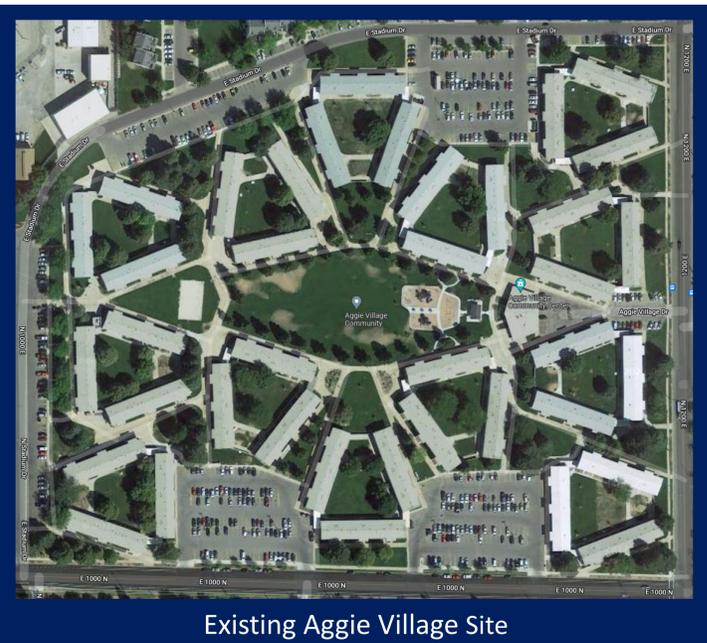


Aggie Village Redesign

Cooper Faidiga, Robert Gordon, Ken Provard, Ryan Richens,
Grace Sunderland, Michael Young



Alternatives

The following alternatives were considered to address the housing needs at Aggie Village

- Renovation
- New Layout, Parking Lots
- New Layout, Parking Garage, and Parking Lots
- New Layout, Podium-Style Parking Garage
- New Layout, Large Building Template, and Parking Garage
- New Layout, Large Building, and Parking Lots
- Existing layout and parking structures
- Do Nothing

Different building sizes and parking options were considered against the following criteria: safety, increase in units, adaptability, sustainability, environmental impact, amenities, parking, and cost. Alternatives which were adaptable to varying population growth expectations and parking changes were favored. Layouts with parking lots were considered more desirable due to the lower cost if removal is necessary during the life of the design.

Introduction

Aggie Village is a family housing location for Utah State University (USU) students. There are currently 39 buildings with 468 units which contain one-, two-, and three-bedroom apartments.

A redesign of Aggie Village would be beneficial for the following reasons:

- Modern building code would be implemented to provide housing that utilizes current design and safety standards.
- Cache Valley, Logan, and USU are experiencing population growth. Cache County is expected to increase in population by about 70% by 2060. USU is expected to increase student population by about 23% by 2060.
- Amenities can be updated to better meet worldwide goals for more sustainable developments.
- Provide married students with an environment that supports individual and community advancement, social engagement, and critical thinking.

