District Name: Henderson	n	District Code:	251	Facility Name:	Bend Gate F	Elementary School	School Code:	10
		_	201		Dena Gate E	icinentary concor		10
Project Name:	Solar Panel	Project						
PROJECT TYPE:	Yes	No		Gross Bui	lding Area (sf.)		
New Building		⊡						
Addition								
Renovation				68	3,320			
Provisions for Future	Expansion:							
Proposed Alternates:	: (1)	1						
•	(2)							
	(3)							
Describe special con	ditions, phasii	ng of project	and alterna	ates, attach a	supplemental	sheet, if needed.		
BUILDING CONSTR	RUCTION CHA	ARACTERIS	TICS:					
Description of Buildir	ng Structure:							
Foundation	:							_
	·							
Exterior Walls	<u> </u>							
Roof Structure	: Standing Se	am						
ENERGY EFFICIEN	T DESIGN (K	RS 157.450	and KRS 1	<u> 57.455)</u> :				
29.0	Energy Con	sumption "Ex	ristina" (kB	tu/sf/vr)				
	_	•	- ,					
EUI (kBtu/sf)	_Energy Con	sumption Ta	rget (kBtu/s	sf/yr)				
YES NO								
	LEED Certif	ied	Othe	r:				
	Designed to	meet Energ	y Star					
	Exceeds AS	HRAE 90.1(2007) by 1	0% (Minimum))			
	Whole Build	ling Life Cycl	e Cost Ana	lysis Demons	trating Cost Et	ffective Design		
	Life	e Cycle Cost	Analysis S	Software Used				
If not yes to one or	more of the a	above, expla	in why.					
	ŭ	be Net-Zero						
	Designed to	be Net-Zero	Ready					
Energy Efficient De	sign Feature	s: (See List	t Page 4, o	r Use Drop D	own List)			
East / West Building	Orientation	ΥES	N) 				
Gross Exterior Wall	Area (sf):				Avg. Exte	erior Wall R-Value:		
Gross Window / Doo	r Area (sf):				Avg. Win	dow/Door R-Value:		
Gross Roof Area (sf)	:					Avg. Roof R-Value:		
Exterior Wall Type:							Other:	
Roofing Type:		D -	metal roofing	over nailable decl	k with insulation		Other:	
HVAC System Type:							Other:	
Classroom Lighting:							Other:	
Active Daylighting:							Other:	
Passive Daylighting:							Other:	
On Site Energy Gene	eration:	G - none					Other:	

Air Purification Systems :	YES NO	1	
Gray Water System :	YES □ NO □	1	
Low Water Use Fixtures :	YES NO ☑	1	
Othor	,		
PLUMBING:			
Type of Sewage Disposal	:		
HEATING, VENTILATION	N AND AIR CONDITIONING:		
Heating Only:	Heating & Mechanical: Ventilation Only	HVAC:	A/C Only:
Fuel Source/Backup (if ap	pplicable): NA		
ELECTRICAL:			
Source of Electric Power:	Utility (City of Henderson)	Lighting Intensity (fc.) Std. Classrooms	
Voltage Serving Facility:	277/480V	Library/Media Ctr Science Lab	
Number of Convenience (Outlets:	Science Clrm	
Classrooms	NA	Band/Music	
Library/Media Center Business Ed	NA NA	Business Ed	
Family & Consumer Scier		Shops Corridors	
r anning a Contoannon Color	100107	Stairways	
Camera System:	NA	Cafeteria	
		Pre-School Clrm	
		Art Classroom	
		Gymnasium	
SPECIAL EQUIPMENT:			
System C	Conduit Only	Conduit & Wiring	Complete with Equipment
Bell			NA
Clock			NA
Fire Alarm Intercom			NA NA
Telephone			NA
Television			NA
Computer			NA
Wireless Network			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 Dry Food Shelves		Other Other	
DIY I GOOD OHEIVES		Oulei	

