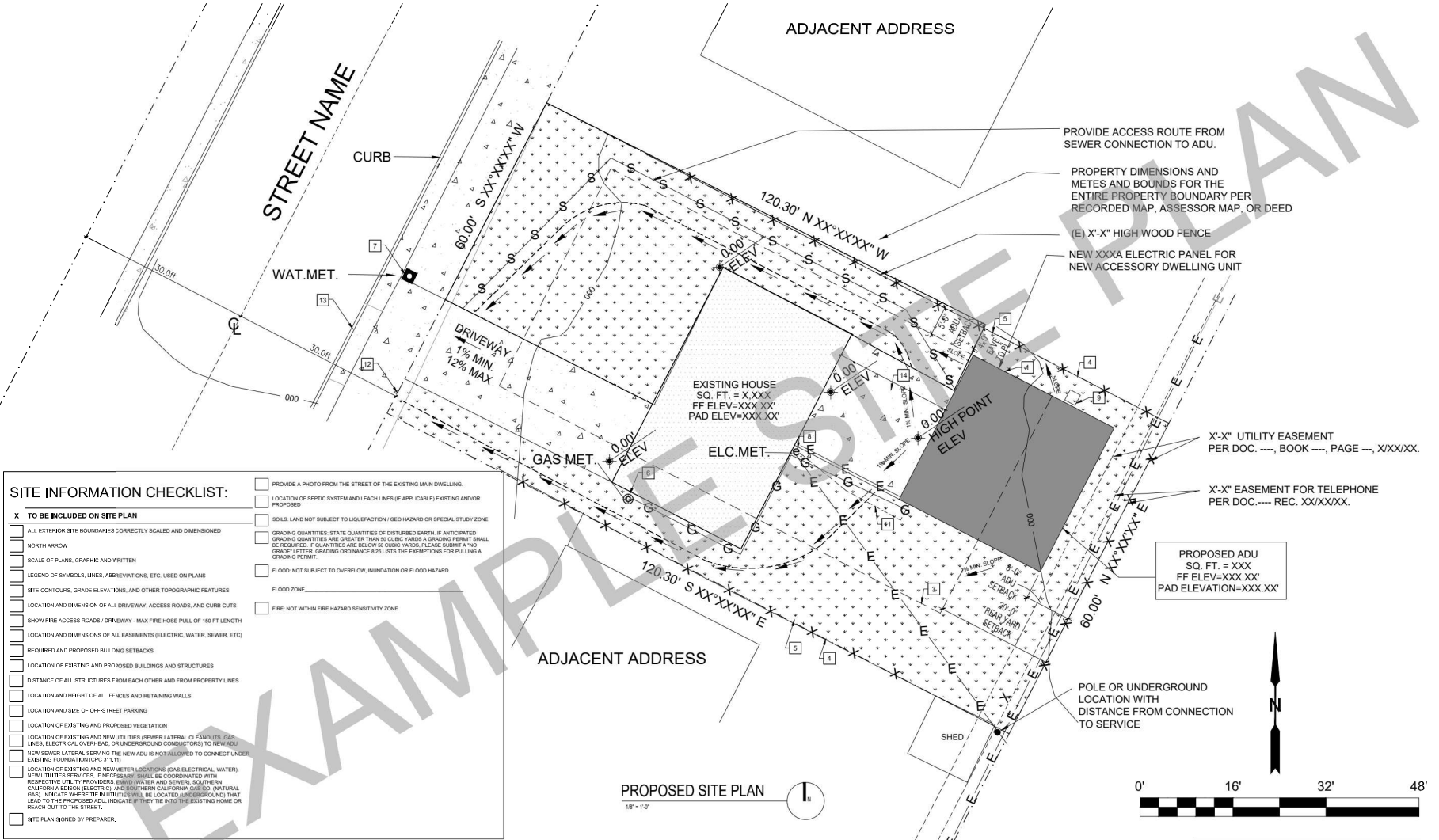
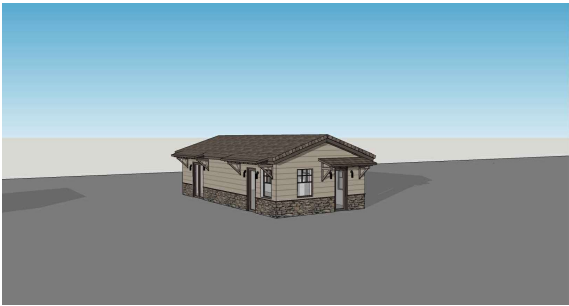
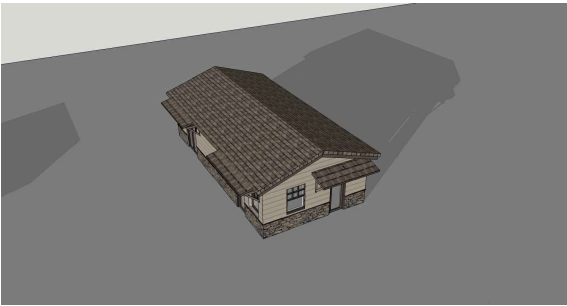




