District Name:		Independent	District	Facility 176 Name:	Board of Education	School Code:	NA
		пасрепаст		170 Name.	Doard of Education	_0000.	IVA
Pro	ject Name:						
PROJE	CT TYPE:	Yes	No	Gross Build	ling Area (sf.)		
New B	uilding						
Additio	n						
Renova	ation	V		6,7	700		
Provisi	ons for Future	Expansion:					
Propos	ed Alternates:	(1)					
•		(2)					
		(3)					
Describ	e special cond	litions, phasin	g of project and a	lternates, attach a su	upplemental sheet, if needed.		
BUILD	ING CONSTRI	UCTION CHA	RACTERISTICS:				
Descrip	otion of Building	g Structure:					
·	7	-					
	Exterior walls:						
ı	Roof Structure:						
ENER	Y EFFICIENT	DESIGN (KF	RS 157.450 and K	.RS 157.455):			
	47.8	Energy Cons	sumption "Existing	" (kBtu/sf/yr)			
	44.2	_		, , ,			
	41.3	_Energy Cons	sumption Target ((Btu/st/yr)			
YES	NO						
	✓	LEED Certifi					
	✓	_	meet Energy Star				
	 ✓			by 10% (Minimum)			
✓				-	ating Cost Effective Design		
If not y	es to one or r	nore of the a	bove, explain wh	y			_
		Designed to	be Net-Zero				
	<u> </u>	·	be Net-Zero Read	iy			
					12-0		
		_	-	e 4, or Use Drop Do	wn List)		
	Vest Building(☐ YES [NO	Ave Exterior Well D Velver		
	Exterior Wall A Window / Door	` '			Avg. Window/Door R Value:		
	Roof Area (sf):				Avg. Window/Door R-Value: Avg. Roof R-Value:	-	
	, ,				Avg. Nooi N-value.		
	r Wall Type:					Other:	
Roofing Type:				Other:			
HVAC System Type:				Other:	LED		
		E - other				Other:	LED
	Daylighting:					Other:	
	e Daylighting:	ration:				Other:	
On Site	Energy Gene	radon.				Other:	

Air Purification Systen	ns: YES 🗆 NO 🖸		
Gray Water System :	YES □ NO □		
		_	
Low Water Use Fixtur Other: Thermosta	es : YES □ NO 및 t Replacements	<u></u>	
PLUMBING:			
Type of Sewage Dispo	osal:		
HEATING, VENTILAT	TION AND AIR CONDITIONING:		
Heating Only:	Heating & Mechanical: Ventilation Only	HVAC:x	A/C Only:
Fuel Source/Backup (if applicable):		
ELECTRICAL:			
Source of Electric Pov	ver: Duke Energy		
Voltage Serving Facili	ty: 480/277V	Std. Classrooms Library/Media Ctr	50 75
voltage oct vilig i dolli	ty. 400/211 V	Science Lab	75
Number of Convenien	ce Outlets:	Science Clrm	50
Classrooms	NA	Band/Music	50
Library/Media Center	NA	Business Ed	50
Business Ed	NA	Shops	50
Family & Consumer S	cience <u>NA</u>		20
		Stairways	20
Camera System:	NA		50
		Pre-School Clrm	50
		Art Classroom	100
		Gymnasium	50
SPECIAL EQUIPMEN	<u>IT</u> :		
System	Conduit Only	Conduit & Wiring	Complete with Equipment
Bell			NA
Clock			NA
Fire Alarm Intercom		-	NA NA
Telephone			NA NA
Television			NA
Computer			NA
Wireless Network			NA
Interactive White bd			NA
Voice Amplification			NA
FIXED EQUIPMENT:			
Toocher Cabinat		Custodial Boom Chaling	
Teacher Cabinet Student Lockers		Custodial Room Shelves Science Laboratories	-
Folding Bleachers		Family & Consumer Sci	·
Library Furnishings		Other	
Dry Food Shelves		Other	
•		-	

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INTERIOR FINISH	SCHEDULE:			
AREA	FLOOR	WAINSCOT	WALLS	CEILING
General Office				
Corridors				
Custodial Kitchen				
Cafeteria			-	
Gym		<u> </u>		
Showers/Locker				
Toilets				
Library/Media Cntr Classrooms		<u> </u>		
Music		· ——	<u> </u>	
Art		· ·		
Science				
FMD				
OTHER AREAS				
OTTLICTALLO				
,				
Miscellaneous Proj	ect Specific Feature	s:		
Kentucky Registere	ed Architect:			Date:
		Signature		
Kentucky Registere	ed Engineer:	Gamela Serva	en	Date: 2.6.23
, ,	<u> </u>	Signature		
Board Designee or	Superintendent:			Date:
-		Signature		

