NARRATIVE California Senior Housing: Pueblo Bahia

Planning: The Pueblo Bahia utilizes the existing terraces of Parcels A and B to site nineteen detached senior housing units. Seven units are sited on the lower half of the Bahia Drive Parcel (Parcel A), and twelve units are placed on Misty Road Parcel (Parcel B). The terraces on the upper half of the Bahia Drive parcel are utilized for gardens, "food forest", and "permaculture" for use by the residents and neighbors of Pueblo Bahia. These gardens will produce fruits, vegeta-

bles, and herbs. Other fruit trees will be planted at various locations in the development also.

At the Misty Road Parcel, (Parcel B), Misty Court is extended in a south-west direction, to climb the hillside to provide access to the existing terraces that have previously been estab-lished. The placement of the road extension also preserves as much of the terraces as possible for the development of the units, access, parking, gardens, and the units themselves. Driveways off of Misty Court provide access to the five terraces and the units that have been sited on those ter-

The remaining portions of the two parcels have been left as open space. At the Bahia Drive Parcel, accessible paths will be cut in the hillside to allow public access from the bottom of the parcel up to the top of the parcel. This will allow residents the opportunity to walk up the paths from their houses to the gardens at the top of the site. All of the paths will be less than 5%.

Design: In concept, the dwelling units of Pueblo Bahia are conceived as simple rectangular pavi-Design: In concept, the dwelling units of Pueblo Bahia are conceived as simple rectangular paviless, or conceived as large and a conceived as simple rectangular paviles out for solar access and light, and to the east for distant views. The units come in four basic sizes: Extra Small, Small, Medium and Large, (XS, S, M, & L). All of the units are conceived as being twenty feet wide, with the length of the units varying depending on the size, 24, 32, and 48 feet in length for the XS, S, & M units respectively. The two "L" units are designed as two twenty by thirty foot pavilions joined together to form a larger unit. (Due to area limitations, one of the pavilions is actually 18.5° x 30°). For the L-1245 unit, the two pavilions are placed parallel to one another and slip past each other, to form on one side, an entry yard and approach, and on the opposite, private side, a courtyard accessed by the living area and master bedroom. In the L-1238 unit, the pavilions are placed perpendicular to one another, but also form a courtyard for the living areas and master bedroom.

All of the units feature nine foot high ceilings, and a sloped ceiling with north oriented

clerestory windows accentuates the living areas. All of the units have elements that are common to all to help facilitate standardization, and economy of building.

Energy Goal: Homes that produce as much energy as they consume.

Passive Solar Energy strategies: The long axis of the units are oriented generally in an east-west direction, to take advantage optimum solar orientation. Open to the south for sun, and to the East for views. Closed with small openings on the West and North. A generous overhang on the South side will keep units shaded and cool in the summer, yet allow for solar heat gain in December and winter months. The concrete floor will store heat in the winter, and be cool in the summer.

Active Solar Energy Strategies: Solar Photovoltaics (PVs) and Solar Hot Water are utilized. The sloped roof portion of the roof will house panels for solar electricity generation and for domestic hot water use. The units will utilize the SunCache System to generate domestic hot water. The solar PVs will generate enough electricity to provide for a "net-zero" energy balance.

Principal Structure and Enclosure: STRUCTURAL INSULATED PANELS (SIPS) The Exterior Walls/Structure will be 6" thick SIPs, which have an R-24 R-value. The roofs will

be 12" thick SIPs with R-45 R-value. Advantages of SIPs: Stronger than conventional framing, better whole wall R-value, factory fabrication, less waste, complies with the Energy Star program, faster construction erection, straighter walls, saves on heating and cooling costs, reduced HVAC sizes, improves indoor air quality. Up to 23 points can be earned toward LEED ratings.

HVAC: Heat-Recovery Ventilator

Principal Finishes:

Main exterior walls: Cement board with elastomeric finish. Exterior accent walls: Composite wood panels with natural wood veneer.

Floors: Concrete. Interior walls/ceiling: Gypsum board.

Windows: Vinyl Insulated glazing units with low-e glass

Sustainable/ LEED Concepts:

Using infill sites that have previously been graded. Rain water collection with storage under south facing patio decks.

Passive solar principles for heating and cooling.

Energy Generation by Solar PV and Solar Hot Water

Drought tolerant landscaping.
Better insulation values of walls and roof through use of Structural Insulated Panels.

