702 KAR 4:160

OUTLINE SPECIFICATIONS ENERGY DESIGN CRITERIA

Project Name: Newport Primary School - New Fire Alarm System & Renovations to the Kitchen, Cafeteria & Cymnastum	District Name:	Newport In	dependent	District Code:	452	Facility Name:	Newport Primary School	School Code:	20
Now Building	Projec	t Name:	Newport Pri	mary Scho			REH: 149-520 m & Renovations to the Kitcher	n, Cafeterla &	Gymnaslum -
Addition	PROJECT	TYPE:	Yes	No ·		Gross Bu	ıllding Area (sf.)		•
Renovation	New Bulld	lng-		· □				•	
Provisions for Future Expansion: Proposed Alternates:	Addition								
Proposed Alternates: (1) None (2) (3) Describe special conditions, phasing of project and alternates, attach a supplemental sheet, if needed. BUILDING CONSTRUCTION CHARACTERISTICS: Description of Building Structure: Foundation: Cast in place concrete Exterior Walls: Masenry composite / cavity walls Roof Structure: Metal and gypsum deck over steel joists ENERGY EFFICIENT DESIGN (KRS 157.450 and KRS 157.455): 44.5 Energy Consumption "Existing" (kiblu/sf/yr) 45 Energy Consumption Target (kiblu/sf/yr) YES NO Diaginged to meet Energy Star Diaginged to meet Energy Star Diaginged to meet Energy Star Life Cycle Cost Analysis Demonstrating Cost Effective Design Life Cycle Cost Analysis Software Used: Whole Building Life Cycle Cost Analysis Demonstrating Cost Effective Design Life Cycle Cost Analysis Software Used: Whole Building Life Cycle Cost Analysis Demonstrating Cost Effective Design Life Cycle Cost Analysis Software Used: Whole Building Life Cycle Cost Analysis Demonstrating Cost Effective Design Life Cycle Cost Analysis Software Used: Whole Building Life Cycle Cost Analysis Demonstrating Cost Effective Design Life Cycle Cost Analysis Software Used: Whole Building Life Cycle Cost Analysis Demonstrating Cost Effective Design Life Cycle Cost Analysis Software Used: Whole Building LiCCA is not required by Owner for this project. Avg. Designed to be Net-Zero Ready Energy Efficient Design Features: (See List Page 4, or Use Drop Down List) East/ West Building Ordentation Dyes Designed to be Net-Zero Ready Cross Exerior Wall Area (6f): Avg. Window/Door R-Value: Brook Area (sc): 12,288 (Reroof Area) Avg. Roof R-Value: Brook College: Performance Analysis College	Renovation	n:	7	.□		<u>10,625 (i</u>	ncluding Gym)		
Describe special conditions, phasing of project and alternates, attach a supplemental sheet, if needed. BuilDING CONSTRUCTION CHARACTERISTICS:	Provisions	for Future	Expansion:		······································				<u></u>
Describe special conditions, phasing of project and alternates, attach a supplemental sheet, if needed. BuilDing Construction Characteristics:	Proposed	Alternates:	(1)	None .					
Describe special conditions, phasing of project and alternates, attach a supplemental sheet, if needed. BUILDING CONSTRUCTION CHARACTERISTICS:			(2)	/ <u></u>					
BUILDING CONSTRUCTION CHARACTERISTICS: Description of Building Structure: Foundation: Cast in place concrete Exterior Walls: Masonry composite / cevity walls Roof Structure: Metal and gypsum deck over steel joints ENERGY EFFICIENT DESIGN (KRS 157.450 and KRS 157.455): 44.5 Energy Consumption "Existing" (kBtu/sf/yr) 45 Energy Consumption Target (kBtu/sf/yr) YES NO □ Expected ASHRAE 90.1(2007) by 10% (Minimum) □ Ex Whole Building Life Cycle Cost Analysis Demonstrating Cost Effective Design Life Cycle Cost Analysis Software Used: Whole Building Life Cycle Cost Analysis Demonstrating Cost Effective Design Life Cycle Cost Analysis Software Used: Whole Building Life Cycle Cost Analysis Demonstrating Cost Effective Design Life Cycle Cost Analysis Demonstr	11								
Description of Building Structure: Foundation: Cast in place concrete Exterior Walls: Masonry composite / cavity walls Roof Structure: Metal and gypsum deck over steel joists ENERGY EFFICIENT DESIGN (KRS 157.450 and KRS 157.455): 44.5 Energy Consumption "Existing" (kBtw/sf/yr) 45 Energy Consumption Target (kBtw/sf/yr) YES NO 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 Polymonistrating Cost Effective Design Life Cycle Cost Analysis Po	Describe :	special con				•		i.	···
Exterior Walls: Masonry composite / cavity walls Masonry composite / cavity walls / cavity cavity walls / cavity cavity cavity cavity walls / cavity cavity cavity cavity cavity wall / cavity	BUILDING	CONSTR	UCTION CHA	RACTER	STICS:				
Exterior Walls: Metal and gypsum deck over steel joists	Descriptio	n of Bulldin	g Structure:	•			•		
Roof Structures: Metal and gypsum deck over steel joists Metal and gypsum deck over steel joists	1	Foundation	h	Cast in p	lace concrete				7
ENERGY EFFICIENT DESIGN (KRS 157.450 and KRS 157.455): 44.5	Ex	terior Walls	,	Masonry	composite / c	avity walls			
### Energy Consumption "Existing" (kBtu/sf/yr) #### Energy Consumption Target (kBtu/sf/yr) #### YES NO ###################################	Roo	of Structure		Metal an	d gypsum dec	k over steel	joists _		, , , , , , , , , , , , , , , , , , ,
### Energy Consumption "Existing" (kBtu/sf/yr) #### Energy Consumption Target (kBtu/sf/yr) #### YES NO ###################################	ENERGY	EFFICIENT	DESIGN (K	RS 157.45	0 and KRS 1	57.455):			· · · · · · · · · · · · · · · · · · ·
YES NO	•					•			