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

District		strict Faci		School
-	s Independent Co	ode: <u>176</u> Nam	ne: 2504 Memorial Pkwy	Code: NA
Project Name:				
PROJECT TYPE:	Yes No	Gr	ross Building Area (sf.)	
New Building		<u>—</u>		
Addition		<u> </u>		
Renovation	∀ □	<u> </u>	2,300	
Provisions for Future	Expansion:			
Proposed Alternates				
	(2)			
	(3)			
Describe special con	ditions, phasing o	f project and alternates, at	ttach a supplemental sheet, if needed	
BUILDING CONSTR	RUCTION CHARA	CTERISTICS:		
Description of Buildir	•			
Foundation	n:			
Roof Structure	e:			
ENERGY EFFICIEN	T DESIGN (KRS 1	157.450 and KRS 157.455	<u>n</u> :	
12.0	_Energy Consum	nption "Existing" (kBtu/sf/yr)	
10.2	Energy Consum	nption Target (kBtu/sf/yr)		
YES NO				
	LEED Certified	Other:		
	Designed to me			
	Exceeds ASHRA	AE 90.1(2007) by 10% (Mi	nimum)	
✓	Whole Building I	Life Cycle Cost Analysis D	emonstrating Cost Effective Design	
	Life Cy	ycle Cost Analysis Softwar	e Used:	
If not yes to one or	more of the abov	ve, explain why.		
	Designed to be	N-4 7		
	Designed to be			
	Designed to be	Net-Zero Ready		
Energy Efficient De	sign Features:(See List Page 4, or Use I	Drop Down List)	
East / West Building	Orientation	☐ YES ☐ NO		
Gross Exterior Wall	Area (sf):		Avg. Exterior Wall R-Val	lue:
Gross Window / Doo	r Area (sf):		Avg. Window/Door R-Val	lue:
Gross Roof Area (sf)	:		Avg. Roof R-Val	lue:
Exterior Wall Type:				Other:
Roofing Type:				Other:
HVAC System Type:				Other:
Classroom Lighting:	E - other			Other: LED
Active Daylighting:				Other:
D. C. D. C. LC.				
Passive Daylighting:				Other:

Air Purification System	ns: YES 🗆 NO 🗹		
Gray Water System :	YES □ NO ☑	7	
Low Water Use Fixtur		_	
Otto	es. TES NO	_	
PLUMBING:			
Type of Sewage Dispo	osal:		
HEATING, VENTILAT	TION AND AIR CONDITIONING:		
Heating Only:	Heating & Mechanical: Ventilation Only	HVAC:x	A/C Only:
Fuel Source/Backup (if applicable):		
ELECTRICAL:			_
Source of Electric Pov	ver: Duke Energy	Lighting Intensity (fc.):	
		Std. Classrooms	50
Voltage Serving Facili	ty: 120/208V	Library/Media Ctr Science Lab	75 75
Number of Convenien	ice Outlets:	Science Clrm	50
Classrooms	NA	Rand/Music	50
Library/Media Center	NA	Rusiness Ed	50
Business Ed	NA	Shone	50
Family & Consumer S	cience NA	Corridore	20
	_	Stairways	20
Camera System:	NA		50
		Pre-School Clrm	50
		Art Classroom	100
		Gymnasium	50
SPECIAL EQUIPMEN	<u>IT</u> :		
System	Conduit Only	Conduit & Wiring	Complete with Equipment
Bell			NA
Clock			NA
Fire Alarm		<u> </u>	NA
Intercom			NA NA
Telephone Television		 -	NA NA
Computer			NA
Wireless Network		 -	NA
Interactive White bd			NA
Voice Amplification			NA
FIXED EQUIPMENT:			_
!		Custodial Danier Challer	
Teacher Cabinet Student Lockers		Custodial Room Shelves Science Laboratories	
Folding Bleachers		Family & Consumer Sci	
Library Furnishings		Other	
Dry Food Shelves		Other	
,		•	-

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INTERIOR FINISH SCHEDULE:								
AREA	FLOOR	WAINSCOT	WALLS	CEILING				
General Office								
Corridors								
Custodial Kitchen		<u> </u>						
Cafeteria								
Gym								
Showers/Locker								
Toilets								
Library/Media Cntr Classrooms								
Music		<u> </u>	 -					
Art		- <u></u> -						
Science								
FMD								
OTHER AREAS								
OTTIEN ANEAS								
•								
•								
Miscellaneous Proj	ect Specific Feature	s:						
Kentucky Registere	ed Architect:			Date:				
		Signature						
Kentucky Registere	ed Engineer:	Gamela Strike	m	Date: 2.6.23				
		Signature						
Board Designee or	Superintendent:			Date:				
		Signature						

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
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Roofing Type List

- A modified bitumen over rigid insulation
- B EPDM over rigid insulation
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- E asphalt shingle roofing over nailable deck with insulation
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HVAC System Type List

- A two pipe unit ventilator system
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- 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

