



FLOYD COUNTY BOARD OF EDUCATION  
Danny Adkins, Superintendent  
442 KY RT 550  
Eastern, KY 41622  
Telephone (606) 886-2354 Fax (606) 886-4550  
www.floyd.kyschools.us

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William Newsome, Jr., Vice-Chair - District 3  
Linda C. Gearheart, Member - District 1  
Dr. Chandra Varia, Member- District 2  
Rhonda Meade, Member - District 4

**Date:** September 23, 2019

**Agenda Item (Action Item):** Consider/Approve BG-2 and BG-3 for the Betsy Layne High School Baseball field project (BG# 19-222).

**Applicable State or Regulations:** Capital Construction Process 702 KAR 4:160.

**Budget/Financial Issues:** Total Project Cost is \$2,041,000.00.

**Background and Rationale:** The initial BG-1 (Probable Cost) was \$1,566,000.00 and the BG-3 (Statement of Probable Cost) is \$2,041,000.00.

**Recommended Action:** To approve BG-2 and BG-3.

**Contact Person(s):** Gregory Adams/874-9569

Principal

  
Director Superintendent

District Name: Floyd District Code: 175 Facility Name: Betsy Layne High School School Code: 120

Project Name: Betsy Layne High School Phase II Baseball Field

**PROJECT TYPE:** Yes No Gross Building Area (sf.)  
New Building ☒ ☐ 2,547  
Addition ☐ ☐ \_\_\_\_\_  
Renovation ☐ ☐ \_\_\_\_\_  
Provisions for Future Expansion: N/A

Proposed Alternates: (1) See attached list  
(2) \_\_\_\_\_  
(3) \_\_\_\_\_

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

**BUILDING CONSTRUCTION CHARACTERISTICS:**

Description of Building Structure:

Foundation: Continuous concrete spread footings; concrete slab-on-grade

Exterior Walls: Single wythe masonry

Roof Structure: Wood trusses/joists

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

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

40 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. Heat/Ventilation only. Small concessions/restrooms used intermittently

☐ ☒ 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): 1,290 (Concessions/Restrooms) Avg. Exterior Wall R-Value: 10

Gross Window / Door Area (sf): 210 (Concessions/Restrooms) Avg. Window/Door R-Value: 6.6

Gross Roof Area (sf): 1,010 (Concessions/Restrooms) Avg. Roof R-Value: 38

Exterior Wall Type: E - other, describe Other: Single Wythe Masonry

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

HVAC System Type: L - other Other: Heating Only

Classroom Lighting: E - other Other: No Classrooms

Active Daylighting: F - none Other: \_\_\_\_\_

Passive Daylighting: G - none Other: \_\_\_\_\_

On Site Energy Generation: G - none Other: \_\_\_\_\_

## OUTLINE SPECIFICATIONS ENERGY DESIGN CRITERIA

Air Purification Systems : YES ☐ NO ☒Gray Water System : YES ☐ NO ☒Low Water Use Fixtures : YES ☒ NO ☐

Other: \_\_\_\_\_

**PLUMBING:**Type of Sewage Disposal: Municipal**HEATING, VENTILATION AND AIR CONDITIONING:**Heating Only: \_\_\_\_\_ Heating & Mechanical: YES HVAC: \_\_\_\_\_ A/C Only: \_\_\_\_\_  
Ventilation Only

Fuel Source/Backup (if applicable): \_\_\_\_\_

**ELECTRICAL:**Source of Electric Power: AEPVoltage Serving Facility: 120/208v, 3 phase, 4 wire

Number of Convenience Outlets:

Classrooms NALibrary/Media Center NABusiness Ed NAFamily & Consumer Science NACamera System: No

Lighting Intensity (fc.):

Std. Classrooms NALibrary/Media Ctr NAScience Lab NAScience Clrm NABand/Music NABusiness Ed NAShops NACorridors 20Stairways NACafeteria NAPre-School Clrm NAArt Classroom NAGymnasium NA**SPECIAL EQUIPMENT:**

