

CAL-GREEN NOTES

- ALL DUCT AND OTHER RELATED AIR DISTRIBUTION COMPONENT OPENINGS SHALL BE COVERED WITH TAPE, PLASTIC, OR SHEET METAL UNTIL THE FINAL STARTUP OF THE HVAC EQUIPMENT (CGGSC 5.504.3).
- IF THE NEW HVAC SYSTEM IS USED DURING CONSTRUCTION, USE RETURN AIR FILTERS WITH A MERV 8 RATING. REPLACE ALL FILTERS IMMEDIATELY PRIOR TO OCCUPANCY (CGBSC 5.504.1).
- THE HVAC, REFRIGERATION, AND FIRE SUPPRESSION EQUIPMENT SHALL NOT CONTAIN CFCS OR HALONS (CGBSC 5.508.1).
- A FINAL REPORT FOR THE TESTING AND ADJUSTING OF ALL NEW SYSTEMS SHALL BE COMPLETED PRIOR TO FINAL APPROVAL BY THE FIELD INSPECTOR. THIS REPORT SHALL BE SIGNED BY THE INDIVIDUAL RESPONSIBLE FOR PERFORMING THESE SERVICES (CGBSC 5.410.4.4).
- AN OPERATION & SYSTEMS MANUAL SHALL BE PROVIDED TO THE OWNER OR REPRESENTATIVE AND TO THE FIELD INSPECTOR AT THE TIME OF FINAL INSPECTION (CGBSC 5.410.4.5).

APPLICABLE CODES & STANDARDS

- 2019 CALIFORNIA BUILDING CODE WITH STATEWIDE AMENDMENTS
- 2019 CALIFORNIA MECHANICAL CODE WITH STATEWIDE AMENDMENTS
- 2019 CALIFORNIA PLUMBING CODE WITH STATEWIDE AMENDMENTS
- 2019 CALIFORNIA ENERGY CONSERVATION CODE
- 2019 CALIFORNIA GREEN BUILDING STANDARDS
- ICC/ANSI A117.1-09, ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES, WITH STATEWIDE AMENDMENTS.
- NFPA 90