	Ranch Base		Ranch Base Roof
	Ranch Porch		Ranch Porch Roof
	Tuscan Base		Tuscan Base Roof
	Tuscan Porch		Tuscan Porch Roof

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project

City of Moreno
Valley Permitted
ADU Plan Set

revisions



description

Exterior
Style
Options

date

project no. 2024_Moreno ADU

drawn by

sheet no.

T1.2

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project

City of Moreno
Valley Permitted
ADU Plan Set

revisions



description

Example Energy
Calculations

date

project no. 2024_Moreno ADU

drawn by

sheet no.

T24.1

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD
Project Name: Moreno Valley 1 Bed 18 ADU Base
Calculation Description: Title 24 Analysis
Calculation Date/Time: 2024-10-08T10:16:50-07:00
Input File Name: Moreno Valley 1Bed18_ADUBase.rbd22x
CF1R-PRF-01-E
(Page 2 of 12)

	Energy Design Ratings			Compliance Margins		
	Source Energy (EDR1)	Efficiency ¹ EDR (EDR2efficiency)	Total ² EDR (EDR2total)	Source Energy (EDR1)	Efficiency ¹ EDR (EDR2efficiency)	Total ² EDR (EDR2total)
Standard Design	36.7	39.8	30.2			
Proposed Design						
North Facing	35.3	36.1	28.2	1.4	3.7	2
East Facing	34.2	33.9	27	2.5	5.9	3.2
South Facing	34.8	36.9	28.6	1.9	2.9	1.6
West Facing	34.9	34.9	27.6	1.8	4.9	2.6
RESULT ³ : PASS						
¹ Efficiency EDR includes improvements like a better building envelope and more efficient equipment ² Total EDR includes efficiency and demand response measures such as photovoltaic (PV) system and batteries ³ Building complies when source energy, efficiency and total compliance margins are greater than or equal to zero and unmet load hour limits are not exceeded						
• Standard Design PV Capacity: 1.72 kWdc • Proposed PV Capacity Scaling: North (1.72 kWdc) East (1.72 kWdc) South (1.72 kWdc) West (1.72 kWdc)						

Registration Number: 424-P010240587A-000-000-0000000-0000
Registration Date/Time: 10/08/2024 10:18
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CA Building Energy Efficiency Standards - 2022 Residential Compliance
Report Version: 2022.0.000
Schema Version: rev 20220901
Report Generated: 2024-10-08 10:17:48

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD
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CF1R-PRF-01-E
(Page 5 of 12)

ENERGY USE INTENSITY				
	Standard Design (kBtu/ft ² - yr)	Proposed Design (kBtu/ft ² - yr)	Compliance Margin (kBtu/ft ² - yr)	Margin Percentage
North Facing				
Gross EU1	28.29	26.82	1.47	5.2
Net EU2	11.25	9.78	1.47	13.07
East Facing				
Gross EU1	28.29	26.33	1.96	6.93
Net EU2	11.25	9.29	1.96	17.42
South Facing				
Gross EU1	28.29	26.76	1.53	5.41
Net EU2	11.25	9.73	1.52	13.51
West Facing				
Gross EU1	28.29	26.39	1.9	6.72
Net EU2	11.25	9.35	1.9	16.89
Notes 1. Gross EU1 is Energy Use Total (not including PV) / Total Building Area. 2. Net EU1 is Energy Use Total (including PV) / Total Building Area.				

