

City of Tacoma Planning and Development Services

HIT Site Planning Study Key Findings 01/17/24

Background and Summary

In 2021, City Council adopted a new housing growth vision and updated policies to enable Missing Middle Housing in Tacoma's neighborhoods and increase housing supply, affordability, and choice for current and future residents, through Home In Tacoma Phase 1. Now, the City is proposing to adopt new zoning designations, development standards, and other actions, together referred to as Home in Tacoma Phase 2. This includes addressing recent requirements from the HB1110 state legislation, which increased Middle Housing density requirements for Tacoma as compared to the previous policy direction.

Supporting the feasibility of Middle Housing development is essential to meet project goals including getting housing growth right, meeting multiple goals, and making housing more affordable. An important aspect of development feasibility is considering the spatial demands of all site requirements. These include buildings, required setbacks, amenity space, trees, vehicular and pedestrian access, car and bicycle parking, and infrastructure and utilities including solid waste, water, power, sewer, and stormwater management.

Planning and Development Services (PDS) staff collaborated with Mithun (lead consultants on the HIT Project) on Middle Housing site testing analysis to inform upcoming decisions as part of the proposed standards in the new UR-1, UR-2, and UR-3 zones. The analysis consisted of testing six scenarios for a range of middle housing types, along with a set of site assumptions for lot dimensions and access representing typical Tacoma lots. The development scenarios were intentionally chosen to represent the most constrained or highest-intensity scenarios, knowing that less intensive scenarios would be feasible on typical sites if these six scenarios could fit. Throughout the exercise, PDS staff sought input from members of the Tacoma Permit Advisory Group as well as from other departments and collaborated with our partner utility and public service providers.

Overall, the exercise demonstrates that it is generally feasible to develop the intended housing types and densities, provided adjustments are made to infrastructure, access and utility standards. As a result of the analysis and stakeholder discussion, three categories of recommendations were identified to improve Middle Housing feasibility.

Middle Housing Site Testing Analysis

PDS lead an analysis and site testing exercise to evaluate the feasibility of developing the increased density allowed in the new UR-1, UR-2, and UR-3 zones. PDS made assumptions for draft land use standards based on staff and public feedback. The goal of the exercise was to determine if there were conflicts with the proposed standards and the constructability of the new Missing Middles Housing types. The attached site plans depict the scenarios and assumptions analyzed through this exercise.



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As part of this effort, PDS coordinated with members of the Tacoma Permit Advisory Group, other departments, and partner utility and public service providers. This included better understanding current requirements and needs, as well as discussing barriers and potential opportunities for changes that might better achieve overall project and City goals. Utility and public service providers agreed on the need to modify and/or adopt new practices, procedures, or policies to enable the development of this Missing Middle Housing.

Results and Recommendations

Overall, the site testing analysis concludes that it is generally feasible to develop the six highest-intensity scenarios studied while meeting the zoning and land use standards as proposed in the HIT package, **provided that a set of recommended changes to infrastructure, access and utilities standards are enacted**. Without the recommended changes, Middle Housing feasibility is diminished, and realizing project objectives may be limited.

The analysis found that in the six (highest-intensity) scenarios studied, space is limited and it can be challenging to develop at or near the number of units proposed to be permitted under the zoning package. In addition, the team recognizes that there are numerous variables that could be encountered in any future Middle Housing project (such as topography, lack of infrastructure, soil conditions, and critical areas) which would impact development potential irrespective of zoning and standards. Given these realities and the City's policy objectives to promote housing development, it will be helpful for the City to introduce flexibility into the standards and requirements—both as part of the HIT Project and subsequent to adoption as lessons are learned through implementation.

PDS staff have three categories of recommendations intended to address feasibility limitations stemming from spatial demands:

- 1. Minor changes to the HIT zoning and land use standards package.
- 2. Infrastructure, access and utilities standards changes. These were developed prior to the site testing analysis but were further vetted through this effort.
- 3. Future actions: Ongoing study will be needed to determine whether further adjustments should be made to the zoning and land use package and/or to infrastructure, access and utilities standards.

