

BG# 16-114

District Name: Dayton Independent District Code: 147 Facility Name: Dayton High School School Code: 010

Project Name: Dayton High School - Upgrades and Vestibule REH Project # 168-715 Date: 5/25/16

PROJECT TYPE: Yes No Gross Building Area (sf.)

New Building ☐ ☐ _____

Addition ☐ ☒ 953 s.f.

Renovation ☐ ☒ 7211 s.f.

Provisions for Future Expansion: Addition located to allow for

Proposed Alternates: (1) Restroom Alternate Bid to remove existing main restrooms and provide accessible bathroom
(2) Stairway Finishes
(3) Cafeteria / Media Center visibility alternate (4) Glass entry doors (5) Cafeteria Flooring (6) Band window

Describe special conditions, phasing of project and alternates, attach a supplemental sheet, if needed.

Project will improve student and visitor access and surveillance; alternates are improvements needed, if affordable

BUILDING CONSTRUCTION CHARACTERISTICS:

Description of Building Structure:

Foundation: Concrete Foundation on spread footings

Exterior Walls: Masonry load bearing and also thermally broken glass storefront

Roof Structure: Steel frame with steel deck, rigid insulation with EPDM roof membrane

ENERGY EFFICIENT DESIGN (KRS 157.450 and KRS 157.455):

N/A Energy Consumption "Existing" (kBtu/sf/yr)

N/A Energy Consumption Target (kBtu/sf/yr)

YES NO

☐ ☒ LEED Certified Other: _____

☐ ☒ Designed to meet Energy Star

☐ ☒ Exceeds ASHRAE 90.1(2007) by 10% (Minimum)

☐ ☒ Whole Building Life Cycle Cost Analysis Demonstrating Cost Effective Design

Life Cycle Cost Analysis Software Used: _____

If not yes to one or more of the above, explain why. _____

☐ ☒ Designed to be Net-Zero

☐ ☒ Designed to be Net-Zero Ready

Energy Efficient Design Features: (See List Page 4, or Use Drop Down List)

East / West Building Orientation ☐ YES ☒ NO

Gross Exterior Wall Area (sf): 3,102 Avg. Exterior Wall R-Value: 14.5

Gross Window / Door Area (sf): 1,118 Avg. Window/Door R-Value: 4

Gross Roof Area (sf): 953 Avg. Roof R-Value: 32.4

Exterior Wall Type: A - face brick, captured air space, board insulation and waterproof CMU Other: at existing renovated areas

Roofing Type: E - other Low E glass in thermally broken energy efficient storefront aluminum framing system Other: _____

HVAC System Type: B - EPDM over rigid insulation Other: constant volume rooftop

Classroom Lighting: L - other Other: _____

Active Daylighting: A - T8 fluorescent fixtures Other: _____

Passive Daylighting: D - manual bi-level lighting with no fixture dimming Other: _____

On Site Energy Generation: B - occupancy light control sensors Other: _____

Passive Daylighting: G - none Other: _____

On Site Energy Generation: G - none Other: _____

OUTLINE SPECIFICATIONS ENERGY DESIGN CRITERIA

Project: Dayton High School Upgrades & Vestibule REH Project # 168-715 Date: May 25, 2016

Air Purification Systems : YES ☐ NO ☒Gray Water System : YES ☐ NO ☒Low Water Use Fixtures : YES ☒ NO ☐

Other: _____

PLUMBING:Type of Sewage Disposal: Municipal**HEATING, VENTILATION AND AIR CONDITIONING**Heating Only: _____ Heating & Mechanical: _____ HVAC: x A/C Only: _____
Ventilation OnlyFuel Source/Backup (if applicable): none**ELECTRICAL:**Source of Electric Power: Duke EnergyVoltage Serving Facility: 480/277 volt

Number of Convenience Outlets:

Classrooms 12

Library/Media Center _____

Business Ed _____

Family & Consumer Science _____

Camera System: Existing

Lighting Intensity (fc.) 40-50

Std. Classrooms _____

Library/Media Ctr _____

Science Lab _____

Science Clrm _____

Band/Music _____

Business Ed _____

Shops _____

Corridors 20

Stairways _____

Cafeteria _____

Pre-School Clrm _____

Art Classroom 40-50

Gymnasium _____

SPECIAL EQUIPMENT:

System	Conduit Only	Conduit & Wiring	Complete with Equipment
Bell	_____	_____	_____
Clock	_____	_____	_____
Fire Alarm	<u>x</u>	_____	<u>x</u>
Intercom	_____	_____	<u>x</u>
Telephone	_____	_____	<u>x</u>
Television	_____	<u>x</u>	_____
Computer	_____	<u>x</u>	_____
Wireless Network	_____	_____	_____
Interactive White bd	_____	_____	_____
Voice Amplification	_____	_____	<u>x</u>

FIXED EQUIPMENT:

Teacher Cabinet	_____	Custodial Room Shelves	_____
Student Lockers	_____	Science Laboratories	_____
Folding Bleachers	_____	Family & Consumer Sci	_____
Library Furnishings	_____	Other	<u>Art Room Casework</u>
Dry Food Shelves	_____	Other	<u>Reception Counter</u>

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INTERIOR FINISH SCHEDULE:

AREA	FLOOR	WAINSCOT	WALLS	CEILING
General Office	Carpet	CMU/DW	CMU/DW	Acoustic
Corridors	Rubber	CMU/Brick	CMU/Brick	Acoustic
Custodial	Conc	CMU	CMU	Exposed to Structure
Kitchen				
Cafeteria				
Gym				
Showers/Locker				
Toilets	Tile (Alt Bid)	Tile (Alt Bid)	CMU/Tile (Alt Bid.)	Acoustic
Library/Media Cntr				
Classrooms				
Music				
Art	Rubber	CMU	CMU	Acoustic
Science				
FMD				
OTHER AREAS				
Stairs	Rubber	CMU	CMU	Exposed to Structure
Vestibule	Walk-off mats	Brick/Glass	Brick/Glass	Drywall

Miscellaneous Project Specific Features:

Kentucky Registered Architect:

Signature
Robert Ehmet Hayes & Associates, PLLC

5/16/16

Kentucky Registered Engineer:

Signature
KLH Engineers, PSC

Date: 5/16/16

Board Designee or Superintendent:

Signature
(Owner)

Date: _____