Communal Living Environment

- Educational
  - Forestry
  - Vocational Training
    - Teach local students construction methods
    - Workshops/seminars on sustainability
  - Horticulture
  - Furniture Making

- People who live there work the land and supervise activities/teach
  - Building a community
Communal Living Environment (Cont.)

• Workshops for construction
  – Furniture to be sold at local markets

• Agriculture Land
  – Grow own food
  – Sell excess at local markets

• Dorms for interns
  – Temporary housing
Build a Community

Community building and units are the unity of the various disciplines
Concept

• Reaching out to unite the various disciplines
  – Much like the Madrone tree reaching out towards the Douglas fir tree and the two uniting into one.

• Create through layers of space
  – Much like the levels of tree branches

• Axial vs. Organic
  – Straight tree – Curved tree
Site Layout

- Agriculture
- Paths
- Community Building
- Units
- Dormitory
- Barn/Shop
TIN ROOF
PROMOTES
CONVECTION
CURRENTS

WALL CAVITIES VENT
INTO ATTIC THEN CUT
RIDGE VENT.

STRAW BALE

CELLULOSE
INSULATION

HUMID INTERIOR AIR
ESCAPES THROUGH
VAPOR PERMEABLE
FINISHES.

MOISTURE ESCAPES
BAILS INTO
VENTED CAVITY.

OUT SIDE AIR, DRAWN IN
WALL CAVITY BY CONVECTION
FORCES.

VENTING DIAGRAM
Practices to minimize rainwater penetration

- Standard overhang: Lots of rain hits wall
- Greater overhang: Less rain hits wall
- Porch overhang: No rain hits wall