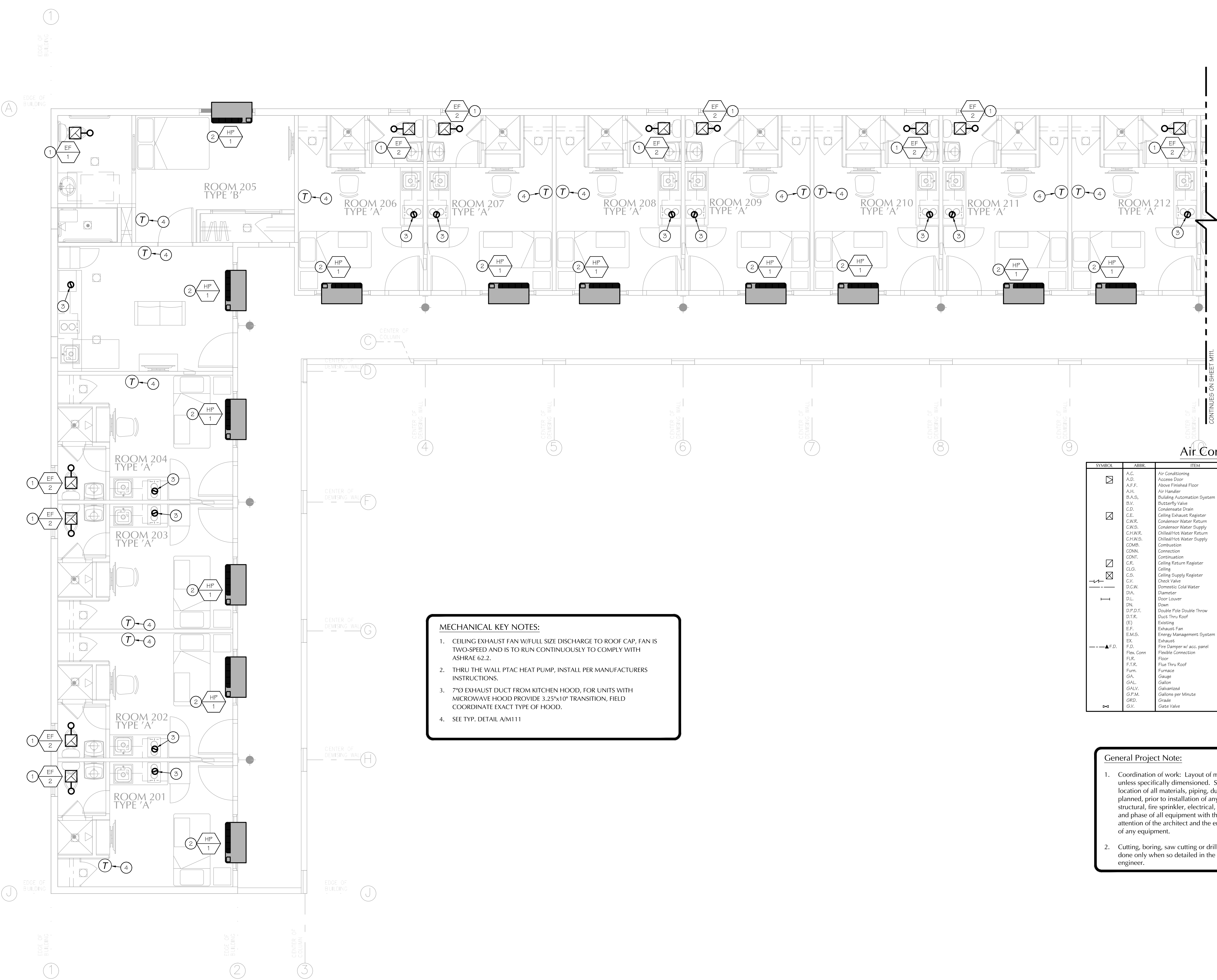




- MECHANICAL KEY NOTES:**
1. CEILING EXHAUST FAN W/FULL SIZE DISCHARGE TO ROOF CAP, FAN IS TWO-SPEED AND IS TO RUN CONTINUOUSLY TO COMPLY WITH ASHRAE 62.2.
 2. THRU THE WALL PTAC HEAT PUMP, INSTALL PER MANUFACTURERS INSTRUCTIONS.
 3. 7"Ø EXHAUST DUCT FROM KITCHEN HOOD, FOR UNITS WITH MICROWAVE HOOD PROVIDE 3.25"x10" TRANSITION, FIELD COORDINATE EXACT TYPE OF HOOD.
 4. SEE TYP. DETAIL A/M111

Air Conditioning Legend

SYMBOL	ABBR.	ITEM	SYMBOL	ABBR.	ITEM
	A.C.	Air Conditioning		H.W.R.	Heating Water Return
	A.D.	Access Door		H.W.S.	Heating Water Supply
	A.F.F.	Above Finished Floor		INT.	Internal
	A.H.	Air Handler		L.O.C.	Location
	B.A.S.	Building Automation System		M.O.	Motor Operated
	B.V.	Butterfly Valve		(N)	Normally Closed
	C.D.	Condensate Drain		N.C.	Not in Contract
	C.E.	Ceiling Exhaust Register		N.O.	Normally Open
	C.W.R.	Condenser Water Return		O.S.A.	Outside Air
	C.W.S.	Condenser Water Supply		O.B.D.	Opposed Blade Damper
	C.H.W.R.	Chilled/Hot Water Return		P.O.C.	Point of Connection
	C.H.W.S.	Chilled/Hot Water Supply		P.P.	Pressure Plug
	COMB.	Combustion		PROV.	Provide
	CONN.	Connection		P.R.V.	Pressure Reducing Valve
	CONT.	Continuation		SIM.	Similar
	C.R.	Ceiling Return Register		S.F.D.	Smoke / Fire Damper w/ access panel
	CL.G.	Ceiling		S.M.	Sheet Metal
	C.S.	Ceiling Supply Register		S.O.V.	Shut Off Valve
	C.V.	Check Valve		S.P.S.T.	Single Pole Single Throw Thermostat or Room Sensor
	D.C.W.	Domestic Cold Water		SURF.	Surface
	D.A.	Diameter		(TYP)	Typical
	D.L.	Door Louver		U.G.	Underground
	DN.	Down		U.N.O.	Unless Noted Otherwise
	D.P.D.T.	Double Pole Double Throw Duct Thru Roof		V.D.	Volume Damper
	D.T.R.	Duct Thru Roof		V.O.D.	Vol. Damper w/ Remote Operator
	(E)	Exhausting		W.	With
	E.F.	Exhaust Fan		W.R.	Wall Return Register
	E.M.S.	Energy Management System		W.S.	Wall Supply Register
	EX.	Exhaust		T.V.	Turning Vanes
	F.D.	Fire Damper w/ acc. panel			Extractor
	Flex. Conn.	Flexible Connection			CO2 SENSOR
	F.L.R.	Floor			Union
	F.T.R.	Flue Thru Roof			Reducer or Incoarser
	Furn.	Furnace			
	G.A.	Gauge			
	GAL.	Gallon			
	GALV.	Galvanized			
	G.P.M.	Gallons per Minute			
	GRD.	Grade			
	G.V.	Gate Valve			

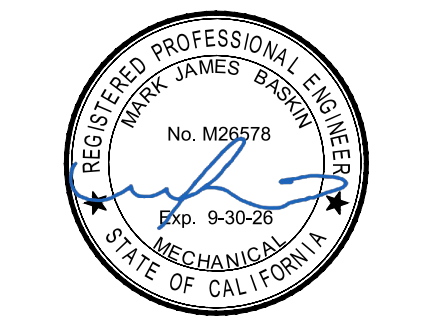
General Project Note:

1. Coordination of work: Layout of materials, equipment and systems is generally diagrammatic unless specifically dimensioned. Some work may be shown offset for clarity. The actual location of all materials, piping, ductwork, fixtures, equipment, supports, etc. shall be carefully planned, prior to installation of any work to avoid all interferences with each other, or with structural, fire sprinkler, electrical, architectural or other elements. Verify the proper voltage and phase of all equipment with the electrical plans. All conflicts shall be called to the attention of the architect and the engineer prior to the installation of any work or the ordering of any equipment.
2. Cutting, boring, saw cutting or drilling through the new or existing structural elements to be done only when so detailed in the drawings or accepted by the Architect and Structural engineer.

