

2012 Exhibition of School Planning and Architecture

South Tahoe High School [4 Specialized Projects]

South Lake Tahoe, California
High School
Project of Distinction
LPA, Inc.

South Tahoe High School



① CTE – Green Academy



③ CTE – Media & Performing Arts Academies



④ Joint Use Student Union



② ORG – CR Replacement

Green Academy

Community Environment:

Lake Tahoe is wonderful place to live, play and go to school. However the remote and isolated location limits educational resources and career exploration opportunities for students. With the recent devastation from the Angora Fires, the district will need every resource available as they work together to rebuild their community while maintaining the clarity of the lake and protecting a fragile environment. Lake Tahoe students need to learn skills which will both expand economic opportunities in the basin while preserving the "Tahoe Culture."



ORG

Classroom Replacement

Community Environment:

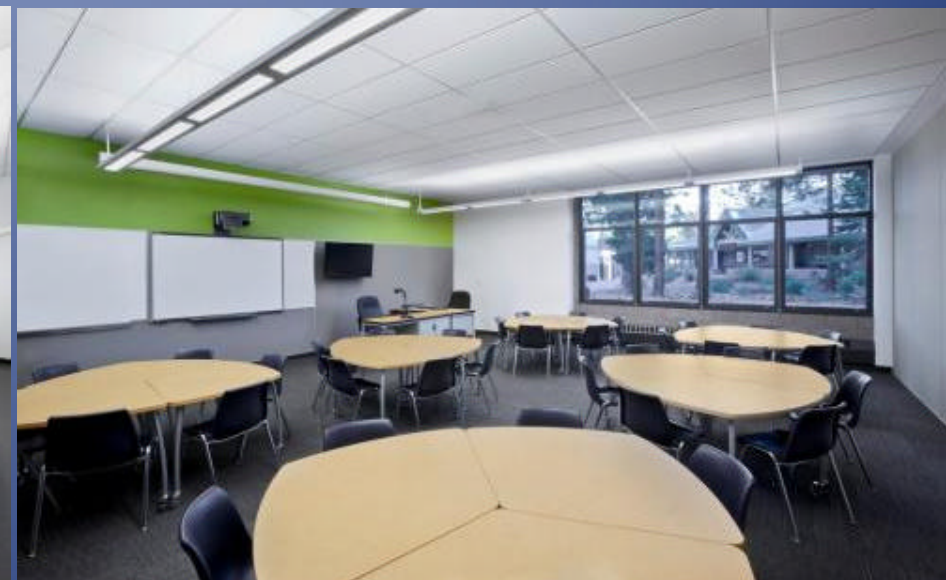
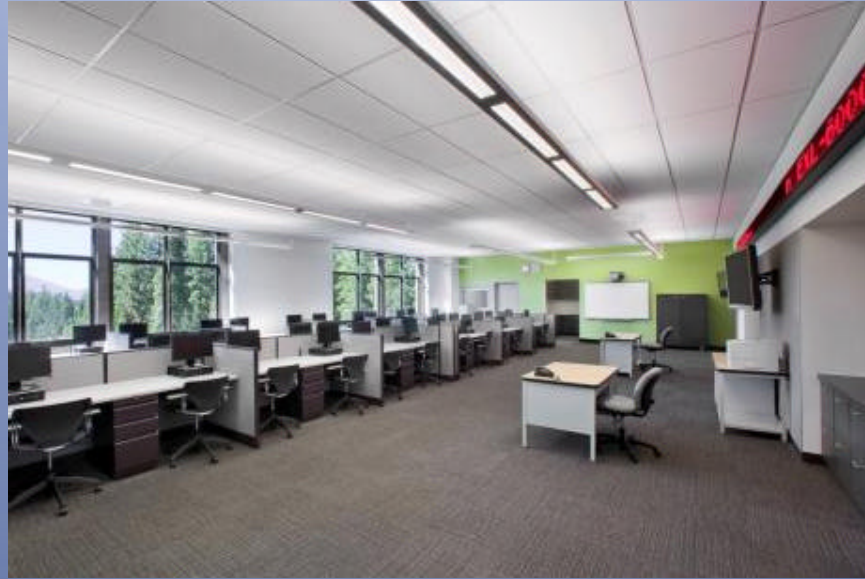
Although Tahoe is considered a playground for the more affluent, with tourism raising the population numbers beyond 200,000 on weekends and holidays, the small number of residents who do call this place home have been described as “poverty with a view.” This being said, STHS faces unyielding challenges as well as extraordinary opportunities for development and change. Partnerships with the city, local community college, industry partners, and community foundations were formalized and resulted in four successful grants to augment funding and build much needed community centered facilities for this unique region.



