

District Name: Hopkins County District Code: _____ Facility Name: South Hopkins School School Code: _____

Project Name: South Hopkins School

PROJECT TYPE: Yes No Gross Building Area (sf.)
 New Building _____
 Addition 64639
 Renovation _____

Provisions for Future Expansion: None.

Proposed Alternates: (1) Owner preferred intercom system
 (2) Owner preferred Salto System door access controls
 (3) Owner preferred door hardware
 (4) _____
 (5) _____

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

BUILDING CONSTRUCTION CHARACTERISTICS:

Description of Building Structure:

Foundation: Reinforced poured concrete stem walls and spread footings.

Exterior Walls: ICF concrete masonry units with brick veneer and composite metal panels.

Roof Structure: Steel joists with metal deck.

ENERGY EFFICIENT DESIGN (KRS 157.450 and KRS 157.455):

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

± 28 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): 47203 Avg. Exterior Wall R-Value: 19

Gross Window / Door Area (sf): 8096 Avg. Window/Door R-Value: 7

Gross Roof Area (sf): 45768 Avg. Roof R-Value: 39

Exterior Wall Type: D - face brick, ICF poured concrete, interior finish system Other: A, E (metal panel on ICF)

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

HVAC System Type: C - ground source heat pump system with air make up Other: _____

Classroom Lighting: E - other Other: _____

Active Daylighting: F - none 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: X A/C Only: _____
Ventilation Only

Fuel Source/Backup (if applicable): _____

ELECTRICAL:

Source of Electric Power: LG&E

Voltage Serving Facility: 120/208V, 3Ph, 4W

Number of Convenience Outlets:
Classrooms 8
Library/Media Center 16
Business Ed NA
Family & Consumer Science NA

Camera System: POE

Lighting Intensity (fc.):	
Std. Classrooms	<u> 50 </u>
Library/Media Ctr	<u> 75 </u>
Science Lab	<u> 50 </u>
Science Clrm	<u> 50 </u>
Band/Music	<u> 75 </u>
Business Ed	<u> NA </u>
Shops	<u> NA </u>
Corridors	<u> 20 </u>
Stairways	<u> 20 </u>
Cafeteria	<u> NA </u>
Pre-School Clrm	<u> NA </u>
Art Classroom	<u> 100 </u>
Gymnasium	<u> 50 </u>

SPECIAL EQUIPMENT:

System	Conduit Only	Conduit & Wiring	Complete with Equipment
Bell		<u> X </u>	
Clock	<u> NA </u>	<u> NA </u>	<u> NA </u>
Fire Alarm			<u> X </u>
Intercom		<u> X </u>	
Telephone			<u> X </u>
Television	<u> NA </u>		
Computer		<u> X </u>	
Wireless Network		<u> X </u>	
Interactive White bd		<u> X - IA Flat Panels </u>	
Voice Amplification	<u> NA </u>	<u> NA </u>	<u> NA </u>

FIXED EQUIPMENT:

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

OUTLINE SPECIFICATIONS ENERGY DESIGN CRITERIA

INTERIOR FINISH SCHEDULE:

AREA	FLOOR	WAINSCOT	WALLS	CEILING
General Office	LVT		Gypsum Board	Acoustical Tile
Corridors	LVT		Concrete Masonry	Open / Acoustical Tile
Custodial	Concrete		Concrete Masonry	Open
Kitchen	Quarry Tile		Concrete Masonry	Acoustical Tile
Cafeteria	LVT		Concrete Masonry	Acoustical Tile
Gym	Wood		Gypsum Board	Open
Showers/Locker	Ceramic Tile	Ceramic Tile	Ceramic Tile	Acoustical Tile
Toilets	Ceramic Tile	Ceramic Tile	CM / Ceramic Tile	Acoustical Tile
Library/Media Cntr	Carpet Tile		Gypsum Board	Acoustical Tile
Classrooms	LVT		Concrete Masonry	Acoustical Tile
Music	LVT		Concrete Masonry	Acoustical Tile
Art	LVT		Concrete Masonry	Acoustical Tile
Science	LVT		Concrete Masonry	Acoustical Tile
FMD	LVT		Concrete Masonry	Acoustical Tile
OTHER AREAS				

Miscellaneous Project Specific Features: _____

Kentucky Registered Architect: *Derek T. Brooks* Derek I. Brooks, AIA Date: 7/11/23
Signature

Kentucky Registered Engineer: *Baccus L. Oliver* Baccus L. Oliver, PE Date: 7/11/23
Signature

Board Designee or Superintendent: _____ Date: _____
Signature

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

For Reference