SF_A
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Plt: 12-02-25



ADAPTIVE REUSE AND APARTMENT CONVERSION FOR UNHOUSED VETERANS IN COLLABORATION WITH:

capk
Community Action Partnership of Kern
b
BAKERSFIELD

901 UNION AVE
BUILDING 200
BAKERSFIELD, CALIFORNIA

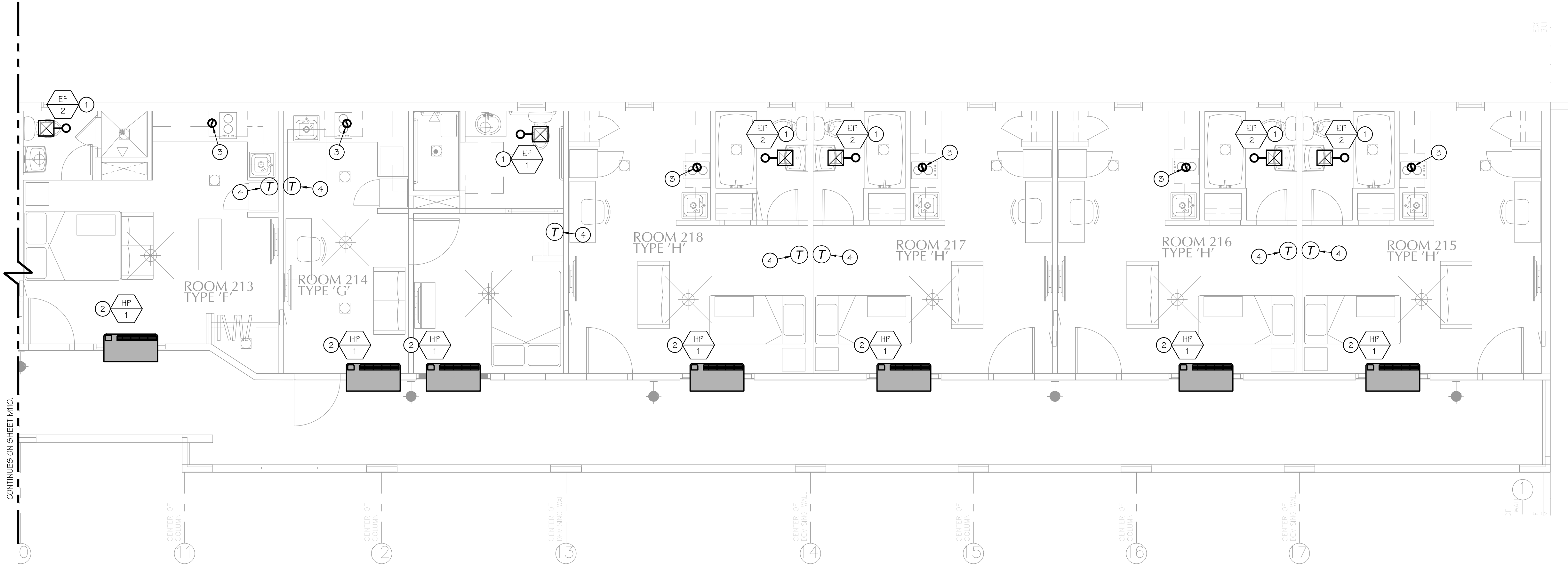
DATE	ISSUED FOR

REVISION	DESCRIPTION

JOB	M110
DP	
PM	

BUILDING 200

PARTIAL MECHANICAL FLOOR PLAN
SCALE: 1/4"=1'-0"



PARTIAL MECHANICAL FLOOR PLAN

SCALE: 1/4"=1'-0"

MECHANICAL KEY NOTES:

1. CEILING EXHAUST FAN W/FULL SIZE DISCHARGE TO ROOF CAP, FAN IS TWO-SPEED AND IS TO RUN CONTINUOUSLY TO COMPLY WITH ASHRAE 62.2.
2. THRU THE WALL PTAC HEAT PUMP, INSTALL PER MANUFACTURERS INSTRUCTIONS.
3. 7"Ø EXHAUST DUCT FROM KITCHEN HOOD, FOR UNITS WITH MICROWAVE HOOD PROVIDE 3.25"x10" TRANSITION, FIELD COORDINATE EXACT TYPE OF HOOD.
4. SEE TYP. DETAIL A/M111

EQUIPMENT SCHEDULE

EF-1

Greenheck SP-AP0511W-1 Ceiling Mounted Exhaust Fan. 100 CFM @ 0.12" E.S.P., 880 RPM, 1.50 sones on high speed. Fan shall operate on high speed whenever the occupant sensor or humidity sensor is activated. Fan shall continue operation at high speed for an additional twenty minutes after occupant or humidity sensor is satisfied. Fan shall be set to automatically reduce airflow to 45 CFM at all other periods. Minimum fan operation to be 45 CFM continuous. Provide with backdraft damper, and connect full size discharge to roof vent cap. Complete with 2-speed capability with time delay, motor rated for continuous use, grille mounted motion detector (field installed), integrated humidity sensor (field installed), Energy Star most Efficient rating, NEMA-1 toggle switch.

Electrical: 0.29A @ 115v-1ph.

Operating Weight: 10 Lbs.

EF-2

Greenheck SP-AP0511W-1 Ceiling Mounted Exhaust Fan. 75 CFM @ 0.12" E.S.P., 817 RPM, 1.20 sones on high speed. Fan shall operate on high speed whenever the occupant sensor or humidity sensor is activated. Fan shall continue operation at high speed for an additional twenty minutes after occupant or humidity sensor is satisfied. Fan shall be set to automatically reduce airflow to 45 CFM at all other periods. Minimum fan operation to be 45 CFM continuous. Provide with backdraft damper, and connect full size discharge to roof vent cap. Complete with 2-speed capability with time delay, motor rated for continuous use, grille mounted motion detector (field installed), integrated humidity sensor (field installed), Energy Star most Efficient rating, NEMA-1 toggle switch.

Electrical: 0.29A @ 115v-1ph.

Operating Weight: 10 Lbs.

PACKAGE HEAT PUMP SCHEDULE

DESIGNATION	HP-1
VOLTS/PHASE	208 / 1
AMPS	3.2
MCA/MOCP (AMPS)	3.7 / 15
SEER / EER @ ARI	12.0

BLOWER

SUPPLY AIR (CFM)	330
EXT. S P (IN. WC)	0.00
MIN. O.S.A. (CFM)	65 (VENT MODE)
HP/BHP	0.07 / --
RPM	1050
DRIVE	DIRECT

COOLING

TOTAL (MBH)	7.0
EADB/EAWB (°F)	80 / 67
AMBIENT AIR (°F)	95

HEATING

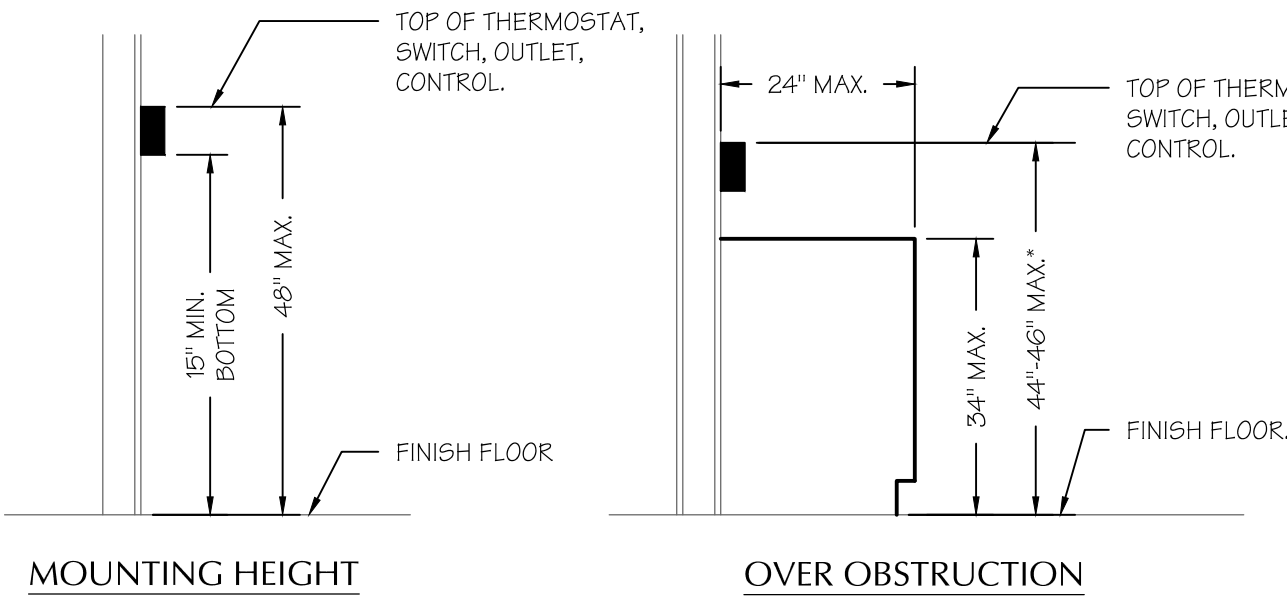
CAPACITY (MBH)	6.1
COP	3.7

FILTER

QUANTITY/SIZE (RETURN)	
TYPE	MERV 6

MANUFACTURER	AMANA
TYPE	PTAC
MODEL NUMBER	PTH073J R32
LOCATION	WALL MOUNTED
OPER. WT (LBS)	96
ACCESSORIES	1, 2, 3, 4

1. MOUNTING KIT, SOUND INSULATION WALL SLEEVE VERIFY WALL THICKNESS PRIOR TO ORDERING.
2. ALUMINUM EXTERIOR WALL GRILLE, QW WHITE
3. CONDENSATE DRAIN KIT
4. HARDWIRE THERMOSTAT KIT w/ PELICAN TCI WI-FI THERMOSTAT.