HVAC ABBREVIATIONS

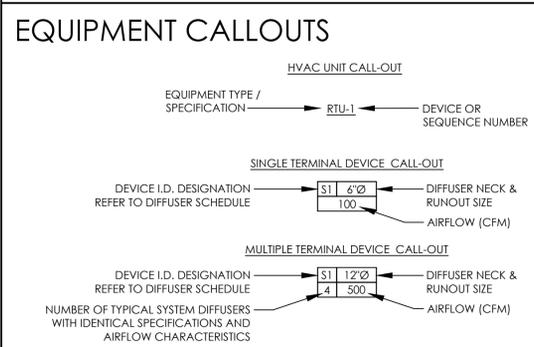
| | | | |
|-------|--------------------------------|-----------|------------------------------------|
| AAV | AUTOMATIC AIR VENT ABOVE | KW | KILOWATT |
| ABV | ACCESS PANEL | | |
| AP | AIR CONDITIONING | LB | POUND |
| AC | ABOVE FINISHED FLOOR | LRA | LOCKED ROTOR AMPERES |
| AFF | APPROXIMATELY | LVG | LEAVING |
| ARCH | ARCHITECTURAL | | |
| AS | AIR SEPARATOR | MAX | MAXIMUM |
| @ | AT | MCC | MOTOR CONTROL CENTER |
| & | AND | MD | MOTORIZED DAMPER |
| AUTO | AUTOMATIC | MECH | MECHANICAL |
| | | MFR | MANUFACTURER |
| B | BOILER | MIN | MINIMUM |
| BDD | BACKDRAFT DAMPER | MISC | MISCELLANEOUS |
| BEL | BELOW | MTD | MOUNTED |
| BRD | BAROMETRIC RELIEF DAMPER | MTG | MOUNTING |
| BFF | BELOW FINISHED FLOOR | MVD | MANUALLY OPERATED VOLUME DAMPER |
| BFV | BUTTERFLY VALVE | | |
| BHP | BRAKE HORSEPOWER | NC | NORMALLY CLOSED |
| BLDG | BUILDING | NO | NORMALLY OPEN |
| BOV | BOTTOM OF PIPE | NTS | NOT TO SCALE |
| BTUH | BRITISH THERMAL UNITS PER HOUR | | |
| | | OA / OSA | OUTSIDE AIR |
| CA | COMBUSTION AIR | | |
| CFM | CUBIC FEET PER MINUTE | PD | PRESSURE DROP |
| CH | CHILLER | POC | POINT OF CONNECTION |
| CHP | CHILLED WATER PUMP | POD | POINT OF DISCONNECT |
| COP | COEFFICIENT OF PERFORMANCE | POS | POSITIVE |
| CONC | CONCRETE | PRESS | PRESSURE |
| CONN | CONNECTION | PSI | POUNDS PER SQUARE INCH |
| CONT | CONTINUATION | | |
| CPF | CHEMICAL POT FEEDER | RA | RETURN AIR |
| CT | COOLING TOWER | REF | REFERENCE |
| CTF | COOLING TOWER FILTER | REL | RELIEF |
| CWP | CONDENSER WATER PUMP | RELA | RELIEF AIR |
| CWR | CONDENSER WATER RETURN | REQD/REQD | REQUIRED |
| CWS | CONDENSER WATER SUPPLY | RET | RETURN |
| | | RH | RIGHT HAND |
| DB | DRY BULB (TEMPERATURE) | RLA | RATED LOAD AMPERES |
| DDC | DIRECT DIGITAL CONTROL | RM | ROOM |
| DET | DETAIL | RPM | REVOLUTIONS PER MINUTE |
| DIA | DIAMETER | | |
| DN | DOWN | SA | SUPPLY AIR |
| DN | DOWN | SCBA | SELF CONTAINED BREATHING APPARATUS |
| DIF | DUCT/DOWN THRU FLOOR | | |
| DTR | DUCT/DOWN THRU ROOF | | |
| DWG | DRAWING | SCHR | SECONDARY CHILLED WATER |
| | | | |
| (E) | EXISTING | SCHS | RETURN SECONDARY CHILLED WATER |
| EA | EACH / EXHAUST AIR | | |
| EAG | EXHAUST AIR GRILLE | | |
| EAR | EXHAUST AIR REGISTER | | |
| EER | ENERGY EFFICIENCY RATIO | | |
| EF | EXHAUST FAN | SECT | SUPPLY SECTION |
| EL | ELEVATION | SEER | SEASONAL ENERGY EFFICIENCY RATIO |
| ENT | ENTERING | SHT | SHEET |
| EQUIP | EQUIPMENT | SMS | SHEET METAL SCREW |
| ET | EXPANSION TANK | SOV | SHUT-OFF VALVE |
| | | SP | STATIC PRESSURE |
| *F | DEGREES FAHRENHEIT | SPEC | SPECIFICATION |
| FD | FIRE DAMPER | SQ | SQUARE |
| FIN | FINISHED | SS | STAINLESS STEEL |
| FLEX | FLEXIBLE | STD | STANDARD |
| FLR | FLOOR | STRUCT | STRUCTURAL |
| FPM | FEET PER MINUTE | SW | SWITCH |
| FSD | FIRE SMOKE DAMPER | | |
| FS | FLOOR SINK | TEFC | TOTALLY ENCLOSED FAN COOLED |
| FT | FOOT / FEET | TEMP | TEMPERATURE |
| FV | FACE VELOCITY | TOS | TOP OF STEEL |
| | | TYP | TYPICAL |
| GA | GAUGE | UON | UNLESS OTHERWISE NOTED |
| GAL | GALLON | UTR | UP THROUGH ROOF |
| GALV | GALVANIZED | | |
| GPM | GALLONS PER MINUTE | V | VENT |
| | | VFD | VARIABLE FREQUENCY DRIVE |
| HGT | HEIGHT | VERT | VERTICAL |
| HORIZ | HORIZONTAL | | |
| HP | HORSEPOWER | | |
| HR | HOUR | | |
| HVAC | HEATING, VENTILATING AND AIR | W/ | WITH |
| | | WB | WET BULB (TEMPERATURE) |
| | | WT | WEIGHT |
| | | WMS | WIRE MESH SCREEN |
| HZ | HERTZ | 1F | FIRST FLOOR |
| | | 2F | SECOND FLOOR |
| ID | INSIDE DIAMETER | 3F | THIRD FLOOR (ETC) |
| IEER | INTEGRATED ENERGY EFFICIENCY | | |
| RATIO | | | |
| IN | INCH / INCHES | | |
| IN WG | INCHES WATER GAUGE | | |