YES NO	4	4.0				•			
□ □ 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. Designed to be Net-Zero □ Designed to be Net-Zero Posigned to be Net-Zero Posigned to be Net-Zero Posigned to be Net-Zero Ready Part Part Part Part Part		45	_Energy Con	sumption '	Farget (kBtu/s	if/yr)		•	
Designed to meet Energy Star Designed to meet Energy Star	YES	NO.							·
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Whole Bullding 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. If not yes to one or more of the above, explain why. 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 Gross Exterior Wall Area (sf): Gross Window / Door Area (sf): Exterior Wall Type: Roofing Type: Roofing Type: B - EPDM-over rigid insulation Discrept Cheers Designed to be Net-Zero Ready NO Use Drop Down List) Avg. Exterior Wall R-Value: Avg. Exterior Wall R-Value: Gross Roof Area (sf): Exterior Wall Type: B - EPDM-over rigid insulation Other: Classroom Lighting: B - cocupancy light control sensore Other: Passive Daylighting: B - cocupancy light control sensore Other: Cither: Cither: Other: Cither: Other: Cither: Other: Cither: Other: Cither: Other: Cither: Other: Cother: Cothe	E	☑ .	-						•
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If not yes to one or more of the above, explain why. No LEED Certification being pursued. Energy Star rating is not being pursued.		Ø					- · · · ·		
Whole Bullding LCCA is not required by Owner for this project. □ □ 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): 12,828 (Reroof Area) Avg. Roof R-Value: 25+ Exterior Wall Type: □ Other: Roofing Type: □ B - EPDM over rigid insulation Other: HVAC System Type: □ Other: Packaged RTUs Classroom Lighting: □ Other: NA. Active Daylighting: □ Other: □ Other: O	tëtura								
Energy Efficient Design Features: (See List Page 4, or Use Drop Down List) East / West Building Orientation	it not yes	to one or	more of the a	apove, exp	Diain why.				
Energy Efficient Design Features: (See List Page 4, or Use Drop Down List) East / West Building Orientation	П	IZI	Designed to	be Net-Ze	aro			•	
Energy Efficient Design Features: (See List Page 4, or Use Drop Down List) East / West Building Orientation			-				/		
East / West Building Orientation	Eneray E	fficient De	*		•	r Use Drop I	Down List)		
Gross Exterior Wall Area (sf): Avg. Exterior Wall R-Value: Gross Window / Door Area (sf): Avg. Window/Door R-Value: Gross Roof Area (sf): 12,828 (Reroof Area) Avg. Roof R-Value: 25+ Exterior Wall Type: B - EPDM over rigid insulation Other: Cother: HVAC System Type: Other: Packaged RTUs Classroom Lighting: E - other Other: NA. Active Daylighting: B - occupancy light control sensors Other: Other: Passive Daylighting: G - none Other: Other:			_	٠.					•
Gross Window / Door Area (sf): Avg. Window/Door R-Value: 25+ Exterior Wall Type: Other: Roofing Type: B - EPDM over rigid insulation Other: HVAC System Type: Other: Packaged RTUs Classroom Lighting: E - other Other: NA. Active Daylighting: B - occupancy light control sensors Other: Other: Passive Daylighting: G - none Other: Other:		•					Avg. Exterior Wall R-Va	alue:	
Gross Roof Area (sf): 12,828 (Reroof Area) Avg. Roof R-Value: 25+ Exterior Wall Type: Other: Other: Roofing Type: B - EPDM-over rigid insulation Other: Packaged RTUs HVAC System Type: Other: Packaged RTUs Classroom Lighting: E - other Other: NA. Active Daylighting: B - occupancy light control sensors Other: Other: Passive Daylighting: G - none Other:				the state of the s					
Roofing Type: B - EPDM-over rigid insulation Other: Packaged RTUs HVAC System Type: Classroom Lighting: E - other Other: NA. Classroom Lighting: B - occupancy light control sensors Other: Other: Active Daylightling: B - occupancy light control sensors Other: Other: Passive Daylightling: G - none Other: Other:	Gross Ro	of Area (sf)	12,828 (Reroo	f Area)			- -		
Roofing Type: B - EPDM-over rigid insulation Other: Packaged RTUs HVAC System Type: Classroom Lighting: E - other Other: NA. Classroom Lighting: B - occupancy light control sensors Other: Other: Active Daylightling: B - occupancy light control sensors Other: Other: Passive Daylightling: G - none Other: Other:	Exterior V	Vall Type:						Other:	
HVAC System Type: Other: Packaged RTUs Classroom Lighting: E-other Other: NA Active Daylighting: B-occupancy light control sensors Other: Other: Passive Daylighting: G-none Other: Other:		• •	:		B - EPI	OM-over rigid in	sulation		
Classroom Lighting: E-other Other: NA. Active Daylighting: B-occupancy light control sensors Other: Passive Daylighting: G-none Other:	-								Packaged RTUs
Active Daylighting: B - occupancy light control sensors Other: Passive Daylighting: G - none Other:	•	• •	E - other						
Passive Daylighting: G - none Other:				light control	sensore				
Official Energy Control and The Control of the Cont	On Site E	nergy Gene	eration:	G - none				Other:	

