

El Retiro Del Sol





Purpose

Our goal of this project is to design a LEED certified green retirement community with three gold certified buildings that incorporates healthy living with an authentic hacienda theme.

Sun City, Arizona

Located in the
Phoenix
Metropolitan area

Center of the
state's
economy

Close proximity to:

Entertainment
venues

Sports arenas

Cultural institutions



Demographic

37,499 residents

79.8% of the population is
65+ years old

Median age is 75 years old

Median household income:
\$32,508



Climate

The background of the slide features a silhouette of several saguaro cacti against a warm, orange-hued sunset sky. The cacti are dark against the lighter background, creating a stark contrast. The sky transitions from a deep orange near the horizon to a lighter, pale yellow at the top.

American
Southwest

~ 9 inches of rain
annually, <1
inch snow each
decade

Design Priorities

Keep hot temperatures out -- shade, light walls

Protect from summer sun

Evaporative cooling in summer -- fountain in
courtyard

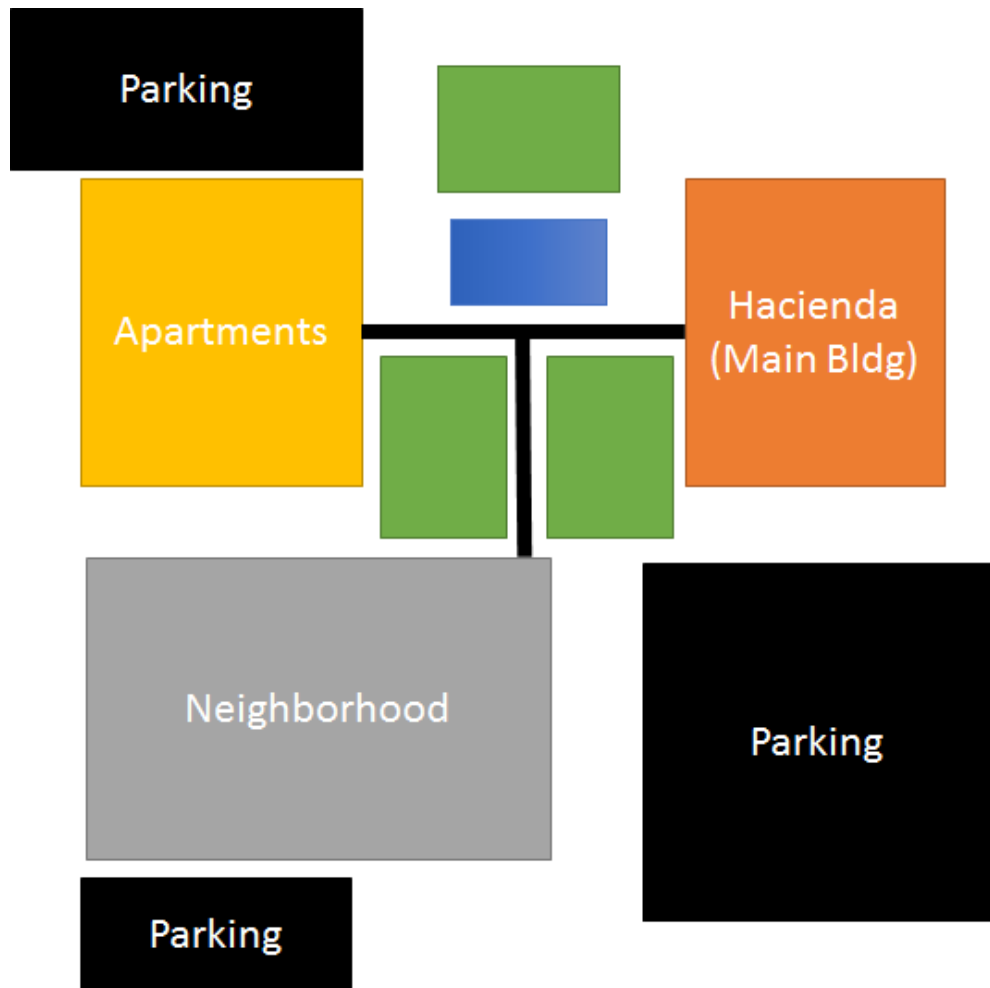
Thermal mass -- water

Let winter sun in -- building orientation

Natural ventilation - prevailing winds

Connect Buildings

- via gardens
- meditation area
- pool area



Entrance to the Hacienda

Main Building

-concert hall

-chapel

-multipurpose rooms

-suites

-management offices

-daycare



Design

Open Corridors

Open Center

Natural sunlight

Cooling with Shade

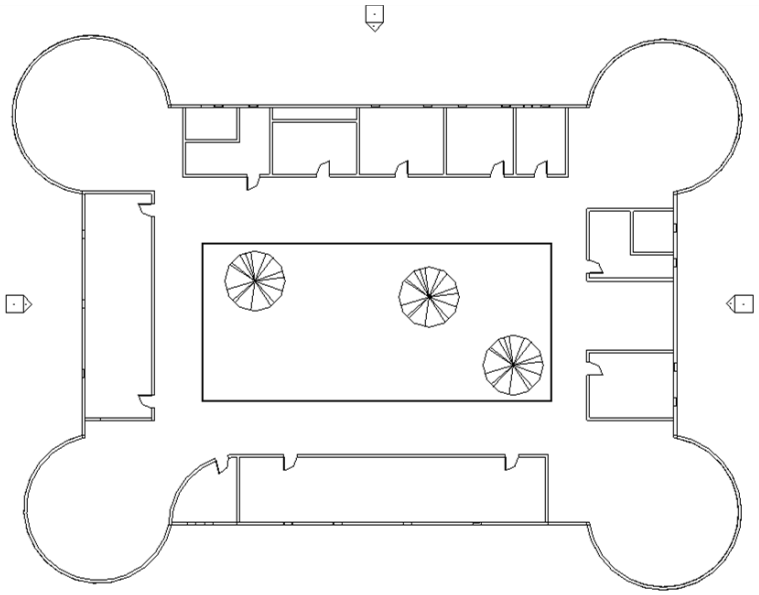
Beams structures



A photograph of a two-story courtyard with arches, columns, and potted plants. The courtyard is enclosed by a two-story building with a balcony on the upper level. The ground floor features a series of arches supported by columns. The courtyard is filled with various potted plants, including palm trees and other greenery. The lighting is warm and ambient, suggesting an evening or indoor setting. The text "Patio/Gardens" is overlaid in the center of the image.

Patio/Gardens

First Floor



Second Floor

18 suites for 2

Individual :

