

District Name: Mercer County District Code: 421 Facility Name: Mercer County Senior High School School Code: \_\_\_\_\_

Project Name: Mercer County Athletic Improvements

**PROJECT TYPE:** Yes No Gross Building Area (sf.) Baseball Concessions: 1622 sf  
New Building ☒ ☐ Home dugouts: 633 sf; Visitor dugouts: 341 sf; Softball Concessions: 1996 sf  
Addition ☒ ☐ Soccer: 267 sf addition  
Renovation ☒ ☐ Softball field renovation

Provisions for Future Expansion: none

Proposed Alternates: (1) Replace existing Softball backstop wall and netting  
(2) Softball and Baseball outfield irrigation system  
(3) Owner Preferred CMU for Baseball/Softball Complex - Phase 1  
(4) Owner Preferred CMU for Soccer Addition - Phase 2

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

Phase 1: Baseball and Softball Complex; Phase 2: Soccer Press Box Addition

**BUILDING CONSTRUCTION CHARACTERISTICS:**

Description of Building Structure:

Foundation: concrete spread footings/slab on grade

Exterior Walls: load bearing single wythe CMU

Roof Structure: Wood trusses/framing

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

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

1 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): 7986 sf Avg. Exterior Wall R-Value: 2

Gross Window / Door Area (sf): 966 sf Avg. Window/Door R-Value: 3.5

Gross Roof Area (sf): 5810 sf Avg. Roof R-Value: 25

Exterior Wall Type: E - other, describe Other: single wythe CMU

Roofing Type: E - asphalt shingle roofing over nailable deck with insulation Other: \_\_\_\_\_

HVAC System Type: L - other Other: Electric heat, PTAC

Classroom Lighting: E - other Other: N/A

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: Lift station into municipal system**HEATING, VENTILATION AND AIR CONDITIONING:**Heating Only: \_\_\_\_\_ Heating & Mechanical: X HVAC: Limited A/C Only: \_\_\_\_\_  
Ventilation OnlyFuel Source/Backup (if applicable): N/A**ELECTRICAL:**

|                                |                |                           |            |
|--------------------------------|----------------|---------------------------|------------|
| Source of Electric Power:      | <u>Utility</u> | Lighting Intensity (fc.): |            |
| Voltage Serving Facility:      | <u>480V</u>    | Std. Classrooms           | <u>N/A</u> |
| Number of Convenience Outlets: |                | Library/Media Ctr         | <u>N/A</u> |
| Classrooms                     | <u>N/A</u>     | Science Lab               | <u>N/A</u> |
| Library/Media Center           | <u>N/A</u>     | Science Clrm              | <u>N/A</u> |
| Business Ed                    | <u>N/A</u>     | Band/Music                | <u>N/A</u> |
| Family & Consumer Science      | <u>N/A</u>     | Business Ed               | <u>N/A</u> |
| Camera System:                 | <u>N/A</u>     | Shops                     | <u>N/A</u> |
|                                |                | Corridors                 | <u>20</u>  |
|                                |                | Stairways                 | <u>20</u>  |
|                                |                | Cafeteria                 | <u>N/A</u> |
|                                |                | Pre-School Clrm           | <u>N/A</u> |
|                                |                | Art Classroom             | <u>N/A</u> |
|                                |                | Gymnasium                 | <u>N/A</u> |

**SPECIAL EQUIPMENT:**

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


**FIXED EQUIPMENT:**


|                     |                              |                        |            |
|---------------------|------------------------------|------------------------|------------|
| Teacher Cabinet     | <u>N/A</u>                   | Custodial Room Shelves | <u>N/A</u> |
| Student Lockers     | <u>Yes, in Changing room</u> | Science Laboratories   | <u>N/A</u> |
| Folding Bleachers   | <u>N/A</u>                   | Family & Consumer Sci  | <u>N/A</u> |
| Library Furnishings | <u>N/A</u>                   | Other                  | _____      |
| Dry Food Shelves    | <u>Yes, in Concessions</u>   | Other                  | _____      |

**INTERIOR FINISH SCHEDULE:**

| AREA               | FLOOR           | WAINSCOT | WALLS | CEILING              |
|--------------------|-----------------|----------|-------|----------------------|
| General Office     | N/A             | N/A      | N/A   | N/A                  |
| Corridors          | N/A             | N/A      | N/A   | N/A                  |
| Custodial          | N/A             | N/A      | N/A   | N/A                  |
| Kitchen            | N/A             | N/A      | N/A   | N/A                  |
| Cafeteria          | N/A             | N/A      | N/A   | N/A                  |
| Gym                | N/A             | N/A      | N/A   | N/A                  |
| Showers/Locker     | N/A             | N/A      | N/A   | N/A                  |
| Toilets            | Sealed Concrete | N/A      | Paint | Painted Gypsum Board |
| Library/Media Cntr | N/A             | N/A      | N/A   | N/A                  |
| Classrooms         | N/A             | N/A      | N/A   | N/A                  |
| Music              | N/A             | N/A      | N/A   | N/A                  |
| Art                | N/A             | N/A      | N/A   | N/A                  |
| Science            | N/A             | N/A      | N/A   | N/A                  |
| FMD                | N/A             | N/A      | N/A   | N/A                  |
| OTHER AREAS        |                 |          |       |                      |
| Dugouts            | Sealed Concrete | N/A      | Paint | Painted Plywood      |
| Concessions        | Flake Epoxy     | N/A      | Paint | Painted Gypsum Board |
| Press Box          | Resilient Tile  | N/A      | Paint | Painted Gypsum Board |

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

Kentucky Registered Architect:  Date: 4/13/2022  
Signature

Kentucky Registered Engineer:  Date: 04-13-22  
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 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

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For Reference