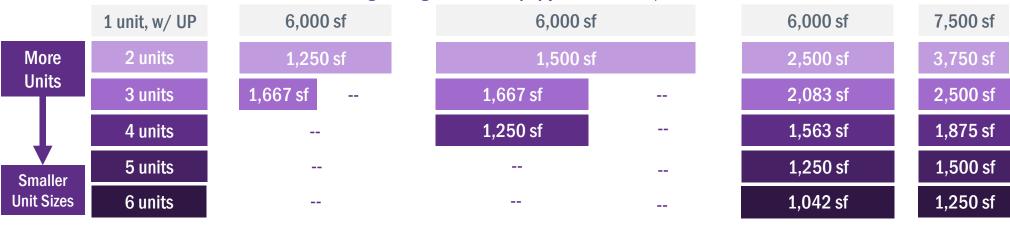
	R-1	R-1H	R-1A	R-2	R-2H	R-2A	R-2AH	MU-R
1 unit or nonresidential	1.2		1.2		1.2		1.5	
2 units	0.5		0.6		1.0		1.5	
3-7 units	1.0		1.0		1.2	25	1.5	
8 + units	1.25		1.25		1.	.5	1.75	



Encourage smaller unit sizes

	R-1	R-1H	R-1A	R-2	R-2H	R-2A	R-2AH	MU-R
1 unit or nonresidential	1.2		1.2		1.2		1.5	
2 units	0.5		0.6			1.0		1.5
3-7 units	1.0		1.0		1.3	25	1.5	
8 + units	1.25		1.25		1.5		1.75	

Resulting average floor area (sf) per unit on a <u>5,000 sf lot</u>...



FAR - Examples





1911 Ninth Street





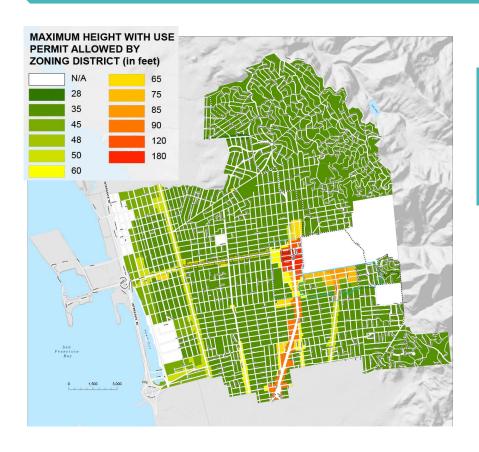
1028-1030 Grayson Street





1744-1756 10th Street

Building Height Standards



35 feet max average height

- Reduce to 22 feet <u>max height</u> within rear 15 feet of lot
- Limit by height in feet; not # of stories
- Main buildings and additions treated the same



1446 Fifth Street





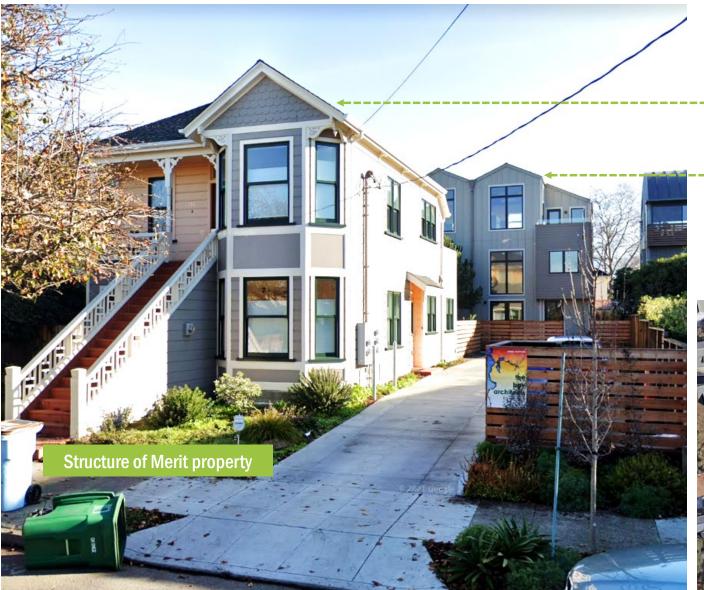
34'11" maximum height

29'6" average max height

----- 25'3" eave

1911 Ninth





--- 25'2" average max height

-- 32'3" average max height

2411 Fifth Street



Four Prototype Models & Neighborhood Context

New Detached Building Attached Sidecourt Detached Cluster Attached Row Homes Behind Existing