THERMOSTAT LOCATION DETAIL

SCALE: NTS

A

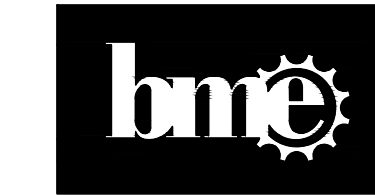


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Pit: 12-02-25



ADAPTIVE REUSE
AND APARTMENT
CONVERSION FOR
UNHOUSED
VETERANS IN
COLLABORATION
WITH:



901 UNION AVE
BUILDING 200
BAKERSFIELD, CALIFORNIA

DATE	ISSUED FOR

REVISION	DESCRIPTION

JOB	M111
DP	
PM	

BUILDING 200

STATE OF CALIFORNIA

Mechanical Systems

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-MCH-E

This document is used to demonstrate compliance for mechanical systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.4, or §141.0(b)2 for alterations.

Project Name:Adaptive Reuse and Apartment Conversion For Unhoused Veterans

Report Page:(Page 1 of 47)

Project Address:Building 200 901 Union Ave

Date Prepared:9/30/2026

A. GENERAL INFORMATION				
01	Project Location (city)	Bakersfield	04	Total Conditioned Floor Area
02	Climate Zone	13	05	Total Unconditioned Floor Area
03	Occupancy Types Within Project:		06	# of Stories (Habitable Above Grade)
* Hotel/Motel				

B. PROJECT SCOPE

This table includes mechanical systems or components that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.4, §170.2(b) or §141.0(b)2 and §180.2(b)2 for alterations.

01

02

03

Air System(s)

Wet System Components

Dry System Components

☒ Heating Air System

☐ Water Economizer

☐ Air Economizer

☒ Cooling Air System

☐ Pumps

☐ Electric Resistance Heat

☐ Ventilation (including DOAS, ERV, HRV systems)

☐ System Piping

☒ Fan Systems

Mechanical Controls

☐ Cooling Towers

☐ Ductwork (existing to remain, altered or new)

☐ Chillers

☒ Mechanical Controls (existing to remain, altered or new)

☐ Boilers

☐ Zonal Systems/ Terminal Boxes

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STATE OF CALIFORNIA

Mechanical Systems

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-MCH-E

Project Name:Adaptive Reuse and Apartment Conversion For Unhoused Veterans

Report Page:(Page 4 of 47)

Date Prepared:9/30/2026

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)																
Dry System Equipment Sizing (includes air conditioners, condensers, heat pumps, VRF, furnaces and unit heaters and DOAS systems)																
01	02	03	04	05	06	07	08	09	10	11						
Name or Item Tag	Equipment Category per Tables 110.2, §140.4(a)2 and 170.2(c)3a(i)	Equipment Type per Tables 110.2 and Title 20	Smallest Size Available ¹ §140.4(a) and §170.2(c)1	Equipment Sizing per Mechanical Schedule (kBtu/h) §140.4(a&b), §170.2(c)1 & §170.2(c)2			Cooling Output ^{2,3}	Sensible Per Design (kBtu/h)	Rated (kBtu/h)	Total Heating Load (kBtu/h)	Total Sensible Cooling Load (kBtu/h)					
				Heating Output ^{2,3}												
				Per Design (kBtu/h)	Rated (kBtu/h)	Supp. Heating Output (kBtu/h)										
HP1-201	PTAC/ PTHP	PTHP newly constructed or newly conditioned space	NA: Altered per §141.0(b)2E and §180.2(b)2	4.37	7	0	6.27	5.6	7.62	4.52						
HP1-202	PTAC/ PTHP	PTHP newly constructed or newly conditioned space	NA: Altered per §141.0(b)2E and §180.2(b)2	4.37	7	0	6.26	5.6	6.86	4.09						
HP1-203	PTAC/ PTHP	PTHP newly constructed or newly conditioned space	NA: Altered per §141.0(b)2E and §180.2(b)2	4.37	7	0	6.26	5.6	6.86	4.09						
HP1-204	PTAC/ PTHP	PTHP newly constructed or newly conditioned space	NA: Altered per §141.0(b)2E and §180.2(b)2	4.37	7	0	6.26	5.6	6.86	4.09						
HP1-205A, B	PTAC/ PTHP	PTHP newly constructed or newly conditioned space	NA: Altered per §141.0(b)2E and §180.2(b)2	8.74	7	0	11.93	5.6	11.42	8.3						
HP1-206	PTAC/ PTHP	PTHP newly constructed or newly conditioned space	NA: Altered per §141.0(b)2E and §180.2(b)2	4.37	7	0	6.28	5.6	7.1	4.86						
HP1-207	PTAC/ PTHP	PTHP newly constructed or newly conditioned space	NA: Altered per §141.0(b)2E and §180.2(b)2	4.37	7	0	6.28	5.6	6.86	4.72						

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STATE OF CALIFORNIA

Mechanical Systems

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-MCH-E

Project Name:Adaptive Reuse and Apartment Conversion For Unhoused Veterans

Report Page:(Page 7 of 47)

Date Prepared:9/30/2026

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)											
Dry system Equipment Efficiency (Package Terminal Air Conditioners (PTAC) and Package Terminal Heat Pumps (PTHP) only)											
01	02	03	04	05	06	07					
Name or Item Tag	Rated Output Capacity (kBtu/h)	Heating Mode		Rated Output Capacity (kBtu/h)	Cooling Mode						
		Minimum COP Required per Table 110.2-E	Design COP			Design EER					
HP1-207	7	FederalMinimum	3.7	7		12					
HP1-208	7	FederalMinimum	3.7	7		12					
HP1-209	7	FederalMinimum	3.7	7		12					
HP1-210	7	FederalMinimum	3.7	7		12					
HP1-211	7	FederalMinimum	3.7	7		12					
HP1-212	7	FederalMinimum	3.7	7		12					
HP1-213	7	FederalMinimum	3.7	7		12					
HP1-214	7	FederalMinimum	3.7	7		12					
HP1-215	7	FederalMinimum	3.7	7		12					
HP1-216	7	FederalMinimum	3.7	7		12					
HP1-217	7	FederalMinimum	3.7	7		12					

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Project Name:Adaptive Reuse and Apartment Conversion For Unhoused Veterans

Report Page:(Page 2 of 47)

Date Prepared:9/30/2026

C. COMPLIANCE RESULTS

Table C will indicate if the project data input into the compliance document is compliant with mechanical requirements. This table is not editable by the user. If this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D, or the table indicated as not compliant for guidance.