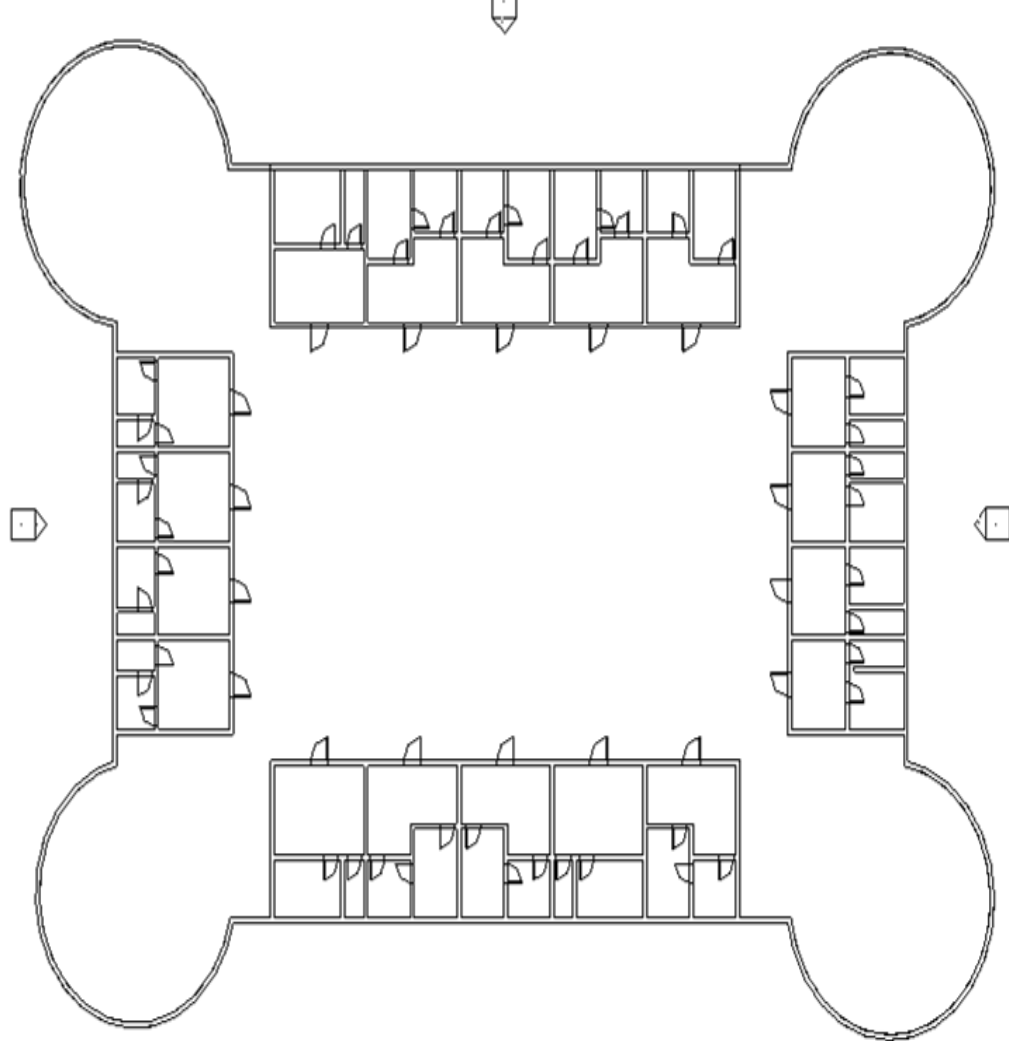
Restroom

Kitchen