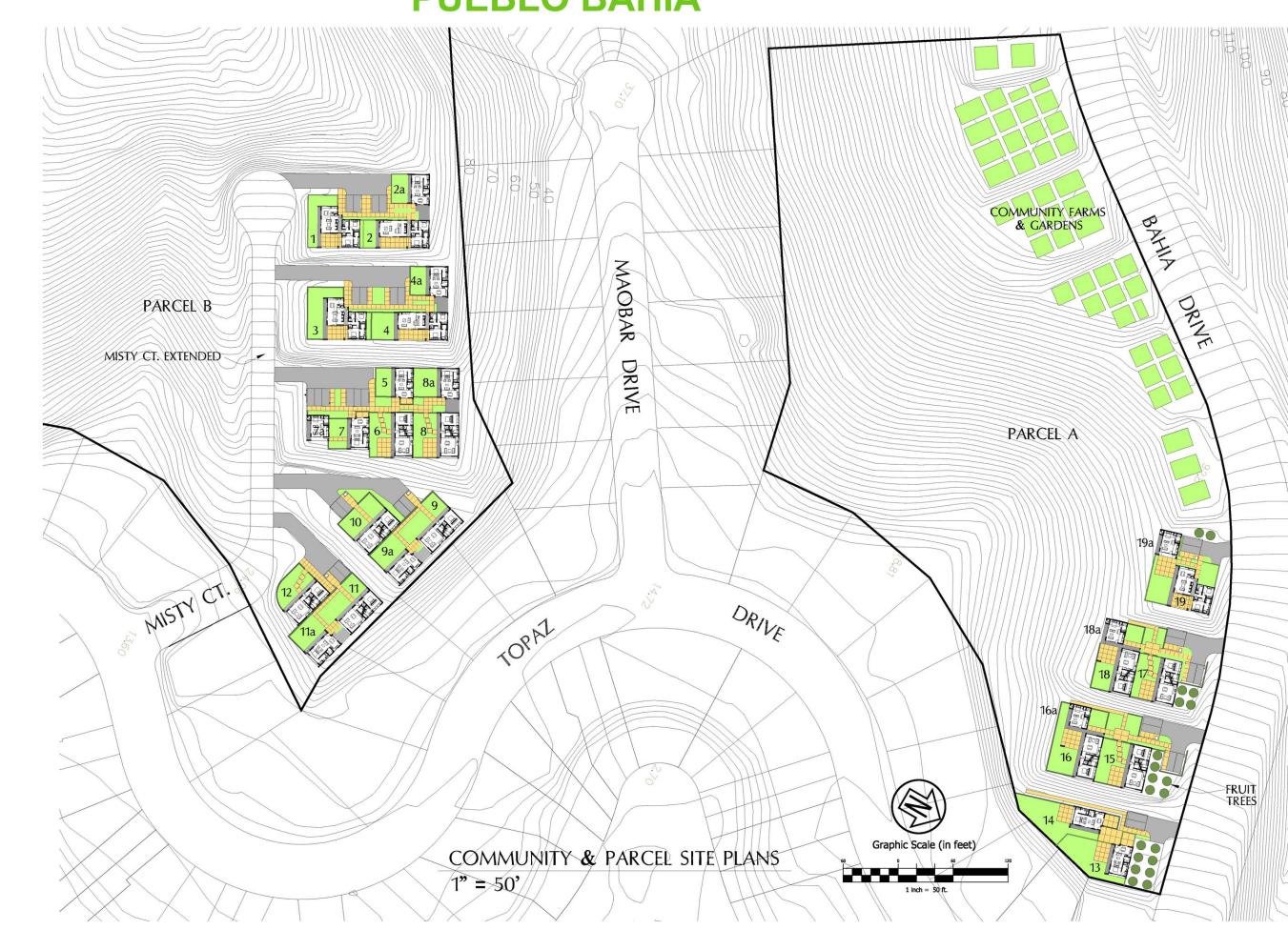
Access to daylight and views

California Senior Housing: Pueblo Bahia

| | IFORMAT II SUMMARY | | 23,626 GSF: | |
|---|---|-----------|-------------------|-------|
| | SECTION | % | TOTAL | \$/SF |
| | 10 FOUNDATIONS | 15% | 779,658 | 33 |
| | 20 BASEMENT CONSTRUCTION | 0% | 775,000 | _ |
| | 20 Brockert Concrete Control | 070 | | |
| Α | SUBSTRUCTURE | 15% | 779,658 | 33 |
| | 10 SUPERSTRUCTURE | 17% | 897,788 | 38 |
| | 20 EXTERIOR CLOSURE | 23% | 1,181,300 | 50 |
| | 30 ROOFING | 9% | 472,520 | 20 |
| В | SHELL | 49% | 2,551,608 | 108 |
| | 10 INTERIOR CONSTRUCTION | 13% | 661,528 | 28 |
| | 20 STAIRS | 0% | 001,320 | 20 |
| | 30 INTERIOR FINISHES | 7% | 354,390 | 15 |
| _ | INTERIOR | | 0.000.000.000.000 | 40 |
| С | INTERIORS | 20% | 1,015,918 | 43 |
| | 10 CONVEYING | 0% | - | - |
| | 20 PLUMBING | 5% | 236,260 | 10 |
| | 30 HVAC | 5% | 283,512 | 12 |
| | 40 FIRE PROTECTION | 0% | | - |
| | 50 ELECTRICAL | 6% | 330,764 | 14 |
| D | SERVICES | 16% | 850,536 | 36 |
| | DIRECT COST | | 5,197,720 | 220 |
| | Overhead and Profit | 9% | 467,795 | 20 |
| | BUILDING ESTIMATE TOTAL | 9-Dec | 5,665,515 | 240 |
| | Additive Items | | (Leave terretain | |
| | 1 Premium for PV System | | 400,000 | 17 |
| Ŷ | 2 Premium for passive hot water heating | | 32,000 | 1 |
