OUTLINE SPECIFICATIONS ENERGY-DESIGN CRITERIA

District Name:	Henderso	n	District Code:	251	Facility Name:	Spottsville Elementary	School Code:	110	
Project Name: Henderson County Schools - New Spottsville Elementary School									
PROJEC	CT TYPE:	Yes	No	Gross Building Area (sf.)					
New Building						- , ,			
Addition	-								
Renovation									
Provisions for Future Expansion:			The two story wing can be expanded						
Proposed Alternates: (1) Cupola									
(2) Low speed high volume f: (3)									
Describe special conditions, phasing of project and alternates, attach a supplemental sheet, if needed.									
Describe special conditions, phasting of project and alternates, attach a supplemental sheet, it needed.									
BUILDING CONSTRUCTION CHARACTERISTICS:									
Descript	ion of Buildin	g Structure:							
•		-	ing with poured	in place	foundation				
r.	wanine Walla	CMIL 49 cc	enu on incodet	• • • • • • • • • • • • • • • • • • •	0 1 -1 -1 -1				
E:	xterior vvails:	CIVIO, 4" Sp	ray on insulation	ı, aır spa	ce, & Drick Ve	eneer	<u> </u>		
Ro	of Structure:	Single ply T	PO & 30 yr. asp	hait shin	gles on insul	ated roof panel, & metal bar joist			
			<u>.</u>						
ENERG'	Y EFFICIENT	DESIGN (K	RS 157.450 and	d KRS 1	57 <u>.455)</u> :				
		Energy Con	sumption "Exist	ing" (kBt	u/sf/yr)				
	24.5	_Energy Con	sumption Targe	et (kBtu/s	f/yr)				
YES	NO			•	•				
	abla	LEED Certif	fied	Other	: Energy St	ar			
2		Designed to meet Energy Star							
7		Exceeds AS	SHRAE 90.1(20	07) by 10	1% (Minimum)			
7									
		Lif	e Cycle Cost An	alysis So	oftware Used	Taco System Analysis Tool "Life	Cycle Costs"		
If not ye	s to one or i	more of the	above, explain	why.	LEED's is n	ot an indicator of energy efficienc	y	~~~~	
	Ø.	Decianad to	be Net-Zero		· · · · · · · · · · · · · · · · · · ·				
		-	o be Net-Zero o be Net-Zero R	eadv					
		_		•					
			s: (See List Pa			own List)			
	est Building		☑ YES	☐ NC)				
	xterior Wall A	, ,		·····		_ 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:			captured air space,				Other:		
Roofing		E - asphalt shingle roofing over nailable deck with insulation					Other:		
		C - ground source heat pump system with air make up					Other:		
		LED	Habi and - 1			***************************************	Other:		
Active Daylighting:			light control sensors	5			Other: and LED dim	rning	
Passive Daylighting: C - exterior light shelves On Site Energy Generation: G - none						Other:	· · · · · · · · · · · · · · · · · · ·		
On Site Energy Generation: G-none Other:									

OUTLINE SPECIFICATIONS ENERGY DESIGN CRITERIA

Air Purification Systems:	YES 🗌 NO [2	
Gray Water System:	YES NO [2	
Low Water Use Fixtures	YES NO [
Other:		194	
		•	
PLUMBING:			
Type of Sewage Disposa	al: Package plant on site		
HEATING, VENTILATIO	N AND AIR CONDITIONING:		
Heating Only:	Heating & Mechanical: Ventilation Only	HVAC:	A/C Only:
Fuel Source/Backup (if a	pplicable):		
ELECTRICAL:			
Source of Electric Power	Kenergy	Lighting Intensity (fc.): Std. Classrooms	50 fc avg,
Voltage Serving Facility:	120/208 VAC 3Ø 4W	Library/Media Ctr	50 fc
-		Science Lab	N/A
Number of Convenience		Science Clrm	N/A
Classrooms	12	Band/Music	N/A
Library/Media Center	14	Business Ed	N/A
Business Ed	N/A	Shops	N/A
Family & Consumer Science	ence N/A	Corridors	20
		Stairways	20
Camera System:	Yes	Cafeteria	50
		Pre-School Cirm	50
		Art Classroom	50
		Gymnasium	50
SPECIAL EQUIPMENT			
System Bell	Conduit Only	Conduit & Wiring	Complete with Equipment
Clock			X
Fire Alarm			X
Intercom			X
Telephone	· · · · · · · · · · · · · · · · · · ·	X	
Television		X	
Computer		X	
Wireless Network	-	X	
Interactive White bd		X	
Voice Amplification			X
FIXED EQUIPMENT:			
Teacher Cabinet	Х	Custodial Room Shelves	X
Student Lockers	X	Science Laboratories	
Folding Bleachers	X	Family & Consumer Sci	
Library Furnishings	×	Other	
Dry Food Shelves	×	Other	
-		 -	

