

ROBERT EHMET HAYES & ASSOCIATES, PLLC

2512 DIXIE HIGHWAY, FT. MITCHELL, KENTUCKY 41017-3094

ARCHITECTS

859-331-3121

reh@reharchitects.com

www.reharchitects.com

November 11, 2020

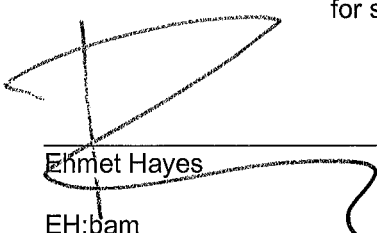
VIA EMAIL and USPS

To: Mr. Jay Brewer, Superintendent
Dayton Independent Schools

RE: Dayton Day Care and Stadium - Roofs
REH #168-820 / BG #21-076

- Enclosures:
1. Bidding Documents dated November 18, 2020 for referenced project.
 2. Two copies of the BG-2, dated November 18, 2020 for completed Bidding Documents.
 3. Two copies of the BG-3, dated November 18, 2020, for completed Bidding Documents.

- Action
Required:
1. Obtain Board approval of the Bidding Documents, BG-2, and BG-3.
 2. Execute both the BG-2 and BG-3.
 3. Retain one copy of the BG-2 and BG-3 and forward one copy of each to our office for subsequent upload to KDE.



Robert Emet Hayes

EH:bam

District Name: Dayton Independent District Code: 147 Facility Name: Day Care Stadium School Code: N/A
Date: 11/18/20 REH: 168-820
Project Name: Dayton Day Care and Stadium - Roofs 2020

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

New Building ☐ ☒ _____

Addition ☐ ☒ _____

Renovation ☒ ☐ ±3,600 total sf of roof

Provisions for Future Expansion: _____

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

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

BUILDING CONSTRUCTION CHARACTERISTICS:

Description of Building Structure:

Foundation: _____

Exterior Walls: _____

Roof Structure: Wood sheathing on wood joists/trusses

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. _____

☐ ☐ 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): ±3,600 sf Avg. Roof R-Value: _____

Exterior Wall Type: _____ Other: _____

Roofing Type: E - asphalt shingle roofing over nailable deck with insulation Other: EPDM over wood deck
F - other, describe

HVAC System Type: _____ Other: _____

Classroom Lighting: _____ Other: _____

Active Daylighting: _____ Other: _____

Passive Daylighting: _____ Other: _____

On Site Energy Generation: _____ Other: _____

Project: Dayton Day Care and Stadium - Roofs 2020

REH: 168-820

Date: 11/18/20

Air Purification Systems : YES ☐ NO ☒

Gray Water System : YES ☐ NO ☒

Low Water Use Fixtures : YES ☐ NO ☒

Other: _____

PLUMBING: N/A

Type of Sewage Disposal: _____

HEATING, VENTILATION AND AIR CONDITIONING: N/A

Heating Only: _____ Heating & Mechanical: _____ HVAC: _____ A/C Only: _____
Ventilation Only

Fuel Source/Backup (if applicable): _____

ELECTRICAL: N/A

Source of Electric Power: _____

Voltage Serving Facility: _____

Number of Convenience Outlets:

Classrooms _____

Library/Media Center _____

Business Ed _____

Family & Consumer Science _____

Camera System: _____

Lighting Intensity (fc.):

Std. Classrooms _____

Library/Media Ctr _____

Science Lab _____

Science Clrm _____

Band/Music _____

Business Ed _____

Shops _____

Corridors _____

Stairways _____

Cafeteria _____

Pre-School Clrm _____

Art Classroom _____

Gymnasium _____

SPECIAL EQUIPMENT: N/A

System	Conduit Only	Conduit & Wiring	Complete with Equipment
Bell	_____	_____	_____
Clock	_____	_____	_____
Fire Alarm	_____	_____	_____
Intercom	_____	_____	_____
Telephone	_____	_____	_____
Television	_____	_____	_____
Computer	_____	_____	_____
Wireless Network	_____	_____	_____
Interactive White bd	_____	_____	_____
Voice Amplification	_____	_____	_____

FIXED EQUIPMENT: N/A

Teacher Cabinet	_____	Custodial Room Shelves	_____
Student Lockers	_____	Science Laboratories	_____
Folding Bleachers	_____	Family & Consumer Sci	_____
Library Furnishings	_____	Other	_____
Dry Food Shelves	_____	Other	_____

INTERIOR FINISH SCHEDULE: N/A

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

Miscellaneous Project Specific Features

Kentucky Registered Architect:

Signature
Robert Ehmet Hayes & Associates, PLLC

Date: 11/18/2020

Kentucky Registered Engineer:

N/A
Signature

Date:

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 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

District Name: Dayton Independent Schools District Code: 147 Facility Name: Day Care Stadium School Code: NA

Project Name: Dayton Day Care and Stadium - Roofs 2020

Project Phase: **1 Design Development:** ☐ **Construction Documents:** ☒

1. Site Development	\$	
2. General Construction	\$	54,350.00
3. Heating, Ventilation & Air Conditioning	\$	
4. Plumbing (Include Sprinkler System)	\$	
5. Electrical Work	\$	
6. Sewage Disposal System	\$	
7. Total Construction Cost (1-6)		54,350.00
8. Site Acquisition Cost (Purchase Price)	\$	
9. Legal Services	\$	
10. Fiscal Agent Fee	\$	
11. Bond Discount	\$	
12. Architect/Engineer Fee	\$	5,014.00
13. Construction/Manager Fee (if Applicable)	\$	
14. Equipment/Furnishings (Not Fixed)/Computers	\$	
15. Property & Topographic Survey	\$	
16. Geotechnical Survey & Report	\$	
17. Special Inspections	\$	
18. Asbestos Abatement	\$	
19. Commissioning Fee	\$	
20. Plan Review Fee	\$	2,200.00
21. Printing & Distribution of Bid Docs	\$	500.00
22. Contingencies - Minimum 5% of Line 7	\$	2,718.00
23. Other Cost (Describe) Bank/Rating	\$	
24. Total Other Cost (8-23)		10,432.00
25. TOTAL PROJECT COST (line 7 + line 24)		64,782.00
a. Gross Square Foot Area*		
b. Total Cost Per Square Foot		na
c. Total Cost Per Pupil	\$	
d. Gross Sq. Ft. Area of Alternates		
* Base Bid Area Only		

Kentucky Registered Architect/Engineer:  Date: 11/18/2020

Construction Manager: _____ Date: _____

Board of Education Designee: _____ Date: _____