1. Zoning and land use standards package changes

While the HIT zoning and land use standards package is increasing some requirements that will take space on development sites (such as tree planting and bike parking), it is also substantially reducing many requirements (such as setbacks and vehicular parking) that more than make up for it. The package also offers additional flexibility to facilitate retention of existing buildings, and includes flexibility on landscaping requirements (such as a limited fee in lieu option). In sum, PDS staff conclude that the package strikes a reasonable balance that is consistent with the HIT policy direction and supportive of middle housing development.

Through the site planning exercise, several opportunities for minor refinements to the land use package became apparent, which staff propose to include in the HIT Package:

• Reduce the required amenity space, tree credits, parking ratios, and minimum setbacks for developments using the bonus options.



- Allow reduced soil volume where meeting required volumes would require demolition of established planting.
- Allow Suspended Pavement Systems (I.e. "Silva Cells") to count toward both stormwater and soil volume requirements

2. Summary of infrastructure, access and utilities standards changes

As anticipated, the site planning exercise demonstrated that updates to infrastructure, access and utilities standards are needed in order to facilitate middle housing development. Staff from multiple General Government and Tacoma Public Utilities work groups are collaborating to vet updates intended to allow sharing of facilities by multiple dwellings and/or reduced spatial demands. In addition, it is notable that one change not directly related to HIT is likely to increase spatial demands on housing development sites—stormwater modeling shows that increased precipitation due to climate change necessitates more robust onsite stormwater facilities in order to prevent urban flooding. The following standards updates will move ahead to City Council decision or administrative implementation generally on the HIT timeline so that they can be implemented concurrently.

Public Service	Description of Updates	Action Required
Solid Waste	 New Shared Service will be allowed between multiple units A Legal Entity will need to be responsible Home Owners' Assoc. (HOA) acceptable A Municipal Code Change will be required for new standards New enclosure requirements Solid Waste is also evaluating additional new rate/size options 	Ordinance Required
Wastewater	 New Shared Side Sewers will be allowed in certain situations Recorded Maintenance Agreement to title of properties HOA could be responsible entity 	Resolution Required (Updated Side Sewer Manual)
Stormwater	 Allow shared facility/infrastructure C&E agreement recorded to all property titles HOA could be responsible entity Updated onsite management requirements 	Resolution Required (Updated Stormwater Manual)
TPU Water	 New Shared Service will be allowed between multiple units (including for fire system) A Legal Entity will need to be responsible HOA acceptable Easements and maintenance agreement needed Individual meters still allowed if desired HOA could be responsible entity for backflow check for irrigation and fire 	Administrative Change
TPU Power	 Continue to maintain separate meter per lot/unit May require SSB for easy disconnect 	Possible Board Action



Access Standards	 Pedestrian pathways: Accessory Dwelling Units: 3 feet width Multiple Units: 4 ft width Adjacent to driveways: No difference Driveway widths – Now based on parking stalls 10 feet minimum up to 8 stalls 16 feet width for 9-20 stalls 20 feet width on any access aisle 	Ordinance Required (part of HIT package) Resolution Required (ROW Design Manual)
Parking Standards	 Vehicular 8.5 ft x 16.5 ft standard 7.5 ft x 15 ft compact 50% of required parking can be compact Possible accessible stall requirements Bike Short-term bike parking: 1 U-shaped bike rack per site (for projects over 5 dwelling units) Long-term bike parking: 1 stall per unit 	Ordinance Required (part of HIT package) Resolution Required (ROW Design Manual)

3. Future actions

The third category of staff recommendations includes actions that require further study, stakeholder engagement, and/or policy decisions than can be accomplished on the HIT timeline. Future consideration of these actions will be informed by the outcomes of early implementation of the HIT process, and undoubtedly additional actions will be added to this list. The following actions have emerged through the site planning exercise and ongoing discussions.

