

ROBERT EHMET HAYES & ASSOCIATES, PLLC

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October 20, 2023

VIA EMAIL

To: Mr. Jay Brewer, Superintendent
Dayton Independent Schools

Re: Dayton Independent Schools – Athletic Complex – Bid Package #2 – Dayton Stadium
REH #168-523 / BG #23-538

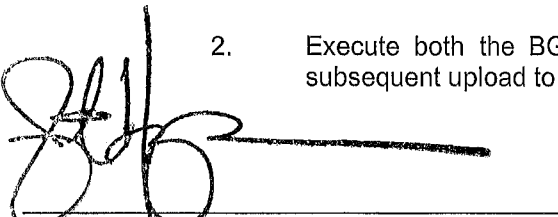
Enclosures:

1. Review Schematic Design Documents, dated October 25, 2023.
2. Copy of BG-2 dated October 13, 2023
3. Copy of BG-3 dated October 13, 2023.

Action

Required:

1. Obtain Board approval of the Schematic Design Documents, BG-2 and BG-3.
2. Execute both the BG-2 and BG-3. Return a copy of each to our office for subsequent upload to KDE and retain a copy for your records.



Joseph Hayes

JAH:jhf

District Name: Dayton Independent District Code: 147 Facility Name: Dayton High School School Code: 010
Date: 10/13/23 REH: 168-523
Project Name: Dayton Independent Schools - Athletic Complex - BP #2 - Stadium

PROJECT TYPE: Yes No Gross Building Area (sf.)
New Building ☒ ☐ 2,400
Addition ☐ ☐
Renovation ☐ ☐

Provisions for Future Expansion: _____

Proposed Alternates: (1) Parking Lot
(2) Fieldhouse/Fitness Center
(3) _____

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

BUILDING CONSTRUCTION CHARACTERISTICS:

Description of Building Structure:

Foundation: Concrete

Exterior Walls: Wood Frame with Brick Veneer

Roof Structure: Wood Frame with EPDM Membrane

ENERGY EFFICIENT DESIGN (KRS 157.450 and KRS 157.455):

None - New _____ Energy Consumption "Existing" (kBtu/sf/yr)

Unknown at this time _____ 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): 6,600

Avg. Exterior Wall R-Value: R21

Gross Window / Door Area (sf): 410

Avg. Window/Door R-Value: R2

Gross Roof Area (sf): 2,400

Avg. Roof R-Value: R13

Exterior Wall Type: C Other: _____

Roofing Type: B Other: _____

HVAC System Type: _____ Unknown at this time. Other: _____

Classroom Lighting: E - LED Other: _____

Active Daylighting: B Other: _____

Passive Daylighting: G Other: _____

On Site Energy Generation: G Other: _____

Project: Dayton Independent Schools - Athletic Complex - BP#2 - Stadium

REH: 168-523

Date: 10/13/23

Air Purification Systems : YES ☐ NO ☒

Gray Water System : YES ☐ NO ☒

Low Water Use Fixtures : YES ☒ NO ☐

Other: _____

PLUMBING:

Type of Sewage Disposal: Public

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: Utility Padmount Transformer

Voltage Serving Facility: Unknown at this time.

Number of Convenience Outlets:

Classrooms N/A

Library/Media Center N/A

Business Ed N/A

Family & Consumer Science _____

Camera System: Yes

Lighting Intensity (fc.):

Std. Classrooms _____

Library/Media Ctr _____

Science Lab _____

Science Ctrm _____

Band/Music _____

Business Ed _____

Shops _____

Corridors _____

Stairways _____

Cafeteria _____

Pre-School Ctrm _____

Art Classroom _____

Gymnasium _____

SPECIAL EQUIPMENT:

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

Teacher Cabinet _____

Student Lockers _____

Folding Bleachers _____

Library Furnishings _____

Dry Food Shelves _____

Custodial Room Shelves _____

Science Laboratories _____

Family & Consumer Sci _____

Other _____

Other _____

Project: Dayton Independent Schools - Athletic
Complex - BP#1 - Lincoln Elementary Cooling
Tower Replacement

REH Project #168-523


Date: 8/16/23

INTERIOR FINISH SCHEDULE:

AREA	FLOOR	WAINSCOT	WALLS	CEILING
General Office				
Corridors				
Custodial				
Kitchen				
Cafeteria				
Gym				
Showers/Locker				
Toilets	Resinous	-	FRP	Drywall
Library/Media Cntr				
Classrooms				
Music				
Art				
Science				
FMD				
OTHER AREAS				

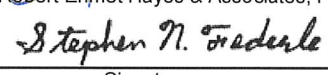
Miscellaneous Project Specific Features:

Kentucky Registered Architect:


Signature
Robert Ehmet Hayes & Associates, PLLC

Date: 10/13/2023

Kentucky Registered Engineer:


Signature

Date: 10/13/2023

Board Designee or Superintendent:

Signature

Date:

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