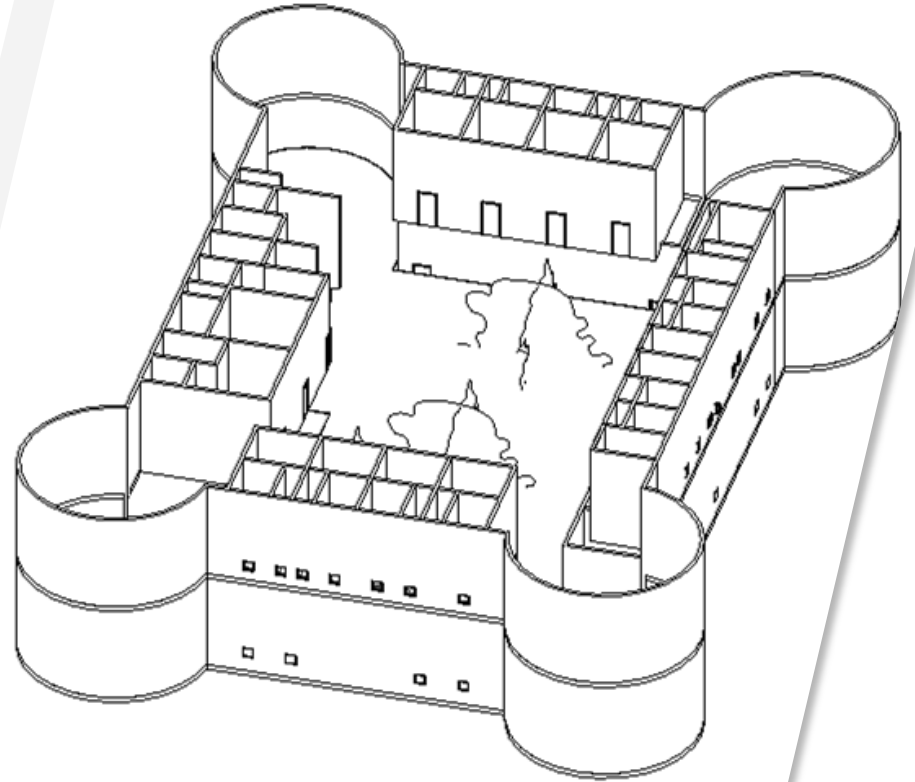
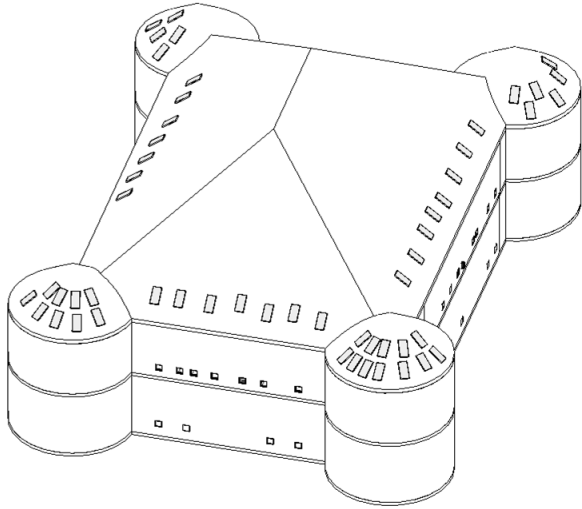
Living room