Four Prototype Models – Conflicts with Current Zoning

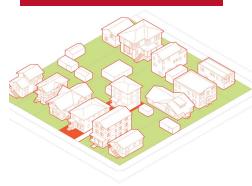
New Detached Building Behind Existing	Attached Sidecourt	Detached Cluster	Attached Row Homes		
# of Units per Lot	# of Units per Lot	# of Units per Lot	# of Units per Lot		
Lot Area per Unit	Lot Area per Unit	Lot Area per Unit	Lot Area per Unit		
Lot Coverage	Lot Coverage	Lot Coverage	Lot Coverage		
Usable Open Space	Usable Open Space	Usable Open Space	Usable Open Space		
Building Height, Avg.	Building Height, Avg.	Building Height, Avg.	Building Height, Avg.		
# of Stories	# of Stories	# of Stories	# of Stories		
Front Setback	Front Setback	Front Setback	Front Setback		
Rear Setback	Rear Setback	Rear Setback	Rear Setback		
Side Setback	Side Setback	Side Setback	Side Setback		
Bldg Separation	Bldg Separation	Bldg Separation	Bldg Separation		

Lot Coverage

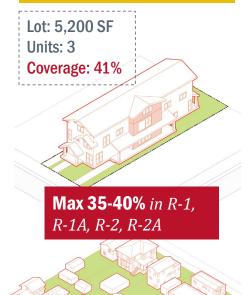
New Detached Building Behind Existing



Max 35-40% in R-2, R-2A



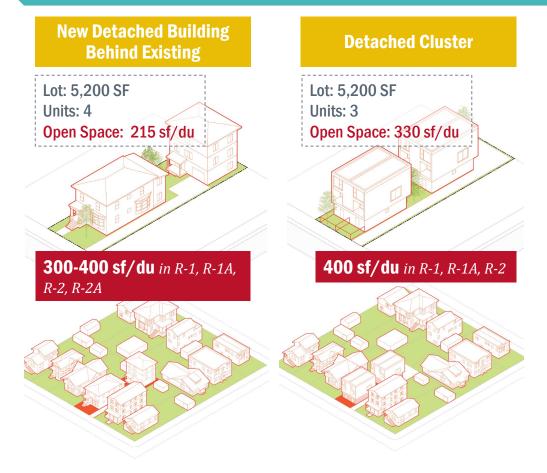
Attached Sidecourt





	R-1, R-1H	R-1A, R-2, R-2H	R-2A, R-2AH	MU-R
1-2 units or non-residential	40%	50%	50%	100%
3-7 units	50%	55%	55%	100%
8+ units	55%	55%	60%	100%

Open Space



150 sf open space per 1,000 sf residential floor area

- Units can vary widely in size
- Open Space linked to <u>total</u> <u>residential floor area</u>, rather than per unit
- Flexibility in configuration of open space for multiple units on a lot
- Maintain 10' x 10' min dimension (or 6' dimension for balconies)

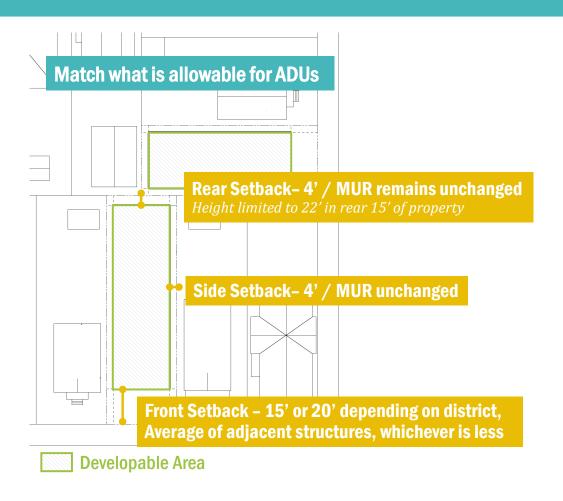
Example

- 5,000 sf total floor area
- \rightarrow 750 sf required open space

Four Prototype Models – Conflicts with Current Zoning

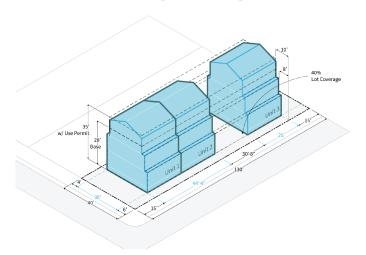
New Detached Building Behind Existing	Attached Sidecourt	Detached Cluster	Attached Row Homes		
# of Units per Lot	# of Units per Lot	# of Units per Lot	# of Units per Lot		
Lot Area per Unit	Lot Area per Unit	Lot Area per Unit	Lot Area per Unit		
Lot Coverage	Lot Coverage	Lot Coverage	Lot Coverage		
Usable Open Space	Usable Open Space	Usable Open Space	Usable Open Space		
Building Height, Avg.	Building Height, Avg.	Building Height, Avg.	Building Height, Avg.		
# of Stories	# of Stories	# of Stories	# of Stories		
Front Setback	Front Setback	Front Setback	Front Setback		
Rear Setback	Rear Setback	Rear Setback	Rear Setback		
Side Setback	Side Setback	Side Setback	Side Setback		
Bldg Separation	Bldg Separation	Bldg Separation	Bldg Separation		

