2012Exhibition of School Planning and Architecture

CASEY MIDDLE SCHOOL

Boulder, CO K-12 / Middle School Architecture RB+B Architects, Inc.



CASEY MIDDLE SCHOOL

The 8.4-acre urban site incorporates a new football / soccer playing field of artificial turf which allows a much higher level of use by both the school and community. An outdoor plaza and stage along 13th Street fronts on the historic west elevation just two block from the Pearl Street Mall. The existing walls of the original 1924 school building, while creating an outdoor space, provides school and community gathering as well as a concert venues.

Photovoltaics / Covered Bicycle Parking

Community Environment:

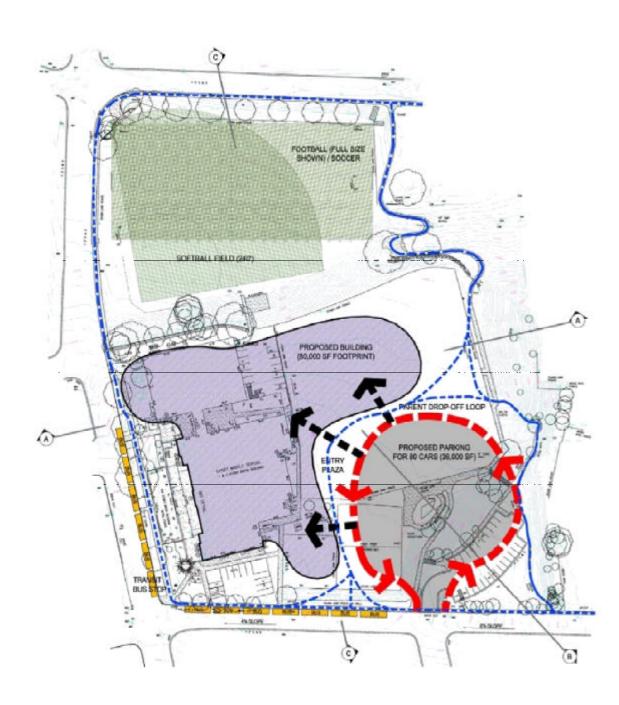
The funding for the New Casey Middle School was part of a much larger district-wide, \$297 million bond issue passed in November of 2005. The City of Boulder also committed \$1.8 million to the New Casey Middle School stipulated for sustainable enhancements to include a LEED for Schools Gold or higher certification. The building has surpassed that goal and become the first school in Colorado to earn LEED Platinum.

The existing Casey Middle School was first constructed in 1924, as a three-story collegiate gothic structure. Additions were made in 1956, 1970, and 1990, for a total of 87,000 square feet on the site.



Concept Development

Planning Process: The with the Design Advisory involved 18 meetings over period. As program spac were developed "equity" Middle Schools in the Distinguishment consideration; not a mandate. The DAT Casey Middle School to art sustainable school for School District. Sustaina included minimal impact visitor parking at the fron



Preserving Casey's Historic Walls

Planning Process: Reaching consensus on a design concept required the design team to listen carefully to a somewhat polarized, and many times emotionally charged, Design Advisory Team. There was a component of the DAT that wanted to preserve the 1924 collegiate gothic building. Many, however, saw the historic school with 675-square-foot classrooms and riddled with structural issues as unworkable for educating children into the future and wanted to see the existing building demolished and given a clean site for the New School.