01

02

03

04

05

06

07

08

09

System Summary

AND

Pumps

AND

Fans/Economizers

AND

System Controls

AND

Ventilation

AND

Terminal Box Controls

AND

Distribution

AND

Cooling Towers

Compliance Results

(See Table F)

(See Table G)

(See Table H)

(See Table I)

(See Table J)

(See Table K)

(See Table L)

(See Table M)

Yes

AND

AND

Yes

AND

Yes

AND

Yes

AND

AND

AND

COMPLIES

Mandatory Measures Compliance (See Table Q for Details)

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Space Conditioning System Information

01

02

03

04

05

06

System Name

Quantity

System Serving

System Status

Space Type

Utilizing Recovered Heat

HP1-201	1	Single zone	Alteration	All Other Occupancies	☐
HP1-202	1	Single zone	Alteration	All Other Occupancies	☐
HP1-203	1	Single zone	Alteration	All Other Occupancies	☐

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STATE OF CALIFORNIA

Mechanical Systems

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-MCH-E

Project Name:Adaptive Reuse and Apartment Conversion For Unhoused Veterans

Report Page:(Page 5 of 47)

Date Prepared:9/30/2026

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)											
Dry System Equipment Sizing (includes air conditioners, condensers, heat pumps, VRF, furnaces and unit heaters and DOAS systems)											
01	02	03	04	05	06	07	08	09	10	11	
HP1-208	PTAC/ PTHP	PTHP newly constructed or newly conditioned space	NA: Altered per §141.0(b)2E and §180.2(b)2	4.37	7	0	6.28	5.6	6.86	4.72	
HP1-209	PTAC/ PTHP	PTHP newly constructed or newly conditioned space	NA: Altered per §141.0(b)2E and §180.2(b)2	4.37	7	0	6.28	5.6	6.86	4.72	
HP1-210	PTAC/ PTHP	PTHP newly constructed or newly conditioned space	NA: Altered per §141.0(b)2E and §180.2(b)2	4.37	7	0	6.28	5.6	6.86	4.72	
HP1-211	PTAC/ PTHP	PTHP newly constructed or newly conditioned space	NA: Altered per §141.0(b)2E and §180.2(b)2	4.37	7	0	6.28	5.6	6.86	4.72	
HP1-212	PTAC/ PTHP	PTHP newly constructed or newly conditioned space	NA: Altered per §141.0(b)2E and §180.2(b)2	4.37	7	0	6.28	5.6	6.86	4.72	
HP1-213	PTAC/ PTHP	PTHP newly constructed or newly conditioned space	NA: Altered per §141.0(b)2E and §180.2(b)2	4.37	7	0	6.28	5.6	7.42	5.76	
HP1-214	PTAC/ PTHP	PTHP newly constructed or newly conditioned space	NA: Altered per §141.0(b)2E and §180.2(b)2	8.74	7	0	11.69	5.6	8.29	6.9	
HP1-215	PTAC/ PTHP	PTHP newly constructed or newly conditioned space	NA: Altered per §141.0(b)2E and §180.2(b)2	4.37	7	0	6.29	5.6	9.01	6.31	
HP1-216	PTAC/ PTHP	PTHP newly constructed or newly conditioned space	NA: Altered per §141.0(b)2E and §180.2(b)2	4.37	7	0	6.28	5.6	7.29	5.85	
HP1-217	PTAC/ PTHP	PTHP newly constructed or newly conditioned space	NA: Altered per §141.0(b)2E and §180.2(b)2	4.37	7	0	6.28	5.6	7.29	5.85	

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STATE OF CALIFORNIA

Mechanical Systems

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NRCC-MCH-E

Project Name:Adaptive Reuse and Apartment Conversion For Unhoused Veterans

Report Page:(Page 8 of 47)

Date Prepared:9/30/2026

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)																
Dry system Equipment Efficiency (Package Terminal Air Conditioners (PTAC) and Package Terminal Heat Pumps (PTHP) only)																
01	02	03	04	05	06	07										
Name or Item Tag	Rated Output Capacity (kBtu/h)	Heating Mode		Rated Output Capacity (kBtu/h)	Cooling Mode											
		Minimum COP Required per Table 110.2-E	Design COP			Design EER										
HP1-218	7	FederalMinimum	3.7	7		12										
Mechanical Heat Recovery§140.4(s)																
01	02	03	04	05	06	07										
Name or Item Tag	Coincident Peak Cooling Load of All High Load Spaces (kBtu/h)	Design Capacity of All Mechanical Cooling Systems ² (kBtu/h)	Design Capacity of All Service Water Heating Systems ¹ (kBtu/h)	Design Capacity for all space heating systems (kBtu/h)	Simultaneous Mechanical Heat Recovery											

¹ FOOTNOTES: Excluding systems expected to operate less than 5 hours per week.
² FOOTNOTES: If the design includes capacity for future cooling systems, then assume 20% of future systems serve high load spaces.

G. PUMPS

This section does not apply to this project.

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Project Name:Adaptive Reuse and Apartment Conversion For Unhoused Veterans

Report Page:(Page 3 of 47)

Date Prepared:9/30/2026

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Space Conditioning System Information

01

02

03

04

05

06

System Name

Quantity

System Serving

System Status

Space Type

Utilizing Recovered Heat

HP1-204	1	Single zone	Alteration	All Other Occupancies	☐
HP1-205A, B	2	Single zone	Alteration	All Other Occupancies	☐
HP1-206	1	Single zone	Alteration	All Other Occupancies	☐
HP1-207	1	Single zone	Alteration	All Other Occupancies	☐
HP1-208	1	Single zone	Alteration	All Other Occupancies	☐
HP1-209	1	Single zone	Alteration	All Other Occupancies	☐
HP1-210	1	Single zone	Alteration	All Other Occupancies	☐
HP1-211	1	Single zone	Alteration	All Other Occupancies	☐
HP1-212	1	Single zone	Alteration	All Other Occupancies	☐
HP1-213	1	Single zone	Alteration	All Other Occupancies	☐
HP1-214	2	Single zone	Alteration	All Other Occupancies	☐
HP1-215	1	Single zone	Alteration	All Other Occupancies	☐
HP1-216	1	Single zone	Alteration	All Other Occupancies	☐
HP1-217	1	Single zone	Alteration	All Other Occupancies	☐
HP1-218	1	Single zone	Alteration	All Other Occupancies	☐

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Report Page:(Page 6 of 47)

Date Prepared:9/30/2026

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)											
Dry System Equipment Sizing (includes air conditioners, condensers, heat pumps, VRF, furnaces and unit heaters and DOAS systems)											
01	02	03	04	05	06	07	08	09	10	11	
HP1-218	PTAC/ PTHP	PTHP newly constructed or newly conditioned space	NA: Altered per §141.0(b)2E and §180.2(b)2	4.37	7	0	6.28	5.6	7.29	5.85	

¹FOOTNOTES: Equipment shall be the smallest size, within the available options of the desired equipment line, necessary to meet the design heating and cooling loads of the building per §140.4(a) and §170.2(c)1. Healthcare facilities are exempted.
²It is common practice to show rated output capacity on the equipment schedule. Sensible cooling output comes from specification sheet tables.
³ If equipment is heating only, leave cooling output and load blank. If equipment is cooling only, leave heating output and load blank.
⁴ Authority Having Jurisdiction may ask for load calculations used for compliance per §140.4(b) and §170.2(c).

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Table F will indicate if the project data input into the compliance document is compliant with mechanical requirements. This table is not editable by the user. If this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D, or the table indicated as not compliant for guidance.

01

02

03

04

05

06

07

08

09

10

11

Name or Item Tag

Rated Output Capacity (kBtu/h)

Minimum COP Required per Table 110.2-E

Design COP

Rated Output Capacity (kBtu/h)

Design EER

| HP1-201 | 7 | FederalMinimum | 3.7 | 7 | | 12</ |

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H. FAN SYSTEMS & AIR ECONOMIZERS															
System Name	HP1-202	Quantit y	1	Fan System Status	Alteration	System Zoning	all other systems	Serving Dwelling Units?	Not Serving Dwelling Units	Fan System Airflow (cfm)	330	Site Elevation	475	Economizer	NA: <=33 kBTu/h cooling
01	02	03	04			05		06	07	08	09			10	11
Fan Name or Item Tag	Fan Type	Qty	Component			Airflow through Component (%)	Water Gauge (w.g)	Allowance		Design					Fan Electrical Input Power (kW)
								Component Allowance (watt/cfm)	Fan Allowance (watt/cfm) ³	Manufacturer provided					
SF	Supply	1	BaseAllowanceLT6Floors			100		0.23	Manufacturer provided					0.09	
MERV 13-16 Filter upstream of thermal conditioning equipment			100		0.14										
Hydronic/DX cooling coil or heat pump coil			100		0.14										
Altered-Supply Fan System			100		0.14										
Supply Fan Base Allowance (watt/cfm)		0.65	Exhaust/Return/Relief/Transfer Fan Base Allowance(watt/cfm)				0	Fan System Allowance (kW) ³		0.21		Fan System Electrical Input Power (kW)		0.09	