| | BUILDING ESTIMATE TOTAL with Addit | ive Items | 6,097,515 | 258 |
| | SITEWORK | | | |
| | 10 SITE PREPARATION | | 350,000 | |
| | 20 SITE IMPROVEMENTS | | 1,500,000 | |
| | 30 MECHANICAL UTILITIES | | 600,000 | |
| | 40 ELECTRICAL UTILITIES | | 250,000 | |
| | 50 OTHER SITE CONSTRUCTION | | - | |
| _ | SITEWORK ESTIMATE TOTAL | | 2,700,000 | |
| | | | | |

CALIFORNIA SENIOR HOUSING DESIGN COMPETITION **PUEBLO BAHIA**

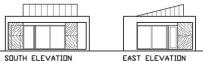
178_(top)

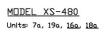


CALIFORNIA SENIOR HOUSING DESIGN COMPETITION

PUEBLO BAHIA







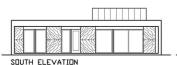




MODEL S-655 Units: 5, 9a, 11a, 13, 14,

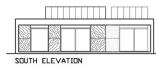
SOUTH ELEVATION





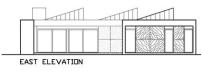
MDDEL M-960 Units: 6, 8, 9, 10, 11, 12, 15, 17,



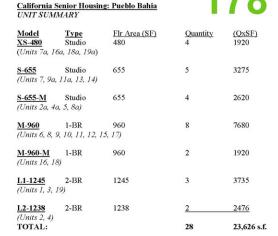


MODEL L1-1245 Units: 1, 3, 19

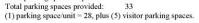




MDDEL L2-1238 Units: 2, 4



Parking: Total parking spaces required:

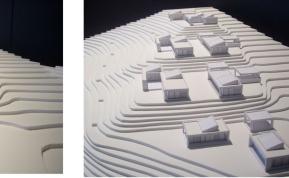


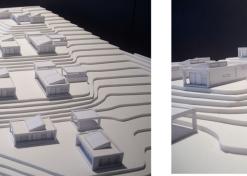






FAST ELEVATION

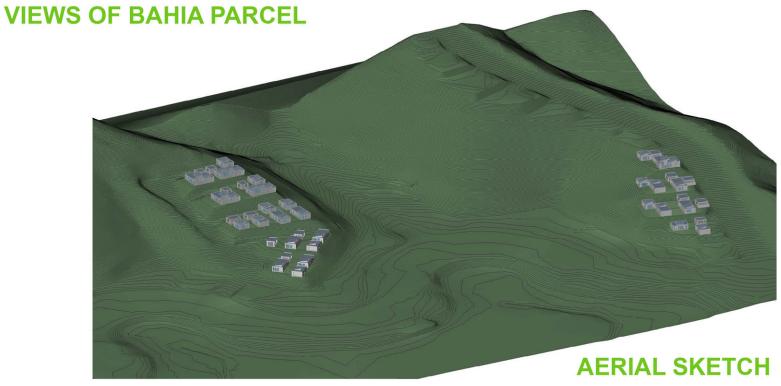


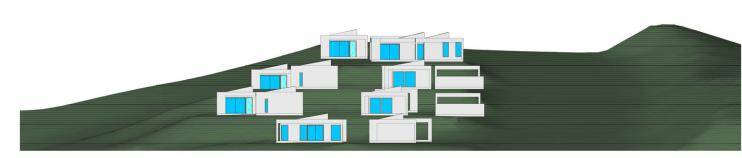


EAST ELEVATION









EAST SECTION-ELEVATION OF BAHIA PARCEL