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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 Art									
Science		_							
FMD									
OTHER AREAS									
OTTIETOTICETO									
		-							
Miscellaneous Pro	ject Specific Featur	es:							
Kentucky Register	ed Architect:			Date:					
		Signature							
Kentucky Register	Kentucky Registered Engineer: Date:								
residency register	ou Enginoor.	Signature		<u> </u>					
Poord Designed	r Cuparintandant			Data					
Board Designee or	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
- 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: F	Henderson	1	District Code:	251	Facility Name:	Central Academy	School Code:	5
Project I		Solar Panel		201		Contrar / Gadoniy		
•		Solal Faller	riojeci					
PROJECT		Yes	No		Gross Bu	uilding Area (sf.)		
New Buildin	ıg		☑					
Addition			2					
Renovation		☑ Cvrensien:			3	3,168		
Provisions f		•						
Proposed A	lternates:	(1) (2)						
		(3)	<u> </u>					
Describe sp	ecial cond	ditions, phasi	ng of project	and alterna	ates, attach a	supplemental sheet, if nee	eded.	
BUILDING	CONSTR	UCTION CH	ARACTERIS	TICS:				
Description	of Building	g Structure:						
Fo	oundation:							
Exter	rior Walls:							
Exto	nor vvano.							
Roof	Structure:	Modified Bit	umen					
ENERGY E	FFICIENT	DESIGN (K	RS 157.450	and KRS	157.455 <u>)</u> :			
32.	.8	Energy Con	sumption "E	xisting" (kB	tu/sf/yr)			
EUI (kE	Btu/sf)	Energy Con	sumption Ta	rget (kBtu/	sf/yr)			
YES N	10	_						
	☑	LEED Certif	fied	Othe	r:			
	☑		meet Energ					
	ø	Exceeds AS	SHRAE 90.1(2007) by 1	0% (Minimum	1)		
	ø				,	strating Cost Effective Des	ign	
		Lif	e Cycle Cos	t Analysis S	Software Used	d:		
If not yes to	o one or r	more of the						
		D : 11						
_		-	be Net-Zero					
	☑	Designed to	be Net-Zero	Ready				
Energy Effi	icient Des	sign Feature	s: (See Lis	t Page 4, c	r Use Drop I	Down List)		
East / West	Building (Orientation	Y⋢S	N	0			
Gross Exter	rior Wall A	rea (sf):	-			Avg. Exterior Wall R	-Value:	
Gross Wind	low / Door	Area (sf):				Avg. Window/Door R	-Value:	
Gross Roof	Area (sf):					Avg. Roof R	-Value:	
Exterior Wa	all Type:						Other:	
Roofing Typ				A - modified	bitumen over rig	id insulation	Other:	
HVAC Syste	• •						Other:	
Classroom							Other:	
Active Dayli							Other:	
Passive Day							Other:	
On Site Ene	ergy Gene	ration:	G - none				Other:	

Air Purification System	ns: YES	NO	☑		
Gray Water System :	YES	NO	_ ☑		
Low Water Use Fixture Other:	es: YES	INO	☑		
-					
PLUMBING:					
Type of Sewage Dispo	osal:				
HEATING, VENTILAT	ION AND AIR CON	<u>ITIONING</u> :			
Heating Only:	Heating & Med Ventilation On			HVAC:	A/C Only:
Fuel Source/Backup (i	f applicable): N	4			
ELECTRICAL:					
Source of Electric Pov	ver: Utility (City of	Henderson)		Lighting Intensity (fc.)	:
Voltage Serving Facili	ty: <u>120/208V</u>			Std. Classrooms Library/Media Ctr Science Lab	
Number of Convenien				Science CIrm	
Classrooms	NA NA			Band/Music Business Ed	
Library/Media Center Business Ed	NA NA			Shops	
Family & Consumer S				Corridors	
•				Stairways	
Camera System:	NA			Cafeteria	
				Pre-School Clrm	
				Art Classroom	
SDECIAL EQUIDMEN	т.			Gymnasium	
SPECIAL EQUIPMEN	<u></u> .				
System	Conduit Only		Con	duit & Wiring	Complete with Equipment
Bell					NA NA
Clock Fire Alarm					NA NA
Intercom					NA NA
Telephone					NA
Television					NA
Computer					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 Library Furnishings			•	Family & Consumer Sci Other	
Dry Food Shelves			•	Other	-
			•	J	