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H. FAN SYSTEMS & AIR ECONOMIZERS																			
System Name	HP1-205A, B	Quantit y	2	Fan System Status	Alteration	System Zoning	all other systems	Serving Dwelling Units?	Not Serving Dwelling Units	Fan System Airflow (cfm)	660	Site Elevation	475	Economizer	NA: <=33 kBTu/h cooling				
01	02	03	04			05		06	07	08	09			10	11				
Fan Name or Item Tag	Fan Type	Qty	Component			Airflow through Component (%)	Water Gauge (w.g)	Allowance		Design					Fan Electrical Input Power (kW)				
								Component Allowance (watt/cfm)	Fan Allowance (watt/cfm) ³	Design Electrical Input Power Method			Motor Nameplate Horsepower						
								BaseAllowanceLT6Floors					100	0.23		Manufacturer provided			0.09
								MERV 13-16 Filter upstream of thermal conditioning equipment					100	0.14					
								Hydronic/DX cooling coil or heat pump coil					100	0.14					
								Altered:Supply Fan System					100	0.14					
Supply Fan Base Allowance (watt/cfm)		0.65	Exhaust/Return/Relief/Transfer Fan Base Allowance(watt/cfm)				0	Fan System Allowance (kW) ³		0.43	Fan System Electrical Input Power (kW)		0.17						

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H. FAN SYSTEMS & AIR ECONOMIZERS															
System Name	HP1-208	Quantit y	1	Fan System Status	Alteration	System Zoning	all other systems	Serving Dwelling Units?	Not Serving Dwelling Units	Fan System Airflow (cfm)	330	Site Elevation	475	Economizer	NA: <=33 kBTu/h cooling
01	02	03	04			05		06	07	08	09			10	11
Fan Name or Item Tag	Fan Type	Qty	Component			Airflow through Component (%)	Water Gauge (w.g)	Allowance		Design					Fan Electrical Input Power (kW)
								Component Allowance (watt/cfm)	Fan Allowance (watt/cfm) ³	Design Electrical Input Power Method					
								Manufacturer provided					0.09		
SF	Supply	1	BaseAllowanceLT6Floors			100		0.23	Manufacturer provided					0.09	
MERV 13-16 Filter upstream of thermal conditioning equipment			100		0.14										
Hydronic/DX cooling coil or heat pump coil			100		0.14										
Altered:Supply Fan System			100		0.14										
Supply Fan Base Allowance (watt/cfm)		0.65	Exhaust/Return/Relief/Transfer Fan Base Allowance(watt/cfm)					0	Fan System Allowance (kW) ³		0.21	Fan System Electrical Input Power (kW)		0.09	

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H. FAN SYSTEMS & AIR ECONOMIZERS																
System Name	HP1-203	Quantit y	1	Fan System Status	Alteration	System Zoning	all other systems	Serving Dwelling Units?	Not Serving Dwelling Units	Fan System Airflow (cfm)	330	Site Elevation	475	Economizer	NA: <=33 kBTu/h cooling	
01	02	03	04			05		06	07	08	09			10	11	
Fan Name or Item Tag	Fan Type	Qty	Component			Airflow through Component (%)	Water Gauge (w.g)	Allowance		Design					Motor Nameplate Horsepower	Fan Electrical Input Power (kW)
								Component Allowance (watt/cfm)	Fan Allowance (watt/cfm) ³	Design Electrical Input Power Method						
SF	Supply	1	BaseAllowanceLT6Floors			100		0.23	Manufacturer provided			0.09				
MERV 13-16 Filter upstream of thermal conditioning equipment			100	0.14												
Hydronic/DX cooling coil or heat pump coil			100	0.14												
Altered:Supply Fan System			100	0.14												
Supply Fan Base Allowance (watt/cfm)		0.65	Exhaust/Return/Relief/Transfer Fan Base Allowance(watt/cfm)					0	Fan System Allowance (kW) ³		0.21		Fan System Electrical Input Power (kW)		0.09	

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H. FAN SYSTEMS & AIR ECONOMIZERS																
System Name	HP1-206	Quantit y	1	Fan System Status	Alteration	System Zoning	all other systems	Serving Dwelling Units?	Not Serving Dwelling Units	Fan System Airflow (cfm)	330	Site Elevation	475	Economizer	NA: <=33 kBTu/h cooling	
01	02	03	04			05		06	07	08	09			10	11	
Fan Name or Item Tag	Fan Type	Qty	Component			Airflow through Component (%)	Water Gauge (w.g)	Allowance		Design					Motor Nameplate Horsepower	Fan Electrical Input Power (kW)
								Component Allowance (watt/cfm)	Fan Allowance (watt/cfm) ³	Design Electrical Input Power Method						
SF	Supply	1	BaseAllowanceLT6Floors			100		0.23	Manufacturer provided			0.09				
MERV 13-16 Filter upstream of thermal conditioning equipment			100		0.14											
Hydronic/DX cooling coil or heat pump coil			100		0.14											
Altered:Supply Fan System			100		0.14											
Supply Fan Base Allowance (watt/cfm)		0.65	Exhaust/Return/Relief/Transfer Fan Base Allowance(watt/cfm)				0	Fan System Allowance (kW) ³		0.21	Fan System Electrical Input Power (kW)		0.09			

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H. FAN SYSTEMS & AIR ECONOMIZERS															
System Name	HP1-209	Quantity	1	Fan System Status	Alteration	System Zoning	all other systems	Serving Dwelling Units?	Not Serving Dwelling Units	Fan System Airflow (cfm)	330	Site Elevation	475	Economizer	NA: <=33 kbtu/h cooling
01	02	03	04			05		06	07	08	09			10	11
Fan Name or Item Tag	Fan Type	Qty	Component			Airflow through Component (%)	Water Gauge (w.g)	Allowance		Design					
								Component Allowance (watt/cfm)	Fan Allowance (watt/cfm) ¹	Design Electrical Input Power Method			Motor Nameplate Horsepower	Fan Electrical Input Power (kW)	
SF	Supply	1	BaseAllowance/TE6Floors			100		0.23	Manufacturer provided					0.09	
			MERV 13-16 Filter upstream of thermal conditioning equipment			100	0.14								
			Hydronic/DX cooling coil or heat pump coil			100	0.14								
			Altered-Supply Fan System			100	0.14								
Supply Fan Base Allowance (watt/cfm)		0.65	Exhaust/Return/Relief/transfer Fan Base Allowance(watt/cfm)				0	Fan System Allowance (kW) ¹		0.21	Fan System Electrical Input Power (kW)			0.09	

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H. FAN SYSTEMS & AIR ECONOMIZERS															
System Name	HP1-211	Quantit y	1	Fan System Status	Alteration	System Zoning	all other systems	Serving Dwelling Units?	Not Serving Dwelling Units	Fan System Airflow (cfm)	330	Site Elevation	475	Economizer	NA: <=33 kBTU/h cooling
01	02	03	04			05		06	07	08	09			10	11
Fan Name or Item Tag	Fan Type	Qty	Component			Airflow through Component (%)	Water Gauge (w.g)	Allowance		Design				Fan Electrical Input Power (kW)	
								Component Allowance (watt/cfm)	Fan Allowance (watt/cfm) ³	Design Electrical Input Power Method					
SF	Supply	1	BaseAllowanceT66floors			100		0.23	Manufacturer provided				0.09		
			MERV 13-16 Filter upstream of thermal conditioning equipment			100		0.14							
			Hydronic/DX cooling coil or heat pump coil			100		0.14							
			Altered-Supply Fan System			100		0.14							
Supply Fan Base Allowance (watt/cfm)		0.65	Exhaust/Return/Relief/Transfer Fan Base Allowance(watt/cfm)				0	Fan System Allowance (kW) ³			0.21	Fan System Electrical Input Power (kW)		0.09	

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H. FAN SYSTEMS & AIR ECONOMIZERS															
System Name	HP1-214	Quantit y	2	Fan System Status	Alteration	System Zoning	all other systems	Serving Dwelling Units?	Not Serving Dwelling Units	Fan System Airflow (cfm)	660	Site Elevation	475	Economizer	NA: <=33 kBTu/h cooling
01	02	03	04			05		06	07	08	09		10		11
Fan Name or Item Tag	Fan Type	Qty	Component			Airflow through Component (%)	Water Gauge (w.g)	Allowance		Design					
								Component Allowance (watt/cfm)	Fan Allowance (watt/cfm) ¹	Design Electrical Input Power Method				Motor Nameplate Horsepower	Fan Electrical Input Power (kW)
SF	Supply	2	BaseAllowanceT66Floors			100		0.23	Manufacturer provided					0.09	
			MERV 13-16 Filter upstream of thermal conditioning equipment			100		0.14							
			Hydronic/DX cooling coil or heat pump coil			100		0.14							
			Altered-Supply Fan System			100		0.14							
Supply Fan Base Allowance (watt/cfm)		0.65	Exhaust/Return/Relief/Transfer Fan Base Allowance(watt/cfm)					0	Fan System Allowance (kW) ¹		0.43	Fan System Electrical Input Power (kW)		0.17	