District Name:	Et Thomas	Independent	District	Facility 176 Name:	Highlands High School	School Code:	010
	-	independent		170 Name.	Tilgilianus Filgii School	_Code.	010
Pro	ject Name:						
PROJE	CT TYPE:	Yes	No	Gross Build	ding Area (sf.)		
New Bu	uilding				. ,		
Additio	-						
Renova	ation	<u> </u>		183			
Provision	ons for Future		_		,		
	ed Alternates:	•					
FTOPOS	eu Ailemales.	(2)	\ <u></u>				
		(3)					
Describ	e special cond	ditions, phasir	ng of project and	alternates, attach a si	upplemental sheet, if needed.		
	•			,	,		
BUILD	ING CONSTRI	UCTION CHA	ARACTERISTICS	S:			
				-			
Descrip	tion of Building	-					
	roundation.	·					
	Exterior Walls:						
F	Roof Structure:						
ENERC	SY EFFICIENT	DESIGN (KI	RS 157.450 and	KRS 157.455):			
	55.5	_Energy Cons	sumption "Existir	ng" (kBtu/sf/yr)			
	44.2	Energy Cons	sumption Target	(kBtu/sf/yr)			
YES	NO	_					
П	 ✓	LEED Certifi	ied	Other:			
П	Z		meet Energy Sta				_
	□□	-	•	7) by 10% (Minimum)			
<u> </u>					ating Cost Effective Design		
_	_			•	3 - 3		
If not y	es to one or r		ıbove, explain v				
				-			
	V	Designed to	be Net-Zero				
	V	Designed to	be Net-Zero Rea	ady			
Energy	Efficient Des	ign Features	s: (See List Pag	ge 4, or Use Drop Do	wn List)		
	Vest Building (_	∵ YES	□ NO	•		
	Exterior Wall A				Avg. Exterior Wall R-Value:		
Gross \	Nindow / Door	Area (sf):			Avg. Window/Door R-Value:		
Gross I	Roof Area (sf):				Avg. Roof R-Value:		
Exterio	r Wall Type:					Other:	
Roofing						Other:	
	System Type:					Other:	
	om Lighting:	E - other				Other:	LED
	Daylighting:					Other:	
	Daylighting:					Other:	
	Energy Gene	ration:				Other:	
			·	·			

Air Purification Systems :	YES □ NO ☑		
Gray Water System :	YES □ NO ☑		
Low Water Use Fixtures :			
		Controls Upgrades and Retrocomm	issioning
PLUMBING:			
Type of Sewage Disposa	l:		
HEATING, VENTILATION	N AND AIR CONDITIONING:		
Heating Only:	Heating & Mechanical:	HVAC: x	A/C Only:
Fuel Source/Backup (if a	oplicable):		
ELECTRICAL:			
Source of Electric Power:	Duke Energy	Lighting Intensity (fc.)	:
Voltage Coming Facility	400/0771/	Std. Classrooms	<u>50</u> 75
Voltage Serving Facility:	480/277V	Library/Media Ctr Science Lab	75
Number of Convenience	Outlets:	Science Clrm	50
Classrooms	NA	Band/Music	50
Library/Media Center	NA	Business Ed	50
Business Ed	NA	Shops	50
Family & Consumer Scien	nce NA		20
		Stairways	20
Camera System:	NA	Cafeteria	50
		Pre-School Clrm Art Classroom	NA 100
		_	50
		Gymnasium	
SPECIAL EQUIPMENT:			
System	Conduit Only	Conduit & Wiring	Complete with Equipment
Bell			NA
Clock			NA
Fire Alarm			NA
Intercom			NA
Telephone			NA
Television			NA
Computer			NA
Wireless Network			NA
Interactive White bd			NA
Voice Amplification	<u> </u>		NA
FIXED EQUIPMENT:			
Teacher Cabinet		Custodial Room Shelves	
Student Lockers		Science Laboratories	
Folding Bleachers		Family & Consumer Sci	
Library Furnishings		Other	
Dry Food Shelves		Other	

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INTERIOR FINISH	SCHEDULE:				
AREA	FLOOR	WAINSCOT	WALLS	CEILING	
General Office				<u> </u>	
Corridors					
Custodial Kitchen		_			
Cafeteria		_	_	_	
Gym					
Showers/Locker			_	_	
Toilets			_	_	
Library/Media Cntr Classrooms		_	_		
Music					
Art					
Science					
FMD			_	_	
OTHER AREAS					
Miscellaneous Proj	ect Specific Featur	es:			
	•				
Kentucky Registere	ed Architect:			Date:	
		Signatu			
Kentucky Registere	ed Engineer:	Gamela Der		Date:2	.6.23
	-	Signatu	re		
Board Designee or	Superintendent:			Date:	
•	•	Signatu	re		

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

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- 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

