

## CITY OF CAMBRIDGE

Community Development Department

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From: CDD Staff

Date: June 22, 2022

Re: AHO-4, 49 Sixth Street – Advisory Design Consultation Meeting #2

## **Overview**

Submission Type:	Affordable Housing Overlay (AHO) Advisory Design Review
Applicant:	Preservation of Affordable Housing (POAH)
Zoning District(s):	Residence C-1
Proposal Summary:	Rehabilitation and adaptation of an existing church complex into affordable housing, with all development taking place inside of the existing building footprints. The total Gross Floor Area (GFA) of the development is 59,400 square feet and there will be 46 permanently affordable rental apartments. The building height will remain at approximately 68 feet. The development will include two off-street parking spaces, 48 long-term bicycle parking spaces, and no short-term bicycle parking spaces. It will also improve an existing courtyard at the corner of Sixth Street and Thorndike Street, as well as an interior courtyard.
Planning Board Action:	Review revised materials and provide final comments on conformance with AHO Development Standards, City Development Guidelines for the proposal area, Design Guidelines for AHO, and Citywide Urban Design Objectives. This is the second of two required advisory review sessions under the AHO.
Memo Contents:	CDD Zoning Report & Urban Design Report

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# 11.207.5 – 11.207.7 AHO Development Standards

Development Standard	Requirements for AHO Project in Residence C-1
Building Height & Stories	4 Stories Above Grade or 45 feet for new construction.
Above Grade	Existing building height is allowed for preservation/reuse.
Density	Maximum FAR of 2.00, except in the case of a
	preservation/reuse project.
	There is no minimum lot area per dwelling unit for an AHO
	Development.
Yard Setbacks	• For new construction: 10' Front Yard, 7.5' Side Yard, and 20' Rear Yard.
	Front yards may be reduced to the average of the four (4)
	nearest pre-existing principal buildings on the same side of the street.
	Existing building setbacks are allowed for preservation/reuse
Open Space	Generally 30% of lot area.
	Existing open space is allowed for preservation/reuse; minor reductions are permitted in order to adapt building to meet
	accessibility standards.
Existing Buildings	The required dimensional characteristics of the existing
	building and site shall be those existing at the time of
	conversion to an AHO Development.
	Certain modifications may be permitted as-of-right to an
	existing building for an AHO Development.
Parking and Bicycle Parking	There is no minimum off-street parking for an AHO
	Development.
	For AHO Developments of twenty (20) or more units and less
	than 0.4 spaces per dwelling unit are provided, specific
	Transportation Demand Management (TDM) measures are
	required, including complimentary annual Bluebikes
	memberships or 50% discounted MBTA passes for six months,
	and providing transit information to each household within the
	AHO Development.
	Bicycle parking is generally required per Article 6.100; in an
	existing building, bicycle parking spaces meeting zoning
	standards are not required but are encouraged to be provided
	to the extent practical given the limitations of the existing structure.

Development Standard	Requirements for AHO Project in Residence C-1
Site Design and Arrangement	Front yards may be landscaped or hardscaped but cannot be used for off-street parking.
	Pedestrian entrances shall be visible from the street.
	Buildings with front facades in excess of 250' in length shall provide forecourts to break up massing.
	<ul> <li>Existing buildings may maintain existing conditions; alterations are allowed if they do not increase nonconformance with standards.</li> </ul>
Building Facades	Building facades facing public streets shall have a minimum percentage of glazing.
	Building facades shall incorporate projections/recesses at regular intervals to promote visual interest.
	• Facades of ground stories shall have expanses of no more than 25' with no windows or pedestrian entryways.
	<ul> <li>Existing buildings may maintain existing conditions; alterations are allowed if they do not increase nonconformance with standards.</li> </ul>
Ground Stories and Below Grade	• Ground stories with non-residential uses must have a height of at least 15' and a depth of 35'.
	Ground stories must contain a non-residential use when located in a Business base zoning district, or where a retail/consumer service establishment has existed on the site in the last two (2) years.
	Existing buildings may maintain existing conditions; alterations are allowed if they do not increase nonconformance with standards.
Mechanical Equipment, Refuse Storage and Loading Areas	New mechanical equipment shall be generally screened from view. Rooftop mechanical equipment must be set back from the roof line equal to its height.
Environmental Design Standards	Green Building Requirements as set forth in Article 22 shall generally apply to AHO Developments.
	AHO Developments are exempt from the Green Roofs Ordinance.