Consistent Setbacks & Building Separation



Consistent upper-story setbacks

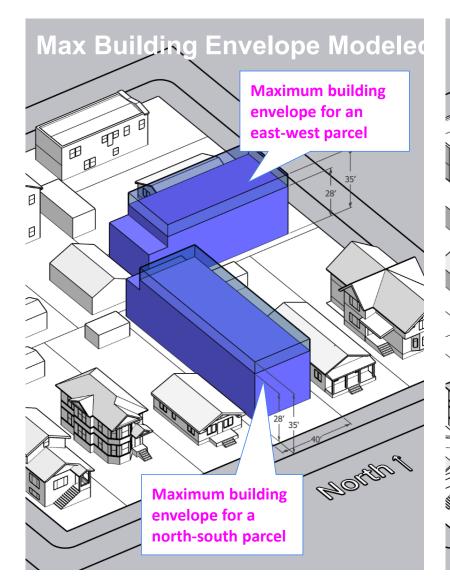
• Remove "wedding cake" design

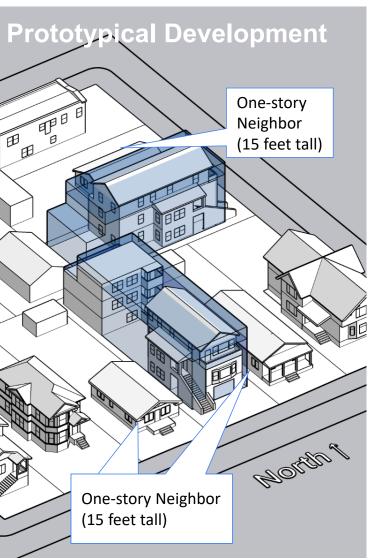


No minimum building separation *Building and Fire Codes still apply!*

SHADOW ANALYSIS

- 1. Purpose
- 2. Methodology
- 3. Results
- 4. Testing Options
- 5. Recommendations





The maximum building envelope defines the edges of what can be built and was modeled to cast shadows for the most impactful scenario.

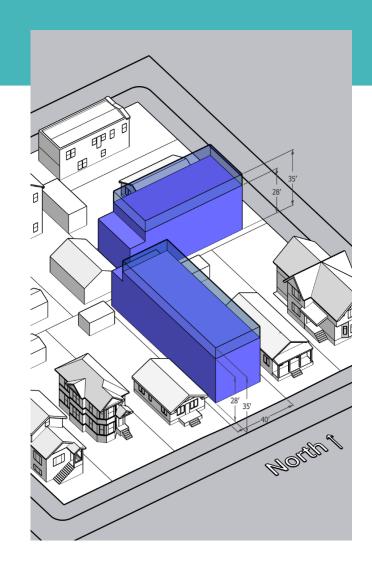
There are more standards define new prototypical development, such as lot coverage and FAR, that reduces the mass and bulk.

Not shown in the model:

- Shading from trees
- Sloping site
- Overcast skies
- Optimized solar panel locations

Model Methodology

- Built model in SketchUp
- Projected shadows from allowed building envelopes on the equinox (March or September 21)
- Calculated the percentage of adjacent rooftops shaded at 8am, 10am, noon, 2pm, and 4pm
- Compared calculations for 28' and 35' heights
- Created video to show how shadows change over the course of a day
- Tested increased upper story setbacks



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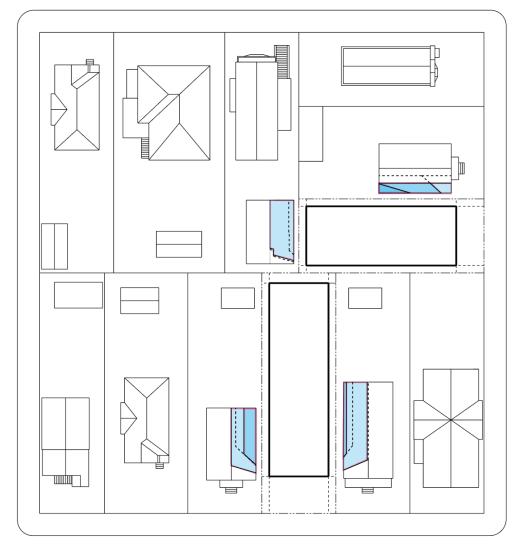