District Name:	Et Thomas	Independent	District	Facility 176 Name:	Field House	School Code:	NA
		macpenaem		170 Name.	i leiu i louse	_Code.	IVA
Projec	ct Name:						
PROJEC	T TYPE:	Yes	No	Gross Build	ling Area (sf.)		
New Build	ding				• , ,		
Addition	· ·						
Renovation	on	<u> </u>		16,	038		
Provisions	s for Future I		_				
Proposed	Alternates:	(1)					
Порозоц	/ itemates.	(2)					
		(3)					
Describe	special cond	litions, phasir	ng of project and	alternates, attach a su	upplemental sheet, if needed.		
BUILDING	G CONSTRI	JCTION CHA	ARACTERISTICS	<u>s</u> :			
Description	on of Building	s Structure:					
-	-						
Ex	terior Walls:						
Ro	of Structure:						
110	or otractare.						
ENERCY	EEEICIENT	DESIGN /KI	DC 157 150 and	VDC 157 455\.			
·		-	RS 157.450 and				
5	54.9	Energy Cons	sumption "Existir	ng" (kBtu/sf/yr)			
4	18.0	Energy Cons	sumption Target	(kBtu/sf/yr)			
YES	NO						
		LEED Certifi	ied	Other:			
	V	Designed to	meet Energy St				
	✓	Exceeds AS	HRAE 90.1(200	7) by 10% (Minimum)			
✓		Whole Build	ing Life Cycle Co	ost Analysis Demonstra	ating Cost Effective Design		
		Life	e Cycle Cost An	alysis Software Used:			
If not yes	to one or n	nore of the a	ibove, explain v	vhy.			
		Di	h - N - 4 7				
	2	Ü	be Net-Zero	adv			
	V	Designed to	be Net-Zero Re	auy			
Energy E	fficient Des	ign Features	s: (See List Pa	ge 4, or Use Drop Do	wn List)		
East / We	st Building C	Orientation	☐ YES	□ NO			
Gross Ext	terior Wall A	rea (sf):			Avg. Exterior Wall R-Value:		
	ndow / Door	` '			Avg. Window/Door R-Value:		
Gross Ro	of Area (sf):				Avg. Roof R-Value:		
Exterior V	Vall Type:					Other:	
Roofing T	уре:					Other:	
HVAC Sy	stem Type:					Other:	
Classroor	m Lighting:	E - other				Other:	LED
Active Da	ylighting:					Other:	
Passive D	aylighting:					Other:	
	nergy Gener					Other:	

Air Purification Systems	s: YES □ NO ☑		
Gray Water System :	YES □ NO 🗆		
Low Water Use Fixture			
	tro-Commissioning	ı	
Other: Others ite	aro Commissioning		
PLUMBING:			
Type of Sewage Dispos	sal:		
HEATING, VENTILATION	ON AND AIR CONDITIONING:		
Heating Only:	Heating & Mechanical: Ventilation Only	HVAC: x	A/C Only:
Fuel Source/Backup (if	applicable):		
ELECTRICAL:			_
Source of Electric Power	er: Duke Energy	Lighting Intensity (fc.) Std. Classrooms	: NA
Voltage Serving Facility	r: 208/120V	Library/Media Ctr	NA NA
		Science Lab	NA
Number of Convenience		Science Clrm	NA NA
Classrooms	NA	Band/Music	NA NA
Library/Media Center	NA	Business Ed	NA NA
Business Ed	NA	Shops	NA 20
ramily & Consumer Sci	ience NA		20
Camera System:	NA	Stairways Cafeteria	NA
Camera System.	IVA	Pre-School Clrm	NA NA
		Art Classroom	NA NA
		Gymnasium	50
SPECIAL EQUIPMENT	<u>:</u>	,	
System	Conduit Only	Conduit & Wiring	Complete with Equipment
Bell			NA
Clock			NA
Fire Alarm			NA
Intercom			NA
Telephone			NA
Television	 -		NA NA
Computer Wireless Network			NA NA
Interactive White bd	 -		NA NA
Voice Amplification			NA
FIXED EQUIPMENT:			
Teacher Cabinet		Custodial Room Shelves	
Student Lockers		Science Laboratories	-
Folding Bleachers	_	Family & Consumer Sci	
Library Furnishings		Other	
Dry Food Shelves		Other	

BG-2
OUTLINE SPECIFICATIONS ENERGY DESIGN CRITERIA

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INTERIOR FINISH	INTERIOR FINISH SCHEDULE:								
AREA	FLOOR	WAINSCOT	WALLS	CEILING					
General Office Corridors Custodial Kitchen Cafeteria Gym Showers/Locker Toilets Library/Media Cntr Classrooms Music Art Science FMD OTHER AREAS									
Miscellaneous Project Specific Features:									
Kentucky Register	ed Architect:	Signature	_	Date:					
Kentucky Register	ed Engineer:	Signature	en	Date: 2.6.	23				
Board Designee o	r Superintendent:	Signature		Date:					

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
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- A two pipe unit ventilator system
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- C ground source heat pump system with air make up
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- F hybrid geothermal/variable refrigerant flow (VRF) with air make up
- G variable refrigerant volume (VRV) with air make up
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- J hybrid chilled beam/geothermal system
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- A T8 fluorescent fixtures
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- A classroom fluorescent dimming including dimming switches, ballasts and sensors
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- D manual bi-level lighting with no fixture dimming
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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