CTE Pathways

Learning Environment:

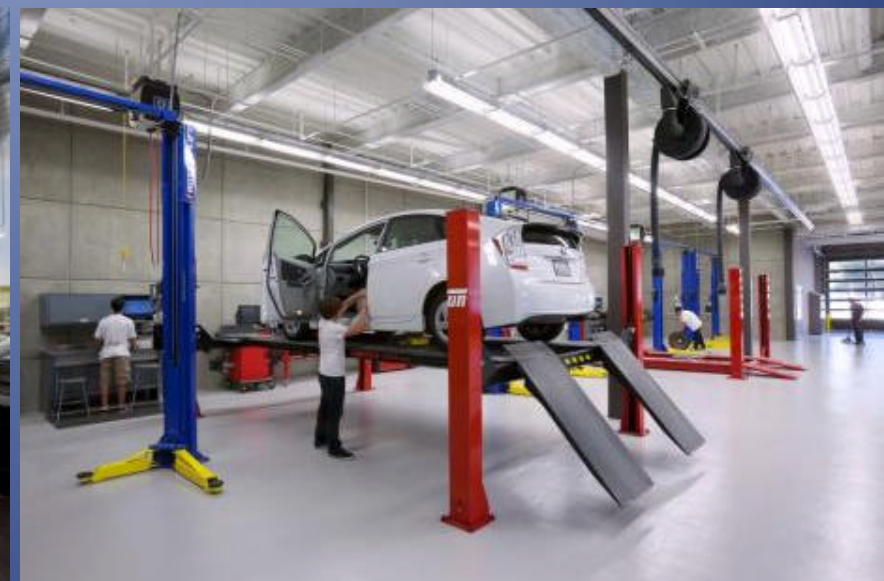
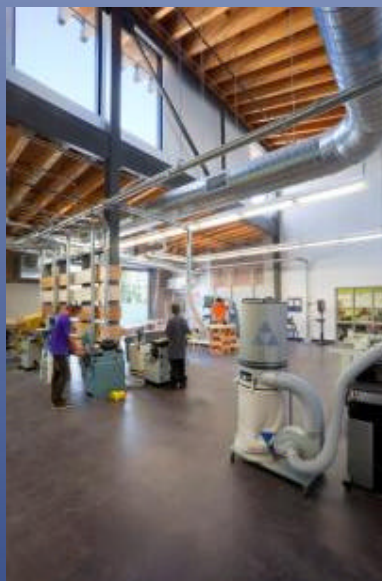
The initial impetus for a focus on CTE came partly from an analysis of dropout data which demonstrated a steadily increased rate over the last 5 years and the fact that only 26% of graduating students were eligible to apply to 4-year colleges. These facts prompted the STHS staff to evaluate how they could better meet the needs of all their students enabling each to be successful. Building on existing program strengths, the local bond and matching grants enabled state of the art equipment to augment learning in a hands-on environment.



Idea > Design > Build

Learning Environment:

Integrated into the CTE program is a series of foundational basic skills for math competencies, multimedia, English and career/college exploration and soft skills to complement the hard skills learned in the specific pathways. These four specialized learning environments will raise the level of education in this community, attracting much needed professionals to live and establish their business locally.

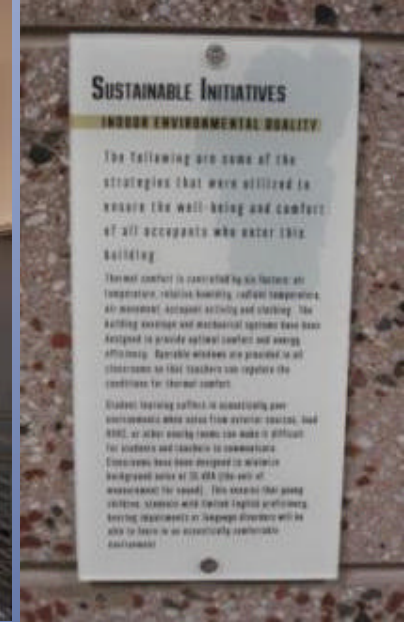


School as a Teaching Tool

Physical Environment –

“Sustainability is Community Development” was the abiding theme. The green skills offered by the CTE programs allow students to stay and raise families with careers that bring value to their community while at the same time demonstrating principles being taught in the classroom that will ‘Keep Tahoe Blue’ – promoting a healthier, lasting environment.

The projects are a direct response to educational program as well as the changing climate. Both buildings touch the site ‘lightly’ to minimize the impact on existing trees and slope, allowing the structure and its surround to coexist. The roof pitch is orientated towards the southern sun, promoting snow melt that dumps safely to a dedicated area.