# **AHO Design Guidelines**

	Site Design Objectives
Response to Context	Design site layouts to harmonize with the neighborhood context.
Open Space & Landscape Design	Design open space to enhance the lives of residents and the broader community by offering aesthetic and environmental benefits.
	Offer useful amenities to residents, provide opportunities to minimize the impact of new development on neighbors' privacy and quality of life, and contribute to the beauty of the city.
Circulation	Promote non-motorized mobility by prioritizing pedestrian-friendly and bike-accessible site design.
Parking	Minimize the impact of parking and driveway.
Utilities	Minimize the visual, acoustical, and environmental impacts of essential utilities and services.
Outdoor Lighting	Provide lighting for safety and functionality while minimizing energy use, light pollution, and other negative impacts.
Public Art	Enrich the visual environment and strengthen the sense of place by incorporating art.
	Building Design Objectives
Massing	<ul> <li>Configure massing for compatibility with the prevailing or desired pattern of neighboring buildings and open spaces. In established neighborhoods, relate to the existing pattern of streets and other open spaces, and prioritize compatibility with existing buildings. In evolving areas, configure new developments to help realize the City's vision for urban form.</li> </ul>
Facades	<ul> <li>Design facades to enhance and enliven the public realm. In established areas, emphasize compatibility and reinforce sense of place. In evolving residential and commercial districts, contribute to the transformation of urban form by setting precedents for design excellence.</li> <li>Where appropriate, incorporate ground level retail spaces and common areas to foster a lively enliven the urban environment.</li> <li>Provide daylight to interior spaces, avoid excessive energy use, and protect the privacy of residents of neighboring buildings.</li> <li>Design facades to relate to the residential scales and patterns of Cambridge's diverse and historic neighborhoods.</li> <li>Design street facades to offer a sense of civic presence and human scale, and visual interest as appropriate to their role in defining public space.</li> </ul>

Architectural Details,	Use materials that are warm, inviting, and compatible with	
Materials, Color, and	surrounding existing buildings and the neighborhood context. Develop	
Finishes	building facades of high-quality, durable materials and with colors,	
	finishes, and textures appropriate to building contexts.	
Building Interiors	Affordable housing, like all housing, should serve the needs of its	
	residents while contributing to the residential character and sense of	
	neighborhood within the area at large.	
Sustainable Design Objective		
Site and Building Design	Achieve resilience measures to the maximum extent possible,	
	including energy efficiency and measures to promote the health and	
	wellness of residents.	

The complete set of Design Guidelines for Affordable Housing (28 July 2020) can be found at: <a href="https://www.cambridgema.gov/-">https://www.cambridgema.gov/-</a>

/media/Files/CDD/Housing/Overlay/zngamend aho designguidelines 20200728v2.pdf.

# 19.30 Citywide Urban Design Objectives [SUMMARIZED]

Objective	Indicators
New projects should be	Transition to lower-scale neighborhoods
responsive to the existing or	<ul> <li>Consistency with established streetscape</li> </ul>
anticipated pattern of	Compatibility with adjacent uses
development.	Consideration of nearby historic buildings
Development should be	Inhabited ground floor spaces
pedestrian and bicycle-friendly,	Discouraged ground-floor parking
with a positive relationship to	Windows on ground floor
its surroundings.	Orienting entries to pedestrian pathways
	Safe and convenient bicycle and pedestrian access
The building and site design	Location/impact of mechanical equipment
should mitigate adverse	<ul> <li>Location/impact of loading and trash handling</li> </ul>
environmental impacts of a	Stormwater management
development upon its	Shadow impacts
neighbors.	Retaining walls, if provided
	Building scale and wall treatment
	Outdoor lighting
	• Tree protection (requires plan approved by City Arborist)
Projects should not overburden	Water-conserving plumbing, stormwater management
the City infrastructure services,	Capacity/condition of water and wastewater service
including neighborhood roads,	• Efficient design (LEED standards)