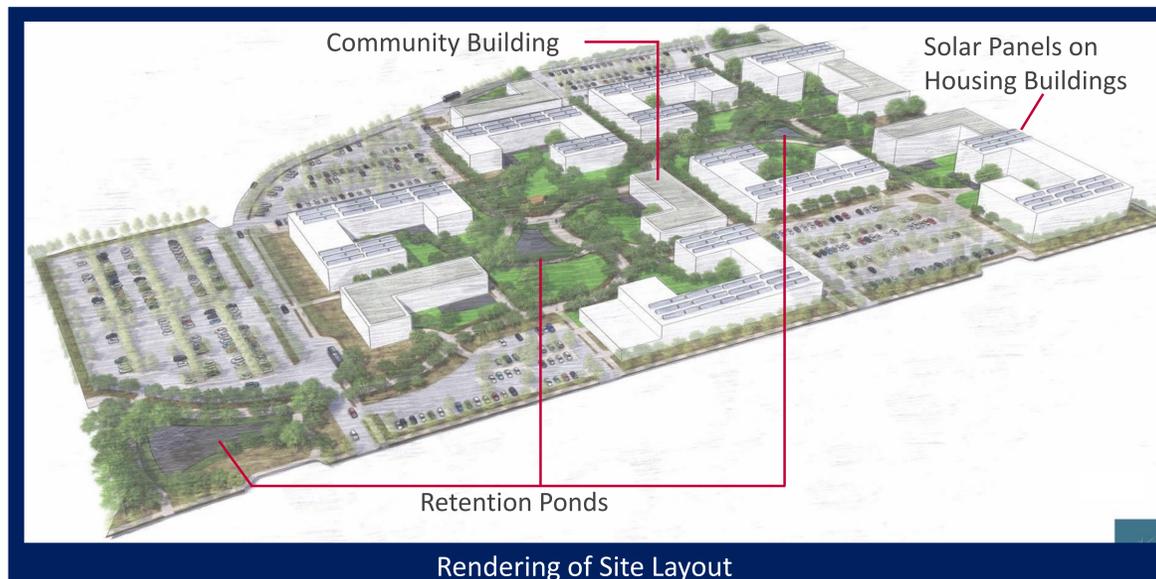
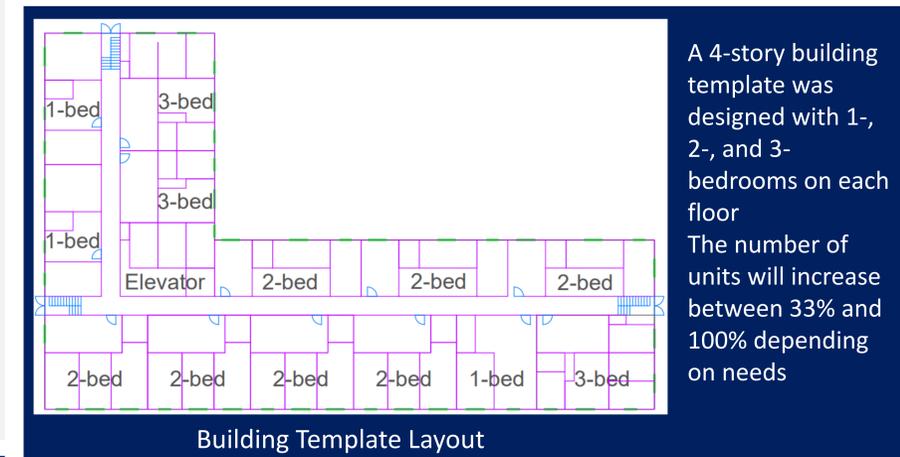
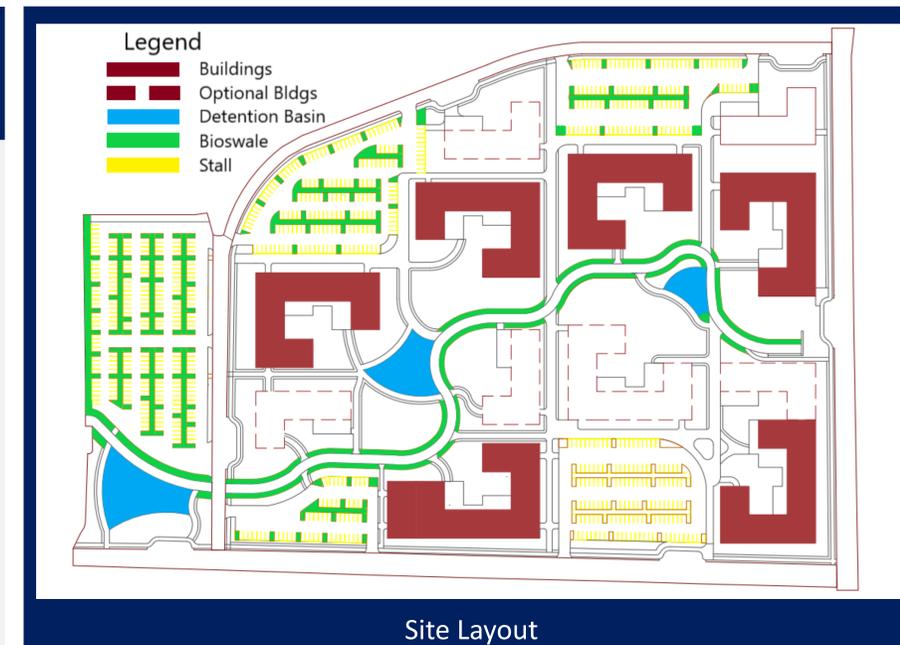
Results

After alternative analysis, our recommended alternative consists of a redesign involving a new layout, parking lots, and a parking structure as needed.

- The new layout features adaptable development for future renovations.
- Number of units will increase between 33% and 100% depending on needs.

This redesign will provide the necessary units to support the growing population of USU. The parking lots can be removed for future buildings if housing needs exceed parking requirements during the lifespan of this design.

Rainworks Challenge: This design incorporated an EPA competition with the goal to include innovative environmentally friendly design. The final design incorporates green infrastructure to manage stormwater in an efficient and environmentally friendly way.



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