

2015 Exhibition of School Planning & Architecture

Dishman-McGinnis Elementary School

Category: New Construction

Bowling Green Independent Schools

Bowling Green, Kentucky



Dishman-McGinnis Elementary School



Dishman-McGinnis Elementary School

SITE PLAN



Cafeteria



community environment

Located in a low-income neighborhood, Dishman McGinnis Elementary is a treasured community center. The school's playgrounds, outdoor classrooms, cafeteria, gymnasium and media center are routinely used after hours. Classroom wings are designed to be secured individually from public spaces, allowing the school to be used by the public when classes are not in session.

Gymnasium



community environment *(continued)*

A shared stage between the cafeteria and gymnasium enables either space to be used for assemblies or special events.

Mathematics Classroom



learning environment

This building was designed as a teaching tool. Math classrooms feature large-scale graphs on the floor and ceiling. Wall graphics illustrate geometric shapes, units of measurement and basic math principles.

Common Learning Space



learning environment (continued)

Younger students are located on the first floor, with tables in their classrooms and cubbies for storage. Upstairs, intermediate classrooms are furnished with individual desks. Lockers are located in the corridors to encourage personal responsibility. Outside each classroom wing, a shared commons with expandable risers provides space for multiple classes to gather or for smaller breakout groups to work.

Massing & Materials



physical environment

This two-story building was designed to minimize the building footprint on its limited site. Insulated concrete forms (ICF) were used to maximize the efficiency of the building envelope while creating a sturdy, storm-resistant structure. A brick façade and pitched roof in the center of the building was chosen to reflect the architectural language of the surrounding residential neighborhood.

Net Zero Science Classroom



physical environment *(continued)*

Solar light tubes bathe interior spaces in soft natural light. A solar thermal water heater provides all of the building's hot water. Solar energy also provides the energy for this net zero science classroom, the energy consumption for which is offset by a photovoltaic array located on the roof.

Energy Efficiency

physical environment *(continued)*

Students are encouraged to participate in energy conservation measures that will further increase the efficiency of this high performance building.

An interactive computer display in the entry lobby shows real-time energy consumption metrics for each area of the building.

In addition, stoplights at the end of each wing glow red, yellow or green to indicate the level of energy being consumed.

Students are encouraged to work together to reduce their consumption and challenge their classmates on the other side of the building.



Media Center



planning process

Teachers from every subject area and grade level, custodians, kitchen staff, facilities maintenance staff, administrators and parent representatives were all a part of this inclusive planning process. All design decisions were guided by the people who would ultimately use the space, including the media center specialist who directed everything from the furniture to the design of casework and storage.