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city water supply system, and	
sewer system.	
New construction should	Institutional use focused on existing campuses
reinforce and enhance the	Mixed-use development (including retail) encouraged where
complex urban aspects of	allowed
Cambridge as it has developed	Preservation of historic structures and environment
historically.	Provision of space for start-up companies, manufacturing
	activities
Expansion of the inventory of	Housing as a component of large, multi-building development
housing in the city is	Affordable units exceeding zoning requirements, targeting
encouraged.	units for middle-income families
Enhancement and expansion of	Publicly beneficial open space provided in large-parcel
open space amenities in the city	commercial development
should be incorporated into	Enhance/expand existing open space, complement existing
new development in the city.	pedestrian/bicycle networks
	Provide wider range of activities

## **Zoning & Development Staff Report**

#### Overview

The developer, Preservation of Affordable Housing (POAH), proposes to rehabilitate an existing church complex and adapt it for use as affordable housing. Three of the existing five buildings will be converted into housing; the remaining two buildings on the site will continue to be used by the church. The development will take place inside of the existing buildings. The project is pursuing Enterprise Green Communities certification for environmental sustainability.

The total Gross Floor Area (GFA) of the development is 59,400 square feet and there will be 46 permanently affordable rental apartments. The building height will remain at approximately 68 feet. Building entries will be located on the Seventh Street, Thorndike Street, and Sixth Street elevations. The development will provide long-term bicycle parking within the building and two off-street parking spaces on-site. It will also improve an existing courtyard at the corner of Sixth Street and Thorndike Street, as well as an interior courtyard.

### **Planning Board Comments from Initial Consultation Meeting**

The Planning Board (the "Board") met on Tuesday, April 5, 2022 to review and comment on the design for this project, which is being developed under the Affordable Housing Overlay (Section 11.207 of the Zoning Ordinance). The Board reviewed a plan set submitted by POAH dated December 29, 2021 and presentation dated April 5, 2022. They also reviewed memos from the Community Development Department (CDD) and the Department of Public Works (DPW).

Board members were generally supportive of the proposed project and were excited to see the adaptive reuse of an historic structure. The project's inclusion of units for families with children was also commended. The majority of comments from the Board focused on improving the overall design of the buildings and the site. The report from the initial meeting is attached.

#### Staff Comments on Revised Submission

The revised submission from the Developer remains generally consistent with the AHO standards. The Initial Report primarily focused on comments related to building design, which are addressed in the accompanying Urban Design report. The following are some aspects of the project that the Board requested additional information on in relation to AHO zoning standards:

• Long-Term Bicycle Parking. The AHO zoning does not require short- or long-term bicycle parking to meet normal zoning standards for projects that involve the renovation of existing buildings but encourages bicycle parking to be provided to the extent practicable given existing constraints. The Developer is providing 48 long-term bicycle parking spaces and has worked with City staff to meet the access and design standards for that type of bicycle parking. The revised submission shows the ramp access route to the long-term bicycle parking and the three locations of the long-term bicycle parking. The quality of the site plan graphic makes it challenging to read, so it is unclear if the proposed design meets the City's design standards. A

- 1:10 scale plan for the proposed bicycle parking should be provided at the building permit stage with the access route and access aisle widths clearly labelled.
- <u>Short-Term Bicycle Parking.</u> The Developer is not proposing to provide short-term bicycle parking on-site due to site and budget constraints. They've indicated a willingness to work with the City to identify locations for short-term bicycle parking on the public sidewalk but have not proposed contributing funding.
- Resident Parking. There are two existing off-street parking spaces accessed from Thorndike Street. The application materials do not indicate how those spaces will be used, but the Developer does state that off-street parking will not be provided for residents. The AHO zoning does not require off-street parking. The AHO zoning does require Transportation Demand Management (TDM) measures and a certification from the Traffic, Parking and Transportation Department (TP+T) that short-term pick-up, drop-off, and loading can be reasonably accommodated either off-street or on-street. It also allows, but does not require, the Developer to secure off-site parking for the project if it meets the standards in Section 11.207.6.2(b). The Developer has committed to Transportation Demand Management (TDM) measures, including discounted MBTA passes; transit information; and long-term bicycle parking. The Developer has also explored providing parking options for residents off-site.

## **Urban Design Staff Report**

#### Overview

The convent, school, and rectory of the Sacred Heart Church complex at 46 Sixth Street will be renovated to accommodate 46 units of affordable housing. The massing of the buildings will be unchanged, but numerous improvements will be made to their appearance: the brick facades will be cleaned and repointed, historically accurate replacement windows will be installed, and window openings that are currently infilled will be restored. The building's historically significant interior details will be preserved and restored. Insulation will be added, and new all-electric building systems installed. The existing interior walls will be retained where possible. New elevators will be installed, and accessible routes will be created. Long term bicycle parking will be provided. Sitework will include the renovation of the existing courtyard at the southeast corner of the site and the improvement of the complex's internal courtyard with plantings, paving, and furniture. The small existing garage on Thorndike Street will be demolished and replaced by two open-air vehicular parking spaces.