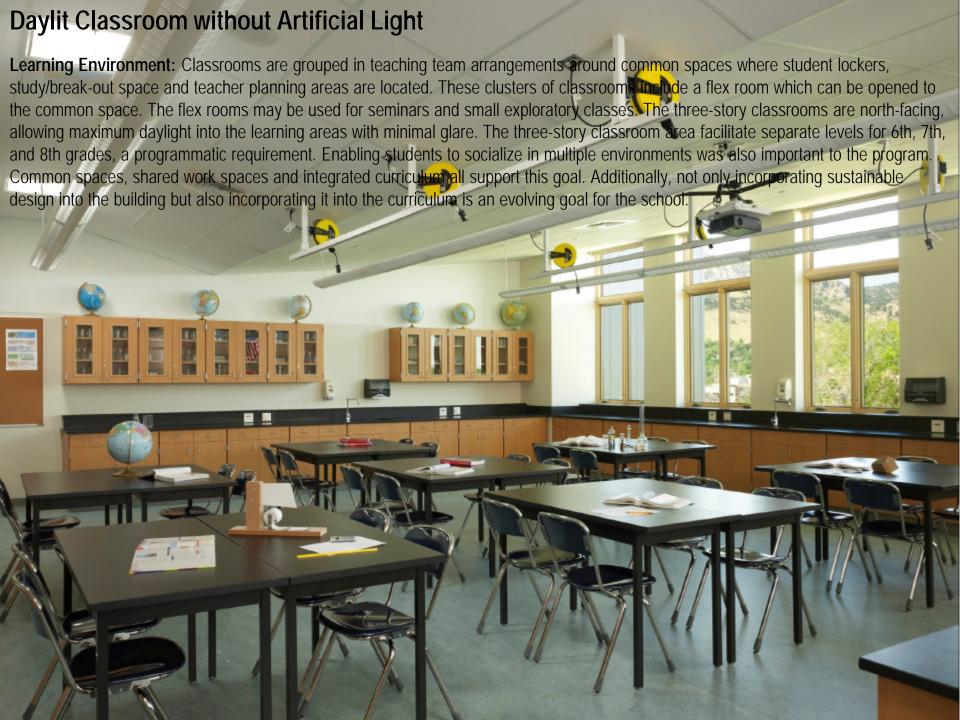
The architect developed a concept for both scenarios, working closely with the CMGC, who developed construction cost estimates. The cost to renovate the historic building was \$2.2 million higher than demolishing the existing school and building new. A third scenario of demolishing the existing building while saving the original west and south walls of the 1924 building surfaced. This third scenario received support from 22 of the 24 DAT members and moved forward.



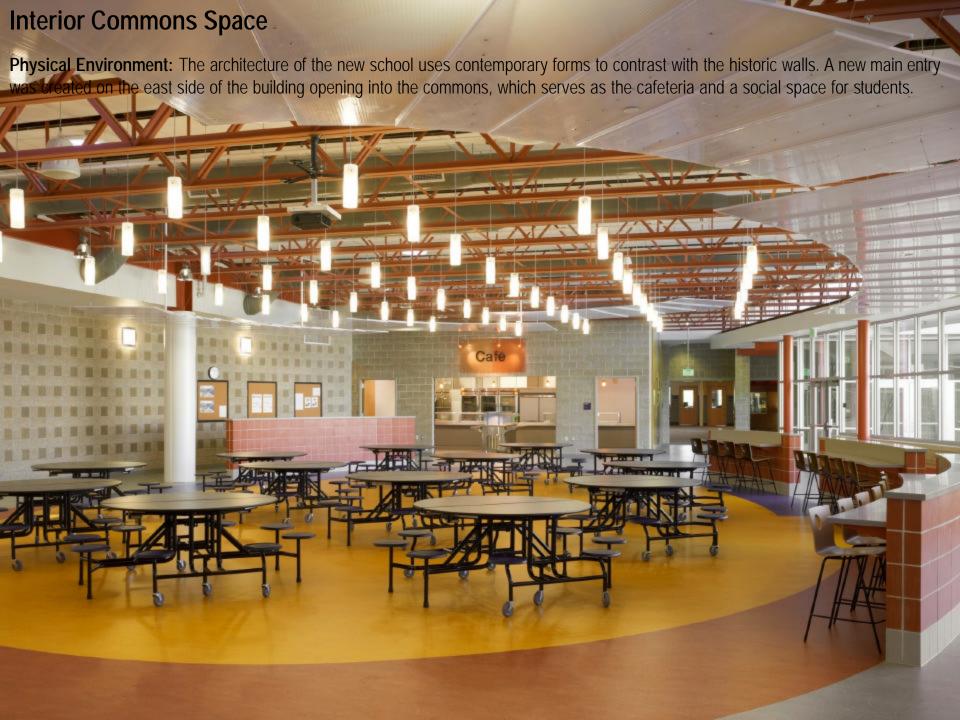
Main Entry

Community Environment: The school accommodates after hours use by closing classroom areas while leaving the gym and auditorium open to the community. Both have their own separate entrance. The auditorium will have a full stage, support spaces and seating for 350 people. The cafeteria/commons also serves as a community use space and visually and physically opens to the large people-plaza to the east.









