

District: Hardin County District Code: \_\_\_\_\_ Facility Name: GC Burkhead Elementary School Code: \_\_\_\_\_

**PROJECT TYPE:** Yes No Gross Floor Area (sf.)  
New Building ☒ ☐ 84,007 sf  
Addition ☐ ☐ \_\_\_\_\_  
Renovation ☐ ☐ \_\_\_\_\_

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

Proposed Alternates: (1) High efficient, variable speed ground source heat pumps.  
(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 Footing

Exterior Walls: 8" and 12" CMU cavity wall with 4" brick and 3" of Rigid Insulation (R-15)

Roof Structure: Light gage metal trusses with steel decking (PolyIso Insulation-R-25)

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

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

25 - 30 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): \_\_\_\_\_ Avg. Exterior Wall R-Value: \_\_\_\_\_

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

Gross Roof Area (sf): \_\_\_\_\_ Avg. Roof R-Value: \_\_\_\_\_

Exterior Wall Type: \_\_\_\_\_ Other: \_\_\_\_\_

Roofing Type: \_\_\_\_\_ Other: \_\_\_\_\_

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

Classroom Lighting: B - T5 fluorescent fixtures Other: \_\_\_\_\_

Active Daylighting: F - none 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: Municipal available at site.

**HEATING, VENTILATION AND AIR CONDITIONING:**

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

Fuel Source/Backup (if applicable): Geothermal and all electric.

**ELECTRICAL:**

Source of Electric Power: <u>Nolin RECC</u>	Lighting Intensity (ft. and sf.):
Voltage Serving Facility: <u>120/208 volt, 3 phase</u>	Std. Classrooms <u>50 FC</u>
Number of Convenience Outlets:	Library/Media Ctr <u>75 FC</u>
Classrooms <u>16</u>	Science Lab <u>NA</u>
Library/Media Center <u>36</u>	Science Clrm <u>NA</u>
Business Ed <u>NA</u>	Band/Music <u>50 FC</u>
Family & Consumer Science <u>NA</u>	Business Ed <u>NA</u>
Camera System: <u>40</u>	Shops <u>NA</u>
	Corridors <u>20 FC</u>
	Stairways <u>20 FC</u>
	Cafeteria <u>50 FC</u>
	Pre-School Clrm <u>50 FC</u>
	Art Classroom <u>100 FC</u>
	Gymnasium <u>50 FC</u>

**SPECIAL EQUIPMENT:**

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

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**FIXED EQUIPMENT:**

Teacher Cabinet	<u>Wood workspace</u>	Custodial Room Shelves	<u>Metal</u>
Student Lockers	<u>n/a</u>	Science Laboratories	<u>n/a</u>
Folding Bleachers	<u>Electric, 750 Students</u>	Family & Consumer Sci	<u>n/a</u>
Library Furnishings	<u>Wood</u>	Other	<u>n/a</u>
Dry Food Shelves	<u>Metal</u>	Other	<u>n/a</u>

**INTERIOR FINISH SCHEDULE:**

AREA	FLOOR	WAINSCOT	WALLS	CEILING
General Office	<u>Carpet</u>	<u>n/a</u>	<u>PTD Gypsum Board</u>	<u>Acoustical</u>
Corridors	<u>Terrazzo</u>	<u>n/a</u>	<u>Gr.Face Conc.Block</u>	<u>Acoustical</u>
Custodial	<u>Sealed Concrete</u>	<u>n/a</u>	<u>PTD Concrete Block</u>	<u>PTD Exposed Structure</u>
Kitchen	<u>Quarry Tile</u>	<u>n/a</u>	<u>PTD Concrete Block</u>	<u>Acoustical</u>
Cafeteria	<u>VCT</u>	<u>n/a</u>	<u>PTD Concrete Block</u>	<u>Acoustical</u>
Gym	<u>Wood</u>	<u>n/a</u>	<u>PTD Concrete Block</u>	<u>PTD Exposed Structure</u>
Showers/Locker	<u>n/a</u>	<u>n/a</u>	<u>n/a</u>	<u>n/a</u>
Toilets	<u>Ceramic Tile</u>	<u>Ceramic Tile</u>	<u>PTD Concrete Block</u>	<u>Acoustical</u>
Library/Media Cntr	<u>Carpet</u>	<u>n/a</u>	<u>PTD Concrete Block</u>	<u>Acoustical</u>
Classrooms	<u>VCT</u>	<u>n/a</u>	<u>PTD Concrete Block</u>	<u>Acoustical</u>
Music	<u>Carpet</u>	<u>n/a</u>	<u>PTD Concrete Block</u>	<u>Acoustical</u>
Art	<u>VCT</u>	<u>n/a</u>	<u>PTD Concrete Block</u>	<u>Acoustical</u>
Science	<u>n/a</u>	<u>n/a</u>	<u>n/a</u>	<u>N/A</u>

**OTHER AREAS**

_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

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

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

Kentucky Registered Engineer: \_\_\_\_\_ Date: \_\_\_\_\_  
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