In the hearing on April 5, 2022, the applicant addressed numerous topics raised by the Planning Board including:

- The roof will be insulated.
- Due to a desire to preserve interior finishes, insulation won't be added to the exterior walls; the applicant will analyze the thermal performance of the building's triple withe brick walls.
- The applicant reviewed several options that had been considered to provide basement level parking and explained their conclusion that they were impractical given the dimensions of the building and the desire to have substantial trees in the courtyard.
- The applicant will test for lead paint and asbestos and follow recommendations.

In subsequent review, staff has concluded that:

- The mix of unit sizes is appropriate.
- While borrowed light in bedrooms is less than ideal, it is acceptable.

The current design is largely the same as it was at the April 5<sup>th</sup> hearing. The unit count remains at 46. In response to Planning Board and staff comments on the materials presented in the hearing on April 5<sup>th</sup>, improvements have been made to the design and documentation, including:

- Small changes and corrections have been made to unit layouts.
- The arched window on the Sixth Street façade will be restored.
- All windows will be replaced with historically accurate windows, including two-over-one windows for the rectory building.
- New, historically appropriate doors will be provided where the originals have been replaced.
- Dual draw window blinds will be provided to increase privacy, especially at the ground floor units.
- Additional information has been provided regarding plant species and landscape furnishings.
- The courtyard at the southeast corner of the site has been revised: the tree that had previously been in its center is now at its western side, more low plantings are provided, and the benches have been moved closer to the perimeter plantings. Loose furniture is shown in the central paved area.
- The route to the bicycle storage rooms is now indicated.

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# **Urban Design Comments on Design Revisions Site Design**

- 1. Consider providing additional street trees on all three bordering streets.
- 2. Consider revising the courtyard at the southeast corner of the site, possibilities include:
  - a. Creating more visual separation between the courtyard and the adjoining two car parking lot and the pedestrian ramp by providing a solid wall at the height of the rectory's stone base and taller and denser plantings.
  - b. Giving the courtyard more protected feeling relative to the public sidewalks by raising the low wall on the east or south side of the courtyard to approximately 3 feet.
  - c. Giving the WW2 memorial more honorific emphasis.
  - d. Reusing the memorial's wrought iron gate somewhere in the project.
- 3. Consider adding plantings in the 2-car parking area. There may be some space available north of the eastern parking space.

#### **Building Design**

- 4. Some coordination remains to be done regarding the locations of windows in plan and elevation.
- 5. Consideration should be given to replacing existing wall mounted exterior flood lights with less obtrusive lighting.
- 6. The material and color of infill panels at the new elevator in the rectory building should be resolved.

#### Sustainability

Staff believes it is important to demonstrate that design team is thinking about embodied carbon in addition to operational emissions at the early stages of design.

- 7. Staff recommends that the design team try to estimate greenhouse gas emissions, including embodied carbon from products and construction processes involved in the rehab work, and make this information available during design development and/or construction document phases. To address embodied carbon, staff suggests that the design team use the LEED v.4 or v.4.1 materials and resources credit options and framework and procuring materials with third-party verified environmental product declarations EPDs.
- 8. Staff suggests that the new historically appropriate windows maximize thermal performance, with aluminum frames and a thermal-break system for energy efficiency.

#### Suggestions for further study

Because the Planning Board's review of this project is advisory, there are no conditions for continuing design review. However, as the developer further refines the design through the building permit and construction process, staff would encourage the developer to review the following topics. Staff will continue to consult with the developer as appropriate.

- 1. Brick repair/restoration, including review of repointing mortar and joint tooling
- 2. Replacement windows
- 3. Proposed exterior wall sections
- 4. Locations of potential new street trees
- 5. Species and planting standards for proposed trees and other plantings
- 6. Bicycle parking
- 7. Site furniture
- 8. Design of the southeast courtyard and the WW2 memorial
- 9. Design of the play area
- 10. Exterior lighting
- 11. Sitework materials