WOODFORD COUNTY BOARD OF EDUCATION **AGENDA ITEM**

ITEM #: X I DATE: December 13, 2021

TOPIC/TITLE: New WCHS - BG-2 (Construction Document Phase)

PRESENTER: Jeff Martello

ORIGIN:

TOPIC PRESENTED FOR INFORMATION ONLY (No board action required.)
ACTION REQUESTED AT THIS MEETING	
ITEM IS ON THE CONSENT AGENDA FOR APPR	OVAL
ACTION REQUESTED AT FUTURE MEETING:	(DATE)
BOARD REVIEW REQUIRED BY	

- \boxtimes STATE OR FEDERAL LAW OR REGULATION
 - BOARD OF EDUCATION POLICY
 - OTHER:

PREVIOUS REVIEW, DISCUSSION OR ACTION:

Г	T	1
L	_	
г		1
L.		

NO PREVIOUS BOARD REVIEW, DISCUSSION OR ACTION PREVIOUS REVIEW OR ACTION

DATE:
ACTION:

BACKGROUND INFORMATION:

For consideration of approval. New WCHS - BG-2 (Construction Document Phase). Outline Specifications Energy Design Criteria.

SUMMARY OF MAJOR ELEMENTS:

See above

IMPACT ON RESOURCES: Current BG-3 Reference @ \$60,399,784.52

TIMETABLE FOR FURTHER REVIEW OR ACTION: NA

SUPERINTENDENT,'S RECOMMENDATION: A Recommended Dot Recommended any Udkins ____

KENTUCKY DEPARTMENT OF EDUCATION

702 KAR 4:160

BG-2 OUTLINE SPECIFICATIONS ENERGY DESIGN CRITERIA

District Name:	Woodford		District Code: 6	Facility 01 Name:	Woodford County High	n School	School Code:		84	
Project Name: New Woodford County High SchoolPhase 1										
PROJEC	T TYPE:	Yes	No	Gross Bu	ilding Area (sf.)					
New Build	dina			19	3.782					
Addition	<u>-</u>									
Renovatio	on									
Provision	s for Future	Expansion:	At classroom wings							
Proposed	Alternates:	/1) Cafeteria Revisions	(4) Road	Connection-Tyrone Pk	(7) Owner	-pref HV	AC Controls Mfr		
Toposed	Alternates.	(2	2) Epoxy Terrazzo Floor	ring (5) Tyron	e Pk. ROW work	(8) Owner	her-pref. Access Ctrls. Mfr./Installer			
		(3	3) Geothermal HVAC	(6) Schoo	house Rd. ROW work	(9) Owner	r-pref. Doo	or Hdwr. Mfrs.		
Describe	special cond	ditions, phas	ing of project and altern	ates, attach a	supplemental sheet, if n	eeded.				
BUILDIN		UCTION CH	ARACTERISTICS:							
Descriptio	on of Buildin	g Structure:								
	Foundation	: Loadbearir	ng concrete masonry co	nstruction sup	ported on shallow found	ations.				
E>	xterior Walls	: Load-beari Precast co	ng masonry with masor ncrete walls at the storr	nry veneer and n shelter.	I metal panel siding. Met	al studs in	limited ar	eas.		
Ro	oof Structure	: Sloped ligh	tweight insulating conc	rete over meta	al decking and steel joist	s/beams. N	Metal dec	kina over		
		sloped stee	el joists/beams. Sloped	precast conci	rete double tees with top	ping slab a	t storm sl	nelter.		
ENERGY	EFFICIEN	DESIGN (M	KRS 157.450 and KRS	<u>157.455)</u> :						
	N/A	_Energy Co	nsumption "Existing" (k	Btu/sf/yr)						
32 / 20	0 (Geo Alt)	Energy Co	nsumption Target (kBtu	ı/sf/yr)						
YES	NO									
	~	LEED Cert	ified Oth	er:						
	~	Designed t	o meet Energy Star							
7		Exceeds A	SHRAE 90.1(2007) by	10% (Minimun	n)					
	~	Whole Bui	lding Life Cycle Cost Ar	nalysis Demon	strating Cost Effective D	esign				
		L	ife Cycle Cost Analysis	Software Used	d:					
If not yes	s to one or	more of the	above, explain why.							
		Designed	to be Net-Zero							
	~	Designed	to be Net-Zero Ready							
Energy F	Efficient De	sign Featur	es: (See List Page 4.	or Use Drop [Down List)					
East / W	est Building	Orientation	√ YES 「I	NO						
Gross Exterior Wall Area (sf): 81 000 Ava Exterior Wall B-Value: 22										
Gross Window / Door Area (sf): 9.159 / 1.031 Avg. Window / Door R-Value:						2.2/10				
Gross Roof Area (sf):124,200 Avg. Roof R-Value: 30)				
Exterior Wall Type: B - face brick, captured air space, sprayed insulation on CMU					Other:	Metal Panel				
Roofing Type: C-r		C - plastic sir	C - plastic single ply over rigid insulation			Other:	Metal Roof			
HVAC System Type: B -		B - water sou	B - water source heat pump system with air make up			Other:	Alt - System D			
Classroom Lighting: E - other		E - other	ner				Other:	LED		
Active Daylighting: A - class			room fluorescent dimming including dimming switches, ballasts and sensors				Other:			
Passive Daylighting: D - solar tubes without dimming					Other:					
On Site I	Energy Gen	eration:	G - none				Other:			