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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 Art									
Science		_							
FMD									
OTHER AREAS									
OTTIETOTICETO									
		-							
Miscellaneous Pro	ject Specific Featur	es:							
Kentucky Register	ed Architect:			Date:					
		Signature							
Kentucky Register	Kentucky Registered Engineer: Date:								
residency register	ou Enginoor.	Signature		<u> </u>					
Poord Designed	r Cuparintandant			Data					
Board Designee or	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
- 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: Henderson	n	District Code: 251	Facility Name: F	Henderson County High School	School Code: 60
Project Name:		_		ionacioen county riigh conoci	
Project Name.	Solar Panel	rrioject			
PROJECT TYPE:	Yes	No	Gross Buildi	ng Area (sf.)	
New Building					
Addition					
Renovation			317,5	555	
Provisions for Future	Expansion:				
Proposed Alternates:	(1) (2) (3))			
Describe special con	ditions, phasi	ing of project and alterna	ates, attach a su _l	pplemental sheet, if needed.	
BUILDING CONSTR	RUCTION CH	ARACTERISTICS:			
Description of Buildin	ng Structure:				
Foundation	:				
Exterior Walls	:				
Roof Structure	Standing Se	eam			
ENERGY EFFICIEN	T DESIGN (K	(RS 157.450 and KRS 1	<u>157.455)</u> :		_
26.2	Energy Con	nsumption "Existing" (kB	tu/sf/yr)		
EUI (kBtu/sf)	Energy Con	nsumption Target (kBtu/	sf/vr)		
YES NO	_ Lileigy Coll	isumption ranget (KBta/	31/ yi <i>)</i>		
	LEED Contil	داده م			
	LEED Certif	fied Othe o meet Energy Star	r:		
		SHRAE 90.1(2007) by 1	00/- (Minimum)		
		, , ,	, ,	ating Cost Effective Design	
		•	-	uing Cost Effective Design	
If not yes to one or			ontware oscu		
	Designed to	be Net-Zero			
	Designed to	be Net-Zero Ready			
-	•	es: (See List Page 4, o	-	vn List)	
East / West Building		□ YES N	U	A F.4	
Gross Exterior Wall A	` '			Avg. Exterior Wall R-Value:	
Gross Window / Doo Gross Roof Area (sf)	, ,			Avg. Window/Door R-Value: Avg. Roof R-Value:	
Exterior Wall Type:					Other:
Roofing Type:		D - metal roofing	over nailable deck w	vith insulation	Other:
HVAC System Type:					Other:
Classroom Lighting:					Other:
Active Daylighting:					Other:
Passive Daylighting:					Other:
On Site Energy Gene	eration:	G - none			Other:

Air Purification System	s: YES 🗆 N	O		
Gray Water System :	YES - N	O 🗷		
Low Water Use Fixture Other:	es: YES 🗆 N	O 🛮		
PLUMBING:				
Type of Sewage Dispo	sal:			
HEATING, VENTILAT	ION AND AIR CONDITION	ING:		
Heating Only:	Heating & Mechanica Ventilation Only	l:	HVAC:	A/C Only:
Fuel Source/Backup (i	f applicable): NA			
ELECTRICAL:				_
Source of Electric Pow	ver: Utility (City of Hender	son)	Lighting Intensity (fc.)	:
Voltage Serving Facilit	y: <u>277/480V</u>		Std. Classrooms Library/Media Ctr Science Lab	
Number of Convenience	ce Outlets:		Science Clrm	
Classrooms	NA		Band/Music	
Library/Media Center	NA		Business Ed	
Business Ed Family & Consumer So	NA NA		Shops Corridors	
ranning & Consumer So	SIERICE INA		Stairways	
Camera System:	NA		Cafeteria	
,			Pre-School Clrm	
			Art Classroom	
			Gymnasium	
SPECIAL EQUIPMEN	<u>T</u> :			
System	Conduit Only	Conduit	& Wiring	Complete with Equipment
Bell		<u> </u>		NA
Clock				NA
Fire Alarm				NA NA
Intercom Telephone		-		NA NA
Television				NA NA
Computer				NA
Wireless Network				NA
Interactive White bd Voice Amplification				NA NA
FIXED EQUIPMENT:				NA
Teacher Cabinet			Custodial Room Shelves	
Student Lockers Folding Bleachers			Science Laboratories 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 Art									
Science		_							
FMD									
OTHER AREAS									
OTTIETOTICETO									
		-							
Miscellaneous Pro	ject Specific Featur	es:							
Kentucky Register	ed Architect:			Date:					
		Signature							
Kentucky Register	Kentucky Registered Engineer: Date:								
residency register	ou Enginoor.	Signature		<u> </u>					
Poord Designed	r Cuparintandant			Data					
Board Designee or	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
- 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: Henderso	n	District Code:	251	Facility Name:	North Middle School	School Code:	65
Project Name:	Solar Panel						
•							
PROJECT TYPE:	Yes	No		Gross Buil	ding Area (sf.)		
New Building		☑					
Addition							
Renovation				101	1,680		
Provisions for Future	Expansion:						
Proposed Alternates:	(2)						
	(3)						
Describe special con	ditions, phasir	ng of project	and alterna	ites, attach a s	supplemental sheet, if needed.		
BUILDING CONSTR	RUCTION CHA	ARACTERIS	TICS:				
Description of Buildir	ng Structure:						
Foundation	:						
Exterior Walls							
Roof Structure	: Flat TPO						
ENERGY EFFICIEN	T DESIGN (K	RS 157.450	and KRS 1	<u>57.455)</u> :			
40.2	_Energy Cons	sumption "Ex	xisting" (kB	tu/sf/yr)			
EUI (kBtu/sf)	Energy Cons	sumption Ta	rget (kBtu/s	sf/yr)			
YES NO	_	·	•	• ,			
	LEED Certif	ied	Othe	•••			
	Designed to						
	-	_	•)% (Minimum)			
				, ,	rating Cost Effective Design		
				oftware Used:			
If not yes to one or		·=	=				
	Designed to						
	Designed to	be Net-Zero	Ready				
Energy Efficient De	sign Features	s: (See Lis	t Page 4, o	r Use Drop Do	own List)		
East / West Building	Orientation	□YES	NO)			
Gross Exterior Wall	Area (sf):				Avg. Exterior Wall R-Value:		
Gross Window / Doo	r Area (sf):				Avg. Window/Door R-Value:		
Gross Roof Area (sf)	:				Avg. Roof R-Value:		
Exterior Wall Type:						Other:	
Roofing Type:			C - plastic si	ngle ply over rigid	insulation	Other:	TPO
HVAC System Type:						Other:	
Classroom Lighting:						Other:	
Active Daylighting:						Other:	
Passive Daylighting:						Other:	
On Site Energy Gene	eration:	G - none				Other:	