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OUTLINE SPECIFICATIONS ENERGY DESIGN CRITERIA

INTERIOR FINISH SCHEDULE:								
AREA	FLOOR	WAINSCOT	WALLS	CEILING				
General Office	Carpet	n/a	Paint	2x2 SAPC				
Corridors	Stained Concrete	n/a	Epoxy / Paint	2x2 SAPC				
Custodial	Exposed Concrete	n/a	Ероху	2x2 SAPC				
Kitchen	Quarry Tile	n/a	Ероху	2x2 SAPC				
Cafeteria	VCT	n/a	Ероху	2x2 SAPC				
Gym	Wood	n/a	Ероху	2x2 SAPC				
Showers/Locker	Ceramic Tile	n/a	Epoxy / Ceramic	2x2 SAPC				
Toilets	Ceramic Tile	n/a	Epoxy / Ceramic	2x2 SAPC				
Library/Media Cnt	r Carpet	n/a	Paint	2x2 SAPC				
Classrooms	VCT	n/a	Paint	2x2 SAPC				
Music/Art	VCT	n/a	Ероху	2x2 SAPC				
Art	n/a	n/a	n/a	n/a				
Science	n/a	n/a	n/a	n/a				
FMD	VCT	n/a	Epoxy / Paint	2x2 SAPC				
OTHER AREAS	Value of the second of the sec							
Miscellaneous Project Specific Features:								
Kentucky Registe	red Architect:	Cho 7 than Signature		Date: 3/16/16				
Kentucky Registe	red Engineer:	Signature		Date:				
Board Designee o	or Superintendent:	Signature	;	Date:				

OUTLINE SPECIFICATIONS ENERGY DESIGN CRITERIA

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 geothermat/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

BG#____

KENTUCKY DEPARTMENT OF EDUCATION 702 KAR 4:160

BG-3 Form - 2013

District District Name: Henderson County Code: 251	Facility —	Spottsville Elementary	-	School Code:	110		
Project Name: Spottsville Elementary Project Phase: Design Development: Construction Documents:							
Project Phase: Design Development:	包	, ,	DOCUM	nus.			
1. Site Development	\$	1,152,000.00					
2. General Construction	\$						
3. Heating, Ventilation & Air Conditioning		2,701,510.00					
4. Plumbing (Include Sprinkler System)	\$		•				
5. Electrical Work	\$	1,775,508.00 0.00					
Sewage Disposal System Total Construction Cost (1-6)	\$	0.00	S	14,522,	RR1 OO		
Site Acquisition Cost (Purchase Price)	•			17,024,	001.00		
9. Legal Services							
10. Fiscal Agent Fee	\$	69,900.00					
11. Bond Discount	\$		'				
12. Architect/Englneer Fee	\$						
13. Construction/Manager Fee (if Applicable)	\$		•				
14. Equipment/Furnishings (Not Fixed)/Computers		0.00	•				
15. Property & Topographic Survey		7,950.00					
16. Geotechnical Survey & Report	.,	21,160.00					
17. Special Inspections							
18. Asbestos Abatement	·						
19. Commissioning Fee							
20. Plan Review Fee							
21. Printing & Distribution of Bld Docs							
22. Contingencies - Minimum 5% of Line 7							
23. Other Cost: Bank Rating Fee	\$ \$	19,500.00					
-	¥						
24. Total Other Cost (8-23)			\$	2,453,	024.67		
25. TOTAL PROJECT COST (line 7 + line 24)			\$	16,975,	705.67		
a. Gross Square Foot Area*					77,186		
b. Total Cost Per Square Foot				219.93			
c. Total Cost Per Pupil	/	•	\$	24,	251.00		
d. Gross Sq. Ft. Area of Alternates * Base Bid Area Only			· · · · · · · · · · · · · · · · · · ·		0		
Kentucky Registered Architect/Engineer:	7		Date: 17	2-14	-16		
200	T		-	1	-16 -1016		
Construction Manager: A. I full Aug		Marie la made will the stay of the selection of the selec	Date: _	3-14-	£016		
Board of Education Designee:	Date:						

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