- Zoning and land use standards: Monitor implementation to identify refinements to the zoning and standards package
- Transportation and access: Evaluate site access standards for vehicles and pedestrians, potentially including approaches that allow pedestrians and cars to safely share space (e.g., woonerfs)
- Stormwater: Seek opportunities to promote housing and stormwater goals through the upcoming Watershed Planning effort
- Stormwater/landscaping: Consider development of a "Green Factor"—an innovative regulatory approach used by some cities to increase flexibility and options for housing developers while promoting stormwater, sustainability and urban forestry goals through a "pick list"

Attachment: Site Planning Layouts



#1A Retain House + 3-Unit Backyard Building

Building Data

- UR-1, 6000 sf lot
- FAR: 0.8, BYB* 3,000 GSF, 3 stories
- BYB unit size: 1,000 SF

Access & Parking

- Alley-loaded
- 3 surface parking stalls
- In-unit bike parking

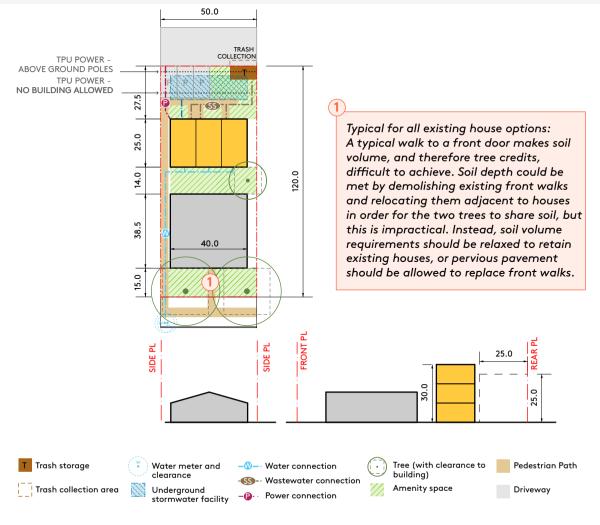
Note: * BYB = Backyard Building

Amenity Space

- Ground level amenity space: 2,180 SF
- Amenity space min: 1,200

Tree Credits

- Tree credit shown: 2,200
- Tree credit min.: 2,100
- Can meet soil volume without SPS Greatest soil depth to meet volume requirements: 3.5'



#1B Retain House + 3-Unit Backyard Building

Building Data

- UR-1, 6000 sf lot
- FAR: 0.7, BYB* 2,560 GSF, 2.5 stories
- BYB unit size: 650 SF

Access & Parking

- Alley-loaded
- 3 parking spaces in garages
- In-unit bike parking

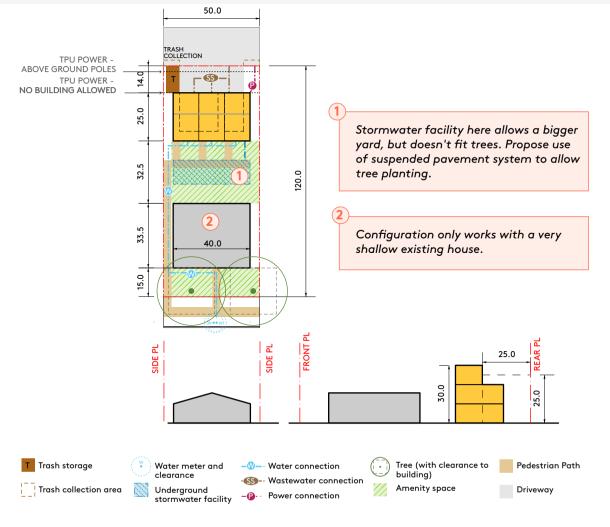
Note: * BYB = Backyard Building

Amenity Space

- Ground level amenity space: 2,180 SF
- Amenity space min: 1,200

Tree Credits

- Tree credit shown: 2,000
- Tree credit min.: 2,100
- Does not meet tree credits



#1C Retain House + 3-Unit Backyard Building

Building Data

- UR-1, 6000 sf lot
- FAR: 0.7, BYB* 3,000 GSF, 3 stories
- BYB unit size: 1,000 SF

