

District Name: Hardin County District Code: 231 Facility Name: North Hardin High School School Code: 75

Project Name: Indoor Practice Facility

PROJECT TYPE: Yes No Gross Building Area (sf.)
New Building ☒ ☐ 4,320
Addition ☐ ☒ _____
Renovation ☐ ☒ _____
Provisions for Future Expansion: N/A

Proposed Alternates: (1) None
(2) None
(3) None

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

BUILDING CONSTRUCTION CHARACTERISTICS:

Description of Building Structure:

Foundation: 8" CMU foundation wall on steel reinforced concrete footing.

Exterior Walls: 2x8 wood stud framing with insulation and prefinished metal siding.

Roof Structure: Engineered roof truss.

ENERGY EFFICIENT DESIGN (KRS 157.450 and KRS 157.455):

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

N/A 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. Per design, the facility only has lighting. No HVAC is provided.

☐ ☒ 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): 1844 Avg. Exterior Wall R-Value: _____

Gross Window / Door Area (sf): 186 Avg. Window/Door R-Value: _____

Gross Roof Area (sf): 5022 Avg. Roof R-Value: _____

Exterior Wall Type: E - other, describe Other: MTL. Panel on WD Studs

Roofing Type: F - other, describe Other: MTL. Roofing on Engineered Ro

HVAC System Type: L - other Other: None

Classroom Lighting: E - other Other: None

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: none - no plumbing in project**HEATING, VENTILATION AND AIR CONDITIONING:**Heating Only: n/a Heating & Mechanical: n/a HVAC: n/a A/C Only: n/a
Ventilation Only

Fuel Source/Backup (if applicable): _____

ELECTRICAL:

Source of Electric Power: <u>on-site, existing</u>	Lighting Intensity (fc.):
Voltage Serving Facility: _____	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>n/a</u>
	Stairways <u>n/a</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>	<u>n/a</u>	<u>n/a</u>
Clock	<u>n/a</u>	<u>n/a</u>	<u>n/a</u>
Fire Alarm	<u>n/a</u>	<u>n/a</u>	<u>n/a</u>
Intercom	<u>n/a</u>	<u>n/a</u>	<u>n/a</u>
Telephone	<u>n/a</u>	<u>n/a</u>	<u>n/a</u>
Television	<u>n/a</u>	<u>n/a</u>	<u>n/a</u>
Computer	<u>n/a</u>	<u>n/a</u>	<u>n/a</u>
Wireless Network	<u>n/a</u>	<u>n/a</u>	<u>n/a</u>
Interactive White bd	<u>n/a</u>	<u>n/a</u>	<u>n/a</u>
Voice Amplification	<u>n/a</u>	<u>n/a</u>	<u>n/a</u>

FIXED EQUIPMENT:

Teacher Cabinet	<u>n/a</u>	Custodial Room Shelves	<u>n/a</u>
Student Lockers	<u>n/a</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	<u>n/a</u>
Dry Food Shelves	<u>n/a</u>	Other	<u>n/a</u>

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	n/a	n/a	n/a	n/a
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				
Building	concrete - bare	none	Painted Plywood	Painted Plywood

Miscellaneous Project Specific Features: _____

Kentucky Registered Architect:		Date: 9-12-18
	Signature	
Kentucky Registered Engineer:	n/a	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