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CF1R-PRF-01-E
(Page 8 of 12)

FENESTRATION / GLAZING													
01	02	03	04	05	06	07	08	09	10	11	12	13	14
Name	Type	Surface	Orientation	Azimuth	Width (ft)	Height (ft)	Mult.	Area (ft ²)	U-factor	U-factor Source	SHGC	SHGC Source	Exterior Shading
Window C	Window	Right Wall	Right	270			1	6	0.3	NFRC	0.23	NFRC	Bug Screen
Window (2) B	Window	Back Wall	Back	180			1	9	0.3	NFRC	0.23	NFRC	Bug Screen
FrDoor 5	Window	Left Wall	Left	90			1	33.3	0.3	NFRC	0.23	NFRC	Bug Screen
Fr Door 1..	Window	Left Wall	Left	90			1	20	0.3	NFRC	0.23	NFRC	Bug Screen
Window A...	Window	Left Wall	Left	90			1	9	0.3	NFRC	0.23	NFRC	Bug Screen
SLAB FLOORS													
01	02	03	04	05	06	07	08						
Name	Zone	Area (ft ²)	Perimeter (ft)	Edge Insul. R-value and Depth	Edge Insul. R-value and Depth	Carpeted Fraction	Heated						
Slab-on-Grade	1 Bed 18 ADU	586	103	none	0	0%	No						
OPAQUE SURFACE CONSTRUCTIONS													
01	02	03	04	05	06	07	08						
Construction Name	Surface Type	Construction Type	Framing	Total Cavity R-value	Interior / Exterior Continuous R-value	U-factor	Assembly Layers						
R-19 Wall	Exterior Walls	Wood Framed Wall	2x6 @ 16 in. O. C.	R-19	None / None	0.074	Inside Finish: Gypsum Board Cavity / Frame: R-19 in 5-1/2 in. (R-18) / 2x6 Exterior Finish: 3 Coat Stucco						

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CF1R-PRF-01-E
(Page 1 of 12)

GENERAL INFORMATION						
01	Project Name	Moreno Valley 1 Bed 18 ADU Base				
02	Run Title	Title 24 Analysis				
03	Project Location					
04	City	Moreno Valley	05	Standards Version	2022	
06	Zip code	92553	07	Software Version	EnergyPro 9.2	
08	Climate Zone	10	09	Front Orientation (deg/ Cardinal)	All orientations	
10	Building Type	Single family	11	Number of Dwelling Units	1	
12	Project Scope	Newly Constructed	13	Number of Bedrooms	1	
14	Addition Cond. Floor Area (ft²)	0	15	Number of Stories	1	
16	Existing Cond. Floor Area (ft²)	n/a	17	Fenestration Average U-factor	0.3	
18	Total Cond. Floor Area (ft²)	586	19	Glazing Percentage (%)	21.21%	
20	ADU Bedroom Count	n/a	21	ADU Conditioned Floor Area	n/a	
22	Fuel Type	Natural gas	23	No Dwelling Unit	No	
COMPLIANCE RESULTS						
01	Building Complies with Computer Performance					
02	This building incorporates features that require field testing and/or verification by a certified HERS rater under the supervision of a CEC-approved HERS provider.					
03	This building incorporates one or more Special Features shown below					

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CF1R-PRF-01-E
(Page 4 of 12)