District Name: Ft Thoma	District s Independent Code:	Facility 176 Name:	Highlands Middle School	School Code:	011
Project Name:				_	
PROJECT TYPE:	Yes No	Gross Build	ding Area (sf.)		
New Building			9 ()		
Addition					
Renovation		98	,088		
Provisions for Future					
Proposed Alternates	: (1)				
	(2)				
Describe special con	oditions, phasing of project and a	alternates, attach a s	upplemental sheet, if needed.		
BUILDING CONSTR	RUCTION CHARACTERISTICS	:			
Description of Buildir	ng Structure:				
Foundation	n:				
Exterior Walls	D:				
Roof Structure					
Roof Structure	e:				
ENERGY EFFICIEN	T DESIGN (KRS 157.450 and I	(RS 157.455):			
65.5	Energy Consumption "Existing				
-	_				
43.0	Energy Consumption Target (kBtu/st/yr)			
YES NO	.=== 0				
	LEED Certified				
	Designed to meet Energy Sta				
	Exceeds ASHRAE 90.1(2007				
	Whole Building Life Cycle Co	•	•		
If not yes to one or	more of the above, explain w	hy			
	Designed to be Net-Zero				
	Designed to be Net-Zero Rea	dy			
Energy Efficient De	sign Features: (See List Pag	e 4. or Use Drop Do	wn List)		
East / West Building		□ NO	,		
Gross Exterior Wall			Avg. Exterior Wall R-Value:		
Gross Window / Doo	. ,		Avg. Window/Door R-Value:	-	
	:		Avg. Roof R-Value:		
Exterior Wall Type:				Other:	
Roofing Type:				Other:	
HVAC System Type:	L - other			_	4-Pipe VAV
Classroom Lighting:	E - other			Other:	
Active Daylighting:	_ 20101			Other:	
Passive Daylighting:				Other:	-
On Site Energy Gene	eration:			Other:	
JII JIIJ LIIJIY OCIIC					-

Air Purification Systems	s: YES \(\simega \text{ NO }		
Gray Water System :	YES □ NO ☑		
Low Water Use Fixtures	s: YES □ NO ☑		
_	ment Replacements, DHW Rep		
	,	, 10	
PLUMBING:			
Type of Sewage Dispos	sal:		
HEATING, VENTILATION	ON AND AIR CONDITIONING:		
Heating Only:	Heating & Mechanical: Ventilation Only	HVAC: x	A/C Only:
Fuel Source/Backup (if	applicable):		
ELECTRICAL:			_
Source of Electric Power	er: Duke Energy		
Voltage Serving Facility	r: 480/277V	Std. Classrooms Library/Media Ctr	50 75
Voltage Serving Facility	400/2/17	Science Lab	75
Number of Convenience	e Outlets:	Science Clrm	50
Classrooms	NA	Band/Music	50
Library/Media Center	NA	Business Ed	50
Business Ed	NA	Shops	50
Family & Consumer Sci	ence NA		20
		Stairways	20
Camera System:	NA	Cafeteria	50
		Pre-School Clrm	50
		Art Classroom	100
		Gymnasium	50
SPECIAL EQUIPMENT	3		
System	Conduit Only	Conduit & Wiring	Complete with Equipment
Bell			NA
Clock			NA
Fire Alarm			NA
Intercom			NA
Telephone			NA
Television			NA
Computer			NA
Wireless Network			NA
Interactive White bd			NA
Voice Amplification			NA
FIXED EQUIPMENT:			
Teacher Cabinet		Custodial Room Shelves	<u></u>
Student Lockers		Science Laboratories	
Folding Bleachers		Family & Consumer Sci	
Library Furnishings		Other	
Dry Food Shelves		Other	

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INTERIOR FINISH	SCHEDULE:				
AREA	FLOOR	WAINSCOT	WALLS	CEILING	
General Office				_	
Corridors					
Custodial Kitchen			_	_	
Cafeteria		_		_	
Gym					
Showers/Locker				_	
Toilets Library/Media Cntr		_	_	_	
Classrooms		_	_	_	
Music					
Art					
Science FMD		_	_	_	
				<u> </u>	
OTHER AREAS					
		_		_	
Missellanesus Drei	act Chapitia Factu		-	_	
wiscellaneous Proj	eci Specilic Featu	res:			
Kentucky Registere	ed Architect:			_ Date:	
		Signature			
Kentucky Registere	ed Engineer:	Gamela Sou	pen	Date: 2.6.23	
, ,	Ü	Signature)		_
Board Designee or	Superintendent:			Date:	
3	•	Signature)		_