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H. FAN SYSTEMS & AIR ECONOMIZERS															
System Name	HP1-217	Quantit y	1	Fan System Status	Alteration	System Zoning	all other systems	Serving Dwelling Units?	Not Serving Dwelling Units	Fan System Airflow (cfm)	330	Site Elevation	475	Economizer	NA: <=33 kBTU/h cooling
01	02	03	04			05		06	07	08	09		10		11
Fan Name or Item Tag	Fan Type	Qty	Component			Airflow through Component (%)	Water Gauge (w.g)	Allowance		Design				Fan Electrical Input Power (kW)	
								Component Allowance (watt/cfm)	Fan Allowance (watt/cfm) ¹	Design Electrical Input Power Method					
SF	Supply	1	BaseAllowanceTE6Floors			100		0.23	Manufacturer provided			0.09			
			MERV 13-16 Filter upstream of thermal conditioning equipment			100		0.14							
			Hydronic/DX cooling coil or heat pump coil			100		0.14							
			Altered:Supply Fan System			100		0.14							
Supply Fan Base Allowance (watt/cfm)		0.65	Exhaust/Return/Relief/Transfer Fan Base Allowance(watt/cfm)					0	Fan System Allowance (kW) ³		0.21	Fan System Electrical Input Power (kW)		0.09	

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H. FAN SYSTEMS & AIR ECONOMIZERS															
System Name	HP1-212	Quantit y	1	Fan System Status	Alteration	System Zoning	all other systems	Serving Dwelling Units?	Not Serving Dwelling Units	Fan System Airflow (cfm)	330	Site Elevation	475	Economizer	NA: <=33 kBTu/h cooling
01	02	03	04			05	06		07	08	09		10		11
Fan Name or Item Tag	Fan Type	Qty	Component			Airflow through Component (%)	Water Gauge (w.g)	Allowance		Design				Motor Nameplate Horsepower	Fan Electrical Input Power (kW)
								Component Allowance (watt/cfm)	Fan Allowance (watt/cfm) ¹	Design Electrical Input Power Method					
SF	Supply	1	BaseAllowanceLTE6Floors			100		0.23	Manufacturer provided				0.09		
			MERV 13-16 Filter upstream of thermal conditioning equipment			100		0.14							
			Hydronic/DX cooling coil or heat pump coil			100		0.14							
			Altered:Supply Fan System			100		0.14							
Supply Fan Base Allowance (watt/cfm)		0.65	Exhaust/Return/Relief/Transfer Fan Base Allowance(watt/cfm)					0	Fan System Allowance (kW) ³		0.21			Fan System Electrical Input Power (kW)	

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H. FAN SYSTEMS & AIR ECONOMIZERS															
System Name	HP1-215	Quantit y	1	Fan System Status	Alteration	System Zoning	all other systems	Serving Dwelling Units?	Not Serving Dwelling Units	Fan System Airflow (cfm)	330	Site Elevation	475	Economizer	NA: <=33 kbtu/h cooling
01	02	03	04			05		06	07	08	09		10		11
Fan Name or Item Tag	Fan Type	Qty	Component			Airflow through Component (%)	Water Gauge (w.g)	Allowance		Design				Fan Electrical Input Power (kW)	
								Component Allowance (watt/cfm)	Fan Allowance (watt/cfm) ¹	Design Electrical Input Power Method		Motor Nameplate Horsepower			
SF	Supply	1	BaseAllowance/TE6Floors			100		0.23	Manufacturer provided				0.09		
			MERV 13-16 Filter upstream of thermal conditioning equipment			100	0.14								
			Hydronic/DX cooling coil or heat pump coil			100	0.14								
			Altered-Supply Fan System			100	0.14								
Supply Fan Base Allowance (watt/cfm)		0.65	Exhaust/Return/Relief/Transfer Fan Base Allowance(watt/cfm)					0	Fan System Allowance (kW) ¹		0.21	Fan System Electrical Input Power (kW)		0.09	

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Fan Energy Index (FEI)			
HP1-216		None Applies	1
HP1-217		None Applies	1
HP1-218		None Applies	1

I. SYSTEM CONTROLS											
This table is used to demonstrate compliance with mandatory controls in §110.2 and §120.2 and prescriptive controls in §140.4(f) and (n), §170.2(c)(4D) §170.2(c)(4L) or requirements in §141.0(b)(2E) §180.2(b)(2) for altered space conditioning systems.											
01	02	03	04	05	06	07	08	09	10	11	12
System Name	System Zoning	Conditioned Floor Area Being Served (ft²)	Thermostats §110.2(b) & (c)¹, §120.2(a) or §160.3(b)(8) or §141.0(b)(2E) & §180.2(b)(2)	Shut-Off Controls §120.2(e) & §160.3(a)(2D)	Isolation Zone Controls §120.2(g) & §160.3(a)(2F)	Demand Response §110.12 §120.2(b) & §160.3(a)(2B)	Supply Air Temp. Reset §140.4(f)¹ & §170.2(c)(4D)	Window Interlocks per §140.4(n) & §170.2(c)(4D)	Direct Digital Control (DDC) per §120.2	IA318 Guideline 36 Library Version	Heat Pump Defrost per §160.3(b)(7)
HP1-201	Single zone	≤ 25,000 ft²	Setback	Auto Timer Switch	4 Hour Timer	DR Tstat per §110.12	Supply air reset configured per Guideline e 36	NA: Alteration Project	NA: Multifamily		NA Heat Pump not serving dwelling units
HP1-202	Single zone	≤ 25,000 ft²	Setback	Auto Timer Switch	4 Hour Timer	DR Tstat per §110.12	Supply air reset configured per Guideline e 36	NA: Alteration Project	NA: Multifamily		NA Heat Pump not serving dwelling units

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I. SYSTEM CONTROLS											
HP1-213	Single zone	≤ 25,000 ft²	Setback	Auto Timer Switch	4 Hour Timer	DR Tstat per §110.12	Supply air reset configured per Guideline e 36	NA: Alteration Project	NA: Multifamily		NA Heat Pump not serving dwelling units
HP1-214	Single zone	≤ 25,000 ft²	Setback	Auto Timer Switch	4 Hour Timer	DR Tstat per §110.12	Supply air reset configured per Guideline e 36	NA: Alteration Project	NA: Multifamily		NA Heat Pump not serving dwelling units
HP1-215	Single zone	≤ 25,000 ft²	Setback	Auto Timer Switch	4 Hour Timer	DR Tstat per §110.12	Supply air reset configured per Guideline e 36	NA: Alteration Project	NA: Multifamily		NA Heat Pump not serving dwelling units
HP1-216	Single zone	≤ 25,000 ft²	Setback	Auto Timer Switch	4 Hour Timer	DR Tstat per §110.12	Supply air reset configured per Guideline e 36	NA: Alteration Project	NA: Multifamily		NA Heat Pump not serving dwelling units
HP1-217	Single zone	≤ 25,000 ft²	Setback	Auto Timer Switch	4 Hour Timer	DR Tstat per §110.12	Supply air reset configured per Guideline e 36	NA: Alteration Project	NA: Multifamily		NA Heat Pump not serving dwelling units

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J. VENTILATION AND INDOOR AIR QUALITY											
Mechanical Ventilation Required per §120.1(c)(3) ³ & §160.2(c)(3)							Exh. Vent per §120.1(c)(4) & §160.2(c)(4)		DCV or Sensor Controls per §120.1(d)(3), §120.1(d)(5), and §120.1(e)(3) ⁴ §160.2(c)(5D) §160.2(c)(5E) §160.2(c)(5D)		
Space Name or Item Tag	Occupancy Type ⁴	Conditioned Floor Area (ft ²)	# of Shower heads/ toilets	# of people ⁵	Require d Min OA CFM	Require d Min CFM	Provided per Design CFM				
Studio Apt. 203	Bedroom/living room (hotel/motel/dorm)	165			24.8	0	45	DCV	NA: Not required per §120.1(d)(3)		
								Occ Sensor	NA: Not required space type		
17	Total System Required Min OA CFM					25	18	Ventilation for this System Complies?		Yes	
04		05			06			07			
System Name	HP1-204	System Design OA CFM Airflow ¹		45	System Design Transfer Air CFM		0	Air Filtration per §120.1(c) §141.0(b)(2) and §160.2(c)(21) ²			
								Provided			
08	09	10	11	12	13	14	15	16			
Space Name or Item Tag	Mechanical Ventilation Required per §120.1(c)(3) ³ & §160.2(c)(3)					Exh. Vent per §120.1(c)(4) & §160.2(c)(4)		DCV or Sensor Controls per §120.1(d)(3), §120.1(d)(5), and §120.1(e)(3) ⁴ §160.2(c)(5D) §160.2(c)(5E) §160.2(c)(5D)			
	Occupancy Type ⁴	Conditioned Floor Area (ft ²)	# of Shower heads/ toilets	# of people ⁵	Require d Min OA CFM	Require d Min CFM	Provided per Design CFM				
Studio Apt. 204	Bedroom/living room (hotel/motel/dorm)	165			24.8	0	45	DCV	NA: Not required per §120.1(d)(3)		
								Occ Sensor	NA: Not required space type		
17	Total System Required Min OA CFM					25	18	Ventilation for this System Complies?		Yes	

