

# SCHOOL

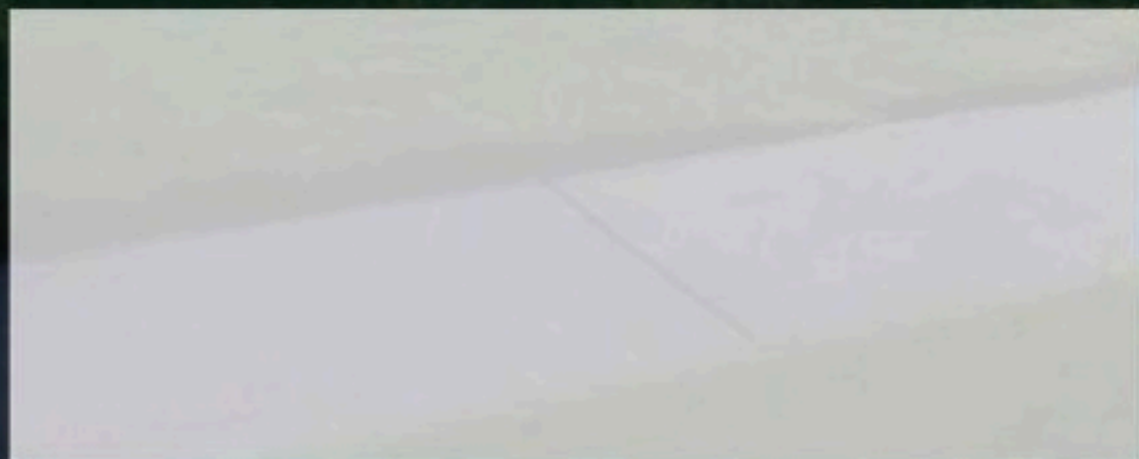
Planning & Management

FACILITIES • SECURITY • TECHNOLOGY • BUSINESS

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## RENOVATE, REBUILD, RESTORE

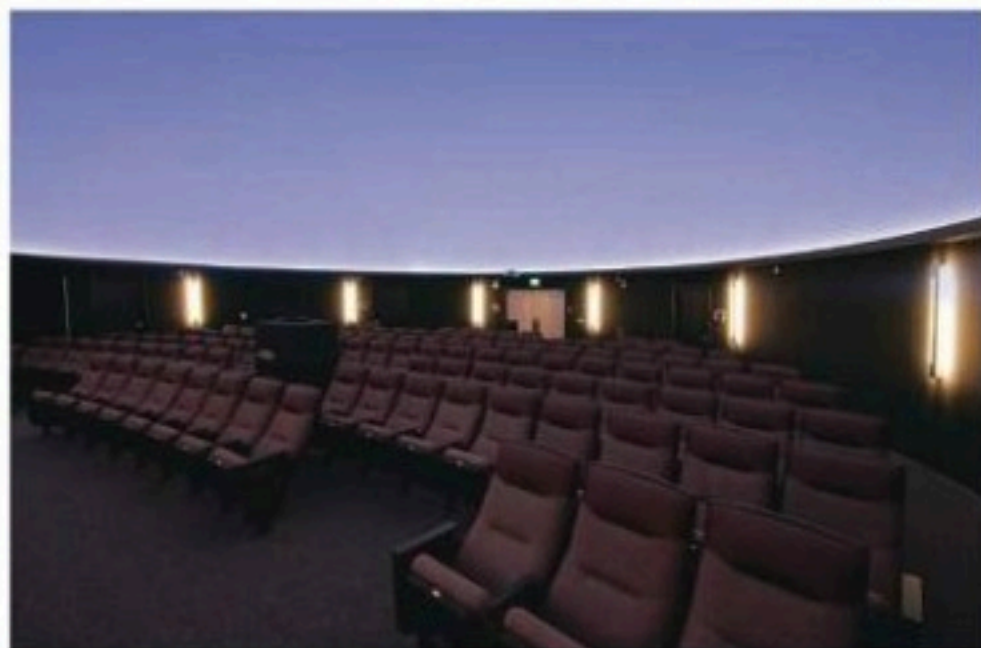
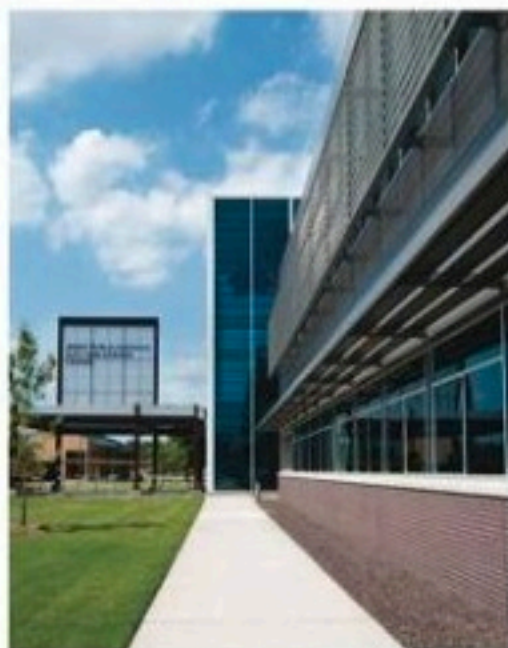
Where Most School Construction  
Dollars Are Being Spent



