

KENTUCKY DEPARTMENT OF EDUCATION  
DIVISION OF FACILITIES MANAGEMENT

BG-2, 2011  
OUTLINE SPECIFICATIONS  
702 KAR 4:160

District: Hardin District Code: 231 Facility Name: North Hardin High School School Code: 075

**PROJECT TYPE:** Yes No Gross Floor Area (sf.)  
New Building ☐ ☒  
Addition ☐ ☒  
Renovation ☒ ☐ N/A-Sanitary Sewer Repairs  
Provisions for Future Expansion: N/A

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

Describe special conditions, phasing of project and alternates, attach a supplemental sheet, if needed.  
This is an emergency project. The existing sanitary line has failed.

**BUILDING CONSTRUCTION CHARACTERISTICS:**

Description of Building Structure:

Foundation: N/A

Exterior Walls: N/A

Roof Structure: N/A

**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. Sanitary sewer replacement/repair.

☐ ☒ 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): N/A Avg. Exterior Wall R-Value: \_\_\_\_\_

Gross Window / Door Area (sf): N/A Avg. Window/Door R-Value: \_\_\_\_\_

Gross Roof Area (sf): N/A Avg. Roof R-Value: \_\_\_\_\_

Exterior Wall Type: \_\_\_\_\_ Other: \_\_\_\_\_

Roofing Type: \_\_\_\_\_ Other: \_\_\_\_\_

HVAC System Type: \_\_\_\_\_ Other: \_\_\_\_\_

Classroom Lighting: \_\_\_\_\_ Other: \_\_\_\_\_

Active Daylighting: \_\_\_\_\_ Other: \_\_\_\_\_

Passive Daylighting: \_\_\_\_\_ Other: \_\_\_\_\_

On Site Energy Generation: \_\_\_\_\_ Other: \_\_\_\_\_

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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: 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: Kentucky Utilities

Voltage Serving Facility: 120/208V-3Ø

Number of Convenience Outlets:

Classrooms N/A

Library/Media Center N/A

Business Ed N/A

Family & Consumer Science N/A

Camera System: N/A

Lighting Intensity (ft. and sf.):

Std. Classrooms N/A

Library/Media Ctr N/A

Science Lab N/A

Science Clrm N/A

Band/Music N/A

Business Ed N/A

Shops N/A

Corridors N/A

Stairways N/A

Cafeteria N/A

Pre-School Clrm N/A

Art Classroom N/A

Gymnasium N/A

**SPECIAL EQUIPMENT:**

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

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**FIXED EQUIPMENT:**

**INTERIOR FINISH SCHEDULE:**

Miscellaneous Project Specific Features: Sanitary sewer line repair/replacement.

Kentucky Registered Engineer: Whitby Casey Signature \_\_\_\_\_ Date: 1-14-14

BG-2, 2011

### 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

KENTUCKY DEPARTMENT OF EDUCATION  
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BG-3, 2008  
STATEMENT OF PROBABLE COST  
702 KAR 4:160

District: Hardin District Code: 231 Facility Name: North Hardin High School School Code: 075

Project Phase: Design Development: ☐ Completed Plans & Specifications: ☐

1. Site Development	\$	0	
2. General Construction	\$	0	
3. Heating, Ventilation & Air Conditioning	\$	0	
4. Plumbing (Include Sprinkler System)	\$	185,000	
5. Electrical Work	\$	15,000	
6. Sewage Disposal System	\$	0	
7. Total Construction Cost (1-6)			\$200,000
8. Site Acquisition Cost (Purchase Price)	\$	0	
9. Legal Services	\$	0	
10. Fiscal Agent Fee	\$	0	
11. Bond Discount	\$	0	
12. Architect/Engineer Fee	\$	19,600	
13. Construction/Manager Fee (If Applicable)	\$	0	
14. Equipment/Furnishings (Not Fixed)/Computers	\$	0	
15. Property & Topographic Survey	\$	0	
16. Geotechnical Survey & Report	\$	0	
17. Special Inspections	\$	0	
18. Asbestos Abatement	\$	0	
19. Commissioning Fee	\$	0	
20. Plan Review Fee	\$	0	
21. Printing & Distribution of Bid Docs	\$	3,000	
22. Contingencies - Minimum 5% of Line 7	\$	10,000	
23. Other Cost (Describe)	\$	0	
24. Total Other Cost (8-23)			\$32,600
25. <b>GRAND TOTAL COST (7 + 24)</b>			<b>\$232,600</b>
a. Gross Square Foot Area*			NA
b. Total Cost Per Square Foot			NA
c. Total Cost Per Pupil			NA
d. Gross Sq. Ft. Area of Alternates			NA
* Base Bid Area Only			

Kentucky Registered Architect/Engineer: Whitley Casey

Date: 1-14-14

Construction Manager:

Date:

Note: Construction Manager shall submit a separate BG-3, if BG-3 Construction Cost does not agree with Architect's BG-03. The Owner shall be notified and appropriate measures taken to bring both parties into agreement.