Air Purification Systems :	YES 🗆 NO 🛮		
Gray Water System :	YES □ NO ☑		
Low Water Use Fixtures :	: YES □ NO ☑		
Otto - m			
PLUMBING:			
Type of Sewage Disposal	l:		
HEATING, VENTILATION	N AND AIR CONDITIONING:		
Heating Only:	Heating & Mechanical: Ventilation Only	HVAC:	A/C Only:
Fuel Source/Backup (if ap	pplicable): NA		
ELECTRICAL:			
Source of Electric Power:	Utility (City of Henderson)	Lighting Intensity (fc.): Std. Classrooms	
Voltage Serving Facility:	120/208V w/ High-leg delta	Library/Media Ctr Science Lab	
Number of Convenience	Outlets:	Science Clrm	
Classrooms	NA	Band/Music	
Library/Media Center	NA	Business Ed	
Business Ed	NA noc NA	Shops	
Family & Consumer Scien	ICENA	Corridors Stairways	
Camera System:	NA	Cafeteria	
Camera Gystem.	IVA	Pre-School Clrm	
		Art Classroom	
		Gymnasium	
SPECIAL EQUIPMENT:			
System	Conduit Only	Conduit & Wirina	Complete with Equipment
Bell	,	Ğ	NA
Clock			NA NA
Fire Alarm		 -	NA NA
Intercom			NA
Telephone			NA
Television			NA
Computer			NA
Wireless Network			NA
Interactive White bd			NA
Voice Amplification			NA
FIXED EQUIPMENT:			· · · · · · · · · · · · · · · · · · ·
		0 1 11 1 2 2 2	
Teacher Cabinet		Custodial Room Shelves	
Student Lockers		Science Laboratories	
Folding Bleachers		Family & Consumer Sci	
Library Furnishings Dry Food Shelves		Other Other	
שוא רייטע אופועפא		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								
OTHER AREAS								
Miscellaneous Proj	ect Specific Feature	es:						
Kentucky Registere	ed Architect:			Date:				
		Signature						
Kentucky Registere	ed Engineer:			Date:				
, 3.2.2	J	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 Name: Hendersor	า	District Code:	251	Facility Name:	South Heights Elementary School	School Code:	91
Project Name:	Solar Panel		-	_		•	
				Crass Buil	din		
PROJECT TYPE:	Yes	No		Gross Buil	ding Area (sf.)		
New Building Addition							
		2			2052		
Renovation	□ □			57	,253		
Provisions for Future	Expansion.						
Proposed Alternates:	(1) (2)						
	(3)						
Describe special con-	ditions, phasi	ng of project	and alterna	ites, attach a s	supplemental sheet, if needed.		
BUILDING CONSTR	UCTION CHA	ARACTERIS	TICS:				
Description of Buildin	g Structure:						
•	-						
Exterior Walls							_
LATERIOI Walls							
Roof Structure	: Flat TPO						
ENERGY EFFICIENT	T DESIGN (K	RS 157.450	and KRS 1	<u>57.455)</u> :			
47.7	_Energy Con	sumption "E	xisting" (kB	tu/sf/yr)			
EUI (kBtu/sf)	Energy Con	sumption Ta	rget (kBtu/s	sf/yr)			
YES NO	_						
	LEED Certif	fied	Othe	r:			
		meet Energ		·			
	-	-	•	0% (Minimum)			
			, -	,	rating Cost Effective Design		
		-		oftware Used:	•		
If not yes to one or	more of the a	above, expla	ain why.				
	Designed to	be Net-Zero)				
	ŭ	be Net-Zero					
	_		-				
Energy Efficient Des	-	-	-	-	own List)		
East / West Building		YES	□ N()			
Gross Exterior Wall A	` '				Avg. Exterior Wall R-Value:		
Gross Window / Door	` '				_ Avg. Window/Door R-Value:		
Gross Roof Area (sf)					Avg. Roof R-Value:		
Exterior Wall Type:	-					Other:	
Roofing Type:			C - plastic s	ngle ply over rigid	insulation	Other:	TPO
HVAC System Type:						Other:	
Classroom Lighting:						Other:	
Active Daylighting:						Other:	
Passive Daylighting:						Other:	
On Site Energy Gene	ration:	G - none				Other:	

Air Purification Systems	YES NO		
Gray Water System :	YES □ NO ☑		
Low Water Use Fixtures Other:	: YES □ NO ⊠		
PLUMBING:			
Type of Sewage Disposa	ıl:		
HEATING, VENTILATIO	N AND AIR CONDITIONING	:	
Heating Only:	Heating & Mechanical: Ventilation Only	HVAC:	A/C Only:
Fuel Source/Backup (if a	pplicable): NA		
ELECTRICAL:			
Source of Electric Power	Utility (City of Henderson)		
Voltage Serving Facility:	277/480V	Std. Classrooms Library/Media Ctr Science Lab	
Number of Convenience	Outlets:	Science Clrm	
Classrooms	NA	Band/Music	
Library/Media Center	NA	Business Ed	
Business Ed	NA	Shops	
Family & Consumer Scie	nceNA	Corridors	
0	N1A	Stairways	
Camera System:	NA	Cafeteria	
		Pre-School Clrm Art Classroom	
		Gymnasium	
		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 NA
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	

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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									
011121171112710									
Miscellaneous Proj	ect Specific Feature	es:							
Kentucky Registere	ed Architect:			Date:					
		Signature							
Kentucky Registered Engineer: Date:									
, 5.2.2.	3	Signature	_						
Board Designee or	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
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- E solar tubes with internal dimmers
- F other
- G none