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I. SYSTEM CONTROLS											
HP1-203	Single zone	≤ 25,000 ft²	Setback	Auto Timer Switch	4 Hour Timer	DR Tstat per §110.12	Supply air reset configured per Guideline e 36	NA: Alteration Project	NA: Multifamily		NA Heat Pump not serving dwelling units
HP1-204	Single zone	≤ 25,000 ft²	Setback	Auto Timer Switch	4 Hour Timer	DR Tstat per §110.12	Supply air reset configured per Guideline e 36	NA: Alteration Project	NA: Multifamily		NA Heat Pump not serving dwelling units
HP1-205A, B	Single zone	≤ 25,000 ft²	Setback	Auto Timer Switch	4 Hour Timer	DR Tstat per §110.12	Supply air reset configured per Guideline e 36	NA: Alteration Project	NA: Multifamily		NA Heat Pump not serving dwelling units
HP1-206	Single zone	≤ 25,000 ft²	Setback	Auto Timer Switch	4 Hour Timer	DR Tstat per §110.12	Supply air reset configured per Guideline e 36	NA: Alteration Project	NA: Multifamily		NA Heat Pump not serving dwelling units
HP1-207	Single zone	≤ 25,000 ft²	Setback	Auto Timer Switch	4 Hour Timer	DR Tstat per §110.12	Supply air reset configured per Guideline e 36	NA: Alteration Project	NA: Multifamily		NA Heat Pump not serving dwelling units

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I. SYSTEM CONTROLS											
HP1-218	Single zone	≤ 25,000 ft²	Setback	Auto Timer Switch	4 Hour Timer	DR Tstat per §110.12	Supply air reset configured per Guideline e 36	NA: Alteration Project	NA: Multifamily		NA Heat Pump not serving dwelling units

¹FOOTNOTES: Gravity gas wall heaters, gravity floor heaters, gravity room heaters, non-central electric heaters, fireplaces or decorative gas appliances, wood stoves are not required to have setback thermostats.

J. VENTILATION AND INDOOR AIR QUALITY											
This table is used to demonstrate compliance with mandatory ventilation requirements in §120.1 & §120.2(e)(3)(8) §140.4(p) and §140.4(q) for all nonresidential and hotel/motel and §124(e)(n)(k) §160.2, §160.3(a)(3D), §170.2(a)(4N), 170.2(a)(4O) for high-rise residential occupancies. For alterations, only ventilation systems being altered within the scope of the permit application need to be documented in this table. In lieu of this table, the required outdoor ventilation rates and airflowws may be shown on the plans or the calculations can be presented in a spreadsheet.											
01	☐	Check the box if the project is showing ventilation calculations on the plans, or attaching the calculations instead of completing this table.									
02	☒	Check this box if the project included Nonresidential, Hotel/Motel Spaces or Multifamily Common Use Spaces									
03	☐	Check the box if the project is using natural ventilation in any nonresidential or hotel/motel spaces to meet required ventilation rates per §120.1(c)(2).									
Nonresidential and Hotel/ Motel Multifamily Common Use Ventilation Systems											
04		05			06			07			
System Name	HP1-201	System Design OA CFM Airflow ¹		45	System Design Transfer Air CFM		0	Air Filtration per §120.1(c) §141.0(b)(2) and §160.2(c)(21) ²			
								Provided			
08	09	10	11	12	13	14	15	16			
Space Name or Item Tag	Mechanical Ventilation Required per §120.1(c)(3) ³ & §160.2(c)(3)				Exh. Vent per §120.1(c)(4) & §160.2(c)(4)			DCV or Sensor Controls per §120.1(d)(3), §120.1(d)(5), and §120.1(e)(3) ⁴ §160.2(c)(5D) §160.2(c)(5E) §160.2(c)(5D)			
	Occupancy Type ⁴	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people ⁵	Require d Min OA CFM	Require d Min CFM	Provided per Design CFM				

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J. VENTILATION AND INDOOR AIR QUALITY												
04		05			06			07				
System Name	HP1-205A, B	System Design OA CFM Airflow ¹		59	System Design Transfer Air CFM		0	Air Filtration per §120.1(c) §141.0(b)(2) and §160.2(c)(21) ²				
08	09	10	11	12	13	14	15	16				
Space Name or Item Tag	Mechanical Ventilation Required per §120.1(c)(3) ³ & §160.2(c)(3)					Exh. Vent per §120.1(c)(4) & §160.2(c)(4)		DCV or Sensor Controls per §120.1(d)(3), §120.1(d)(5), and §120.1(e)(3) ⁴ §160.2(c)(5D) §160.2(c)(5E) §160.2(c)(5D)				
	Occupancy Type ⁴	Conditioned Floor Area (ft ²)	# of Shower heads/ toilets	# of people ⁵	Required d Min OA CFM	Required d Min CFM	Provided per Design CFM					
1 Bedroom Apt. 205	Bedroom/living room (hotel/motel/dorm)	395			59.2	0	45	DCV	NA: Not required per §120.1(d)(3)			
								Occ Sensor	NA: Not required space type			
17	Total System Required Min OA CFM				59	18	Ventilation for this System Complies?			Yes		
04		05			06			07				
System Name	HP1-206	System Design OA CFM Airflow ¹		45	System Design Transfer Air CFM		0	Air Filtration per §120.1(c) §141.0(b)(2) and §160.2(c)(21) ²				
08	09	10	11	12	13	14	15	16				
Space Name or Item Tag	Mechanical Ventilation Required per §120.1(c)(3) ³ & §160.2(c)(3)					Exh. Vent per §120.1(c)(4) & §160.2(c)(4)		DCV or Sensor Controls per §120.1(d)(3), §120.1(d)(5), and §120.1(e)(3) ⁴ §160.2(c)(5D) §160.2(c)(5E) §160.2(c)(5D)				
	Occupancy Type ⁴	Conditioned Floor Area (ft ²)	# of Shower heads/ toilets	# of people ⁵	Required d Min OA CFM	Required d Min CFM	Provided per Design CFM					

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I. SYSTEM CONTROLS											
HP1-208	Single zone	≤ 25,000 ft²	Setback	Auto Timer Switch	4 Hour Timer	DR Tstat per §110.12	Supply air reset configured per Guideline e 36	NA: Alteration Project	NA: Multifamily		NA Heat Pump not serving dwelling units
HP1-209	Single zone	≤ 25,000 ft²	Setback	Auto Timer Switch	4 Hour Timer	DR Tstat per §110.12	Supply air reset configured per Guideline e 36	NA: Alteration Project	NA: Multifamily		NA Heat Pump not serving dwelling units
HP1-210	Single zone	≤ 25,000 ft²	Setback	Auto Timer Switch	4 Hour Timer	DR Tstat per §110.12	Supply air reset configured per Guideline e 36	NA: Alteration Project	NA: Multifamily		NA Heat Pump not serving dwelling units
HP1-211	Single zone	≤ 25,000 ft²	Setback	Auto Timer Switch	4 Hour Timer	DR Tstat per §110.12	Supply air reset configured per Guideline e 36	NA: Alteration Project	NA: Multifamily		NA Heat Pump not serving dwelling units
HP1-212	Single zone	≤ 25,000 ft²	Setback	Auto Timer Switch	4 Hour Timer	DR Tstat per §110.12	Supply air reset configured per Guideline e 36	NA: Alteration Project	NA: Multifamily		NA Heat Pump not serving dwelling units