HVAC NOTES

GENERAL NOTES

- ALL NOTES, INSTRUCTIONS, DIRECTIVES AND REQUIREMENTS NOTED IN THESE DRAWINGS ARE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. IN THE ABSENCE OF A GENERAL CONTRACTOR ASSOCIATED WITH THE PROJECT, SAID NOTES, INSTRUCTIONS, DIRECTIVES AND REQUIREMENTS SHALL BECOME THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR.
- ALL EQUIPMENT, DEVICES AND DUCTWORK SHOWING ON THESE DRAWINGS ARE NEW UNLESS SPECIFICALLY CALLED OUT AS EXISTING (E) TO REMAIN.
- MECHANICAL EQUIPMENT AND INSTALLATIONS SHALL CONFORM WITH THE REQUIREMENTS OF THE CODES AS NOTED IN THE "APPLICABLE CODES" SECTION NOTED EITHER ON THESE DRAWINGS, OR THE ARCHITECTURAL DRAWINGS OR ON THE PROJECT COVER SHEET.
- PRIOR TO SUBMITTING BID, PURCHASING MATERIALS OR STARTING WORK, FIELD VERIFY EXISTING CONDITIONS, DUCTWORK SIZES AND LOCATIONS, EQUIPMENT, ETC. SHOWN ON THE DRAWINGS OR AFFECTING THIS WORK AND REPORT DEVIATIONS TO THE ARCHITECT.
- SHOP DRAWINGS SHALL BE SUBMITTED TO AND APPROVED BY THE ARCHITECT PRIOR TO ORDERING, PURCHASING, OR FABRICATING ANY MECHANICAL EQUIPMENT. SHOP DRAWINGS SHALL INCLUDE: EQUIPMENT SCHEDULED, SHOWN OR SPECIFIED ON THE DRAWINGS; DUCTWORK DRAWN TO 1/4" SCALE MINIMUM, REFRIGERANT PIPING AND CONTROL WIRING SCHEMATICS CERTIFIED BY THE AIR CONDITIONING EQUIPMENT MANUFACTURER. FAILURE TO SUBMIT REFRIGERANT PIPING DRAWINGS SHALL BE CAUSE FOR REJECTION OF THE ENTIRE SUBMITTAL. LONG LINE REFRIGERANT PIPING APPLICATIONS SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S CURRENT SPLIT SYSTEM LONG-LINE APPLICATION GUIDELINE.
- MECHANICAL EQUIPMENT SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
- MECHANICAL EQUIPMENT AND SYSTEMS SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR AFTER ACCEPTANCE BY OWNER.
- HVAC COMPRESSORS SHALL HAVE EXTENDED 4-YEAR MANUFACTURER'S WARRANTY FOR A 5-YEAR TOTAL WARRANTY.
- UNLESS OTHERWISE NOTED, EXISTING EQUIPMENT, DUCTWORK, DIFFUSERS, ETC. SHOWN AS BEING REMOVED AS PART OF THIS CONTRACT SHALL BECOME THE PROPERTY OF THE HVAC CONTRACTOR AND SHALL BE REMOVED FROM THE PROJECT SITE PRIOR TO PROJECT COMPLETION.
- WORK SHALL BE COORDINATED AND PERFORMED WITH PRIOR APPROVAL FROM THE OWNER TO SUIT HIS OPERATING CONDITIONS.
 - EXISTING WALL, FLOOR, OR CEILING SURFACES DISTURBED OR DAMAGED DURING THE COURSE OF THE HVAC WORK SHALL BE REPAIRED TO MATCH NEW AND/OR EXISTING CONDITIONS.
 - ROOF PENETRATIONS/REPAIR TO BE CONTRACTED THRU LANDLORD APPROVED ROOFER TO MAINTAIN WARRANTY.
- AFTER CONSTRUCTION, THE ENTIRE HVAC SYSTEM SHALL BE TESTED, ADJUSTED, AND BALANCED TO DELIVER THE AIR QUANTITIES SHOWN ON THE DRAWINGS. SUBMIT CERTIFIED (AABC, NEBB OR TABB) TEST AND BALANCE REPORT TO THE ARCHITECT FOR APPROVAL.
- COORDINATE THE INSTALLATION OF MECHANICAL EQUIPMENT, DUCTWORK, PIPING, ETC. TO FIT WITHIN THE SPACE ALLOWED BY THE ARCHITECTURAL AND STRUCTURAL CONDITIONS, CUTTING OR OTHERWISE ALTERING ANY STRUCTURAL MEMBERS SHALL NOT BE PERMITTED WITHOUT WRITTEN PERMISSION FROM THE STRUCTURAL ENGINEER.
- MECHANICAL EQUIPMENT SHALL BE LABELED WITH A SEMI-RIGID PLASTIC LAMINATE NAMEPLATE WITH 2" HIGH WHITE LETTERS ON A BLACK BACKGROUND SECURELY AFFIXED TO THE EQUIPMENT. THE NAMEPLATE SHALL SHOW THE EQUIPMENT TAG USED ON THESE DRAWINGS.
- THE LOCATIONS, ARRANGEMENT AND EXTENT OF EQUIPMENT, DEVICES, CONDUIT AND OTHER APPURTENANCES RELATED TO THE INSTALLATION OF THE ELECTRICAL WORK SHOWN ON DRAWINGS ARE APPROXIMATE. THE CONTRACTOR SHALL NOT SCALE DRAWINGS, BUT SHALL REFER TO THE ARCHITECTURAL DRAWINGS FOR EXACT DIMENSIONS OF BUILDING COMPONENTS. SHOULD A CONFLICT EXIST BETWEEN THE ARCHITECTURAL AND ENGINEERING DRAWINGS REGARDING DIMENSIONS AND SCALE, NOTIFY THE ARCHITECT OF THE DISCREPANCY.
- MATERIALS, EQUIPMENT OR LABOR NOT INDICATED BUT WHICH CAN BE REASONABLY INFERRED TO BE NECESSARY FOR A COMPLETE INSTALLATION SHALL BE PROVIDED. DRAWINGS AND SPECIFICATIONS DO NOT UNDERTAKE TO INDICATE EVERY ITEM OF MATERIAL, EQUIPMENT OR LABOR REQUIRED TO PRODUCE A COMPLETE AND PROPERLY OPERATING INSTALLATION.
- THE DRAWINGS ARE DIAGRAMMATIC AND DO NOT NECESSARILY DEPICT EXACT CONDITIONS. THE LOCATION OF EQUIPMENT, DUCTWORK, ETC. IS APPROXIMATE ONLY. THE DRAWINGS ARE SCHEMATIC IN NATURE AND ARE NOT TO BE SCALED. SCALES ARE SHOWN FOR REFERENCE AND APPROXIMATION ONLY. REFER TO THE ARCHITECTURAL DRAWINGS FOR DIMENSIONAL DATA OF BUILDING COMPONENTS.
- PROVIDE AND INSTALL ROOM SENSORS, MOUNT AT 60" AFF.