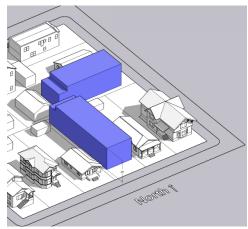
Proposed Max Height 28 Feet



Shadow cast

Darker blue = shadows at more times during the day



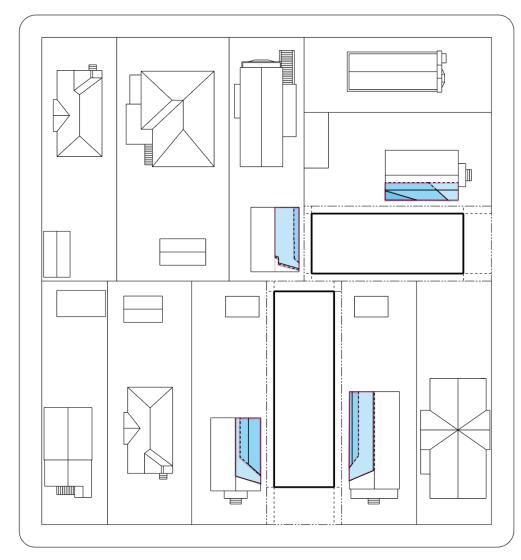


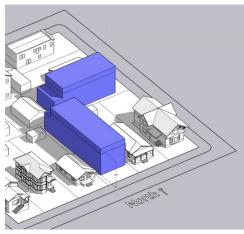


Proposed Max Height 35 Feet

Shadow cast

Darker blue = shadows at more times during the day



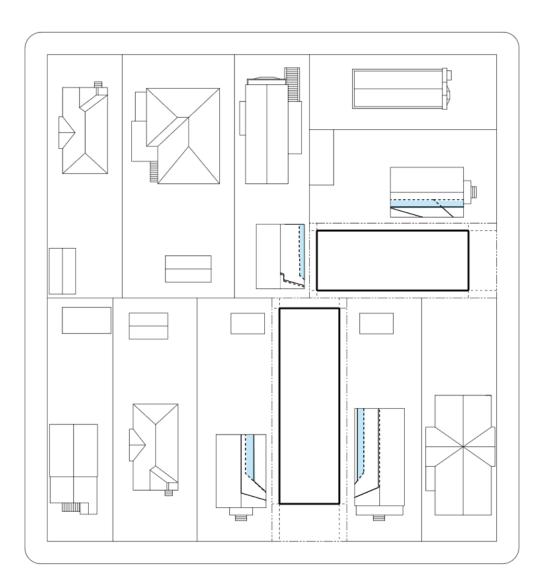


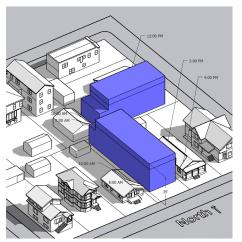


Difference

Less than a 10% difference in shadow impact when building envelope increases from 28 to 35 feet

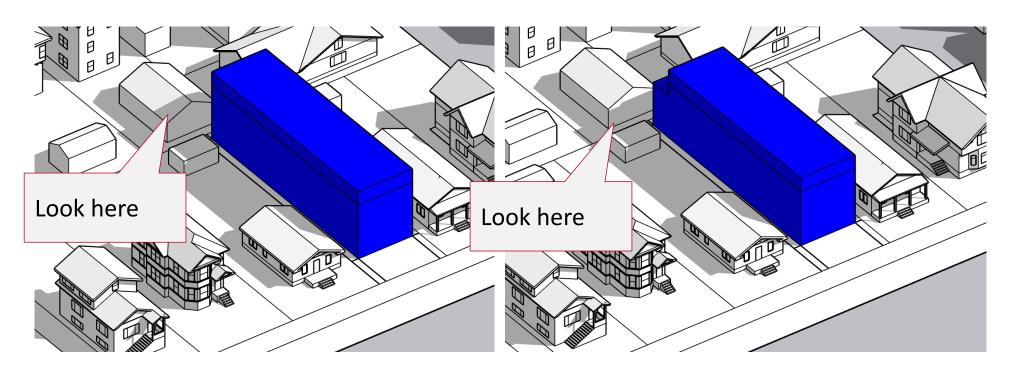
Shadow at 35' but not at 28'