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- 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: Hendersor	า	District Code:	251	Facility Name:	South Middle School	School Code:	150
Project Name:	Solar Panel		-	_		_	
•				Out to Built	-lio A (- f .)		
PROJECT TYPE:	Yes	No _		Gross Buil	ding Area (sf.)		
New Building							
Addition		☑		400	2.000		
Renovation	2			122	2,699		
Provisions for Future	Expansion:						
Proposed Alternates:	(1) (2) (3)						
Describe special con	, ,	-	and alterna	ites, attach a s	supplemental sheet, if needed.		
BUILDING CONSTR	UCTION CH	APACTERIS	TICS				
		ANACILNIS	<u>1103</u> .				
Description of Buildin Foundation							
	-						
Exterior Walls	:						
Roof Structure	: Flat TPO						
ENERGY EFFICIENT	T DESIGN (K	RS 157.450	and KRS 1	<u>57.455)</u> :			
30.0	_Energy Con	sumption "Ex	kisting" (kB	tu/sf/yr)			
EUI (kBtu/sf)	Energy Con	sumption Ta	rget (kBtu/s	sf/yr)			
YES NO	_						
	LEED Certif	ied	Othe				
		meet Energ		•			
	-	-	-	0% (Minimum)			
		,	, •		rating Cost Effective Design		
		•		oftware Used:	•		
If not yes to one or							
	Ü	be Net-Zero					
	Designed to	be Net-Zero	Ready				
Energy Efficient Des	sign Feature	s: (See List	t Page 4, o	r Use Drop Do	own List)		
East / West Building	•	` ¤YES	N(•		
Gross Exterior Wall A	Area (sf):			,	Avg. Exterior Wall R-Value:		
Gross Window / Door	` '				Avg. Window/Door R-Value:	-	
Gross Roof Area (sf)	` '				Avg. Roof R-Value:	-	
Exterior Wall Type:						Other:	
Roofing Type:			C - plastic si	ngle ply over rigid	insulation	Other:	TPO
HVAC System Type:			S Plastic S	g.o pry over rigiu		Other:	5
Classroom Lighting:						Other:	
Active Daylighting:						Other:	
Passive Daylighting:						Other:	
On Site Energy Generation: G - none Other:							
Liloigy Colle	G-Holic Energy Condition.						

Air Purification System: Gray Water System: Low Water Use Fixture Other:	YES 🛮 NO		
PLUMBING:			
Type of Sewage Dispos	sal:		
HEATING, VENTILATI	ON AND AIR CONDITIONIN	<u>3</u> :	
Heating Only:	Heating & Mechanical: Ventilation Only	HVAC: A	VC Only:
Fuel Source/Backup (if	applicable): NA		
ELECTRICAL:			
Source of Electric Pow	er: Utility (City of Henderso		
Voltage Serving Facility	y: <u>120/208</u> V	Std. Classrooms Library/Media Ctr Science Lab	<u> </u>
Number of Convenience		Science Clrm	
Classrooms	NA	Band/Music	
Library/Media Center Business Ed	NA NA	Business Ed Shops	
	NA ience NA	Corridors	
,		 Stairways	
Camera System:	NA	Cafeteria	
		Pre-School Clrm	
		Art Classroom	
		Gymnasium	_
SPECIAL EQUIPMENT	<u>[</u> :		
System	Conduit Only	Conduit & Wiring C	omplete with Equipment
Bell _			NA
Clock			NA
Fire Alarm			NA NA
Intercom Telephone			NA NA
Television			NA NA
Computer			NA
Wireless Network			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	