EQUIPMENT CALLOUTS



HVAC LEGEND

| SYMBOL | DESCRIPTION |
|--------|---|
| | EQUIPMENT TO REMAIN |
| | EQUIPMENT TO BE DEMOLISHED |
| | NEW EQUIPMENT |
| | PIPE, DUCT TO REMAIN |
| | PIPE, DUCT TO BE DEMOLISHED |
| | NEW PIPE, DUCT |
| | ACOUSTICAL LINING |
| | DUCT RISER OR DROP (SA) |
| | DUCT RISER OR DROP (RA) |
| | DUCT RISER OR DROP (EA) |
| | DUCT TRANSITION |
| | CEILING DIFFUSER, 4 WAY THROW |
| | CEILING DIFFUSER, 2 WAY THROW |
| | CEILING DIFFUSER, ROUND |
| | RETURN AIR GRILLE/REGISTER |
| | CEILING EXHAUST AIR GRILLE/REGISTER |
| | SIDE WALL SUPPLY REGISTER |
| | SIDE WALL RETURN REGISTER |
| | SIDE WALL EXHAUST REGISTER |
| | ROOM THERMOSTAT |
| | HUMIDISTAT |
| | BY-PASS CONTROLLER |
| | CO2 SENSOR |
| | TEMPERATURE SENSOR |
| | HUMIDITY SENSOR |
| | SWITCH |
| | DUCT SMOKE DETECTOR |
| | DOOR LOUVER |
| | UNDERCUT DOOR |
| | AUTOMATIC FIRE/SMOKE DAMPER |
| | MANUAL VOLUME DAMPER |
| | AUTOMATIC FIRE DAMPER |
| | MOTORIZED DAMPER |
| | BACKDRAFT DAMPER |
| | REFRIGERANT LIQUID LINE |
| | REFRIGERANT SUCTION LINE |
| | CHILLED WATER SUPPLY PIPING |
| | CHILLED WATER RETURN PIPING |
| | CONDENSER WATER SUPPLY PIPING |
| | CONDENSER WATER RETURN PIPING |
| | HEATING HOT WATER SUPPLY PIPING |
| | HEATING HOT WATER RETURN PIPING |
| | COOLING COIL/CONDENSATE OR EQUIPMENT DRAIN PIPING |
| | POINT OF CONNECTION |
| | POINT OF DISCONNECTION |

REGULATORY NOTES

- FIRE RESISTIVE BUILDING MATERIALS
- INSULATION MATERIALS INSTALLED IN BUILDINGS OF ANY TYPE OF CONSTRUCTION, SHALL HAVE A FLAME-SPREAD RATING OF NOT MORE THAN 25 AND A SMOKE-DEVELOPED INDEX OF NOT MORE THAN 50 IN ACCORDANCE WITH APPLICABLE CODES LISTED ON THIS SHEET OR ON THE PROJECT COVER SHEET.
 - INSULATION, INSULATION JACKET, ADHESIVES, TAPES, ETC. SHALL BE APPLIED PER MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS.

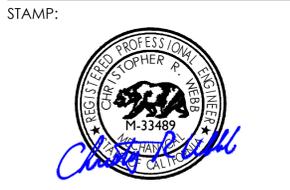
SCOPE OF WORK

- PROVIDE HVAC SYSTEMS WITH FRESH AIR VENTILATION CAPABILITIES FOR 6-STORY RESIDENTIAL BUILDING.
- PROVIDE AND INSTALL ALL REQUIRED HVAC EQUIPMENT, ANCHORAGE AND ASSOCIATED MATERIALS.

| MODULAR PERMANENT SUPPORTIVE HOUSING PROJECT | | REVIEWER: | | | | | |
|--|-------------|--|------|------------|------|------|---------------------------------|
| 2853 WEST BLVD. | | CITY OF LOS ANGELES DEPT. OF BUILDING & SAFETY (LADBS) | | | | | |
| LOS ANGELES, CA 90013 | | NTA | | | | | |
| STATE OF CALIFORNIA HOUSING & COMMUNITY DEVELOPMENT (HCD) DESIGN APPROVAL AGENCY | | CITY OF LOS ANGELES FIRE DEPARTMENT (LAFD) | | | | | |
| LOCAL FIRE DEPARTMENT | | | | | | | |
| SCOPE SECTION/DESCRIPTION | PLAN REVIEW | | | INSPECTION | | | APPLICABLE CODES |
| | HCD | LAHJ | LAFD | HCD | LAHJ | LAFD | |
| Plumbing | | | | | | | 2019 CALIFORNIA MECHANICAL CODE |
| LEVEL 01: HVAC FOR COMMON AREAS AND RESTROOM EXHAUST | | X | | | X | | |
| LEVELS 02-06: HVAC SYSTEMS FOR LIVING SPACE AND RESTROOM EXHAUST FOR RESIDENTIAL UNITS | | X | | | X | | |
| LEVELS 02-06: RESIDENTIAL UNITS (MODULAR) | X | | | X | | | |



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CLIENT:

JAIME PARTNERS OF CALIFORNIA, INC.

