

District Name: HENDERSON District Code: 251 Facility Name: JEFFERSON ELEMENTARY School Code: 160

Project Name: SOUTH MIDDLE SCHOOL - SITE IMPROVEMENTS

PROJECT TYPE: Yes No Gross Building Area (sf.)
New Building ☒ ☐ 57,250
Addition ☐ ☒ NA
Renovation ☐ ☒ NA
Provisions for Future Expansion: N/A

Proposed Alternates: (1) T.B.D.
(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 on Aggregate Piers

Exterior Walls: CMU Block / Rigid Insulation / Air Space / Brick or Metal Panel

Roof Structure: Light Gauge Steel Truss / Metal Decking, Rigid Insulation / Standing Seam Roof

ENERGY EFFICIENT DESIGN (KRS 157.450 and KRS 157.455):

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

50 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. LEED is impractical and costly for this project and owner does not want to engage additional consultant service.

☐ ☒ 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): 27,800 Avg. Exterior Wall R-Value: R-16
Gross Window / Door Area (sf): 4,320 Avg. Window/Door R-Value: R-2.2
Gross Roof Area (sf): na 35,134 Avg. Roof R-Value: R-21
Exterior Wall Type: A - face brick, captured air space, board insulation and waterproof CMU Other: _____
Roofing Type: D - metal roofing over nailable deck with insulation Other: _____
HVAC System Type: B - water source heat pump system with air make up Other: & Geothermal
Classroom Lighting: E - other Other: LED
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: na

PLUMBING:

Type of Sewage Disposal: Municipal

HEATING, VENTILATION AND AIR CONDITIONING:

Heating Only: _____ Heating & Mechanical: _____ HVAC: Yes A/C Only: _____
Ventilation Only

Fuel Source/Backup (if applicable): na

ELECTRICAL:

Source of Electric Power:	<u>Henderson Power & Light</u>	Lighting Intensity (fc.):	
Voltage Serving Facility:	<u>480Y / 277V / 3 Phase</u>	Std. Classrooms	<u>50</u>
Number of Convenience Outlets:		Library/Media Ctr	<u>50</u>
Classrooms	<u>8</u>	Science Lab	<u>50</u>
Library/Media Center	<u>10</u>	Science Clrm	<u>50</u>
Business Ed	<u>n/a</u>	Band/Music	<u>50</u>
Family & Consumer Science	<u>n/a</u>	Business Ed	<u>n/a</u>
Camera System:	<u>yes</u>	Shops	<u>n/a</u>
		Corridors	<u>20</u>
		Stairways	<u>20</u>
		Cafeteria	<u>40</u>
		Pre-School Clrm	<u>n/a</u>
		Art Classroom	<u>50</u>
		Gymnasium	<u>50</u>

SPECIAL EQUIPMENT:

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

FIXED EQUIPMENT:

Teacher Cabinet	<u>Casework</u>	Custodial Room Shelves	<u>Yes</u>
Student Lockers	<u>Cubbies</u>	Science Laboratories	<u>n/a</u>
Folding Bleachers	<u>Yes, Motorized</u>	Family & Consumer Sci	<u>n/a</u>
Library Furnishings	<u>Yes</u>	Other	_____
Dry Food Shelves	<u>Yes, Mobile</u>	Other	_____

INTERIOR FINISH SCHEDULE:

AREA	FLOOR	WAINSCOT	WALLS	CEILING
General Office	carpet	na	latex paint	2x2 acoustical ceiling tile
Corridors	resilient tile	na	latex paint	2x2 acoustical ceiling tile
Custodial	resilient tile	na	epoxy paint	2x2 acoustical ceiling tile
Kitchen	quarry tile	na	epoxy paint	2x2 acoustical ceiling tile
Cafeteria	resilient tile	tile	epoxy paint	2x2 acoustical ceiling tile
Gym	wood	na	latex paint	exposed structure
Showers/Locker	tile	na	tile	gyp board
Toilets	tile	na	tile / epoxy paint	2x2 acoustical ceiling tile
Library/Media Cntr	carpet	na	latex paint	acoustical wood ceiling
Classrooms	resilient tile	na	latex paint	2x2 acoustical ceiling tile
Music	resilient tile	na	latex paint	2x2 acoustical ceiling tile
Art	resilient tile	na	latex paint	2x2 acoustical ceiling tile
Science	na	na	na	na
FMD	resilient tile	na	latex paint	2x2 acoustical ceiling tile

OTHER AREAS

Miscellaneous Project Specific Features:

Kentucky Registered Architect:


Signature

Date: 7/8/19

Kentucky Registered Engineer:


Signature

Date: 7/8/19

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 place
- 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

For Reference