2014 Exhibition of School Planning and Architecture

McBride High School

Long Beach Unified School District

Long Beach, CA

McBride High School

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1 Student Services
2 Lecture Hall
3 Academy Labs
4 Classrooms / Commons
5 Science Building
6 Student Union
7 Main Street
8 Athletic Center

A School in a Park

Community Environment

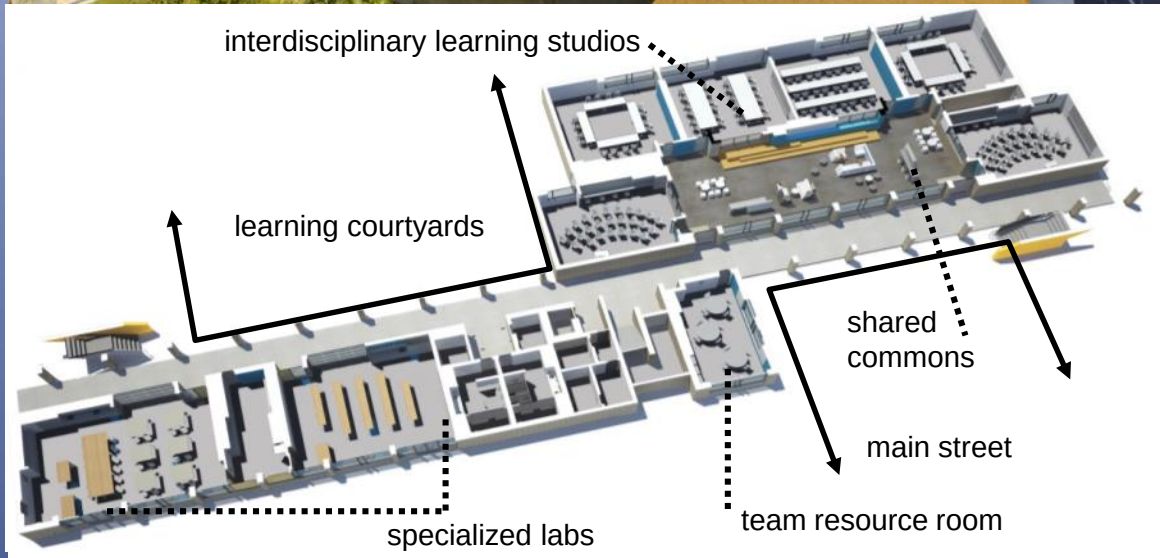
McBride is the district's first new small thematic high school and is in contrast to existing larger comprehensive 4000-student campuses. A community-based master plan process chose the project site of an existing middle school with declining enrollment. Being sensitive to the surrounding residential neighborhood, the school site gives back green space to the community, and scales down the site to respond to its surroundings with public parkland. The three thematic pathways; health/medical, engineering, and public services respond to local industries and areas of economic growth.

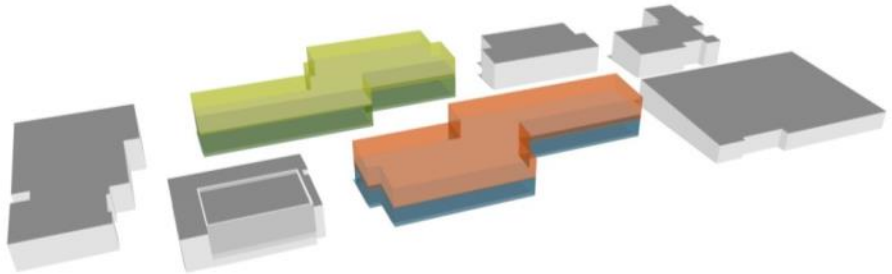
Schools Within a School

Community Environment

A collaborative approach to the design involved local business partners, research of emerging technologies, and development of new curriculum and education standards. Through internships and projects with local businesses, the school fosters student engagement by knowing students well and building a strong sense of community.

Each pathway has a classroom cluster around a central breakout space, with specialized labs on the “Main Street” front. The retail-like storefronts and garage doors open onto learning courtyards and common areas, letting student learning blend into social gathering space, promoting the projects and fields of study to the greater school community. Shared resources such as the library/media center, student services, athletic complex, and food service also connect to Main Street and serve to unite the student body.