1050 S. FLOWER STREET
LOS ANGELES, CA 90015

PROJECT:

2853 WEST BLVD

LOS ANGELES, CA 90016

| C-JAIME-001 | | |
|-------------|----------------------|----------|
| # | DESCRIPTION | DATE |
| | 1ST SUBMITTAL | 10/04/21 |
| | UTILITY COORDINATION | 04/08/22 |
| △ | PC RESUBMITTAL | 05/18/22 |
| △ | PC RESUBMITTAL | 10/28/22 |
| △ | HCD REVISION 1 | 12/16/22 |
| △ | PC RESUBMITTAL | 02/02/23 |
| △ | HCD & PC RESUBMITTAL | 06/06/23 |
| △ | HCD RESUBMITTAL | 06/14/23 |
| △ | PC RESUBMITTAL | 07/10/23 |
| △ | PC RESUBMITTAL | 02/27/24 |

Plot Date: 3/5/2024 11:54:39 AM

SHEET TITLE:

MECHANICAL GENERAL INFORMATION

SHEET NO:

M001

SCHEDULES

PACKAGED HEAT PUMP SCHEDULE

| UNIT NO. | MAKE | MODEL | AREA SERVING | COOLING CAPACITY (MBH) | HEATING CAPACITY (MBH) | REFRIGERANT | CFM | OSA CFM | WEIGHT (LBS.) | ELECTRICAL DATA | | | MOTOR HP (WATTS) | EFFICIENCY RATINGS | | ACCESSORIES |
|----------|------|------------|-------------------|------------------------|------------------------|-------------|-----------|---------|---------------|-----------------|-----|-------|------------------|--------------------|------------|-------------|
| | | | | | | | | | | VOLTAGE | MCA | MOCPP | | EER (SEER) | HSPF (COP) | |
| HPAC-1 | GE | AZ6SH12DAD | RESIDENTIAL UNITS | 11.8 | 10.4 | R-410A | 449 - 300 | 20 | 91 | 208/1160 | 15 | 15 | [2430W] | 11.5 | [3.5] | SEE BELOW |

NOTES:
 1. REFER TO MANUFACTURER'S GUIDELINES FOR CONTROLS AND SEQUENCE OF OPERATION.
 2. INCLUDES FACTORY CLEANABLE MERV 13 FILTERS.
 3. PROVIDE WITH FACTORY WALL MOUNTED THERMOSTAT CONTROLLER, TITLE-24 COMPLIANT.
 4. PROVIDE WITH NON-FUSED DISCONNECT FOR UNITS THAT ARE HARDWIRED.

AIR COOLED OUTDOOR HEAT PUMP/CONDENSING UNIT SCHEDULE

| UNIT NO. | MITSUBISHI MODEL | AREA SERVING | ASSOCIATED INDOOR UNIT | COOLING CAPACITY (MBH) | REFRIGERANT | AMBIENT AIR | | INTEGRATED HEAT (MBH) | WEIGHT (LBS.) | ELECTRICAL DATA | | | EFFICIENCY RATINGS | | ACCESSORIES |
|----------|------------------|-----------------------|------------------------|------------------------|-------------|-------------|------|-----------------------|---------------|-----------------|-----|-------|--------------------|------|-------------|
| | | | | | | LOW | HIGH | | | VOLTAGE | MCA | MOCPP | EER (SEER) | HSPF | |
| HP-1 | SUZ-KA12NA | SHORT LINE APARTMENTS | FC-1 | 13.3 | R-410A | 23 | 115 | 17.1 | 77 | 230/1160 | 12 | 15 | 12.0 | 9.6 | SEE BELOW |
| CU-2 | PUZ-A12NKA7 | LONG LINE APARTMENTS | FC-2 | 12.0 | R-410A | 23 | 115 | -- | 93 | 230/1160 | 11 | 15 | 16.4 | -- | SEE BELOW |
| HP-2 | SUZ-KA18NAR1 | 01 STACK | FC-3 | 19.0 | R-410A | 23 | 115 | 24.9 | 119 | 230/1160 | 14 | 15 | 12.5 | 10.0 | SEE BELOW |

ACCESSORIES:
 1. COMPRESSOR CYCLE DELAY PACKAGE.
 2. AUTOMATIC RESET.
 3. LOW AMBIENT CONTROL PACKAGE.
 4. HEAD PRESSURE CONTROL PACKAGE.

INDOOR FAN COIL UNIT SCHEDULE

| UNIT NO. | MANUFACTURER | MODEL | AREA SERVING | TON | WEIGHT (LBS.) | SUPPLY FAN SECTION | | | ESP IN. W.C. | ELECTRICAL | | | PERFORMANCE | |
|----------|--------------|------------------|-----------------------|-----|---------------|--------------------|-----------------|----------------|--------------|------------|-----|-------|------------------------|------------------|
| | | | | | | CFM SUPPLY AIR | CFM OUTSIDE AIR | SYSTEM VOLTAGE | | WATTS | MCA | MOCPP | TOTAL COOLING CAPACITY | HEATING CAPACITY |
| FC-1 | MITSUBISHI | SUZ-KA12NA | SHORT LINE APARTMENTS | 1.0 | 36 | 280 - 390 | 50 | 0.0 | 230/1160 | -- | 1 | 15 | 13.3 | 17.1 |
| FC-2 | MITSUBISHI | PLA-A12EAB | LONG LINE APARTMENTS | 1.0 | 46 | 530 - 370 | 50 | 0.2 | 230/1160 | -- | 1 | 15 | 12.0 | -- |
| FC-3 | MITSUBISHI | SEZ-KD18NAR41.TH | 01 STACK | 1.5 | 62 | 423 - 635 | 50 | 0.2 | 230/1160 | -- | 1 | 15 | 19.0 | 24.9 |

NOTES:
 1. PROVIDE WITH FACTORY CLEANABLE MERV 13 FILTERS.
 2. PROVIDE WITH FACTORY WALL MOUNTED THERMOSTAT CONTROLLER, TITLE-24 COMPLIANT.
 3. PROVIDE WITH NON-FUSED DISCONNECT.
 4. EXTEND REFRIGERANT PIPING TO ASSOCIATED OUTDOOR CONDENSING UNIT ON ROOF. SIZE AND INSULATE REFRIGERANT PIPING PER MANUFACTURER'S GUIDELINES.