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J. VENTILATION AND INDOOR AIR QUALITY										
Mechanical Ventilation Required per §120.1(c)3 ³ & §160.2(c)3						Exh. Vent per §120.1(c)4 & §160.2(c)4		DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3 ³ §160.2(c)5D §160.2(c)5E §160.2(c)5D		
Space Name or Item Tag	Occupancy Type ⁴	Conditione d Floor Area (ft ²)	# of Shower heads/ toilets	# of people ⁵	Require d Min OA CFM	Require d Min CFM	Provided per Design CFM			
Studio Apt. 208	Bedroom/living room (hotel/motel/dorm)	165			24.8	0	45	DCV	NA: Not required per §120.1(d)3	
								Occ Sensor	NA: Not required space type	
17	Total System Required Min OA CFM					25	18	Ventilation for this System Complies?		Yes
04		05			06			07		
System Name	HP1-209	System Design OA CFM Airflow ¹		45	System Design Transfer Air CFM		0	Air Filtration per §120.1(c) §141.0(b)2 and §160.2(c)21 ²		
		10		11	12	13	14	15		
08	09		10	11	12	13	14	15		
Mechanical Ventilation Required per §120.1(c)3 ³ & §160.2(c)3						Exh. Vent per §120.1(c)4 & §160.2(c)4		DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3 ³ §160.2(c)5D §160.2(c)5E §160.2(c)5D		
Space Name or Item Tag	Occupancy Type ⁴	Conditione d Floor Area (ft ²)	# of Shower heads/ toilets	# of people ⁵	Require d Min OA CFM	Require d Min CFM	Provided per Design CFM			
Studio Apt. 209	Bedroom/living room (hotel/motel/dorm)	165			24.8	0	45	DCV	NA: Not required per §120.1(d)3	
								Occ Sensor	NA: Not required space type	
17	Total System Required Min OA CFM					25	18	Ventilation for this System Complies?		Yes

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J. VENTILATION AND INDOOR AIR QUALITY									
Space Name or Item Tag	Mechanical Ventilation Required per §120.1(c)3 ³ & §160.2(c)3					Exh. Vent per §120.1(c)4 & §160.2(c)4		DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3 ³ §160.2(c)5D §160.2(c)5E §160.2(c)5D	
	Occupancy Type ⁴	Conditione d Floor Area (ft²)	# of Shower heads/ toilets	# of people ⁵	Require d Min OA CFM	Require d Min CFM	Provided per Design CFM		
Studio Apt. 213	Bedroom/living room (hotel/motel/dorm)	257			38.6	0	45	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required space type
17	Total System Required Min OA CFM				39	18	Ventilation for this System Complies?		Yes
04		05			06			07	
System Name	HP1-214	System Design OA CFM Airflow ¹		47	System Design Transfer Air CFM		0	Air Filtration per §120.1(c) §141.0(b)2 and §160.2(c)21 ²	
		10		11	12	13	14	15	
08	09		10	11	12	13	14	15	
Space Name or Item Tag	Mechanical Ventilation Required per §120.1(c)3 ³ & §160.2(c)3					Exh. Vent per §120.1(c)4 & §160.2(c)4		DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3 ³ §160.2(c)5D §160.2(c)5E §160.2(c)5D	
	Occupancy Type ⁴	Conditione d Floor Area (ft²)	# of Shower heads/ toilets	# of people ⁵	Require d Min OA CFM	Require d Min CFM	Provided per Design CFM		
1 Bedroom Apt. 214	Bedroom/living room (hotel/motel/dorm)	315			47.2	0	45	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required space type
17	Total System Required Min OA CFM				47	18	Ventilation for this System Complies?		Yes

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J. VENTILATION AND INDOOR AIR QUALITY									
Space Name or Item Tag	Mechanical Ventilation Required per §120.1(c)3 ³ & §160.2(c)3					Exh. Vent per §120.1(c)4 & §160.2(c)4		DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3 ³ §160.2(c)5D §160.2(c)5E §160.2(c)5D	
	Occupancy Type ⁴	Conditione d Floor Area (ft ²)	# of Shower heads/ toilets	# of people ⁵	Require d Min OA CFM	Require d Min CFM	Provided per Design CFM		
Studio Apt. 218	Bedroom/living room (hotel/motel/dorm)	266			39.9	0	45	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required space type
17	Total System Required Min OA CFM				40	18	Ventilation for this System Complies?		Yes

¹ FOOTNOTES: System CFM should include both mechanical and natural ventilation for the zone/system

² Air filtration requirements apply to the following three system types per §120.1(c)1A: space conditioning systems utilizing ducts to supply air to occupiable space; supply-only ventilation systems providing outside air to occupiable space; supply side of balanced ventilation systems including heat recovery and energy recovery ventilation systems providing outside air to occupiable space.

³ Uniform Mechanical Code may have more stringent ventilation requirements; the most stringent code requirement takes precedence.

⁴ See Standards Tables 120.1-A and 120.1-B.

⁵ For lecture halls with fixed seating, the expected number of occupants shall be determined in accordance with the California Building Code.

⁶ Upon detection of sensor failure, the system shall provide a signal which resets to supply the minimum quantity of outside air to levels required by Section 120.1(c)3.

K. TERMINAL BOX CONTROLS									
This section does not apply to this project.									
L. DISTRIBUTION (DUCTWORK AND PIPING)									
This section does not apply to this project.									
M. COOLING TOWERS									
This section does not apply to this project.									

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J. VENTILATION AND INDOOR AIR QUALITY										
04			05			06			07	
System Name	HP1-210		System Design OA CFM Airflow ¹		45	System Design Transfer Air CFM		0	Air Filtration per §120.1(c) §141.0(b)2 and §160.2(c)21 ²	
08	09		10	11	12	13	14	15		16
Space Name or Item Tag	Mechanical Ventilation Required per §120.1(c)3 ³ & §160.2(c)3					Exh. Vent per §120.1(c)4 & §160.2(c)4			DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3 ³ §160.2(c)5D §160.2(c)5E §160.2(c)5D	
	Occupancy Type ⁴	Conditione d Floor Area (ft ²)	# of Shower heads/ toilets	# of people ⁵	Require d Min OA CFM	Require d Min CFM	Provided per Design CFM			
Studio Apt. 210	Bedroom/living room (hotel/motel/dorm)	165			24.8	0	45		DCV	NA: Not required per §120.1(d)3
									Occ Sensor	NA: Not required space type
17	Total System Required Min OA CFM					25	18	Ventilation for this System Complies?		Yes
04			05			06			07	
System Name	HP1-211		System Design OA CFM Airflow ¹		45	System Design Transfer Air CFM		0	Air Filtration per §120.1(c) §141.0(b)2 and §160.2(c)21 ²	
08	09		10	11	12	13	14	15		16
Space Name or Item Tag	Mechanical Ventilation Required per §120.1(c)3 ³ & §160.2(c)3					Exh. Vent per §120.1(c)4 & §160.2(c)4			DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3 ³ §160.2(c)5D §160.2(c)5E §160.2(c)5D	
	Occupancy Type ⁴	Conditione d Floor Area (ft ²)	# of Shower heads/ toilets	# of people ⁵	Require d Min OA CFM	Require d Min CFM	Provided per Design CFM			

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J. VENTILATION AND INDOOR AIR QUALITY										
04			05			06			07	
System Name	HP1-215		System Design OA CFM Airflow ¹		45	System Design Transfer Air CFM		0	Air Filtration per §120.1(c) §141.0(b)2 and §160.2(c)21 ²	
08	09		10	11	12	13	14	15	16	
Space Name or Item Tag	Mechanical Ventilation Required per §120.1(c)3 ³ & §160.2(c)3					Exh. Vent per §120.1(c)4 & §160.2(c)4			DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3 ³ §160.2(c)5D §160.2(c)5E §160.2(c)5D	
	Occupancy Type ⁴		Conditione d Floor Area (ft ²)	# of Shower heads/ toilets	# of people ⁵	Require d Min OA CFM	Require d Min CFM	Provided per Design CFM		
Studio Apt. 215	Bedroom/living room (hotel/motel/dorm)		266			39.9	0	45	DCV	
									NA: Not required per §120.1(d)3	
									NA: Not required space type	
17	Total System Required Min OA CFM					40	18	Ventilation for this System Complies?		Yes
04			05			06			07	
System Name	HP1-216		System Design OA CFM Airflow ¹		45	System Design Transfer Air CFM		0	Air Filtration per §120.1(c) §141.0(b)2 and §160.2(c)21 ²	
08	09		10	11	12	13	14	15	16	
Space Name or Item Tag	Mechanical Ventilation Required per §120.1(c)3 ³ & §160.2(c)3					Exh. Vent per §120.1(c)4 & §160.2(c)4			DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3 ³ §160.2(c)5D §160.2(c)5E §160.2(c)5D	
	Occupancy Type ⁴		Conditione d Floor Area (ft ²)	# of Shower heads/ toilets	# of people ⁵	Require d Min OA CFM	Require d Min CFM	Provided per Design CFM		