Planning Process

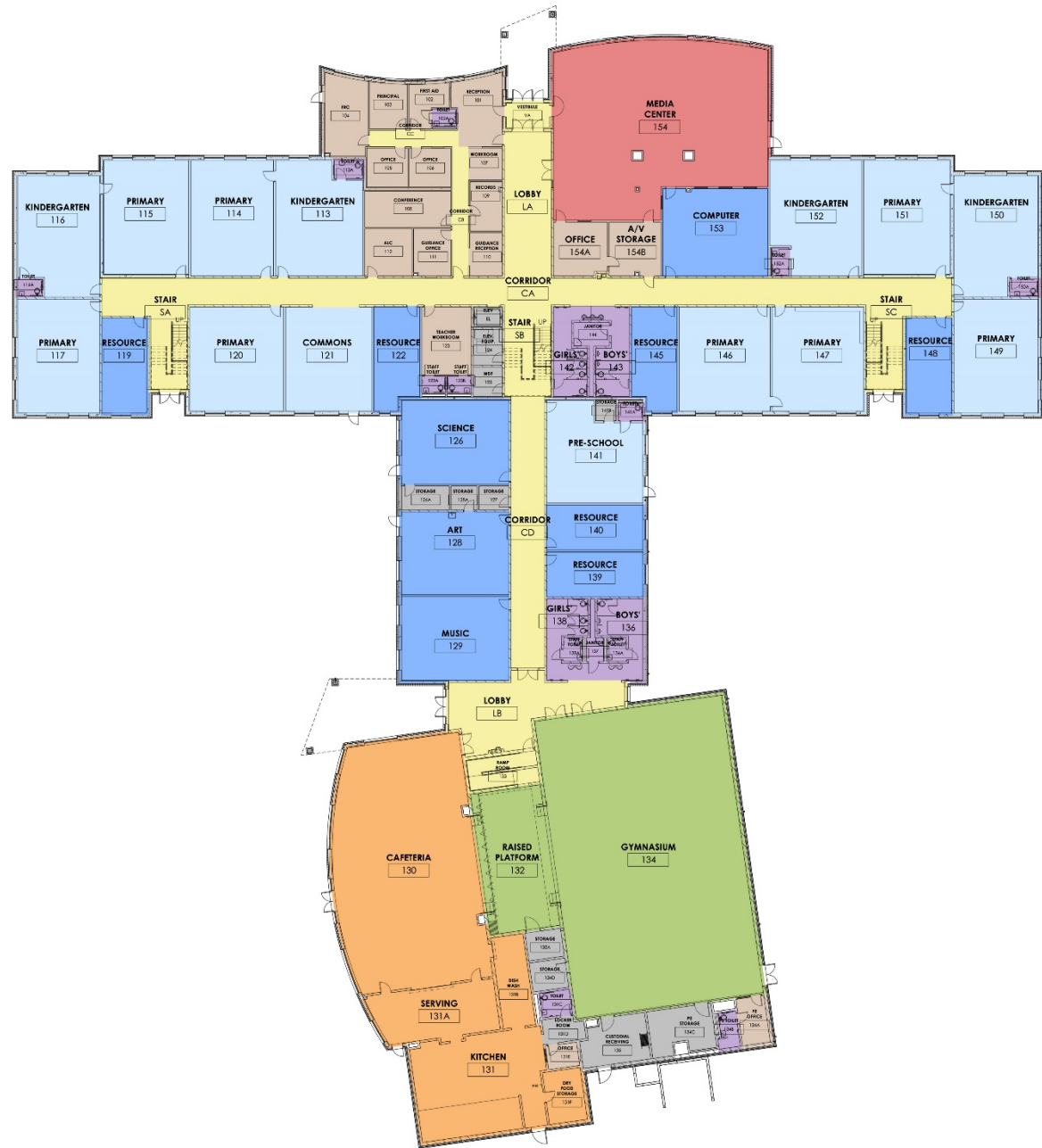


planning process (continued)

The inclusiveness of the planning process for this new school generated a tremendous level of buzz throughout the entire community. On the day of the groundbreaking ceremony, hundreds of excited children, parents and staff were on site to celebrate the momentous occasion.

Floor plan

First Floor



Floor plan

Second Floor



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Project Data

Submitting Firm :	RossTarrant Architects
Project Role	Architect
Project Contact	Ronald Murrell
Title	Principal-in-Charge
Address	101 Old Lafayette Avenue
City, State or Province, Country	Lexington, KY 40502, United States
Phone	859.254.4018

Construction Firm:	
Project Role	Alliance Corporation
Project Contact	Tim Geegan
Title	Executive Vice-President
Address	728 College Street, Suite A
City, State or Province, Country	Bowling Green, Kentucky 42101
Phone	270-846-0609

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Project Details

Project Name	Dishman-McGinnis Elementary School
City	Bowling Green
State	Kentucky
District Name	Bowling Green Independent Schools
Supt/President	Gary Fields
Occupancy Date	August 31, 2014
Grades Housed	P – 5
Capacity(Students)	500
Site Size (acres)	9.50 acres
Gross Area (sq. ft.)	62,716 square feet
Per Occupant (pupil)	125 gross square feet
Site Development:	\$959,818
Building Construction:	\$14,282,901
Fixed Equipment:	(included in building construction)
Total:	\$15,242,719

Art Classroom



Primary Classroom



Cafeteria Serving Line