AIR COOLED OUTDOOR VRF HEAT PUMP SCHEDULE

| UNIT NO. | MITSUBISHI MODEL | AREA SERVING | ASSOCIATED INDOOR UNIT | COOLING CAPACITY (MBH) | REFRIGERANT | AMBIENT AIR | | INTEGRATED HEAT (MBH) | WEIGHT (LBS.) | ELECTRICAL DATA | | | EFFICIENCY RATINGS | | ACCESSORIES |
|----------|------------------|----------------|------------------------|------------------------|-------------|-------------|------|-----------------------|---------------|-----------------|-----|-------|--------------------|------|-------------|
| | | | | | | LOW | HIGH | | | VOLTAGE | MCA | MOCPP | EER (SEER) | HSPF | |
| HP-3 | MXZ-SM36NAM2 | 1F COMMON AREA | VRF-1 / VRF-2 | 36.0 | R-410A | 23 | 115 | 41.0 | 271 | 230/1160 | 35 | 50 | 15.0 | 11.0 | SEE BELOW |

ACCESSORIES:
 1. COMPRESSOR CYCLE DELAY PACKAGE.
 2. AUTOMATIC RESET.
 3. LOW AMBIENT CONTROL PACKAGE.
 4. HEAD PRESSURE CONTROL PACKAGE.

INDOOR VRF FAN COIL UNIT SCHEDULE

| UNIT NO. | MANUFACTURER | MODEL | AREA SERVING | TON | WEIGHT (LBS.) | SUPPLY FAN SECTION | | | ESP IN. W.C. | ELECTRICAL | | | PERFORMANCE | |
|----------|--------------|-------------|----------------|------|---------------|--------------------|-----------------|----------------|--------------|------------|------|-------|------------------------|------------------|
| | | | | | | CFM SUPPLY AIR | CFM OUTSIDE AIR | SYSTEM VOLTAGE | | WATTS | MCA | MOCPP | TOTAL COOLING CAPACITY | HEATING CAPACITY |
| VRF-1 | MITSUBISHI | SUZ-KF09NA | 1F COMMON AREA | 0.75 | 31 | 230 - 300 | 50 | 0.0 | 230/1160 | -- | 0.25 | 15 | 9.0 | 11.0 |
| VRF-2 | MITSUBISHI | SEZ-KD18NA4 | 1F COMMON AREA | 1.5 | 62 | 423 - 635 | 50 | 0.2 | 230/1160 | 96 | 1.0 | 15 | 17.2 | 21.6 |

NOTES:
 1. PROVIDE WITH FACTORY CLEANABLE MERV 13 FILTERS.
 2. PROVIDE WITH FACTORY WALL MOUNTED THERMOSTAT CONTROLLER, TITLE-24 COMPLIANT.
 3. PROVIDE WITH NON-FUSED DISCONNECT.
 4. EXTEND REFRIGERANT PIPING TO ASSOCIATED OUTDOOR CONDENSING UNIT ON ROOF. SIZE AND INSULATE REFRIGERANT PIPING PER MANUFACTURER'S GUIDELINES.

(HIGHWALL) COOLING ONLY FAN COIL UNIT SCHEDULE

| UNIT NO. | SERVING | MITSUBISHI MODEL | AIRFLOW (CFM) | TONS | COOLING CAPACITY (MBH) | HEATING CAPACITY (MBH) | REFRIGERANT | | ELECTRICAL DATA | | | | | WEIGHT (LBS.) | NOTES |
|----------|-----------------------------------|------------------|---------------|------|------------------------|------------------------|-------------|--------------|-----------------|-----|------|----|----|---------------|-----------|
| | | | | | | | LIQUID (IN) | SUCTION (IN) | MCA | FLA | VOLT | PH | HZ | | |
| FC-4 | ELEVATOR MACHINE ROOM - 1ST FLOOR | MSZ-GS18NA | 250 - 629 | 1.5 | 18.0 | -- | 1/4 | 1/2 | -- | -- | 208 | 1 | 60 | 28 | SEE BELOW |

NOTES:
 1. PROVIDE WITH FACTORY CLEANABLE MERV 13 FILTERS.
 2. PROVIDE WITH FACTORY WALL MOUNTED THERMOSTAT CONTROLLER, TITLE-24 COMPLIANT.
 3. PROVIDE WITH FACTORY CONDENSATE PUMP WITH SEPARATE PUMP IF REQUIRED, AND ASSOCIATED CONTROLS.
 4. PROVIDE WITH NON-FUSED DISCONNECT.
 5. ROUTE REFRIGERANT PIPING TO ASSOCIATED OUTDOOR CONDENSING UNIT ON ROOF, SIZED AND INSULATED PER MFG'S RECOMMENDATIONS.
 6. POWERED BY OUTDOOR UNIT.