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

District Name: Ft Thoma	District as Independent Code:	Facility 176 Name:	Johnson Elementary School	School Code: 020
Project Name:		<u> </u>		
PROJECT TYPE:	Yes No	Gross Buil	ding Area (sf.)	
New Building			0 ()	
Addition				
Renovation		64	4,080	
Provisions for Futur	e Expansion:			
Proposed Alternates	s: (1)			
	(2) (3)			
Describe special co	nditions, phasing of project and	alternates, attach a s	supplemental sheet, if needed.	
BUILDING CONST	RUCTION CHARACTERISTIC	<u>S</u> :		
Description of Build	~			
Foundation	n:			
Exterior Wal	ls:			
Roof Structur	·e:			
=11=201	IT DEGICAL (1/DQ 4-1-4-1)	1600 455 455)		
ENERGY EFFICIEN	NT DESIGN (KRS 157.450 and	KRS 157.455):		
40.6	Energy Consumption "Existi	ng" (kBtu/sf/yr)		
40.1	Energy Consumption Target	(kBtu/sf/yr)		
YES NO				
	LEED Certified	Other:		
	Designed to meet Energy St	ar		
	Exceeds ASHRAE 90.1(200	,		
✓ □	Whole Building Life Cycle C	-		
	·	alysis Software Used:		
If not yes to one o	r more of the above, explain v	why		
	Designed to be Net-Zero			
	Designed to be Net-Zero Re	ady		
Energy Efficient D	esign Features: (See List Pa	go 4 or Hoo Drop Do	own Liot\	
East / West Building			JWII LISt)	
Gross Exterior Wall			Avg. Exterior Wall R-Value:	
Gross Window / Do			Avg. Window/Door R-Value:	
Gross Roof Area (s	f\.		Avg. willdow/bool R-value: Avg. Roof R-Value:	_
Exterior Wall Type:	ı). <u> </u>			Other:
Roofing Type:	-			Other:
HVAC System Type	· · · · · · · · · · · · · · · · · · ·			Other:
Classroom Lighting				Other:
Active Daylighting:	•			Other:
Passive Daylighting	:			Other:
On Site Energy Ger				Other:
. ,	·			_

Air Purification System	ns: YES 🗆 NO 🗵]	
Gray Water System :	YES 🔲 NO 🖸	<u> </u>	
Low Water Use Fixtur Other: Controls R	es: YES NO etro-Commissioning	2	
PLUMBING:			
Type of Sewage Dispo	osal:		
HEATING, VENTILAT	TION AND AIR CONDITIONING:		
Heating Only:	Heating & Mechanical: Ventilation Only	HVAC: x	A/C Only:
Fuel Source/Backup (if applicable):		
ELECTRICAL:			_
Source of Electric Pov	wer: Duke Energy	Lighting Intensity (fc.): Std. Classrooms	
Voltage Serving Facili	ty: 480/277V	Library/Media Ctr Science Lab	
Number of Convenien	ce Outlets:	Science Clrm	
Classrooms	NA	Band/Music	
Library/Media Center	NA	Business Ed	
Business Ed	NA NA	Shops	
Family & Consumer S	cience NA	Corridors	
Camera System:	NA	Stairways Cafeteria	
Camera System.	INA	Pre-School Clrm	
		Art Classroom	
		Gymnasium	
SPECIAL EQUIPMEN	<u>{T</u> :	- Cynmadain	
System	Conduit Only	Conduit & Wiring	Complete with Equipment
-	Conduct Crity	Conduct & Trining	
Bell Clock			NA NA
Fire Alarm	 -	<u> </u>	NA NA
Intercom			NA
Telephone			NA
Television			NA
Computer			NA
Wireless Network			NA
Interactive White bd			NA
Voice Amplification			NA
FIXED EQUIPMENT:			
Teacher Cabinet		Custodial Room Shelves	
Student Lockers		Science Laboratories	
Folding Bleachers		Family & Consumer Sci	
Library Furnishings		Other	
Dry Food Shelves		. Other	

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OUTLINE SPECIFICATIONS ENERGY DESIGN CRITERIA

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INTERIOR FINISH	I SCHEDULE:						
AREA	FLOOR	WAINSCOT	WALLS	CEILING			
General Office Corridors Custodial Kitchen							
Cafeteria Gym Showers/Locker							
Toilets Library/Media Cntr Classrooms	-						
Music Art Science							
FMD							
OTHER AREAS							
Miscellaneous Project Specific Features:							
Kentucky Register	ed Architect:	Signature		Date:			
Kentucky Register	ed Engineer:	Samela AUX	Len	Date: 2.6.23			
Board Designee o	r Superintendent:	Signature		Date:			

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
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- 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