2 sets of stairs

2 sets of elevators



Final Hacienda



LEED Points

Succulent Plants

Open Corridors

Adobe and Clay structure

Slanted roofs

Water-Saving Toilets

Automatic Lighting

Rainwater harvesting tanks

Solar panels

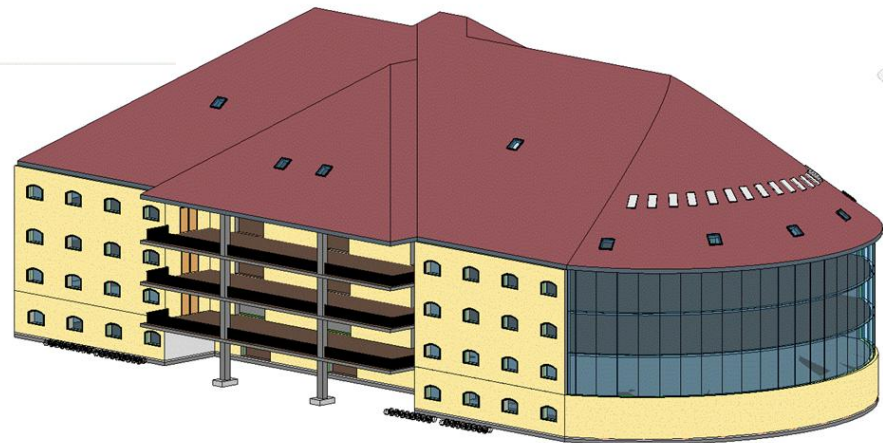
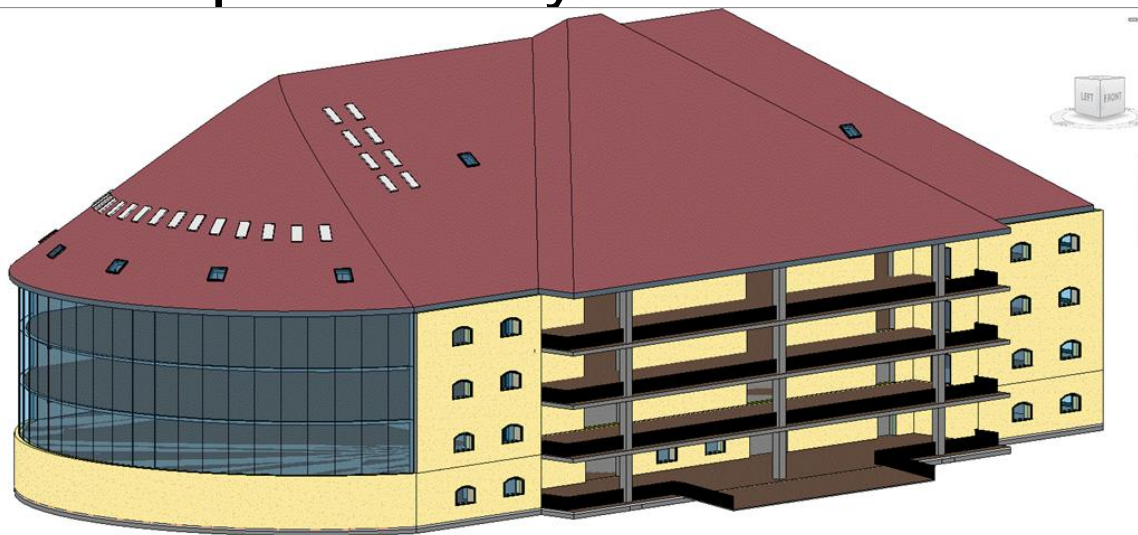


Amenities and Services

- Wellness Center
- Chapel
- Hair Salon/Barber
- Restaurant On-site
- Community Cafeteria
- Patios
- Concert Hall
- Children's Center
- Medical Center