(OUTDOOR) COOLING ONLY CONDENSING UNIT SCHEDULE

| UNIT NO. | SERVING | MITSUBISHI MODEL | TONS | COOLING CAPACITY (MBH) | HEATING CAPACITY (MBH) | EER/SEER | COP | ELECTRICAL DATA | | | | | WEIGHT (LBS.) | NOTES |
|----------|-----------------------------------|------------------|------|------------------------|------------------------|-----------|-----|-----------------|-------|------|----|----|---------------|-----------|
| | | | | | | | | MCA | MOCPP | VOLT | PH | HZ | | |
| CU-1 | ELEVATOR MACHINE ROOM - 1ST FLOOR | MUZ-GS18NA | 1.5 | 18.0 | -- | 13.5/20.5 | -- | 12 | 15 | 208 | 1 | 60 | 119 | SEE BELOW |

NOTES:
 1. CONDENSING UNIT SHALL BE LISTED IN TITLE 24 CALIFORNIA CERTIFIED APPLIANCE DATABASE.
 2. PROVIDE ACCESSORY TUBING KITS/VALVES, COMPATIBLE TO FAN COIL UNIT.
 3. PROVIDE WITH LOW AMBIENT KIT.
 4. PROVIDE WITH 2" NEOPRENE PAD AND ROOF CURB.

CONTROLS

HVAC CONTROLS - SPLIT SYSTEM

| THERMOSTAT |
|---|
| PROVIDE WITH FACTORY THERMOSTAT, OR APPROVED EQUAL, 7-DAY PROGRAMMABLE MULTI-STAGE HEATING/COOLING AUTOMATIC CHANGEOVER THERMOSTAT TO CONTROL THE OPERATION OF EACH UNIT. MOUNT THERMOSTAT AT 4'-0" A.F.F. |
| SEQUENCE OF OPERATION |
| SPLIT SYSTEM HEAT PUMP: COOLING CYCLE: UPON A RISE IN SPACE TEMPERATURE ABOVE THE OCCUPIED COOLING SETPOINT OF THE THERMOSTAT, THE REFRIGERATION SYSTEM AND SUPPLY AIR FAN SHALL CYCLE AS REQUIRED TO MAINTAIN SPACE TEMPERATURE AT THE THERMOSTAT SETPOINT. HEATING CYCLE: UPON A DROP IN SPACE TEMPERATURE BELOW THE OCCUPIED HEATING SETPOINT OF THE THERMOSTAT, THE REFRIGERATION SYSTEM AND SUPPLY FAN SHALL CYCLE AS REQUIRED TO MAINTAIN SPACE TEMPERATURE AT THE THERMOSTAT SETPOINT. |

HVAC CONTROLS - HIGH WALL SPLIT SYSTEM

| THERMOSTAT |
|---|
| EACH UNIT TO BE PROVIDED WITH FACTORY THERMOSTAT. |
| SEQUENCE OF OPERATION |
| PACKAGED HIGH WALL-MOUNTED FAN COIL UNIT, DX COOLING ONLY: 1. THE SPACE WILL BE DIRECTLY CONTROLLED BY ITS OWN DEDICATED WALL-MOUNTED CONTROLLER. 2. COOLING OPERATION: THE CONTROLLER COMPARES THE COOLING SETPOINT WITH THE SPACE TEMPERATURE AND DETERMINES A COOLING SIGNAL. THIS SIGNAL SHALL ACTIVATE THE LEAD AC UNIT TO MAINTAIN THE ROOM SETPOINT. 3. OPERATION: THE AC UNIT WILL OPERATE CONTINUOUSLY TO ENSURE THE ROOM MAINTAINS SETPOINT. 4. MONITORING: THE FOLLOWING CONDITIONS SHALL BE MONITORED: ROOM TEMPERATURE, ROOM SETPOINT, CURRENT MODE (COOLING/FAN), FAN STATUS THRU CURRENT SWITCH. 5. ALARMS - THE FOLLOWING CONDITIONS SHALL TRIGGER A GENERAL ALARM AND AN EMAIL SHALL BE SENT TO THE SYSTEM OPERATOR: 5.1. IF ROOM TEMPERATURE IS GREATER THAN 5° F ABOVE SETPOINT FOR 5 MINUTES. 5.2. IF FAN IS COMMANDED ON AND FAN CURRENT SWITCH DETECTS FAN IS OFF. 5.3. IF FAN IS COMMANDED OFF AND FAN CURRENT SWITCH DETECTS FAN IS ON. |

EXHAUST FAN SCHEDULE

| UNIT NO. | TYPE | MAKE | AREA SERVING | DUCT SIZES | CFM | WATTS (HP) | ELECTRICAL DATA | | | OPER. WEIGHT (LBS.) | REMARKS |
|----------|---------|-------------------------|-------------------|------------|----------------|------------|-----------------|-------|------|---------------------|---|
| | | | | | | | VOLTS | PHASE | FLA | | |
| EF-1 | ROOF | GREENHECK LD-70 | ELEVATOR HOISTWAY | 8"x8" | 250 @ .25 S.P. | 73.0 | 120 | 1 | -- | 37 LBS. | PROVIDE WITH BACKDRAFT DAMPER. INTERLOCK EXHAUST FAN WITH TIME CLOCK TO ACTIVATE DURING OCCUPIED HOURS. |
| CEF-1 | CEILING | GREENHECK SP-A90-130-VG | BATHROOMS | 6"Ø | 110 @ .25 S.P. | 12.7 | 115 | 1 | .31 | 15 LBS. | PROVIDE WITH BACKDRAFT DAMPER. PROVIDE FAN SWITCH NEXT TO LIGHT SWITCH. |
| CEF-2 | CEILING | GREENHECK SP-A190 | TRASH / RECYCLE | 8"x6" | 185 @ .25 S.P. | 49.2 | 115 | 1 | .32 | 17 LBS. | PROVIDE WITH BACKDRAFT DAMPER. PROVIDE FAN SWITCH NEXT TO LIGHT SWITCH. |
| CEF-3 | CEILING | GREENHECK CSP-A1050-VG | IF TRASH ROOM | 10"Ø | 500 @ .25 S.P. | 125 | 115 | 1 | 4.75 | 49 LBS. | PROVIDE WITH BACKDRAFT DAMPER AND HANGING VIBRATION ISOLATOR KIT. EXHAUST FAN TO OPERATE CONTINUOUSLY. |