District Name:	Et Thomas	Independent	District	Facility 176 Name:	Moyer Elementary School	School Code: 030
		muepenuem		170 Name.	Woyer Elementary School	
Projec	t Name:					
PROJECT	TYPE:	Yes	No	Gross Buil	ding Area (sf.)	
New Build	ing				• , ,	
Addition	Ū					
Renovatio	n	<u> </u>		86	 5,221	
	for Future I		_	-	,	
Proposed	Alternates:	(1)				
		(3)				
Describe s	special cond	litions phasir	ng of project and a	Iternates attach a s	upplemental sheet, if needed.	
	, pos.a.	orro, pridon	.g o. p. o,oot a a		appromental energy in medical	
BUILDING	CONSTRI	ICTION CHA	RACTERISTICS:			
			arao i Errio i ioo.			
•	n of Building					
ı	roundation:					
Ext	terior Walls:					
Roc	of Structure:					
ENERGY	EFFICIENT	DESIGN (KI	RS 157.450 and K	(RS 157.455):		
4	0.1	Energy Cons	sumption "Existing	" (kBtu/sf/yr)		
3:	9.6	Energy Cons	sumption Target (I	(Btu/sf/vr)		
		_Lilorgy Cond	odinipuon raigot (i	(Dta/ol/yl)		
YES	NO	. ==== 0 .::		0.11		
	☑	LEED Certifi				
		_	meet Energy Star			
				by 10% (Minimum)	rating Cost Effective Design	
✓			-	-		
If not yes	to one or n		bove, explain wh			
II Hot yes	to one or n	note of the a	bove, explain wi			
	7	Designed to	be Net-Zero			
	<u></u> ✓	Designed to	be Net-Zero Read	dy		
F					12-0	
		_	_	e 4, or Use Drop Do	own List)	
	st Building C		☐ YES [NO	A F	
	erior Wall A	` '			Avg. Exterior Wall R-Value:	
	ndow / Door	. ,			Avg. Window/Door R-Value: Avg. Roof R-Value:	
	of Area (sf):				_ Avg. Rooi R-value.	
Exterior W	,,					Other:
Roofing Ty						Other:
-	stem Type:					Other:
Classroom						Other:
Active Day						Other:
Passive D						Other:
On Site Er	nergy Gener	auon.				Other:

Air Purification Systems	: YES \(\subseteq \text{ NO } \(\subseteq \)		
Gray Water System :	YES □ NO ☑		
Low Water Use Fixtures			
_	ro-Commissioning		
Other. Controls Net	io-commissioning		
PLUMBING:			
Type of Sewage Dispos	al:		
HEATING, VENTILATION	ON AND AIR CONDITIONING:		
Heating Only:	Heating & Mechanical: Ventilation Only	HVAC: x A	VC Only:
Fuel Source/Backup (if a	applicable):		
ELECTRICAL:			
Source of Electric Powe	r: Duke Energy	Lighting Intensity (fc.): Std. Classrooms	
Voltage Serving Facility:	480/277V	Library/Media Ctr Science Lab	
Number of Convenience	e Outlets:	Science Clrm	
Classrooms	NA		
Library/Media Center	NA	Business Ed	
Business Ed Family & Consumer Science	NA ence NA	Corridore	
r arrilly & Corisumer Scie	elice NA	Stairways	
Camera System:	NA	Cofotorio	
·		Pre-School Clrm	
		Art Classroom	
		Gymnasium	 -
SPECIAL EQUIPMENT	:		
System	Conduit Only	Conduit & Wiring C	omplete with Equipment
Bell _			NA NA
Clock Fire Alarm			NA NA
Intercom			NA NA
Telephone			NA
Television			NA
Computer			NA
Wireless Network Interactive White bd			NA NA
Voice Amplification			NA NA
FIXED EQUIPMENT:			
		0	
Teacher Cabinet Student Lockers		Custodial Room Shelves Science Laboratories	
Folding Bleachers		Family & Consumer Sci	
Library Furnishings		Other	
Dry Food Shelves		Other	

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OUTLINE SPECIFICATIONS ENERGY DESIGN CRITERIA

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INTERIOR FINISH	INTERIOR FINISH SCHEDULE:							
AREA	FLOOR	WAINSCOT	WALLS	CEILING				
General Office								
Corridors								
Custodial								
Kitchen		<u> </u>						
Cafeteria Gym		<u> </u>						
Showers/Locker		<u> </u>	 -					
Toilets								
Library/Media Cntr								
Classrooms								
Music								
Art Science								
FMD		<u> </u>						
OTHER AREAS								
,								
		<u> </u>						
Miscellaneous Proj	ect Specific Feature	s:						
Kentucky Registere	ed Architect:			Date:				
		Signature						
Kentucky Registere	ed Engineer:	Gamela Strib	en	Date: 2.6.23				
		Signature						
Board Designee or	Superintendent:			Date:				
•	•	Signature						

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

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- G variable refrigerant volume (VRV) with air make up
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- I chilled beam system
- J hybrid chilled beam/geothermal system
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Classroom Lighting List

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- E other

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- A classroom fluorescent dimming including dimming switches, ballasts and sensors
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- 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

