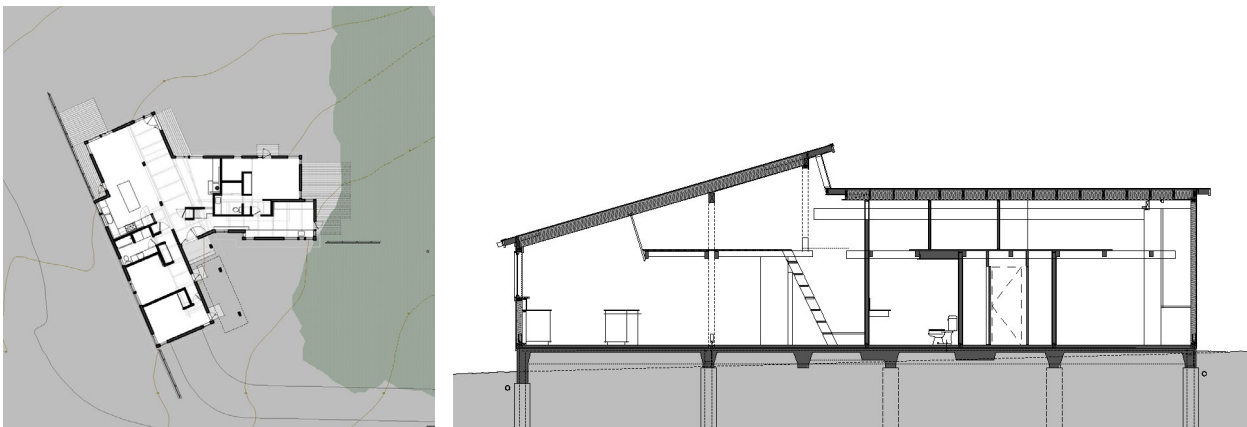




Pacific Reefs Residence, Albion CA
Studio Urbis - Brent Hinrichs, Design Partner in collaboration with Amy Lin.

SITE & PROGRAM

This project is located on an exposed coastal bluff along the Pacific Ocean in Northern California. The building is designed to work in conjunction with the adjacent cluster of windswept conifer trees, utilizing the incline of the buildings roofs which are set at an angle rising up from the direction of the ocean winds, in order to open up the interior section to the sun while providing for a wind sheltered outdoor garden territory to the south. The site section, coastal bluff line, local height restrictions and the limited developable area of the lot resulted in an articulated floor plan of a single ground level and several loft areas within the sloped roof section.



MATERIALS & CONSTRUCTION

Due to underlying geotechnical conditions the foundation system is a series of deep piers spanned by grade beams, both of reinforced concrete. The base concrete floor slab is structurally integral with the grade beams. The exterior wall framing is of standard 2x6 wood stud construction set at 24" spacings within the larger layout of a 4' structural planning module. The roof structure is also of standard lumber; using 2x12 rafters at 24" spacings. Engineered wood sections are used for the continuous headers in the wall construction. Exposed timber beams are used for the larger spans of the open plan areas, and the exposed columns are of locally sawn timber sections.



Externally both the fiber-cement siding and copper panels were designed to be installed with stainless steel screws and neoprene-backed washers set to the underlying stud layout. Rough-sawn 2x redwood boards are used for the exterior trim. The roofing surface utilizes high wind rated shingles; gutters and flashings are fabricated from sheet copper stock. All the fixed and operable windows and glass doors are of Douglas Fir with an extruded aluminum exterior cladding. Internally clear finished wood is used for all trim. A gas fired boiler and storage tank provides for both the domestic hot water and for the hydronic radiant floor system; located in the topping slab of the finished concrete floor.