Diverse Learning Spaces

Learning Environment

Engaging environments that encourage agility in the learning space

Learning happens EVERYWHERE

The process of learning should be on display / the energy is contagious

Flexibility is seen throughout with multiple uses for any one space

Outdoor environments are programmed for academy-focused activities

Shared learning environments occur in all scales, small – medium – and large

Flexible Spaces

Learning Environment

Through the planning and design phases, one of the challenges was not having a ‘user’ to gain insight about the activities that would occur in the labs or classrooms. This proved to become an asset for the team, as the solutions were now driven by creating ultimate flexibility and providing opportunities for future adaptability to occur. The Labs are almost universal ‘project’ or ‘messy’ labs…it is what goes into these labs, FF&E and the Technology that makes them so specialized. Allowing the Furniture and Equipment to define the Academy provides a **“pedagogy-on-demand” environment.**

A Sustainable School

Physical Environment

Designed to qualify for the Collaborative for High Performance Schools (CHPS) Verified Program, the McBride campus exceeds California Title-24 energy standards by 40% and is a model of sustainability:

- Daylighting is provided for over 95% of the occupants
- A 277-KW photovoltaic system meets 60% of the estimated energy use
- Stormwater percolates into the playfields for polishing and groundwater regeneration

Shared spaces

Physical Environment

These collision-rich environments allow for ‘un-planned’ learning to occur. The environment supports a culture of learning by creating personalized spaces for CTE as well as shared environments that allow the students to come together either as a team in the Commons, as an entire academy in the Lecture Hall or as an entire school community in the Gym.

Academy Clusters include classrooms, labs, commons outdoor labs, and a student / faculty resource center

The Furniture and Technology needs meet the aspirations of the community and industry

McBride has scaled spaces for collaboration and social learning

The labs open to both their outdoor labs and to Main Street to encourage transparency and a culture of sharing knowledge

Community Engagement

Planning Process

The planning principles reflect the Facility Master Plan theme of **Building on Success; Schools for the Next Generation of Learning** and included:

Creating learning environments to meet schools for the next generation

Renovation and replacing aging infrastructure: two-thirds of the schools in LBUSD are over 50 years old,

Declining Enrollment & Elimination of Portables on Campus

Changing the size and types of high schools + opening choice thematic high schools

The collaboration included a planning team, master architect, engineering disciplines, community advisory committee, 7 district planning committees and input from thousands of stakeholders. The innovative result is a **new educational delivery system.**

In-depth Inquiry

Planning Process

Research-based discussions, facilitated by both Educators and Planners allowed the Committee to establish educational goals and characteristics of the environment that would provide agile learning spaces for all types of learners. The Curriculum and Planning Committee established an innovative process to learn from the success of other schools across the nation. This led to the creation of 5 sub-committees that would embark on a research-based, student-led series of tours to Career Technical and Small Learning Community Schools across the United States.

Additionally, several committee members (including the Design Team) participated in full Industry Immersion Days to gain insight into the career focused and technology needs of the pathways.

First Floor plan

LEGEND

1 student services building
2 career center / industry partner welcome room
3 academy commons
4 academy labs
5 interdisciplinary classrooms
6 science labs
7 student dining
8 gymnasium
9 fitness studio
10 IEP resource room
11 student leadership workroom
12 interdisciplinary lecture hall
13 professional development
14 central plant
15 locker rooms
16 student store

Second Floor plan

LEGEND

1 library/ media center
2 professional development
3 digital arts / tech literacy
4 academy labs
5 interdisciplinary classrooms
6 student commons
7 science labs – experimentation space

Exhibition of School Planning and Architecture Project Data

Submitting Firm :	LPA, inc.
Project Role	Architect, planning
Project Contact	Donald Pender
Title	Principal
Address	5161 California Ave. #100
City, State or Province, Country	Irvine, CA 92617
Phone	949-261-1001

Joint Partner Firm:	
Project Role	
Project Contact	
Title	
Address	
City, State or Province, Country	
Phone	

Other Firm:	DeJong-Richter
Project Role	Planner
Project Contact	William DeJong, Ph.D. REFP
Title	Senior Advisor
Address	4945 Bradenton Ave. Suite B
City, State or Province, Country	Dublin, OH
Phone	(614) 526-3072

Construction Firm:	Hensel Phelps
Project Role	General Contractor
Project Contact	Vitas Rugienius
Title	Operations Manager
Address	18850 Von Karman, Suite 100
City, State or Province, Country	Irvine, CA 92612
Phone	949-852-0111

Exhibition of School Planning and Architecture Project Details

Project Name	Ernest S. McBride, Sr. High School
City	Long Beach
State	California
District Name	Long Beach Unified School District
Supt/President	Christopher J. Steinauser
Occupancy Date	August 2013
Grades Housed	9-12
Capacity(Students)	1,000
Site Size (acres)	24.59 Acres
Gross Area (sq. ft.)	182,000 SF
Per Occupant(pupil)	182
gross/net please indicate	gross, 150 net
Design and Build?	No
If yes, Total Cost:	
Includes:	
If no,	
Site Development:	$16,000,000
Building Construction:	$49,800,000
Fixed Equipment:	$1,000,000
Other:	$1,200,000
Total:	$68,000,000