**K-12 RESTROOMS**  
FOUNDATIONAL TO A  
SCHOOL COMMUNITY

**OUTDOOR LEARNING SPACES**  
USING ROOF SPACE CREATIVELY FOR  
STUDENTS AND COMMUNITY

**2011 SUSTAINABILITY & INNOVATION AWARDS**  
GREEN DESIGNS IN  
EDUCATIONAL FACILITIES



## Jenks New Math & Science Center

Jenks Public Schools  
Jenks, Okla.

### ARCHITECTURAL FIRM

#### GH2 Architects, LLC

320 S. Boston, Ste. 1600  
Tulsa, OK 74103  
[www.gh2.com](http://www.gh2.com)  
918/587-6158

#### TMP Architecture, Inc.

1191 W. Square Lake Rd.  
Bloomfield Hills, Mich. 48302  
[www.tmp-architecture.com](http://www.tmp-architecture.com)  
248/338-4561

### DEVELOPMENT TEAM

Michael Hall, AIA, CCS  
918/587-6158  
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248/338-4561

### PROJECT INFORMATION

Capacity (students)	570
Site size (acres)	3
Gross Area (sq. ft.)	91,580
Per Pupil (sq. ft.)	161
Cost per Student	\$40,364
Cost per Sq. Ft.	\$251
Total Project Cost	\$23,007,503
Project Completion Date	July 2011

### GREEN DESIGN

#### Principles Followed

LEED

#### Certificates Obtained

In the process of submitting for LEED Silver

#### Green Elements

##### Site Selection and Development

Site Selection, Building Orientation, Storm-water Management, Heat Island Reduction

##### Water Efficiency

Water Conservation

##### Energy Efficiency and Conservation

Energy Efficiency, Building Automation/ Energy Mgmt. Systems, Natural Ventilation, Alternative Energy

##### Materials

Recycling/Reuse, Sustainable Materials Selection

##### Indoor Environmental Quality

Use of Daylighting, Electric Lighting Systems and Controls, Acoustics, IAQ

##### Awareness & Education

Building as a Teaching Tool

##### Alternative Energy Sources

Geothermal, Wind Turbines as a Teaching Tool (not for building power)

##### Commissioning

Building/Systems have been commissioned

##### Funding Method

Revenue Bonds

**T**HIS 91,580-SQUARE-FOOT MATH AND SCIENCE CENTER for Jenks Public Schools, located near Tulsa, is a distinct central addition to the high school campus. The new building, designed by TMP Architecture, Inc. and GH2 Architects, LLC, is targeted for LEED Silver certification. It establishes a "bridge" between the senior high facilities and the Freshman Academy. The facility creates a collaborative environment encouraging interaction among students, science and math teachers. Evening access is provided for students and community members, encouraging lifelong learning and expanding the boundaries of educational opportunities such as conferences, math and science fairs and community events.

The incorporation of universal studios for both science and math instruction in lieu of labs and classrooms is a noteworthy design feature. This concept provides ultimate flexibility for collaboration and curriculum delivery. A 120-seat planetarium and a large multi-use presentation hall further enhance this specialized learning center. To encourage knowledge of environmental issues, a number of sustainable design elements were incorporated throughout the building. Components include exposed geothermal heating and cooling systems, recycling centers and sun control devices. Through both active lessons and passive observation, the building offers the opportunity to observe these features and raises awareness of energy usage.