Educational Signage

Physical Environment

Masonry block provides durability and thermal mass, complemented with recycled horizontal fiber cement panels that provide natural fire resistance. Insulated glazing maximizes daylight in the classroom – and the Green Academy showcases the design studios as the new identity for the campus entry drive. The colors of the buildings are harmonious with the surrounding landscape while signage and graphics campus wide highlight the attributes of the project that make it unique and environmentally responsible. This forward thinking ideology is carried through the academies as well, introducing future technology such as alternative fuel sources and superior performance & theater equipment. The program and design of these two academies promotes a lasting educational experience that will inspire generations to come.



Collaborative Instruction

Planning Process:

Lake Tahoe students must be prepared to succeed beyond high school, ready for the world beyond the local community. A cross-functional team of District leaders, school administrators, teachers, students and design professionals realized that viable pathways must be created to increase the college-going rate. This dedicated group worked together in the master planning phase in 2007 to create, program, fund these exceptionally unique CTE programs and the team remained consistent through the design phase.



Real Life Opportunities

Planning Process:

Tours of Hollywood studios were conducted during design with input from career professionals to ensure the right equipment and space adjacencies were achieved. The contractor was hired for the first two construction projects and has partnered with the owner and design team to deliver the three subsequent projects. The team continuity has ensured that the vision and goals established in 2007 are carried out when the last project opens in 2012.



Exhibition of School Planning and Architecture

Project Data

Submitting Firm :	LPA, Inc.
Project Role	Architectural, Landscape, Interiors, Graphics, and Structural Engineering
Project Contact	Wendy Rogers, AIA
Title	Design Principal
Address	5161 California Avenue, Suite 100
City, State or Province, Country	Irvine, CA 92617 USA
Phone	949.261.1001
Joint Partner Firm:	n/a
Project Role	
Project Contact	
Title	
Address	
City, State or Province, Country	
Phone	
Other Firm:	n/a
Project Role	
Project Contact	
Title	
Address	
City, State or Province, Country	
Phone	
Construction Firm:	SMC Construction
Project Role	Lease/Leaseback
Project Contact	Joe Stewart
Title	
Address	18134 Wedge parkway, Suite 410
City, State or Province, Country	Reno, NV 89511 USA
Phone	530.600.0900

Exhibition of School Planning and Architecture

Project Details

Project Name	South Tahoe High School – 4 Specialized Projects
City	South Lake Tahoe
State	California
District Name	Lake Tahoe Unified School District
Supt/President	Dr. James Tarwater
Occupancy Date	Phased Occupancy - September 2010-12
Grades Housed	9-12
Capacity(Students)	31 New Classrooms = 832 Students
Site Size (acres)	30 Usable Acres (80 Gross Acres)
Gross Area (sq. ft.)	100,500 SF New
Per Occupant(pupil)	120 SF (estimated)
gross/net please indicate	100,500/82,000 = 1.22
Design and Build?	Yes
If yes, Total Cost:	\$45.7 Million
Includes:	Building, Site and Fixed Equipment
If no,	
Site Development:	
Building Construction:	
Fixed Equipment:	
Other:	
Total:	

Green Academy

Project #1:

Completed in 2010 the Green Academy, includes two Career Technical Education pathways for the Automotive/Transportation and Construction Technologies pathway curriculums. They have been added to the high school campus in order to expand the educational opportunities for students and better prepare students for entrance into specialized higher education programs or local work force professions. Program spaces in the new building include a (10) bay auto shop modeled on an auto dealership, construction technologies lab, CAD drafting lab, and graphic design lab.



ORG

Classroom Replacement

Project #2:

Funded by a \$12 million "Overcrowded Relief Grant" (ORG) to eliminate portable buildings. In addition to 15 teaching stations specialized learning environments include a dental lab and workspace, business and environmental science labs and a flexible instructional space for the AVID program.



TADA

Project #3:

Completed in 2011, the Media Performing Arts Academy, encompasses both a complete modernization of the existing Theater and an 11,000 SF Media and Design Arts School Expansion to replicate 'Hollywood Studios'. The school is a resource for the community and provides it's only Performance Theater. Students have the opportunity to engage themselves in television and editing skills that allow them to understand the ever-growing world of media and technology for Careers in Local News and Entertainment.



Student Union

Project #4:

Opening in September 2012 is an 18,000 SF Joint-Use Student Union. A multi-purpose room and full kitchen with an open concept meeting and training facility are designed to meet the needs of district staff with multi-media and communications technology. These social spaces are adaptable for many community and school uses and provide the first indoor educational environment to hold the school population during inclement weather.

