

APPENDIX CA

FORMS

FLORIDA BUILDING CODE, ENERGY CONSERVATION CHAPTER C4—COMMERCIAL ENERGY EFFICIENCY					
Form C402-2017 ALTERATIONS, RENOVATIONS and BUILDING SYSTEMS					
			Climate Zone:	2A	
Project Name: CHA - RALPH RICHARDS RENOVATION			Occupancy type: RESIDENTIAL R-2		
Address: 1100 EAST DRUID ROAD			Alteration <input type="checkbox"/> Renovation <input checked="" type="checkbox"/> Building System <input type="checkbox"/>		
City, Zip Code: CLEARWATER, FLORIDA 33756			Building Permit No.:		
Builder:			Permitting Office:		
Owner: CLEARWATER HOUSING AUTHORITY					
BUILDING ENVELOPE INFORMATION (Where changed)					
Envelope Component	Description	Requirement		Efficiency	
		Location	Unit	Required	Installed
Roof type	N/A	Table C402.1.4 or Table C402.1.3	\leq U-factor or \geq R-value	N/A	N/A
Roof reflectance/Emittance (low slope roofs)	N/A	Table C402.3	\geq Solar reflectance, \geq Thermal emittance	N/A	N/A
Wall type, above grade	N/A	Table C402.1.4 or Table C402.1.3	\leq U-factor or \geq R-value	N/A	N/A
Wall, below grade	N/A			N/A	N/A
Floor type	N/A			N/A	N/A
Vertical fenestrations	(1) NEW STOREFRONT WINDOWS (2) NEW IMPACT-RATED SLIDING GLASS DOORS	Table C402.4	\leq U-factor	(1) 0.50 (2) 0.83	(1) 0.50 (2) 0.83
			\leq SHGC	(1) 0.40 (2) 0.40	(1) 0.40 (2) 0.71
Skylights	N/A		\leq U-factor	N/A	N/A
			\leq SHGC	N/A	N/A
BUILDING SYSTEMS INFORMATION [for HVAC, service hot water or pool heating, lighting systems and replacement fenestration (C501.7)]					
System	Type (describe system)	Requirement		Efficiency	
		Location	Unit	Required	Installed
Air-conditioning system	DUCTLESS MINI-SPLIT HEAT PUMP	Tables C403.2.3 (1-3, 6-8, 9-11)	SEER or EER, IEER	13.0	20.5
Heating system	DUCTLESS MINI-SPLIT HEAT PUMP	Tables C403.2.3 (2-6)	HSPF or COP AFUE, E _t or E _c	8.2	10
Ventilation/air handling system	4" DIA. DUCT CONNECTED TO EXISTING AIR CONDITIONING SYSTEM	Tables C403.2.12.1(1-2)	Fan power (cfm)	N/A	N/A
Ducts	Location: UNCONDITIONED CEILING SPACE	Table C403.2.9.1	R-value	4.2	4.2
Piping	Fluid design operating temp:	Table C403.2.10	Inches	N/A	N/A
Hot water	N/A	Table C404.2	EF, E _t , COP	N/A	N/A
Lighting	Space types: (append list)	Table C405.4.2 (1 or 2)	Lighting power density	N/A	N/A
Fenestrations: Enter information in BUILDING ENVELOPE INFORMATION box above.					
Other:	N/A			N/A	N/A
COMPLIANCE IS BY ANSI/ASHRAE/IESNA 90.1 <input type="checkbox"/> (Submit alternate form or append documents as needed)					
I hereby certify that the plans and specifications covered by the calculation are in compliance with the Florida Building Code, Energy Conservation. PREPARED BY: GREGORY M. CLEMENTS, PE <i>Gregory M. Clements</i> DATE: 6/3/2020			Review of plans and specifications covered by this calculation indicates compliance with the Florida Building Code, Energy Conservation. Before construction is completed, this building will be inspected for compliance in accordance with Section 553.908, F.S. BUILDING OFFICIAL: _____ DATE: _____		