Access & Parking

- Street-loaded
- 3 parking spaces in garages
- In-unit bike parking

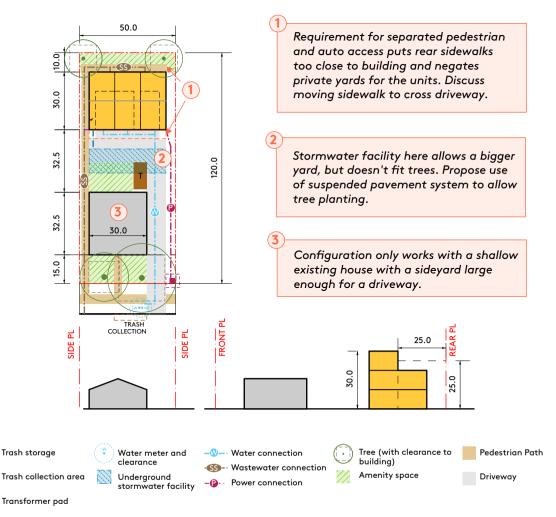
Note: * BYB = Backyard Building

Amenity Space

- Ground level amenity space: 1,300 SF
- Amenity space min: 1,200

Tree Credits

- Tree credit shown: 1,900
- Tree credit min.: 2,100
- Does not meet tree credits



HOME IN TACOMA PHASE 2 | SITE PLANNING STUDY | DECEMBER 2023

#2 4-Unit Houseplex (Deep Townhouses)

Building Data

- UR-1, 6000 sf lot
- FAR: 0.8, 4800 GSF, 2.7 stories
- Unit size: 1,200 SF

Access & Parking

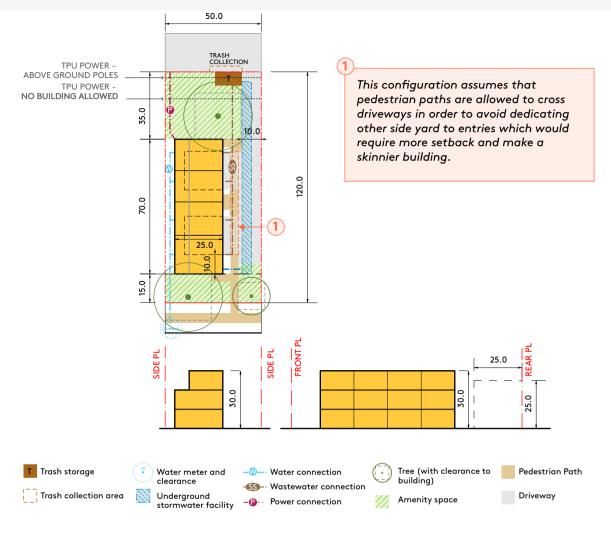
- Alley-loaded
- 4 parking spaces in garages
- In-unit bike parking

Amenity Space

- Ground level amenity space: 2,050 SF
- Amenity space min: 1,200

Tree Credits

- Tree credit shown: 2,200
- Tree credit min.: 2,100
- Can meet soil volume without SPS Greatest soil depth to meet volume requirements: 2.4'



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#3A 6-unit Houseplex (Deep Townhouses)

Building Data

- UR-1 with bonus, 6000 sf lot
- FAR: 1.0, 6,000 GSF, 2.5 stories
- Unit size: 1,000 SF

Access & Parking

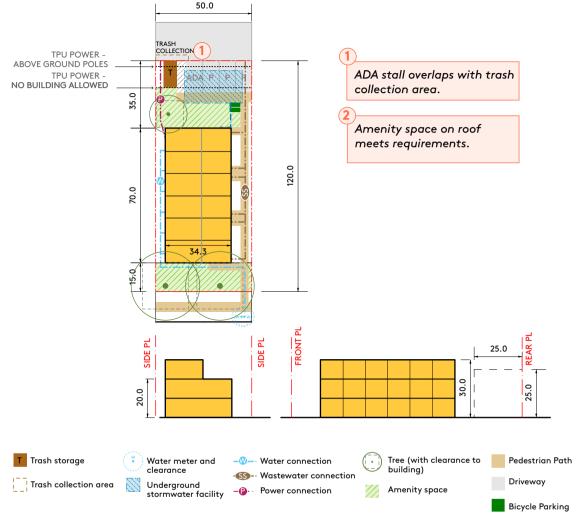
- Alley-loaded
- 4 surface parking stalls (including one accessible stall)
- 2 in-unit bike parking; 2 spaces in bike lockers