KENTUCKY DEPARTMENT OF EDUCATION

BG-2

702 KAR 4:160

OUTLINE SPECIFICATIONS ENERGY DESIGN CRITERIA

Project: Newport Primary Gymnasium	School - Nev	w Fire	Alarm	ı Syst	em &	Renov		n, Cafeteria & Date: 10/27/21	
Air Purification Systems :	YES		NO	· 🖸			REH: 149-520		
Gray Water System :	YES		NO	-					
Low Water Use Fixtures :	YES	Π	NO	Ø				·	
						,			
PLUMBING:								;	
Type of Sewage Disposal:	Municipal						NAME OF THE OWNER O		
HEATING, VENTILATION	AND AIR CO	NDITI	IONIN	<u>G</u> :				:	
Heating Only:	Heating & M Ventilation (lechar Only	nical:	-			HVAC: X	A/C Only:	
Fuel Source/Backup (if app	licable):	Natu	ral Ga	S.					
ELECTRICAL:									
Source of Electric Power:		Utility	/				Lighting intensity	fc.):	
Voltage Serving Facility:		120/2	208V				Std. Classrooms Library/Media Ctr	***	
Number of Convenience O	utlets:						Science Lab Science Cirm	4	
Classrooms			-			 .	Band/Music Business Ed	-	
Library/Media Center Business Ed							Shops	**	
Family & Consumer Science	e <u> </u>		•		·		Corridors Stairways	30	
Camera System:			-				Cafeterla	60	
							Pre-School Clrm Art Classroom	M	
							Gymnasium	Mark Control of the C	
SPECIAL EQUIPMENT:									
System Co	onduit Only				Co	nduit 8	k Wiring	Complete with Equipment	
Bell	m =	~		-					 -
Fire Alarm	*)		-		. X	
Intercom	-			-	******	· · · ›			
Telephone Television	-	-						, pa	
Computer	-	-		****				÷	
Wireless Network Interactive White bd	-	_				<u> </u>		Mark	*********
Voice Amplification		-		_					
FIXED EQUIPMENT:		.,							
Teacher Cabinet Student Lockers Folding Bleachers Library Furnishings Dry Food Shelves						,S F	custodial Room She clence Laboratorie amily & Consumer other	·	

