

District Name: Estill County District Code: 161 Facility Name: Estill County High School School Code: 090-6

Project Name: Estill County High School Renovation Phase 7

PROJECT TYPE: Yes No Gross Building Area (sf.)

New Building ☒ ☐ 10,950 sf

Addition ☐ ☐ _____

Renovation ☒ ☐ 125,000 sf

Provisions for Future Expansion: _____

Proposed Alternates: (1) Sanitary Line Repair (4) Track Surface (7) Turf Pad
(2) High School Parking Lot Upgrades (5) Baseball/Softball Parking (8) Tennis Court Lighting
(3) Baseball/Softball Main Road Asphalt (6) Ticket Booth (9) Masonry Stain
(10) Owner Preferred Hardware

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

BUILDING CONSTRUCTION CHARACTERISTICS:

Description of Building Structure: (Field House Addition)

Foundation: Concrete spread footings/slab on grade (new buildings);
Greenhouse: turned down concrete slab

Exterior Walls: CMU, spray in place thermal insulation, brick/split face CMU veneer (field house/new buildings)
Greenhouse cover system: 8MM Twinwall Polycarbonate cover with 4" x 13" gauge structural steel spaced 12' OC

Roof Structure: Sloped steel framed structure at field house, wood truss/framing at concessions/pressbox, dugouts and ticket booth
Greenhouse: pre-engineered steel framed greenhouse package with roof purlins

ENERGY EFFICIENT DESIGN (KRS 157.450 and KRS 157.455):

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

50.2 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. The building renovation is primarily to meet criteria of Senate Bill 1 - relating to school safety and upgrading to a building automated controls to promote energy efficiency and troubleshooting for maintenance.

☐ ☒ 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: B - face brick, captured air space, sprayed insulation on CMU Other: _____

Roofing Type: D - metal roofing over nailable deck with insulation Other: _____

HVAC System Type: D - hybrid water source heat pump system with boiler/chiller and well field with air make up Other: _____

Classroom Lighting: E - other Other: LED

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: Municiple

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: <u>Jackson Energy</u>	Lighting Intensity (fc.):
Voltage Serving Facility: <u>208Y/120V</u>	Std. Classrooms <u>50</u>
Number of Convenience Outlets:	Library/Media Ctr <u>75</u>
Classrooms <u>N/A</u>	Science Lab <u>75</u>
Library/Media Center <u>N/A</u>	Science Clrm <u>50</u>
Business Ed <u>N/A</u>	Band/Music <u>75</u>
Family & Consumer Science <u>N/A</u>	Business Ed <u>50</u>
Camera System: <u>Existing to remain</u>	Shops <u>50</u>
	Corridors <u>20</u>
	Stairways <u>20</u>
	Cafeteria <u>50</u>
	Pre-School Clrm <u>N/A</u>
	Art Classroom <u>100</u>
	Gymnasium <u>50</u>

SPECIAL EQUIPMENT:

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

FIXED EQUIPMENT:

Teacher Cabinet	<u>HS/ATH</u>	Custodial Room Shelves	<u>NA/yes</u>
Student Lockers	<u>NA/NA</u>	Science Laboratories	<u>NA/NA</u>
Folding Bleachers	<u>NA/NA</u>	Family & Consumer Sci	<u>HS/Ath</u>
Library Furnishings	<u>NA/NA</u>	Other	<u>Reception Casewo / Str</u>
Dry Food Shelves	<u>NA/NA</u>	Other	<u>Training & First Aid Ca</u>

INTERIOR FINISH SCHEDULE:

AREA	FLOOR	WAINSCOT	WALLS	CEILING
General Office	VCT/Carpet	NA	Paint	ACT
Corridors	Patch VCT at new work	NA	Paint	ETR
Custodial	ETR	ETR	ETR	ETR
Kitchen	ETR	ETR	ETR	ETR
Cafeteria	ETR	ETR	ETR	ETR
Gym	ETR	ETR	ETR	ETR
Showers/Locker	Sealed Conc/ceramic	NA	Paint	Paint Gyp
Toilets	ETR/Sealed Conc	NA	Paint	ACT/Paint Gyp
Library/Media Cntr	ETR	ETR	ETR	ETR
Classrooms	VCT at new work	NA	Paint at new work	NA
Music	ETR	ETR	ETR	ETR
Art	ETR	ETR	ETR	ETR
Science	ETR	ETR	ETR	ETR
FMD	ETR	ETR	ETR	ETR

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 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