ENERGY USE SUMMARY						
Energy Use	Standard Design Source Energy (EDR1) (kBtu/ft ² - yr)	Standard Design TDV Energy (EDR2) (kTDV/ft ² - yr)	Proposed Design Source Energy (EDR1) (kBtu/ft ² - yr)	Proposed Design TDV Energy (EDR2) (kTDV/ft ² - yr)	Compliance Margin (EDR1)	Compliance Margin (EDR2)
Space Heating	0.96	4.48	1.7	12.4	-0.74	-7.92
Space Cooling	1.8	37.98	1.46	34.73	0.34	3.25
IAQ Ventilation	0.42	4.45	0.42	4.45	0	0
Water Heating	3.19	32.43	1.89	21.93	1.3	10.5
Self Utilization/Flexibility Credit				0		0
South Facing Efficiency Compliance Total	6.37	79.34	5.47	73.51	0.9	5.83
Space Heating	0.96	4.48	1.94	14.23	-0.98	-9.75
Space Cooling	1.8	37.98	1.23	28.82	0.57	9.16
IAQ Ventilation	0.42	4.45	0.42	4.45	0	0
Water Heating	3.19	32.43	1.9	22.06	1.29	10.37
Self Utilization/Flexibility Credit				0		0
West Facing Efficiency Compliance Total	6.37	79.34	5.49	69.56	0.88	9.78

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CF1R-PRF-01-E
(Page 7 of 12)

ZONE INFORMATION						
01	02	03	04	05	06	07
Zone Name	Zone Type	HVAC System Name	Zone Floor Area (ft ²)	Avg. Ceiling Height (ft)	Water Heating System 1	Status
1 Bed 18 ADU	Conditioned	Mini Split1	586	9.4	DHW Sys 1	New
OPAQUE SURFACES						
01	02	03	04	05	06	07
Name	Zone	Construction	Azimuth	Orientation	Gross Area (ft ²)	Window and Door Area (ft2)
Front Wall	1 Bed 18 ADU	R-19 Wall	0	Front	160	29
Right Wall	1 Bed 18 ADU	R-19 Wall	270	Right	276	24
Back Wall	1 Bed 18 ADU	R-19 Wall	180	Back	160	9
Left Wall	1 Bed 18 ADU	R-19 Wall	90	Left	276	62.3
OPAQUE SURFACES - CATHEDRAL CEILINGS						
01	02	03	04	05	06	07
Name	Zone	Construction	Azimuth	Orientation	Area (ft ²)	Skylight Area (ft ²)
Roof (cath)	1 Bed 18 ADU	R-30 Roof No Attic	0	Front	586	0
FENESTRATION / GLAZING						
01	02	03	04	05	06	07
Name	Type	Surface	Orientation	Azimuth	Width (ft)	Height (ft)
Window A	Window	Front Wall	Front	0		
Fr Door 1	Window	Front Wall	Front	0		
Window (2) A	Window	Right Wall	Right	270		

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Report Generated: 2024-10-08 10:17:48

BUILDING ENERGY ANALYSIS REPORT											
PROJECT: Moreno Valley 1 Bed 18 ADU Base Moreno Valley , CA 92553 Project Designer: Design Path Studio P.O. Box 230165 Encinitas, CA 92023 Report Prepared by: Design Path Studio Job Number: Date: 10/8/2024											
The EnergyPro computer program has been used to perform the calculations summarized in this compliance report. This program has approval and is authorized by the California Energy Commission for use with both the Residential and Nonresidential 2022 Building Energy Efficiency Standards. This program developed by EnergySoft, LLC --- www.energysoft.com											

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CF1R-PRF-01-E
(Page 3 of 12)

ENERGY USE SUMMARY						
Energy Use	Standard Design Source Energy (EDR1) (kBtu/ft ² ·yr)	Standard Design TDV Energy (EDR2) (kTDV/ft ² ·yr)	Proposed Design Source Energy (EDR1) (kBtu/ft ² ·yr)	Proposed Design TDV Energy (EDR2) (kTDV/ft ² ·yr)	Compliance Margin (EDR1)	Compliance Margin (EDR2)
Space Heating	0.96	4.48	2.07	14.89	-1.11	-10.41
Space Cooling	1.8	37.98	1.31	30.63	0.49	7.35
IAQ Ventilation	0.42	4.45	0.42	4.45	0	0
Water Heating	3.19	32.43	1.9	22.02	1.29	10.41
Self Utilization/Flexibility Credit				0		0
North Facing Efficiency Compliance Total	6.37	79.34	5.7	71.99	0.67	7.35
Space Heating	0.96	4.48	1.63	11.73	-0.67	-7.25
Space Cooling	1.8	37.98	1.21	29.36	0.59	8.62
IAQ Ventilation	0.42	4.45	0.42	4.45	0	0
Water Heating	3.19	32.43	1.89	21.94	1.3	10.49
Self Utilization/Flexibility Credit				0		0
East Facing Efficiency Compliance Total	6.37	79.34	5.15	67.48	1.22	11.86

