TINY HOUSE COMPETITION
COSUMNES RIVER COLLEGE
THE TINY HOUSE COMPETITION- BUILD SMALL WIN BIG

- TINY HOUSE COMPETITION BY SMUD
- A FIVE PROGRAM COLLABORATION
  - ARCHITECTURE
  - ARCHITECTURAL DESIGN TECHNOLOGY
  - CONSTRUCTION MANAGEMENT
  - CONSTRUCTION
  - HORTICULTURE

Tiny houses make for one huge competition.
DESIGN DETAILS

• 10 COLLEGES ARE COMING TO COMPETE
  • University of California, Berkeley
  • California State University, Chico
  • College of the Sequoias
  • Cosumnes River College
  • California State University, Fresno
  • Laney College
  • California State University, Sacramento
  • San Jose City College
  • Santa Clara University
  • University of California, Santa Cruz & Cabrillo College

• LEARN BY DOING, DESIGN AND BUILD

• MULTIPLIER EFFECT
CRC HOSTING TINY HOUSE COMPETITION

OCTOBER, 2016

CRC IS SITE NUMBER 5
PARTNERS

- SMUD
- LOCAL ARCHITECTURE FIRMS
- CONTRACTORS
  - SOLIVA ENERGY
  - DANIELSEN CONSTRUCTION
- VENDORS
- LOS RIOS COMMUNITY COLLEGE DISTRICT
STUDENT DESIGNERS

• BRENDA DELGADO, ARCHITECTURE MAJOR
• HAVE BEEN AT CRC FOR TWO YEARS
• TRANSFERING NEXT SEMESTER TO A 4-YEAR COLLEGE
• CAME UP WITH THE TINY HOUSE DESIGN WITH KYLE KOCH, ARCHITECTURE MAJOR
SUSTAINABILITY STRATEGIES

- GREEN HOUSE PORCH USED FOR HEATING IN THE WINTER
  - COOLING PORCH IN THE SUMMER
- ROOF ACCESS
  - GREEN ROOF
  - VEGETABLE GARDEN
  - SOLAR PANELS
  - SMALL WATER TANK
  - SITTING AVAILABLE
TINY HOUSE INTERIOR DESIGN

- LIGHT COLORS
- NATURAL LIGHT
- DESK AREA
- COMFORTABLE LIVING SPACE
KITCHEN DESIGN

- AMPLE STORAGE ROOM
- PLENTY OF CABINET SPACE AND COUNTER
- ENERGY EFFICIENT KITCHEN APPLIANCES
TINY HOUSE SECTION

- WEST FACING WALL
- PLENTY OF STORAGE
- PULLOUT BED UNDER PORCH
CREATING THE STRUCTURE

- Integration of the Architectural Design and Construction Documentation Process
- Non-linear approach where students work back and forth between design and computer input
- Creating better documents to communicate design intent and early problem solving in construction phase
CONSTRUCTION PROCESS

- Used ADT working drawings to build it
- Close attention to energy efficient building assemblies
- Combination of commercial and residential building styles
- Dynamic building experience beyond conventional building methods
THE END RESULT

- TACTICAL TINY HOUSE VILLAGE
- LIVING LABORATORY