

# learn

## PORTABLE CLASSROOM ARCHITECTURE FOR HUMANITY



barrett studio architects  
1944 20th street  
boulder co 80302  
303.449.1141 p  
303.449.9320 f  
www.barrettstudio.com

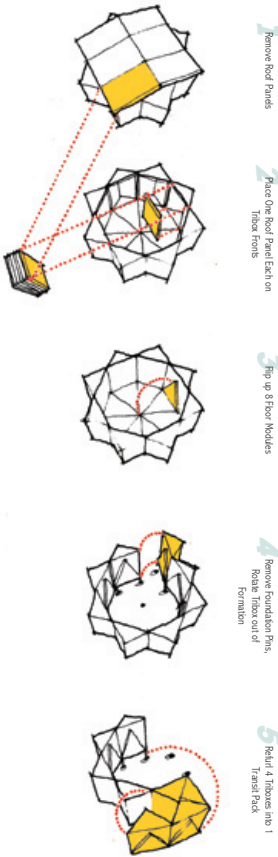
### holistic curriculum systems

- NUMERICAL** statistical, relational, spatial
- SOCIAL** cultural, political, historical, economic
- PHYSICAL** geological, chemical
- THOUGHT** spiritual, philosophical, psychological
- LIFE** biology, ecology, anatomy, physiology

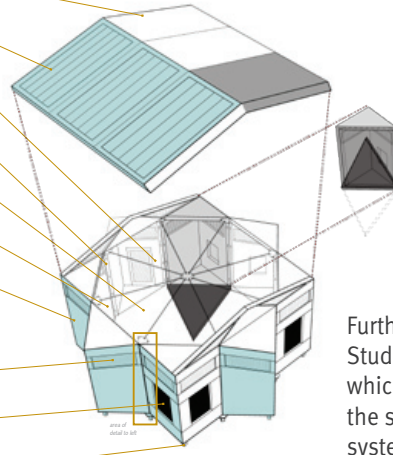


5-microenvironmental zones  
Colorado

Our commitment to environmental and experiential education had a perfect opportunity for creative exercise in the pro-bono Portable Classroom Competition design for Architecture for Humanity. Partnering with the Watershed School in Boulder, we conceived of a "positive trace" unrolling classroom. A curriculum designed by BSa engaged Watershed students in researching one of five Colorado microenvironments, envisioning a classroom tuned to that environment, building a model of that classroom, and then presenting their ideas to their classmates, under the instruction of BSa employees.



materials & systems	
	<b>SIPS ROOF CLADDING</b> Frewathered 26 gauge steel skin
	<b>SOLAR POWER</b> Thin Film Photovoltaic Laminate System, 1.0-1.2 Kw with Battery Storage
	<b>ROOF TENSION RODS</b> Structural Cable Tension System with Custom Steel Plates
	<b>HINGE</b> Continuous Heavy-Duty Piano Hinge, 6.5" Flange
	<b>SIPS INTERIOR CLADDING B &amp; FLOOR</b> Baltic Birch Veneer Plywood sealed with Gano Hard Wax Oil
	<b>SIPS INTERIOR CLADDING A</b> Polycrystalline Ceramic Steel Whiteboard
	<b>SIPS EXTERIOR CLADDING</b> Kip Biotech Ecoclad: post-consumer paper waste & bamboo fibers bound with water-based copolymer resin
	<b>SIPS CORE</b> 6-1/2" thick R-30 Polyurethane Foam
	<b>WINDOWS B</b> Fixed & Translucent, Polygal Polycarbonate Glazing System
	<b>WINDOWS A</b> Operable & Transparent, Double Pane Low-E Glass with thermally broken aluminum frame
	<b>FOUNDATION</b> Diamond Pier System with steel tube & plate connectors



Further research and design by Barrett Studio led to the Tribox Classroom, in which a square rotated upon itself forms the simple plan for a holistic curriculum system. Efficient transit packs and tree planting in holes left by foundation piers lead to a flexible, portable, positive trace learning environment that reconnects children with nature, through the built environment.