Complementary structure



Apartment Services



Main housing for the ill or more
impaired elderly

Provided with

Nurses

Kitchen & dining hall

Medical center

Wheelchair accessibility



LEED Points

Succulent Plants

Indoor Air Circulation

Adobe and Clay structure

Slanted roofs

Water-Saving Toilets

Natural Lighting

Rainwater harvesting tanks

Solar panels

Energy efficient windows

Neighborhood Home Housing

1 story homes

Southwest pueblo style

Succulents in plant beds

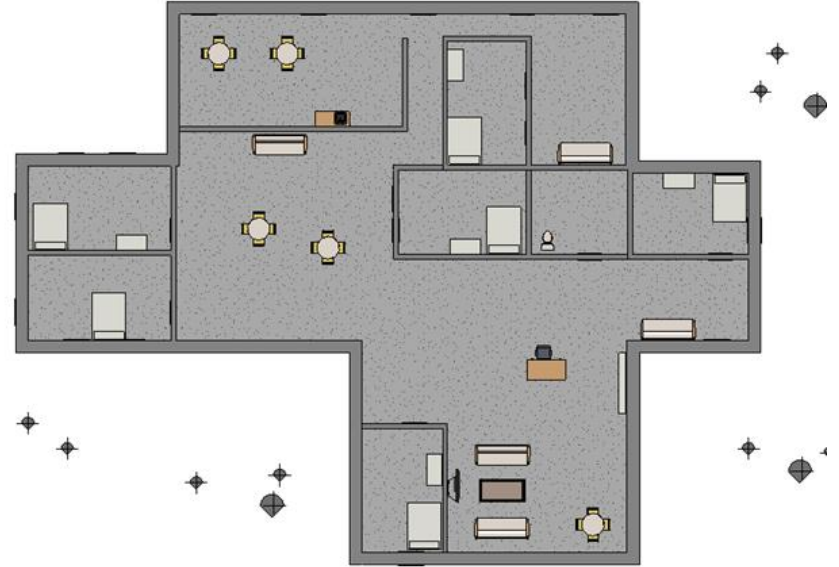
LEED Points:

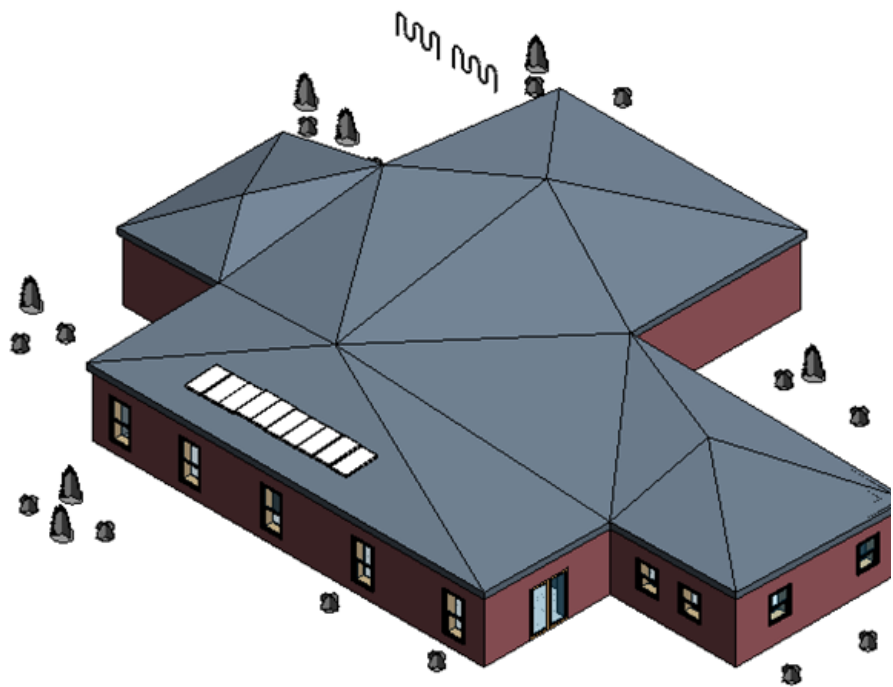
Performance tests -- water and air

Locally sourced materials

Native plants

Site selection







Multifamily Midrise LEED Points

Succulent Plants

Adobe and Clay structure

Slanted roofs

Water-Saving Toilets

Automatic Lighting

Solar panels (35 degrees)

Utility metering

Air/water distribution tests

Access to transit



Safety within the Gated Community

To make residents feel safe, we will
provide a gate and security guard service

They will also provide additional medical services

Enhance the community feel

Budget

300 residents

36 individuals in Neighborhood

\$250K

16 suites (2 ea.) in Hacienda

Starting budget:

\$262 MM, more improvements added with time

- Only 1 medical center, located in apartments



Questions?