ROBERT EHMET HAYES & ASSOCIATES, PLLC ARCHITECTS

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December 6, 2018

VIA EMAIL and HAND DELIVERY

To: Mr. Greg Duty, Superintendent
Southgate Independent Schools

RE: Southgate Public School – Renovations
BG #19-033 / REH #350-1217

Enclosures:
1. Two copies of revised BG-2, dated December 6, 2018.

Action Required:
1. Obtain Board approval of the revised BG-2.
2. Execute the BG-2 forms.
3. Retain one copy for your file and return the other to our office. Upon receipt, we will upload to KDE for their approval.

Ehmet Hayes

EH:aes

District Name: **Southgate Independent** District Code: **537** Facility Name: **Southgate Public School** School Code: **010**

Project Name: **Renovations** REH Project #**350-1217** Date: **12/6/18**

PROJECT TYPE:	Yes	No	Gross Building Area (sf.)
New Building	☐	☐	
Addition	☑	☐	
Renovation	☑	☐	**34,870** **(entire building and mobiles)**

Provisions for Future Expansion:

Proposed Alternates: (1) **To be determined**
(2)
(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: **Load bearing masonry**

Roof Structure: **Steel deck on steel joists and assumed wood in original building**

ENERGY EFFICIENT DESIGN (KRS 157.450 and KRS 157.455):

150 Energy Consumption "Existing" (kBtu/sf/yr)

120 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. **LEED is not in budget and not feasible on this renovation**

☐	☑	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): Avg. Roof R-Value:

Exterior Wall Type:		Other:
Roofing Type:		Other:
HVAC System Type:	VFR and RTU's	Other:
Classroom Lighting:	N/A	Other:
Active Daylighting:	N/A	Other:
Passive Daylighting:	N/A	Other:
On Site Energy Generation:	N/A	Other:

Project: **Southgte Public School - Renovations** REH Project #**350-1217** Date: **12/6/18**

Air Purification Systems : YES ☐ NO ☑

Gray Water System : YES ☐ NO ☑

Low Water Use Fixtures : YES ☐ NO ☑

Other: _____

PLUMBING:

Type of Sewage Disposal: _____

HEATING, VENTILATION AND AIR CONDITIONING:

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

Fuel Source/Backup (if applicable): _____

ELECTRICAL:

Source of Electric Power: **Utility**

Voltage Serving Facility: **120/208 3 phase**

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 (fc.):

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	N/A		
Clock	N/A		
Fire Alarm	N/A		
Intercom	N/A		
Telephone	N/A		
Television	N/A		
Computer	N/A		
Wireless Network	N/A		
Interactive White bd	N/A		
Voice Amplification	N/A		

FIXED EQUIPMENT:

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

Project: Southgte Public School - Renovations REH Project #350-1217 Date: 12/6/18

INTERIOR FINISH SCHEDULE:

AREA	FLOOR	WAINSCOT	WALLS	CEILING
General Office				
Corridors	Carpet	N/A	Drywall & existing plaster	Acoustic & existing tin
Custodial				
Kitchen				
Cafeteria				
Gym				
Showers/Locker				
Toilets				
Library/Media Cntr				
Classrooms				
Music				
Art				
Science				
FMD				
OTHER AREAS				

Miscellaneous Project Specific Features:

Kentucky Registered Architect: _____ Date: 12-11-18
Signature
Robert Ehmet Hayes & Associates, PLLC

Kentucky Registered Engineer: _____ Stephen Fedarko PE Date: 12-11-18
Signature
KLH Engineers, PSC

Board Designee or Superintendent: _____ Date: _____
Signature
Southgate Independent Board of Education

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