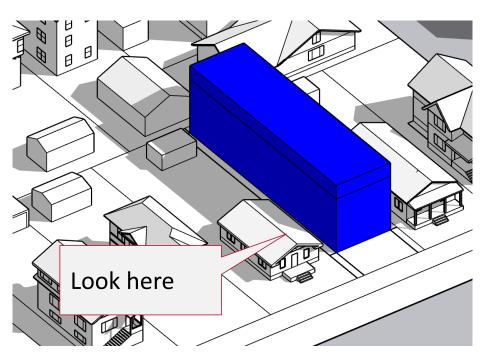
Testing Standards - Rear Height



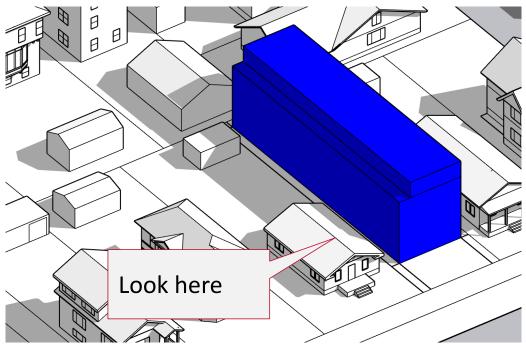
35' height 4' from rear property line

Proposed standard: 22' within 15 feet of rear property line

Testing Standards – Side Upper Story Setbacks

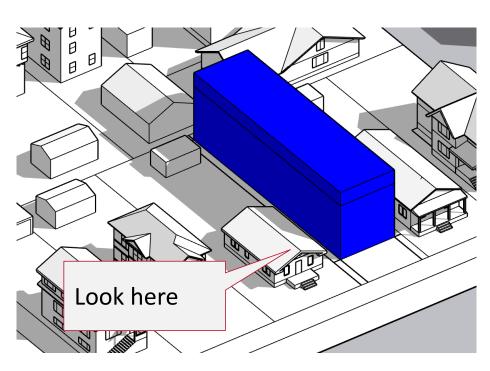


Proposed 4' Setbacks for all stories

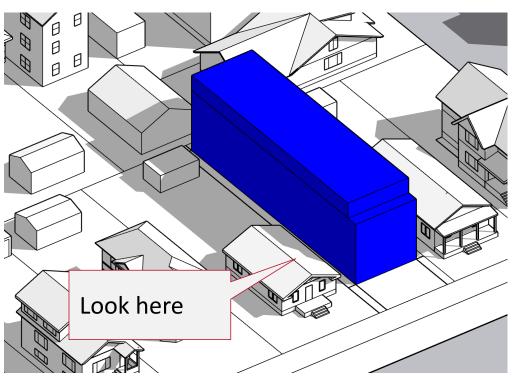


Additional 5' above 28 feet – not recommended

Testing Standards - Front Upper Story Step Back

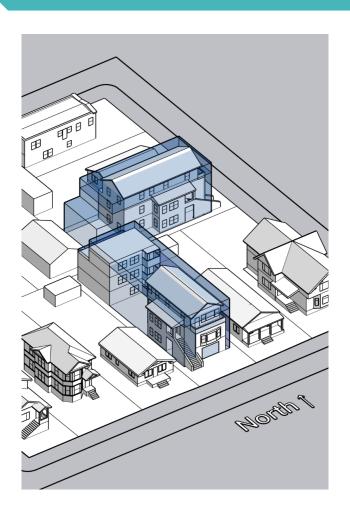


Proposed 20' front setback for all stories



Additional 5' above 28 feet – not recommended

Staff Recommendations Based on Model Results



- Proposed height and setbacks standards are sufficient to address rooftop solar impacts; additional standards are not needed
- Proposed middle housing standards, including lot coverage and FAR limitations, are sufficient to address privacy and aesthetic impacts on adjacent properties
- Homeowners may establish a solar easement to guarantee no future reduction in solar access

Allowed Uses & Permits Required

	R-1	R-1H	R-1A	R-2	R-2H	R-2A	R-2AH	MU-R
Multi-Unit Residential	ZC	ZC	ZC	ZC	ZC	ZC	ZC	ZC

Include consideration of the Hillside Overlay

Discretionary permit still required for -

- Structures of Historic Merit → Structural Alteration Permit
- Cortese List Hazardous Waste and Substances site

Discussion

Meeting the Goals?

Do the proposed development standards achieve the goals of the City Council referrals, namely encouraging the development of middle housing in low-density residential districts?

Changes or Revisions?

Are there provisions of the proposed zoning standards that should be changed or revised?

Additional Considerations?

Are there additional considerations that remain unaddressed by the proposed development standards?

THANK YOU



Photo Credit Jessica Christian / The Chronicle LINK

CONTACT US

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