District Name:		Independent	District	Facility 176 Name:	Woodfill Elementary School	School Code:	040
		пасрепаст		170 Name.	Woodiii Elementary Concor	_0000.	040
Pro	ject Name:						
PROJE	CT TYPE:	Yes	No	Gross Build	ling Area (sf.)		
New Bu	uilding						
Additio	n						
Renova	ation	7		59,	885		
Provision	ons for Future	Expansion:		<u>-</u>			
Propos	ed Alternates:	(1)					
·		(2)					
		(3)					
Describ	e special cond	litions, phasin	g of project and alt	ernates, attach a su	upplemental sheet, if needed.		
BUILD	ING CONSTRI	UCTION CHA	RACTERISTICS:				
Descrip	otion of Building	Structure:					
,	7	-					
	Exterior Walls:						
F	Roof Structure:						
ENERG	SY EFFICIENT	DESIGN (KF	RS 157.450 and KF	RS 157.455):			
	39.5	Energy Cons	sumption "Existing"	(kBtu/sf/vr)			
		_					
	32.1	_Energy Cons	sumption Target (kl	3tu/st/yr)			
YES	NO						
	7	LEED Certifi	ed (Other:			
	V	Designed to	meet Energy Star				
	✓		HRAE 90.1(2007) I				
✓					ating Cost Effective Design		
If not y	es to one or r	nore of the a	bove, explain why	/			
	V	Designed to	be Net-Zero				
	<u>□</u>	·	be Net-Zero Ready	/			
		_		4, or Use Drop Do	wn List)		
	Vest Building(☐ YES ☐	NO	A F		
	Exterior Wall A	` '			Avg. Exterior Wall R-Value:	-	
	Window / Door				Avg. Window/Door R-Value: Avg. Roof R-Value:	-	
	Roof Area (sf):				Avg. Rooi R-value:		
	r Wall Type:					Other:	
Roofing						Other:	
	System Type:					Other:	
		E - other				Other:	LED
	Daylighting:					Other:	
	e Daylighting:	ration:				Other:	
On Site	Energy Gene	radon.				_ Other:	

Air Purification System	ns: YES NO	abla	
Gray Water System :	YES □ NO	□	
Low Water Use Fixture	_	_	
_	pgrades and Retro-Commissi	_	
Other: Other	pgrades and reare commission	ioning .	
PLUMBING:			
Type of Sewage Dispo	osal:		
HEATING, VENTILAT	ION AND AIR CONDITIONING		_
Heating Only:			A/C Only:
Fuel Source/Backup (i	f applicable):		
ELECTRICAL:			
Source of Electric Pov	ver: Duke Energy	Lighting Intensity (fc.)	
Cource of Electric 1 ov	ver. Dake Ellergy	Std. Classrooms	50
Voltage Serving Facili	ty: 480/277V	Library/Media Ctr	75
	.	Science Lab	75
Number of Convenien		Science Clrm	50
Classrooms	NA	Band/Music	50
Library/Media Center Business Ed	NA NA	Business Ed Shops	50
	cience NA		20
r anning a consumer o	olefloe 147 t	Stairways	20
Camera System:	NA	Cafeteria	50
Carriora Cyclom.		Pre-School Clrm	50
		Art Classroom	100
		Gymnasium	50
SPECIAL EQUIPMEN	<u>I</u> :		
System	Conduit Only	Conduit & Wiring	Complete with Equipment
Bell			NA
Clock			NA
Fire Alarm			NA
Intercom			NA
Telephone			NA
Television			NA
Computer			NA NA
Wireless Network			NA NA
Interactive White bd Voice Amplification			NA NA
FIXED EQUIPMENT:			
Teacher Cabinet		Custodial Room Shelves	
Student Lockers		Science Laboratories	-
Folding Bleachers		Family & Consumer Sci	
Library Furnishings		Other	
Dry Food Shelves		Other	
•			

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OUTLINE SPECIFICATIONS ENERGY DESIGN CRITERIA

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INTERIOR FINISH	SCHEDULE:				
AREA	FLOOR	WAINSCOT	WALLS	CEILING	
General Office					
Corridors					
Custodial				_	
Kitchen		_	_	_	
Cafeteria Gym					
Showers/Locker					
Toilets			_	<u> </u>	
Library/Media Cntr					
Classrooms					
Music Art		_		_	
Science			<u> </u>	<u> </u>	
FMD			<u> </u>	<u> </u>	
•					
OTHER AREAS					
		_	_	_	
		_	_	_	
•		_	_	_	
Miscellaneous Proj	ect Specific Featu	res:			
Kentucky Registere	ed Architect:			Date:	
		Signatu	ıre		
Kentucky Registere	ed Engineer:	Gamela Sor		Date: 2.6.2	23
		Signatu	ıre		
Board Designee or	Superintendent:			Date:	
-		Signatu	ıre		

Exterior Wall Type

- A face brick, captured air space, board insulation and waterproof CMU
- B face brick, captured air space, sprayed insulation on CMU
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- C plastic single ply over rigid insulation
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- 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