

District: Henderson County District Code: 251 Facility Name: Henderson County High School School Code: 60

**PROJECT TYPE:** Yes No Gross Floor Area (sf.)  
New Building ☐ ☐  
Addition ☒ ☐ 9,210  
Renovation ☒ ☐ 15,341

Provisions for Future Expansion: \_\_\_\_\_

Proposed Alternates: (1) \_\_\_\_\_  
(2) \_\_\_\_\_  
(3) \_\_\_\_\_

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

**BUILDING CONSTRUCTION CHARACTERISTICS:**

Description of Building Structure:

Foundation: Spread footings with poured concrete foundation walls

Exterior Walls: CMU with brick veneer

Roof Structure: Sloped steel roof joists & deck, rigid insulation with single-ply membrane roof

**ENERGY EFFICIENT DESIGN (KRS 157.450 and KRS 157.455):**

\_\_\_\_\_ Energy Consumption "Existing" (kBtu/sf/yr)

\_\_\_\_\_ 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): 8,072 Avg. Exterior Wall R-Value: R-13

Gross Window / Door Area (sf): \_\_\_\_\_ Avg. Window/Door R-Value: \_\_\_\_\_

Gross Roof Area (sf): 26,551 s.f. Avg. Roof R-Value: R-24

Exterior Wall Type: B - face brick, captured air space, sprayed insulation on CMU Other: \_\_\_\_\_

Roofing Type: C - plastic single ply over rigid insulation Other: \_\_\_\_\_

HVAC System Type: L - other Other: package rooftop

Classroom Lighting: A - T8 fluorescent fixtures Other: \_\_\_\_\_

Active Daylighting: B - occupancy light control sensors Other: \_\_\_\_\_

Passive Daylighting: G - none Other: \_\_\_\_\_

On Site Energy Generation: G - none Other: \_\_\_\_\_

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Air Purification Systems : YES ☐ NO ☒

Gray Water System : YES ☐ NO ☒

Low Water Use Fixtures : YES ☐ NO ☒

Other: \_\_\_\_\_

**PLUMBING:**

Type of Sewage Disposal: \_\_\_\_\_

**HEATING, VENTILATION AND AIR CONDITIONING:**

Heating Only: \_\_\_\_\_ Heating & Mechanical: \_\_\_\_\_ HVAC: X A/C Only: \_\_\_\_\_  
Ventilation Only

Fuel Source/Backup (if applicable): Electric - Henderson Municipal Power & Light  
Gas - Henderson Municipal Gas

**ELECTRICAL:**

Source of Electric Power: <u>Henderson Municipal Power &amp; Light</u>	Lighting Intensity (ft. and sf.):
Voltage Serving Facility: <u>120/208VAC 3 phase 4 wire</u>	Std. Classrooms <u>50 fc</u>
Number of Convenience Outlets:	Library/Media Ctr _____
Classrooms <u>12</u>	Science Lab _____
Library/Media Center _____	Science Clrm _____
Business Ed _____	Band/Music _____
Family & Consumer Science _____	Business Ed _____
Camera System: <u>Yes-by owner</u>	Shops <u>50 fc</u>
	Corridors _____
	Stairways _____
	Cafeteria _____
	Pre-School Clrm _____
	Art Classroom _____
	Gymnasium _____

**SPECIAL EQUIPMENT:**

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

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**FIXED EQUIPMENT:**

Teacher Cabinet	_____	Custodial Room Shelves	_____
Student Lockers	<u>X</u>	Science Laboratories	_____
Folding Bleachers	_____	Family & Consumer Sci	_____
Library Furnishings	_____	Other	<u>Shop ventilation</u>
Dry Food Shelves	_____	Other	<u>Misc. shop equipment</u>

**INTERIOR FINISH SCHEDULE:**

AREA	FLOOR	WAINSCOT	WALLS	CEILING
General Office	_____	_____	_____	_____
Corridors	_____	_____	_____	_____
Custodial	_____	_____	_____	_____
Kitchen	_____	_____	_____	_____
Cafeteria	_____	_____	_____	_____
Gym	_____	_____	_____	_____
Showers/Locker	_____	_____	_____	_____
Toilets	_____	_____	_____	_____
Library/Media Cntr	_____	_____	_____	_____
Classrooms	<u>VCT</u>	_____	<u>Paint</u>	<u>2 x 2 lay-in</u>
Music	_____	_____	_____	_____
Art	_____	_____	_____	_____
Science	_____	_____	_____	_____
FMD	_____	_____	_____	_____
OTHER AREAS				
Shop Areas	<u>Sealed Concrete</u>	_____	<u>Paint</u>	<u>Painted Exposed Struc.</u>
	_____	_____	_____	_____
	_____	_____	_____	_____

Miscellaneous Project Specific Features: \_\_\_\_\_

Kentucky Registered Architect: \_\_\_\_\_ Date: \_\_\_\_\_

Signature

Kentucky Registered Engineer: JW Harrison III Date: \_\_\_\_\_

Signature

Board Designee or Superintendent: \_\_\_\_\_ Date: \_\_\_\_\_

Signature

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**Energy Efficient Design Features Lists**

**Exterior Wall Type**

- A - face brick, captured air space, board insulation and waterproof CMU
- B - face brick, captured air space, sprayed insulation on CMU
- C - face brick, captured air space, sheathing over metal insulated stud system, interior finish system
- D - face brick, ICF poured concrete, interior finish system
- E - other, describe

**Roofing Type List**

- A - modified bitumen over rigid insulation
- B - EPDM over rigid insulation
- C - plastic single ply over rigid insulation
- D - metal roofing over nailable deck with insulation
- E - asphalt shingle roofing over nailable deck with insulation
- F - other, describe

**HVAC System Type List**

- A - two pipe unit ventilator system
- B - water source heat pump system with air make up
- C - ground source heat pump system with air make up
- D - hybrid water source heat pump system with boiler/chiller and well field with air make up
- E - variable refrigerant flow (VRF) with air make up
- F - hybrid geothermal/variable refrigerant flow (VRF) with air make up
- G - variable refrigerant volume (VRV) with air make up
- H - hybrid geothermal/variable refrigerant volume (VRV) with air make up
- I - chilled beam system
- J - hybrid chilled beam/geothermal system
- L - other

**Classroom Lighting List**

- A - T8 fluorescent fixtures
- B - T5 fluorescent fixtures
- C - high energy gas fixtures
- D - low voltage systems
- E - other

**Active Daylight System List**

- A - classroom fluorescent dimming including dimming switches, ballasts and sensors
- B - occupancy light control sensors
- C - remote sensor bi-level lighting with no fixtures dimming
- D - manual bi-level lighting with no fixture dimming
- E - other
- F - none

**Passive Daylight Systems List**

- A - upper classroom clerestory lighting with sloped ceiling plane
- B - lower classroom clerestory lighting that does NOT require sloping the ceiling plane
- C - exterior light shelves
- D - solar tubes without dimming
- E - solar tubes with internal dimmers
- F - other
- G - none

**On Site Energy Generation List**

- A - solar water heating
- B - solar electric generation (small units for demonstration or for limited areas)
- C - solar electric generation (to support the entire building's energy needs)
- D - wind generation (small units for demonstration or for limited areas)
- E - wind generation (to support the entire building's energy needs)
- F - other
- G - none