System	Conduit Only	Conduit & Wiring	Complete with Equipment
Bell	<u>NA</u>	<u>_____</u>	<u>_____</u>
Clock	<u>NA</u>	<u>_____</u>	<u>_____</u>
Fire Alarm	<u>NA</u>	<u>_____</u>	<u>_____</u>
Intercom	<u>NA</u>	<u>_____</u>	<u>_____</u>
Telephone	<u>_____</u>	<u>X</u>	<u>_____</u>
Television	<u>NA</u>	<u>_____</u>	<u>_____</u>
Computer	<u>_____</u>	<u>X</u>	<u>_____</u>
Wireless Network	<u>_____</u>	<u>X</u>	<u>_____</u>
Interactive White bd	<u>NA</u>	<u>_____</u>	<u>_____</u>
Voice Amplification	<u>_____</u>	<u>_____</u>	<u>X (Baseball Sound System)</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>Stainless Stil. Counter</u>
Dry Food Shelves	<u>N/A</u>	Other	<u>_____</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	Sealed Concrete	N/A	Painted CMU	Painted Gyp. Bd.
Kitchen	Sealed Concrete	N/A	Painted CMU	Painted Gyp. Bd.
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	Painted CMU	Painted Gyp. Bd.
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


Miscellaneous Project Specific Features:

Kentucky Registered Architect:	<u>Allison Cummings</u>	Date: <u>9/19/2019</u>
	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

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For Reference



**September 19, 2019**

**Betsy Layne High School Phase II Baseball Field**

**SCB Project No. 1951**

**BG No. 19-222**

**Alternates**

- Alt. No. 1      Sidewalk and stair from the baseball complex to Bobcat Blvd.**
- Alt. No. 2      LED field lights in lieu of HID field lights.**
- Alt. No. 3      Grass at the dugout bullpens in lieu of turf.**
- Alt. No. 4      Owner preferred door hardware by Best.**

District Name: Floyd District Code: 175 Facility Name: Betsy Layne High School School Code: 120

Project Name: Betsy Layne High School Phase II Baseball Field

Project Phase:	Design Development:	Construction Documents:
1. Site Development	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2. General Construction		
3. Heating, Ventilation & Air Conditioning		
4. Plumbing (Include Sprinkler System)		
5. Electrical Work		
6. Sewage Disposal System		
7. Total Construction Cost (1-6)		\$ 1,711,940.00
8. Site Acquisition Cost (Purchase Price)	\$ -	
9. Legal Services	\$ -	
10. Fiscal Agent Fee	\$ 20,350.00	
11. Bond Discount	\$ 38,700.00	
12. Architect/Engineer Fee	\$ 114,699.98	
13. Construction/Manager Fee (if Applicable)	\$ -	
14. Equipment/Furnishings (Not Fixed)/Computers	\$ 15,000.00	
15. Property & Topographic Survey	\$ 4,800.00	
16. Geotechnical Survey & Report	\$ 22,500.00	
17. Special Inspections	\$ 17,119.40	
18. Asbestos Abatement	\$ -	
19. Commissioning Fee	\$ -	
20. Plan Review Fee	\$ 382.05	
21. Printing & Distribution of Bid Docs	\$ 5,000.00	
22. Contingencies - Minimum 5% of Line 7	\$ 90,008.57	
23. Other Cost - Advertisement for Bids	\$ 500.00	
24. Total Other Cost (8-23)		\$ 329,060.00
25. TOTAL PROJECT COST (line 7 + line 24)		\$ 2,041,000.00
a. Gross Square Foot Area*		2,457
b. Total Cost Per Square Foot		830.69
c. Total Cost Per Pupil		\$ 5,230.78
d. Gross Sq. Ft. Area of Alternates * Base Bid Area Only		N/A

Kentucky Registered Architect/Engineer: Allison Cummings Date: 9/20/19

Construction Manager: \_\_\_\_\_ Date: \_\_\_\_\_

Board of Education Designee: \_\_\_\_\_ Date: \_\_\_\_\_