Achieving LEED Platinum

Physical Environment

With the added monetary infusion of the City of Boulder's Excise Tax, the design team was able to employ sustainable strategies that led Casey Middle School to become the first LEED Platinum school in Colorado. Sustainable features include:

Approximately 80% of required lighting levels achieved from controlled daylight.

- Heating and cooling of the school achieved by a water-to-air ground source heat pump.
- Recycled and low VOC materials used throughout.
- Xeriscaping and bioswales for water conservation.
- Auditorium retractable seating creating additional performing arts and instructional space.
- The site open space and playground was maximized by developing a below grade parking level for over 50% of the required parking by deepening the crawl space under the required structural floor (under the Gymnasium).



Exhibition of School Planning and Architecture Project Data

Submitting Firm :	RB+B Architects, Inc.
Project Role	Architect, Interior Designer
Project Contact	Lacey Reckelhoff, CPSM
Title	Director of Marketing
Address	315 E Mountain Ave, Suite 100
City, State or Province, Country	Fort Collins, CO 80524, USA
Phone	970-484-0117

Construction Firm:	Saunders Construction
Project Role	General Contractor
Project Contact	Jason Godby
Title	Project Manager
Address	6950 South Jordan Road
City, State or Province, Country	Centennial, CO 80112, USA
Phone	303-617-3874

Other Firm:	MKK Consulting Engineers
Project Role	Electrical Engineer
Project Contact	Chris Williams
Title	Senior Electrical Designer
Address	7600 E. Orchard Rd, Suite 250, Harlequin Plaza
City, State or Province, Country	Greenwood Village, CO 80111, USA
Phone	303-796-6000

Other Firm:	EMC
Project Role	Mechanical Engineer
Project Contact	Walker Jones
Title	Mechanical Engineer
Address	143 Union Boulevard, Suite 350
City, State or Province, Country	Lakewood, CO 80228,USA
Phone	303-974-1200

Exhibition of School Planning and Architecture Project Data

Other Firm:	Architectural Energy Corporation (AEC)
Project Role	Commissioning
Project Contact	John Wood
Title	Facility Systems Commissioning Professional
Address	2540 Frontier Avenue, Suite 100
City, State or Province, Country	Boulder, CO 80301, USA
Phone	303-444-4149

Other Firm:	YRG Sustainability Consultants
Project Role	Sustainability Consultant
Project Contact	Dan LeBlanc
Title	Senior Sustainability Manager
Address	1821 Blake Street, Suite 3A
City, State or Province, Country	Denver, CO 80202, USA
Phone	303-305-9819

Other Firm:	JVA, Inc.
Project Role	Structural Engineer / Civil Engineer
Project Contact	Kevin Tone Kevin Tone
Title	Engineer/Principal
Address	1319 Spruce Street
City, State or Province, Country	Boulder, CO 80302, USA
Phone	303-444-1951

Other Firm:	Design Concepts
Project Role	Landscape Architect
Project Contact	Erik Spring
Title	Landscape Architect
Address	211 North Public Road, Suite 200
City, State or Province, Country	Lafayette, CO 80026, USA
Phone	303-664-5301

Exhibition of School Planning and Architecture Project Data

Other Firm:	Kitchen Tech
Project Role	Kitchen Consultant
Project Contact	Brian Johnson
Title	Director of Design
Address	1179 Weld Road 21, Suite 100
City, State or Province, Country	Brighton, CO 80603, USA
Phone	303-654-9911

Other Firm:	Geiler & Associates
Project Role	Acoustical Consultant
Project Contact	Daniel Hicks
Title	Acoustic Designer
Address	12355 East Cornell Avenue
City, State or Province, Country	Aurora, CO 80014, USA
Phone	303-766-7100

Exhibition of School Planning and Architecture Project Details

Project Name	Casey Middle School
City	Boulder
State	co
District Name	Boulder Valley School District
Supt/President	Dr. Bruce K. Messinger
Occupancy Date	August 1, 2010
Grades Housed	6-8
Capacity(Students)	600 students
Site Size (acres)	8.4 acres
Gross Area (sq. ft.)	106,458 sf
Per Occupant(pupil)	177 sf/pupil
gross/net please indicate	Gross
Design and Build?	No, CMGC Process
f yes, Total Cost:	
Includes:	
f no,	
Site Development:	\$2,751,689
Building Construction:	\$23,326,058
Fixed Equipment:	\$474,216
Other:	
Total:	\$26,551,963