Supporting/Supplemental files/Images

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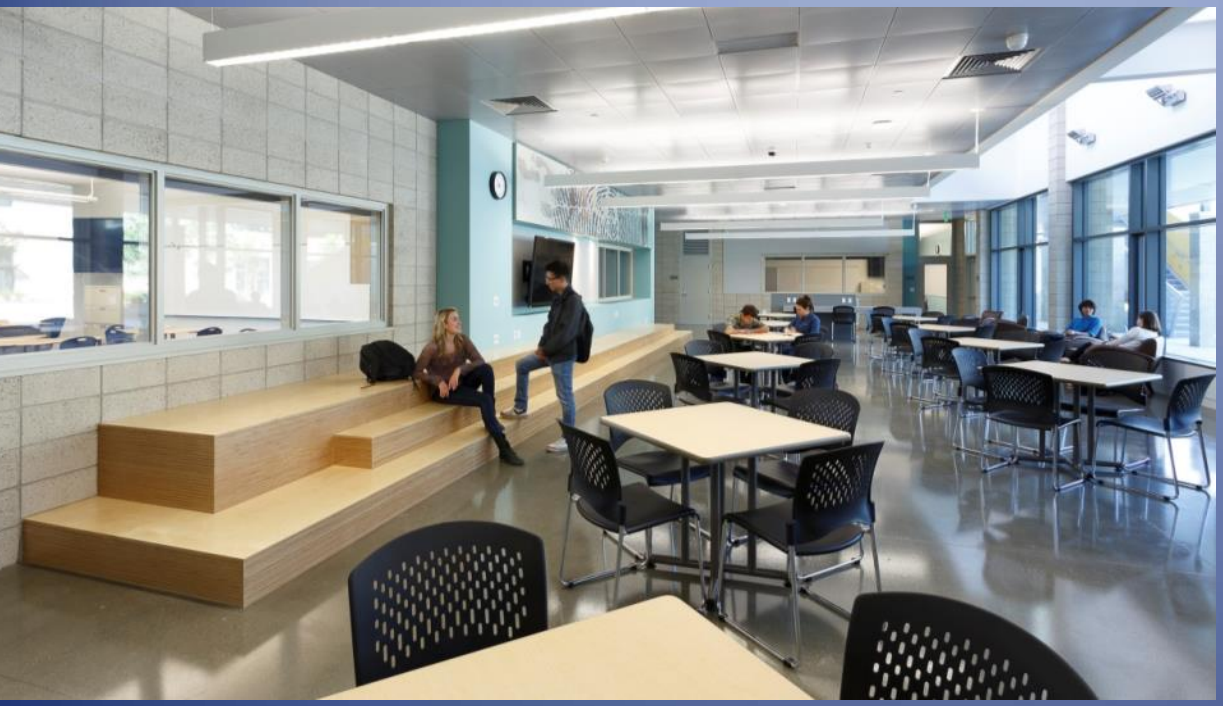

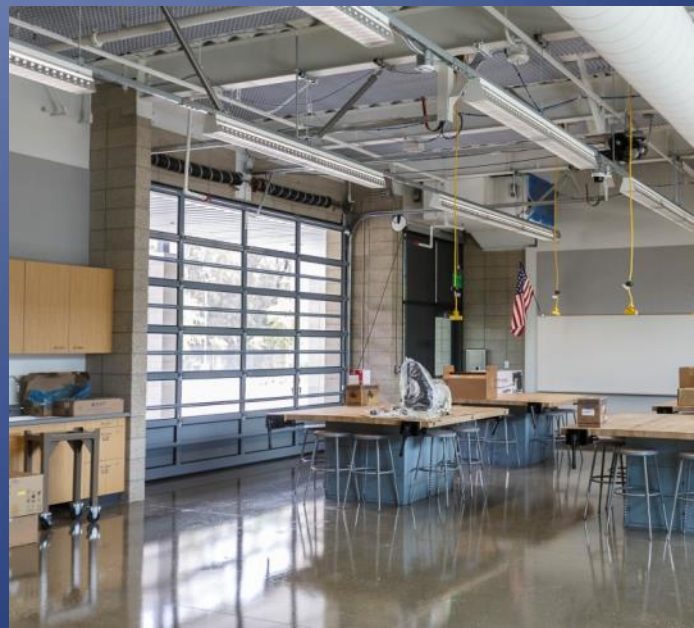

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