KENTUCKY DEPARTMENT OF EDUCATION

NEN	10	UNI	DEF		1 (
702 H	KAF	R 4:16	0		

A STREET WAS ADDRESS TO THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER.			Parane down the Contract of th		
Air Purification System	IS: YES 🗌 NO				
Gray Water System :	YES 🗌 NO	V			
Low Water Use Fixture	es: YES ☑ NO	Г			
Other:					
-					
PLUMBING:					
Type of Sewage Dispo	sal: <u>City Sanitary</u>				
HEATING, VENTILAT	ION AND AIR CONDITIONING	:			
Heating Only:	Heating & Mechanical: Ventilation Only		HVAC: X	A/C Only	;
Fuel Source/Backup (i	f applicable): Natural Gas				
ELECTRICAL:					
Source of Electric Pow	ver: Pad-mount transformer,	Kentucky Utili	ties Lighting Intensity (fc.):		
Voltago Sonving Escilit	hr: 277/480\//3DH/4\M		Std. Classrooms)
Voltage Serving Facilit	.y		Science Lab)
Number of Convenien	ce Outlets:		Science Clrm)
Classrooms	8		Band/Music	50)
Library/Media Center	18		Business Ed	50)
Business Ed	8		Shops	75	5
Family & Consumer Se	cience 8		Corridors	20)
			Stairways	20)
Camera System:	Yes		Cafeteria	50)
			Pre-School Clrm	N/A	
			Art Classroom	100)
			Gymnasium	50)
SPECIAL EQUIPMEN	<u>IT</u> :				
System	Conduit Only	Condu	it & Wiring	Complete	with Equipment
D	Solidari Shiy	oonda	i a triing	V	mar Equipmont
Bell	and the second second second second			X V	
	the second se			<u>^</u>	
Fire Alarm				$\frac{\Lambda}{V}$	
Tolophono		Y		<u>^</u>	
Telephone	N/A	<u>~</u>		Ν/Δ	
Computer	N/A	X			
Wireless Network	and the second se	X			
Interactive White bd		X			
Voice Amplification	N/A	N/A		N/A	
FIXED EQUIPMENT:	-				
Teacher Cabinet	Yes		Custodial Room Shelves		
Student Lockers	Yes (limited)		Science Laboratories		Yes
Folding Bleachers	Yes		Family & Consumer Sci		Yes
Library Furnishings	Yes		Other		Fixed Bleachers
Dry Food Shelves	Yes		Other		

BG#__19-353_

INTERIOR FINISH SCHEDULE:

AREA	FLOOR	WAINSCOT	WALLS	CEILING
General Office	LVT		Paint	Acoustical Ceiling Panel
Corridors	VCT		Paint	Painted Gypsum/ACT
Custodial	Sealed Concrete			
Kitchen	Quarry Tile		Paint/FRP	Washable Vinyl Ceiling Tile
Cafeteria	VCT		Paint	Painted Gypsum/ACT
Gym	Clear Stained Maple	Paint	Paint/Acoustical panels	Acoustical Insulation on Deck
Showers/Locker	Sealed Concrete		Paint/Ceramic Tile	Painted Gypsum
Toilets	Ceramic Tile		Paint/Ceramic Tile	Painted Gypsum
Library/Media Cnt	r Carpet		Paint	Painted Gypsum/ACT
Classrooms	VCT		Paint	Acoustical Ceiling Panel
Music	VCT		Paint/Acoustical panels	Acoustical Ceiling Panel
Art	VCT		Paint	Acoustical Ceiling Panel
Science	VCT		Paint	Acoustical Ceiling Panel
FMD	VCT		Paint	Acoustical Ceiling Panel
OTHER AREAS Auditorium	Sealed Conc./Carpe	t/Wood	Paint/Acoustical panels	Painted Gyp./Acoustical Panels
Miscellaneous Pro	oject Specific Features			
Kentucky Register	red Architect:	Mility Signature	the	Date: 12/1/2021
Kentucky Register	red Engineer:	Mutt Wale Signature	N	Date: 12/01/2021
Board Designee o	or Superintendent:	Signature		Date:

BG#__19-353__

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