Amenity Space

- Ground level amenity space: 1,570 SF
- Amenity space min: 1,800

Tree Credits

- Tree credit shown: 2,200
- Tree credit min.: 2,100
- Can meet soil volume without SPS
- Greatest soil depth to meet volume requirements: 2.6'



#3B 6-unit Houseplex (Deep Townhouses)

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Building Data

- UR-1 with bonus, 6000 sf lot
- FAR: 1.0, 6,000 GSF, 2.75 stories
- Unit size: 1,000 SF

Access & Parking

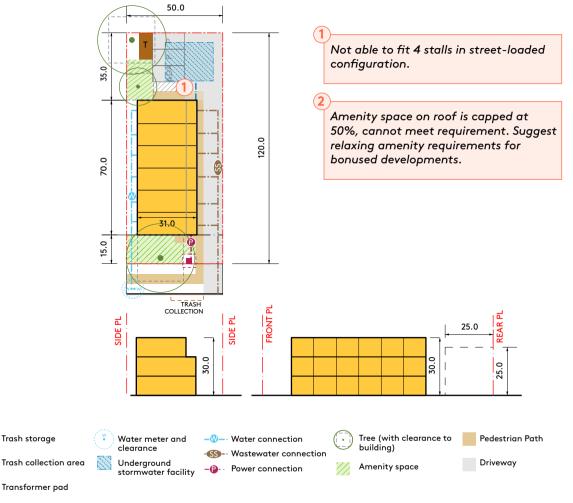
- Street-loaded
- 3 surface parking stalls (including one accessible stall)
- In-unit bike parking

Amenity Space

- Ground level amenity space: 790 SF
- Amenity space min: 1,800

Tree Credits

- Tree credit shown: 2,200
- Tree credit min.: 2,100
- Can meet soil volume without SPS Greatest soil depth to meet volume requirements: 3.6'



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#4A Three 2-unit Houseplexes ("Reggie Duplexes")

Building Data

- UR-1 with bonus, 6000 sf lot

- FAR: 0.8, 4,990 GSF, 3 stories
- Unit size: 525 1,150 SF

Access & Parking

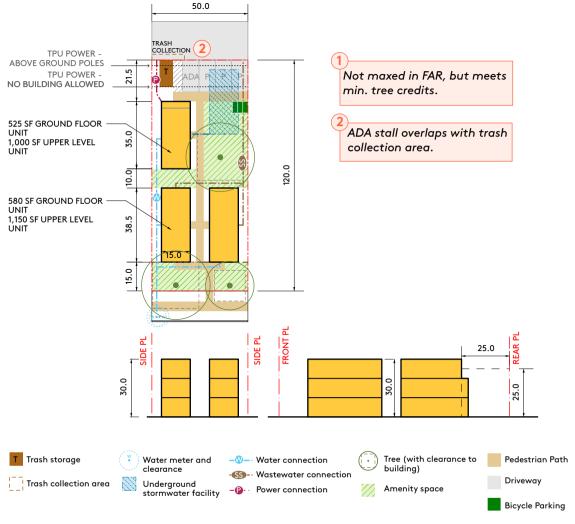
- Alley-loaded
- 4 surface parking stalls (including one accessible stall)
- 3 in-unit bike parking; 3 spaces in bike lockers

Amenity Space

- Ground level amenity space: 1,890 SF
- Amenity space min: 1,800

Tree Credits

- Tree credit shown: 2,500
- Tree credit min.: 2,100
- Can meet soil volume without SPS Greatest soil depth to meet volume requirements: 2.9'



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#4B Three 2-unit Houseplexes ("Reggie Duplexes")

Building Data

- UR-1 with bonus, 6000 sf lot
- FAR: 1.0, 6,000 GSF, 3 stories
- Unit size: 670 1,330 SF