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

Project Name: Moreno Valley 1 Bed 18 ADU Base

Calculation Description: Title 24 Analysis

01	02	03	04	05	06	07	08
Construction Name	Surface Type	Construction Type	Framing	Total Cavity R-value	Interior / Exterior Continuous R-value	U-factor	Assembly Layers
8-30 Roof No Attic	Cathedral Ceilings	Wood Framed Ceiling	2x12 @ 24 in. O. C.	R-30	None / None	0.033	Roofing: 10 PSF (Roof/Tile/AirGap) Tile Gap: present Roof Deck: Wood Siding/heating/decking Cavity / Frame: R-30 / 2x12 Finish Inside: Gypsum Board

BUILDING ENVELOPE - HERS VERIFICATION

01	02	03	04	05	06	07	08
Qualify Insulation Installation (QII)	High R-value Spray Foam Insulation	Building Envelope Air Leakage	CFM50	CFM50			
Require	Not Required	N/A	n/a	n/a			n/a

WATER HEATING SYSTEMS

01	02	03	04	05	06	07	08	09
Name	System Type	Distribution Type	Water Heater Name	Number of Units	Solar Heating System	Compact Distribution	HERS Verification	Water Heater Name (H)
DHW Sys 1	Domestic Hot Water (DHW)	Standard	DHW Heater 1	1	n/a	None	n/a	DHW Heater 1 (1)

WATER HEATERS - NEEA HEAT PUMP

01	02	03	04	05	06	07	08
Name	# of Units	Tank Vol. (gal)	NEEA Heat Pump Brand	NEEA Heat Pump Model	Tank Location	Duct Inlet Air Source	Duct Outlet Air Source
DHW Heater 1	1	40	Rheem	PROF440 T2 RH37530 (40 gal, J413)	TankZone	1 Bed 18 ADU	1 Bed 18 ADU

Registration Number: 424-P010240587A-000-000-000000-0000

Registration Date/Time: 10/08/2024 10:18

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CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

Project Name: Moreno Valley 1 Bed 18 ADU Base

Calculation Description: Title 24 Analysis

01	02	03	04	05	06	07
Name	Pipe Insulation	Parallel Piping	Compact Distribution	Compact Distribution	Recirculation Control	Shower Drain Water Heat Recovery
DHW Sys 1 - 1/1	Not Required	Not Required	Not Required	None	Not Required	Not Required

SPACE CONDITIONING SYSTEMS

01	02	03	04	05	06	07	08	09
Name	System Type	Heating Unit Name	Heating Equipment Count	Cooling Unit Name	Cooling Equipment Count	Fan Name	Distribution Name	Required Thermostat Type
Mini Split1	Heat pump heating cooling	Heat Pump System 1	1	Heat Pump System 1	1	n/a	n/a	Setback

HVAC - HEAT PUMPS

01	02	03	04	05	06	07	08	09	10	11	12	13
Name	System Type	Number of Units	Heating Efficiency	HSPF/HSPF2/COP	Cap 47	Cap 17	Cooling Efficiency	SEER/SEER2	EER/ER 2/CEER	Zonally Controlled	Compressor Type	HERS Verification
Heat Pump System 1	VCHP-ductless	1	HSPF	8.2	18000	11160	EEERSEER	14	11.7	Not Zonal	Single Speed	Heat Pump System 1-herpump

HVAC HEAT PUMPS - HERS VERIFICATION

01	02	03	04	05	06	07	08	09
Name	Verified Airflow	Airflow Target	Verified EER/SEER2	Verified SEER/SEER2	Verified Refrigerant Charge	Verified HSPF/HSPF2	Verified Heating Cap 47	Verified Heating Cap 17
Heat Pump System 1-herpump	Not Required	0	Not Required	Not Required	Yes	No	Yes	Yes

Registration Number: 424-P010240587A-000-000-000000-0000

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project

City of Moreno
Valley Permitted
ADU Plan Set

revisions



description

Example Energy
Calculations

date

project no. 2024_Moreno ADU

drawn by

sheet no.

