HERS Assessment

Project:	Farolito Senior
Project #:	22041
Rater:	JS
Unit(s):	
Date:	10/12/2022
IECC Code & Climate Zone:	2021 & 5
Ekotrope/REM Version:	4.0.2
QA by:	
QA date:	

Component	Baseline Design	Package 1	Δ HERS
Envelope			
Slab insulation (Type, under slab, edge, depth in ft)	Perimeter, R10, 2' depth		
Framed Floor/Cantilever Insulation (construction & insulation R-value)	NA		
Foundation Walls (construction & insulation R-value)	NA		
Walls (construction & insulation R-value)	Stucco/Tyvek/OSB/2x6, 16oc/R-21 FG Blown FG Grade 1/Gyp	Add 1" XPS	
Ext. wall color (light, med, or dark)	Medium		
Rim joist (insulation)	R21		
Roof/Ceiling insulation (attic, flat/vaulted, sealed attic, construction and insulation)	R49-Attic	Referance luminaria	
Roof color (light, med, or dark)	Dark		
Drywall thickness	0.63		
Fenestration			
Doors (type, R-value)	R-4.4		
Windows (U-value & SHGC)	U Value: .30 SHGC: .30	U Value: .30 SHGC: .18	
Skylights (U-value & SHGC)	NA		
Mechanical			
Space heating (fuel, efficiency rating, output capacity kBTU/h, model #)	ASHP SEER:16 HSPF: 9 24k Heating Cap 24k Cooling Cap	Refrence Hiland Plaza	
Space cooling (efficiency rating, output Cpacity kBTU/h, model #)			
Water heating (On demand/tank size, fuel, Energy Factor, output capacity kBTU/h, model #)	Elec 30 Gal UEF .89	Nat Gas Boiler Solar Hot Water Heater	
Location Duct system (% within conditioned space, insulation R-value)	100% In conditioned Space		
Duct system Leakage (Leakage to Outside, Total Leakage)	LTO: 40cfm Total: 80cfm		
Ventilation (CFM, Watts, continuous or intermittent w/ runtime)	Whisper Green 30 CFM 24hr/day	Reference Hiland Plaza	
Ceiling fan(s) (Medium Speed cfm/watt)	NA		
Thermostat (Standard, 7-day Programable, Smart)	7-Day Programable		

Water			
Water Fixture Type (Standard or Low-flow)	Low-Flow		
Hot Water Pipe Length (feet to furthest fixture)	40'		
Hot Water Pipe Insulation, R-3 Min	Yes		
Hot Water Pipe Recirc System	None	Yes temp Control	
Lighting & Appliances			
Lighting, int., ext., garage (% of Efficient Lighting)	100% LED		
Refrigerator (kWh/year)	kWh: 501		
Dishwasher (EF or kWh/year)	kWH: 270	kWH: 489	
Range (fuel, convection, induction)	Elec		
Clothes dryer (fuel, Efficiency Factor)	CEF: 3.73		
Clothes washer (kWh, MEF, Capacity)	Energy Star IMEF: 2.01 kWh: 152 Cap: 4.5		
Infiltration			
Infiltration (ACH50 or CFM50)	3 ACH		
Onsite Generation			
Photovoltaic system (track mode, kWdc, derate factor (0.77 default), orientation, deg tilt)	NA	PV ready	

		Current HERS:	
HERS:			
1 Bed:	57		50
2 Bed:	55		48