KENTUCKY DEPARTMENT OF EDUCATION

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BG-2 OUTLINE SPECIFICATIONS ENERGY DESIGN CRITERIA

Project: Newpot Primary School - New Fire Alarm System & Renovations to the Kitchen, Cafeteria & Gymnasium

5ymnasium		KERF	70ject; 149-520	Date: 10/2/121	
INTERIOR FINIS	H SCHEDULE:				
AREA	FLOOR	WAINSCOT	WALLS	CEILING	
General Office Corridors Custodial Kitchen Cafeteria Gym Showers/Locker Toilets Library/Media Cnt Classrooms	Rubber Tile Porcelain Tile Rubber Tile	CMU Tile/CMU CMU	CMU Tile/CMU CMU	Acoustic Clg. Acoustic/Wood Grille Acoustic/clouds	
Music Art Science FMD	***************************************				
OTHER AREAS				, , , , , , , , , , , , , , , , , , , ,	
Miscellaneous Pr	oject Specific Featu	ires:			
Kentucky Registe	Date:	ARTHUR			
Kentucky Registe	ered Englneer:	Signal Signal	lvober, PE ture	Date: 10/21/2021	
Board Designee	or Superintendent:	_ Date:			

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 nallable 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 flxtures
- 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 celling 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

KENTUCKY DEPARTMENT OF EDUCATION

702 KAR 4:160

BG-3 STATEMENT OF PROBABLE COST

District Name:	Newport Indepen		452	Facility Name:	Newport Primary Scho	ol	School Code: 20
		Newport Primary Sch					-
Proje	ct Name:	Renovations to the K Gymnasium	ilcrien, Careten	a and	REH Project #149-	520	Date: 10/27/21
Project	Phase:	Design	Development:	Ø	Construction	Docun	nents:
1. Site	Developme	ent		\$			
2. Gen	eral Constr	ruction		\$	3,750,000.00		
3. Hea	iting, Ventila	ation & Air Conditioning	3	\$			
4. Plur	nbing (inclu	ıde Sprinkler System)		\$			
5. Elec	ctrical Work			*			
3. Sew	/age Dispos	sal System		\$			
7. Tota	al Construct	tion Cost (1-6)				\$	3,750,000.00
3. Site	Acquisition	Cost (Purchase Price))	\$			
3. Leg	al Services			\$	4-		
IO. Fisc	al Agent Fe	90		\$	31,980.00		
11. Bon	d Discount			\$	94,900.00		
2. Arch	nitect/Engin	eer Fee		\$	271,875.00		
3. Con	struction/M	anager Fee (if Applical	ble)	\$			
4. Equ	ipment/Furi	nishings (Not Fixed)/Co	omputers	\$	300,000.00		
5. Prop	erty & Top	ographic Survey		\$			
16. Geo	technical S	urvey & Report		\$			
17. Spe	cial Inspect	ions		\$	15,000.00		
8. Asb	estos Abate	ement		\$	50,000.00		
9. Con	nmissioning	Fee		\$	· · · · · · · · · · · · · · · · · · ·		
.O. Plar	n Review Fe	90		\$	8,000.00		
1. Prin	ting & Distri	ibution of Bid Docs		\$	5,000.00		
. Con	tingencies ·	- Minimum 5% of Line 1	7	\$	187,500.00		
:3. Othe	er Cost (De	scribe)		\$	30,745.00		
4. Tota	al Other Co	st (8-23)				\$	995,000.00
25.	TOTAL F	PROJECT COST (line	7 + line 24)			\$	4,745,000.00
	a.	Gross Square Foot A	rea*				
	b.	Total Cost Per Squar	e Foot	Cánna la aruna	, 1		na
		Total Cost Per Pupil	T	>_	1110	\$	
	d.	Gross Sq. Ft. Area of * Base Bid Area Only					
Centucky	y Registere	d Architect/Engineer:	Robert Ehme	t Hayes & As	sociates, PLLC	Date:	10/27/2021
Construc	otion Manag	jer:			-Normaline transfer and the contract of the co	Date:	
oard of	Education	Designee:				Date:	