T24.3

2022 Single-Family Residential Mandatory Requirements Summary	
§ 150.0(a)	Energy Storage System (ESS) Ready. All single-family residences must meet all of the following: Either ESS-ready interconnection equipment with backed-up capacity of 60 amps or more and four or more ESS-supplied branch circuits, or a dedicated runway from the main service to a subpanel that supplies the branch circuits in § 150.0(a), at least four branch circuits must be identified and have their source calculated as a single panelboard suitable to be supplied by the ESS, with one circuit supplying the refrigerator, one lighting circuit near the primary exit, and one circuit supplying a sleeping room receptacle outlet; main panelboard must have a minimum busbar rating of 225 amps; sufficient space must be reserved to allow future installation of a system isolation equipmenttransfer switch within 3' of the main panelboard, with wiring installed between the panelboard and the switch location to allow the connection of feeding power above.
§ 150.0(i)	Heat Pump Space Heater Ready. Systems using gas or propane furnaces to serve individual dwelling units must include: A dedicated unswitched 240V branch circuit wiring installed within 3' of the furnace with circuit conductors rated at least 30 amps with the blank cover identified as "240V ready," and a reserved main electrical service panel space to allow for the installation of a double pole circuit breaker permanently marked as "For Future 240V use."
§ 150.0(ii)	Electric Cooktop Ready. Systems using gas or propane cooktop to serve individual dwelling units must include: A dedicated unswitched 240V branch circuit wiring installed within 3' of the cooktop with circuit conductors rated at least 30 amps with the blank cover identified as "240V ready," and a reserved main electrical service panel space to allow for the installation of a double pole circuit breaker permanently marked as "For Future 240V use."
§ 150.0(v)	Electric Clothes Dryer Ready. Clothes dryer locations with gas or propane plumbing to serve individual dwelling units must include: A dedicated unswitched 240V branch circuit wiring installed within 3' of the dryer location with circuit conductors rated at least 30 amps with the blank cover identified as "240V ready," and a reserved main electrical service panel space to allow for the installation of a double pole circuit breaker permanently marked as "For Future 240V use."

*Exceptions may apply.

HVAC SYSTEM HEATING AND COOLING LOADS SUMMARY												
Project Name Moreno Valley 1 Bed 1B ADU Base							Date 10/8/2024					
System Name Mini Split							Floor Area 586					
ENGINEERING CHECKS			SYSTEM LOAD									
Number of Systems						COIL COOLING PEAK		COIL HTG. PEAK				
Heating System						CFM	Sensible	Latent	CFM	HTG. PEAK		
Output per System			18,000			326		6,689	152	232		
Total Output (Btu/h)			18,000			Return Vented Lighting				8,731		
Output (Btu/h)(sqft)			357			Return Air Ducts				0		
Cooling System						Return Fan				0		
Output per System			18,000			Ventilation		0		0		
Total Output (Btu/h)			18,000			Supply Fan				0		
Total Output (Tons)			1.5			Supply Air Ducts				0		
Total Output (Btu/h)(ft)			357			TOTAL SYSTEM LOAD		6,689		152		
Total Output (cops)(Ton)			395.7							8,731		
Air System			HVAC EQUIPMENT SELECTION									
CFM per System						Fujitsu ACU18RLXFV9H9R2						
Airflow (cfm)			300			15,684				11,551		
Airflow (cops)(sqft)			0.61			Airflow (cops)(sqft)						
Airflow (cops)(sqft)			2094			Airflow (cops)(sqft)						
Outside Air (%)			0.0%			Total Adjusted System Output		15,684		96		
Outside Air (cops)(sqft)			0.00			(Adjusted for Peak Design conditions)				11,551		
Outside Air (cops)(sqft)												
Notes: values above shown at ARI conditions			TIME OF SYSTEM PEAK							Aug 2 PM		Jan 1 AM
HEATING SYSTEM PSYCHROMETRICS (Airstream Temperatures at Time of Heating Peak)												
COOLING SYSTEM PSYCHROMETRICS (Airstream Temperatures at Time of Cooling Peak)												