Access & Parking

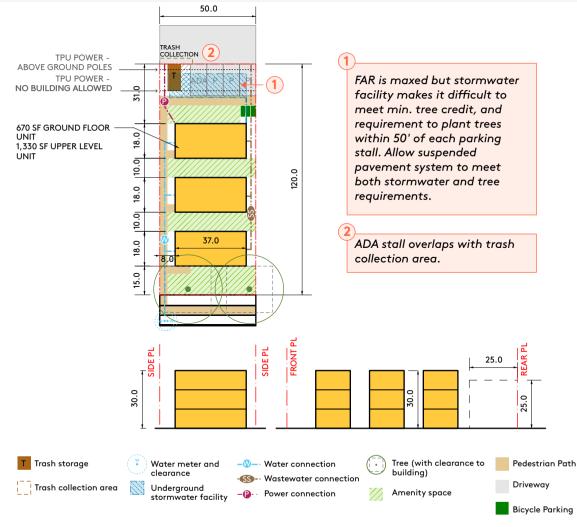
- Alley-loaded
- 4 surface parking stalls (including one accessible stall)
- 3 in-unit bike parking; 3 spaces in bike lockers

Amenity Space

- Ground level amenity space: 1,900 SF
- Amenity space min: 1,800

Tree Credits

- Tree credit shown: 2,000
- Tree credit min.: 2,100 🤇
- Does not meet tree credits



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#5 4 Rowhouses with 4 Backyard Buildings ("8-Pack")

Building Data

- UR-1, 12,000 sf lot
- FAR: 0.8, 9,600 GSF, 2.5 stories
- Unit size: 1,200 SF

Access & Parking

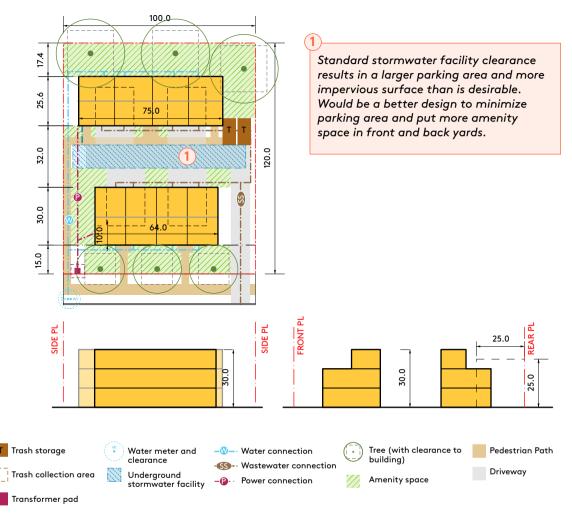
- Street-loaded
- 8 parking stalls in garages
- In-unit bike parking

Amenity Space

- Ground level amenity space: 4,360 SF
- Amenity space min: 2,400

Tree Credits

- Tree credit shown: 4,500
- Tree credit min.: 4,200
- Can meet soil volume without SPS Greatest soil depth to meet volume requirements: 2'



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#6 Multiplex with 24 Units

Building Data

- UR-3 with bonus, 12,000 sf lot
- FAR: 1.6, 19, 200 GSF, 4 stories
- Unit size: 680 SF (Excluding 650 SF per level for access and ground-floor bike room)

Access & Parking

12.0

53.0

10.0

- Street-loaded
- 12 surface parking stalls (including one accessible stall)

100.0

79.0

- Bike room: 260 SF, 18 spaces

Amenity Space

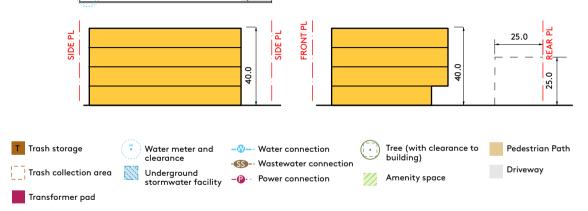
- Ground level amenity space: 1,200 SF
- Amenity space min: 2,400

Tree Credits

- Tree credit shown: 3,200
- Tree credit min.: 3,000
- Can meet soil volume without SPS Greatest soil depth to meet volume requirements: 2.1'

Amenity space on roof meets requirements. However, roof decks of that size require an expensive elevator and 2 egress stairs.

This study shows tuck-under parking to meet unit and FAR goals. This is only necessary in street-loaded conditions, and would not be necessary in reduced parking areas (because of reduced parking requirements).



20.0

16.0

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