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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									
011121171112710									
Miscellaneous Proj	ect Specific Feature	es:							
Kentucky Registere	ed Architect:			Date:					
		Signature							
Kentucky Registered Engineer: Date:									
, 5.2.2.	3	Signature	_						
Board Designee or	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
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- G variable refrigerant volume (VRV) with air make up
- H hybrid geothermal/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
- B T5 fluorescent fixtures
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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: Henderso	District Code: 251	Facility Name: Thelma B Johnson Ea		School Code:
		Name. <u>Mema b Johnson La</u>	ny Leaning Center	Code.
Project Name:	Solar Panel Project			
PROJECT TYPE:	Yes No	Gross Building Area (sf.)		
New Building				
Addition				
Renovation		45,874		
Provisions for Future	Expansion:			
Proposed Alternates:	(1)			
	(2)			
	(3)			
Describe special con	ditions, phasing of project and alternate	ates, attach a supplemental sheet, if no	eeded.	
BUILDING CONSTR	UCTION CHARACTERISTICS:			
Description of Buildir	g Structure:			
Foundation	:			
F (:)A/ II				
Exterior Walls	:			
Roof Structure	: Standing Seam			
ENERGY EFFICIEN	F DESIGN (KRS 157.450 and KRS	<u>57.455)</u> :		
51.8	Energy Consumption "Existing" (kE	tu/sf/vr)		
EUI (kBtu/sf)	_Energy Consumption Target (kBtu/	sf/yr)		
YES NO				
	LEED Certified Other	r:		
	Designed to meet Energy Star			
	Exceeds ASHRAE 90.1(2007) by 1	0% (Minimum)		
		alysis Demonstrating Cost Effective De	=	
	Life Cycle Cost Analysis	Software Used:		
If not yes to one or	more of the above, explain why.			
	D : 1/1 N/7			
	Designed to be Net-Zero			
	Designed to be Net-Zero Ready			
Energy Efficient De	sign Features: (See List Page 4, o	r Use Drop Down List)		
East / West Building	Orientation YES N	0		
Gross Exterior Wall	Area (sf):		Avg. Exterior Wall R-Value:	
Gross Window / Doo	Area (sf):		Avg. Window/Door R-Value:	
Gross Roof Area (sf)			Avg. Roof R-Value:	
Exterior Wall Type:				Other:
Roofing Type:	D -	metal roofing over nailable deck with insulation		Other:
HVAC System Type:				Other:
Classroom Lighting:				Other:
Active Daylighting:				Other:
Passive Daylighting:				Other:
On Site Energy Gene	eration: G - none			Other:

Care	Air Purification System	s: YES	NO ☑			
Description	Gray Water System :	YES	NO			
PLUMBING: Type of Sewage Disposal:	O41		NO □			
Type of Sewage Disposal:						
Type of Sewage Disposal:						
Heating Only:	PLUMBING:					
Heating Only: Heating & Mechanical: NA	Type of Sewage Dispo	sal:				
Fuel Source/Backup (if applicable): NA ELECTRICAL:	HEATING, VENTILAT	ION AND AIR CONDIT	IONING:			
ELECTRICAL: Source of Electric Power: Utility (City of Henderson)	Heating Only:		nical:		HVAC:	A/C Only:
Source of Electric Power: Utility (City of Henderson)	Fuel Source/Backup (i	f applicable): NA				
Std. Classrooms Library/Media Ctr Science Lab	ELECTRICAL:					
Voltage Serving Facility: 120/208V Library/Media Ctr Science Lab	Source of Electric Pow	er: Utility (City of Her	nderson)			:
Number of Convenience Outlets:	Voltage Serving Facilit	y: <u>120/208V</u>		Lib	rary/Media Ctr	
Library/Media Center NA Business Ed NA Business Ed NA Shops Family & Consumer Science NA Corridors Stairways Stairways Camera System: NA Cafeteria Pre-School Clrm Art Classroom Gymnasium Art Classroom System Conduit Only Conduit & Wiring Complete with Equipment Bell NA Clock NA Fire Alarm NA Intercom NA Telephone NA Computer NA Computer NA Vireless Network NA Interactive White bd NA Voice Amplification NA FIXED EQUIPMENT: Teacher Cabinet Custodial Room Shelves Science Laboratories Folding Bleachers Folding Bleachers Family & Consumer Sci Library Furnishings Other				Sci	ence Clrm	
Shops	-					
Camera System: NA						
Camera System: NA					•	
Pre-School Clrm Art Classroom 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 Voice Amplification NA FIXED EQUIPMENT: Teacher Cabinet Student Lockers Folding Bleachers Library Furnishings Pre-School Clrm Art Classroom Gymnasium NA Complete with Equipment NA NA NA Complete with Equipment NA NA NA Complete With Equipment NA NA Computer NA NA NA Custodial Room Shelves Science Laboratories Family & Consumer Sci Custodial Room Shelves Science Laboratories Family & Consumer Sci Cother	-					
Art Classroom 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 Voice Amplification NA FIXED EQUIPMENT: Teacher Cabinet Student Lockers Folding Bleachers Library Furnishings Art Classroom Gymnasium Art Classroom Gymnasium An Complete with Equipment NA NA NA Complete with Equipment NA NA Complete with Equipment NA NA Complete with Equi	Camera System:	NA				
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 NA FIXED EQUIPMENT: Teacher Cabinet Science Laboratories Folding Bleachers Library Furnishings Gymnasium Compute Wiring Complete with Equipment NA NA NA Complete with Equipment NA NA NA Complete with Equipment NA NA NA NA NA Complete with Equipment NA NA NA NA NA Complete with Equipment NA NA NA NA Complete with Equipment NA NA NA NA Complete with Equipment NA NA Complete with Equipment NA NA Complete with Equipment NA Complete with Equipment NA NA Complete with Equipment NA NA Intercom NA Complete with Equipment NA NA Intercom NA Complete with Equipment NA NA NA Intercom NA Complete with Equipment NA NA NA Intercom NA Complete with Equipment NA NA NA NA NA NA NA Vice Amplification NA Custodial Room Shelves Science Laboratories Family & Consumer Sci Library Furnishings					_	_
System Conduit Only Conduit & Wiring Complete with 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 NA FIXED EQUIPMENT: Teacher Cabinet Student Lockers Folding Bleachers Library Furnishings Compute White Wiring Computer NA Computer NA NA Custodial Room Shelves Science Laboratories Family & Consumer Sci Other	SDECIAL EQUIDMEN	т.		Gy	mnasium	
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 Student Lockers Science Laboratories Folding Bleachers Family & Consumer Sci Library Furnishings Other	SPECIAL EQUIPMEN	_				
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: Custodial Room Shelves Student Lockers Science Laboratories Folding Bleachers Family & Consumer Sci Library Furnishings Other		Conduit Only		Conduit & Wiri	ng	
NA	_					
Intercom Telephone Television Computer Wireless Network Interactive White bd Voice Amplification Teacher Cabinet Student Lockers Folding Bleachers Library Furnishings NA NA NA NA NA Custodial Room Shelves Science Laboratories Family & Consumer Sci Other	_					
Television Computer Wireless Network Interactive White bd Voice Amplification Teacher Cabinet Student Lockers Folding Bleachers Library Furnishings NA NA NA NA NA Custodial Room Shelves Science Laboratories Family & Consumer Sci Other	_					
Computer Wireless Network Interactive White bd Voice Amplification FIXED EQUIPMENT: Teacher Cabinet Student Lockers Folding Bleachers Library Furnishings NA NA NA Custodial Room Shelves Science Laboratories Family & Consumer Sci Other	Telephone		_			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	_					
Interactive White bd Voice Amplification NA FIXED EQUIPMENT: Teacher Cabinet Custodial Room Shelves Student Lockers Science Laboratories Folding Bleachers Family & Consumer Sci Library Furnishings Other			_			
Voice Amplification NA FIXED EQUIPMENT: Teacher Cabinet Custodial Room Shelves Student Lockers Science Laboratories Folding Bleachers Family & Consumer Sci Library Furnishings Other						
Teacher Cabinet Student Lockers Folding Bleachers Library Furnishings Custodial Room Shelves Science Laboratories Family & Consumer Sci Other						
Teacher Cabinet Custodial Room Shelves Student Lockers Science Laboratories Folding Bleachers Family & Consumer Sci Library Furnishings Other	-					
Student Lockers Science Laboratories Folding Bleachers Family & Consumer Sci Library Furnishings Other				<u> </u>	11. I D	
Folding Bleachers Family & Consumer Sci Library Furnishings Other	_					
Library Furnishings Other	_					
				-	. 50110411101 001	
				Other		

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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									
011121171112710									
Miscellaneous Proj	ect Specific Feature	es:							
Kentucky Registere	ed Architect:			Date:					
		Signature							
Kentucky Registered Engineer: Date:									
, 5.2.2.	3	Signature	_						
Board Designee or	Board Designee or Superintendent: Date:								
-		Signature							

Exterior Wall Type

- A face brick, captured air space, board insulation and waterproof CMU
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