

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

Project Name: Henderson County High School CTE

PROJECT TYPE:	Yes	No	Gross Building Area (sf.)
New Building	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
Addition	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>5492</u>
Renovation	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>1030</u>

Provisions for Future Expansion: _____

Proposed Alternates: (1) HVAC EQ Manufacture
(2) HVAC controls
(3) _____

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

BUILDING CONSTRUCTION CHARACTERISTICS:

Description of Building Structure:

Foundation: slab on grade

Exterior Walls: CMU w/spray foam insulation & brick finish

Roof Structure: flat roof w/insulation & new membrane

ENERGY EFFICIENT DESIGN (KRS 157.450 and KRS 157.455):

_____ Energy Consumption "Existing" (kBtu/sf/yr)

_____ Energy Consumption Target (kBtu/sf/yr)

YES	NO	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	LEED Certified Other: _____
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Designed to meet Energy Star
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Exceeds ASHRAE 90.1(2007) by 10% (Minimum)
<input type="checkbox"/>	<input checked="" type="checkbox"/>	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. _____

<input type="checkbox"/>	<input checked="" type="checkbox"/>	Designed to be Net-Zero
<input type="checkbox"/>	<input checked="" type="checkbox"/>	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): 2960 Avg. Exterior Wall R-Value: R 9.5

Gross Window / Door Area (sf): 249 Avg. Window/Door R-Value: R 3.5

Gross Roof Area (sf): 21,792 Avg. Roof R-Value: R 25

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

Roofing Type: B - EPDM over rigid insulation Other: _____

HVAC System Type: L - other Other: _____

Classroom Lighting: D - low voltage systems Other: _____

Active Daylighting: B - occupancy light control sensors Other: _____

Passive Daylighting: G - none Other: _____

On Site Energy Generation: G - none Other: _____

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: A/C Only: _____
Ventilation Only

Fuel Source/Backup (if applicable): _____

ELECTRICAL:

Source of Electric Power: Kenergy

Voltage Serving Facility: 120/208

Number of Convenience Outlets:
Classrooms 6

Library/Media Center _____

Business Ed _____

Family & Consumer Science _____

Camera System: existing

Lighting Intensity (fc.):
Std. Classrooms 50

Library/Media Ctr _____

Science Lab _____

Science Clrm _____

Band/Music _____

Business Ed _____

Shops 50

Corridors 25

Stairways _____

Cafeteria _____

Pre-School Clrm _____

Art Classroom _____

Gymnasium _____

SPECIAL EQUIPMENT:

System	Conduit Only	Conduit & Wiring	Complete with Equipment
Bell	_____	_____	<input checked="" type="checkbox"/>
Clock	_____	_____	<input checked="" type="checkbox"/>
Fire Alarm	_____	_____	<input checked="" type="checkbox"/>
Intercom	_____	_____	<input checked="" type="checkbox"/>
Telephone	_____	_____	<input checked="" type="checkbox"/>
Television	_____	_____	_____
Computer	_____	_____	_____
Wireless Network	_____	<input checked="" type="checkbox"/>	_____
Interactive White bd	_____	_____	_____
Voice Amplification	_____	_____	_____

FIXED EQUIPMENT:

Teacher Cabinet _____
Student Lockers _____
Folding Bleachers _____
Library Furnishings _____
Dry Food Shelves _____

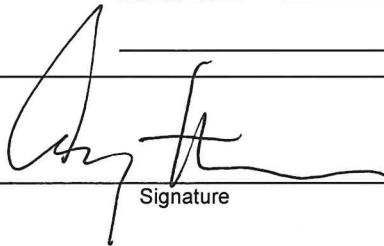
Custodial Room Shelves _____
Science Laboratories _____
Family & Consumer Sci _____
Other _____
Other _____

INTERIOR FINISH SCHEDULE:

AREA	FLOOR	WAINSCOT	WALLS	CEILING
General Office	carpet/lvt		paint	2x2
Corridors	lvt			
Custodial				
Kitchen				
Cafeteria				
Gym				
Showers/Locker				
Toilets	ceramic		ceramic/epoxy	2x4
Library/Media Cntr				
Classrooms	lvt		epoxy/paint	2x2
Music				
Art				
Science				
FMD				
OTHER AREAS				

Miscellaneous Project Specific Features:

Kentucky Registered Architect:



 Signature

Date: 2/15/2024

Kentucky Registered Engineer:

 Signature

Date: _____

Board Designee or Superintendent:

 Signature

Date: _____

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