District Name:	Hopkins C	ounty PS		Facility Name:	James Madison Middle Sch.	School Code:				
Project	Project Name: James Madison Middle School Cooling Tower Replacement									
PROJECT	TYPE:	Yes	No	Gross Bu	uilding Area (sf.)					
New Buildi										
Addition	Ü		$\overline{\mathcal{Q}}$							
Renovation	n			Cooling T	ower Upgrade					
		Expansion:	N/A							
Proposed A	Alternates:	(1)								
		(2) (3)								
Describe s	special cond	• ,			supplemental sheet, if needed.					
BUILDING CONSTRUCTION CHARACTERISTICS:										
			RRACTERISTICS.							
•		g Structure:	h on Grade							
F	·oundation:	Existing Slal	o on Grade							
Exte	erior Walls:	Block / Brick	veneer							
Roof	f Structure:	Steel / Meta	l roof							
ENERGY I	EFFICIENT	DESIGN (KI	RS 157.450 and KRS 15	<u>7.455)</u> :						
3	32	Energy Con	sumption "Existing" (kBtu	/sf/yr)						
3	32 Energy Consumption Target (kBtu/sf/yr)									
YES	NO									
	V	LEED Certifi	ied Other:							
V	Designed to meet Energy Star									
	V	Exceeds AS	HRAE 90.1(2007) by 10%	6 (Minimum	1)					
	V	Whole Build	ing Life Cycle Cost Analy	sis Demon	strating Cost Effective Design					
	Life Cycle Cost Analysis Software Used:									
If not yes t	to one or n	nore of the a	bove, explain why.							
		Designed to	be Net-Zero							
	✓		be Net-Zero Ready							
		Ü	•		Name 1 (a4)					
		-	s: (See List Page 4, or l	Jse Drop L	Jown List)					
	t Building (L YES □ NO		Aug Estados Mall B Value					
Gross Exte		• •			Avg. Exterior Wall R-Value: Avg. Window/Door R-Value:					
	dow / Door f Area (sf):	• •			Avg. vvindow/Door R-value: Avg. Roof R-Value:					
Gross Roof Area (sf): Avg. Roof R-value: Exterior Wall Type: Other:										
Roofing Ty	• •	Other:								
HVAC Syst		Other:								
Classroom		Other:								
Active Daylighting:						Other:				
Passive Daylighting:						Other:				
On Site Energy Generation:						Other:				
On one Energy Serioration.										

OUTLINE SPECIFICATIONS ENERGY DESIGN CRITERIA

Air Purification Systems	: YES 🗌 NO 💆								
Gray Water System :	YES 🗌 NO 🔽	. -							
Low Water Use Fixtures Other:	YES NO								
PLUMBING:									
Type of Sewage Disposal: Municipal Utilities									
HEATING, VENTILATION AND AIR CONDITIONING:									
Heating Only:	_ Heating & Mechanical: _ Ventilation Only	HVAC:X	A/C Only:						
Fuel Source/Backup (if	applicable): <u>Electrical</u>								
ELECTRICAL:									
Source of Electric Powe	r: TVA	Lighting Intensity (fc.): Std. Classrooms							
Voltage Serving Facility	480-277 V / 3 Phase	Library/Media Ctr Science Lab							
Number of Convenience Classrooms Library/Media Center Business Ed Family & Consumer Scie Camera System:	e Outlets:	Science Clrm Band/Music Business Ed Shops Corridors Stairways							
SPECIAL EQUIPMENT	;								
System Bell Clock Fire Alarm Intercom Telephone Television Computer Wireless Network Interactive White bd Voice Amplification	Conduit Only	Conduit & Wiring	Complete with Equipment						
FIXED EQUIPMENT:									
Teacher Cabinet Student Lockers Folding Bleachers Library Furnishings Dry Food Shelves		Custodial Room Shelves Science Laboratories Family & Consumer Sci Other Other							

INTERIOR FINISH SCHEDULE:									
AREA	FLOOR	WAINSCOT	WALLS	CEILING					
General Office Corridors									
Custodial Kitchen									
Cafeteria									
Gym Showers/Locker									
Toilets									
Library/Media Cnti	Γ								
Classrooms									
Music Art									
Science									
FMD									
OTHER AREAS									
Miscellaneous Project Specific Features:									
	· · · · · · · · · · · · · · · · · · ·								
Kentucky Register	ed Architect:	Signature		Date:					
Kentucky Registered Engineer:		Nami Nahid, PE		12/1/2020					
		Signature							
Board Designee o	r 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