SCHEDULES OF DIFFUSERS AND GRILLES

| UNIT NO. | MANUFACTURER | MODEL | SIZE OF DIFFUSER | NOTES |
|----------|--------------|--------|------------------|---------|
| S1, E1 | DAYTON | 20UA07 | 12" X 12" | 4, 6 |
| R1, T1 | TITUS | 50F | 24" X 24" | 1, 4, 5 |
| R2 | TITUS | 250-B | AS SHOWN | 2, 4, 5 |
| S2 | TITUS | CT-580 | 4 FT LONG | 3, 4, 5 |
| E2 | DAYTON | 20UA07 | 24" X 18" | 4, 6 |
| S3 | TITUS | 250 | AS SHOWN | 4, 5, 7 |
| R3 | TITUS | 50F | 12" X 12" | 1, 4 |

NOTES:
 1. 1/2" X 1/2" X 1/2" EGGCRATE RETURN / RELIEF AIR GRILLE.
 2. ANGLED RETURN GRILLE, CEILING-MOUNTED; AIM VANES TOWARD NEAREST WALL. WALL-MOUNTED: AIM VANES UPWARD.
 3. ALUMINUM LINEAR BAR SUPPLY AIR GRILLE, 1/8" BARS, 1/4" SPACING, 0° DEFLECTION.
 4. FURNISH ALL AIR DEVICES WITH APPROPRIATE FRAME FOR CEILING / WALL CONSTRUCTION TYPE.
 5. IF WALL-MOUNTED, PAINT TO MATCH ADJACENT FINISH AND INSTALL W/ BLADES ANGLED UPWARD. IF CEILING MOUNTED, INSTALL W/ BLADES ANGLED TOWARDS NEAREST WALL.
 6. STATIONARY INTAKE/EXHAUST LOUVER WITH BIRD SCREEN AND FLANGE KIT.
 7. ADJUSTABLE 4 WAY DISCHARGE SUPPLY AIR CEILING DIFFUSER.

KITCHEN HOOD SCHEDULE

| UNIT NO. | TYPE | MAKE | DUCT SIZES | MAX CFM | LENGTH | REMARKS |
|----------|--------------|--------------|------------|---------|--------|--|
| KH-1 | WALL MOUNTED | GE JVX3240SJ | N/A | 200 | 24" | REFER TO 10/M401 FOR MANUFACTURER CUTSHEETS. |

ROOF-MOUNTED SUPPLY FAN SCHEDULE

| SYMBOL | MAKE | MODEL | AREA SERVING | CFM | HP | ELECTRICAL DATA | | | OPER. WEIGHT (LBS.) | NOTES |
|--------|-----------|---------|-----------------------|------------------|-----|-----------------|-------|-------|---------------------|-----------|
| | | | | | | AMPS | VOLTS | PHASE | | |
| SF-1 | GREENHECK | SAF-112 | CORRIDOR / TRASH ROOM | 1,220 @ .25 S.P. | 1/4 | 5.8 | 115 | 1 | 185 LBS. | SEE BELOW |

NOTES:
 1. PROVIDE MIN. MERV 13 FILTERS ON ALL SUPPLY AIR FANS. CONTRACTOR TO CONSTRUCT FILTER BOX CAPABLE OF HOUSING FILTERS IF NOT INCLUDED WITH EQUIPMENT SCHEDULED.
 2. PROVIDE W/ FACTORY ROOF CURB AND FILTER BOX. SUPPLY FAN TO OPERATE CONTINUOUSLY.



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CLIENT:

JAIME PARTNERS OF CALIFORNIA, INC.

1050 S. FLOWER STREET
 LOS ANGELES, CA 90015

PROJECT:

2853 WEST BLVD
 LOS ANGELES, CA 90016

C-JAIME-001

| # | DESCRIPTION | DATE |
|---|----------------------|----------|
| | 1ST SUBMITTAL | 10/04/21 |
| | UTILITY COORDINATION | 04/08/22 |
| △ | PC RESUBMITTAL | 05/18/22 |
| △ | PC RESUBMITTAL | 10/28/22 |
| △ | HCD REVISION 1 | 12/16/22 |
| △ | PC RESUBMITTAL | 02/02/23 |
| △ | HCD & PC RESUBMITTAL | 06/06/23 |
| △ | HCD RESUBMITTAL | 06/14/23 |
| △ | PC RESUBMITTAL | 07/10/23 |
| △ | PC RESUBMITTAL | 02/27/24 |

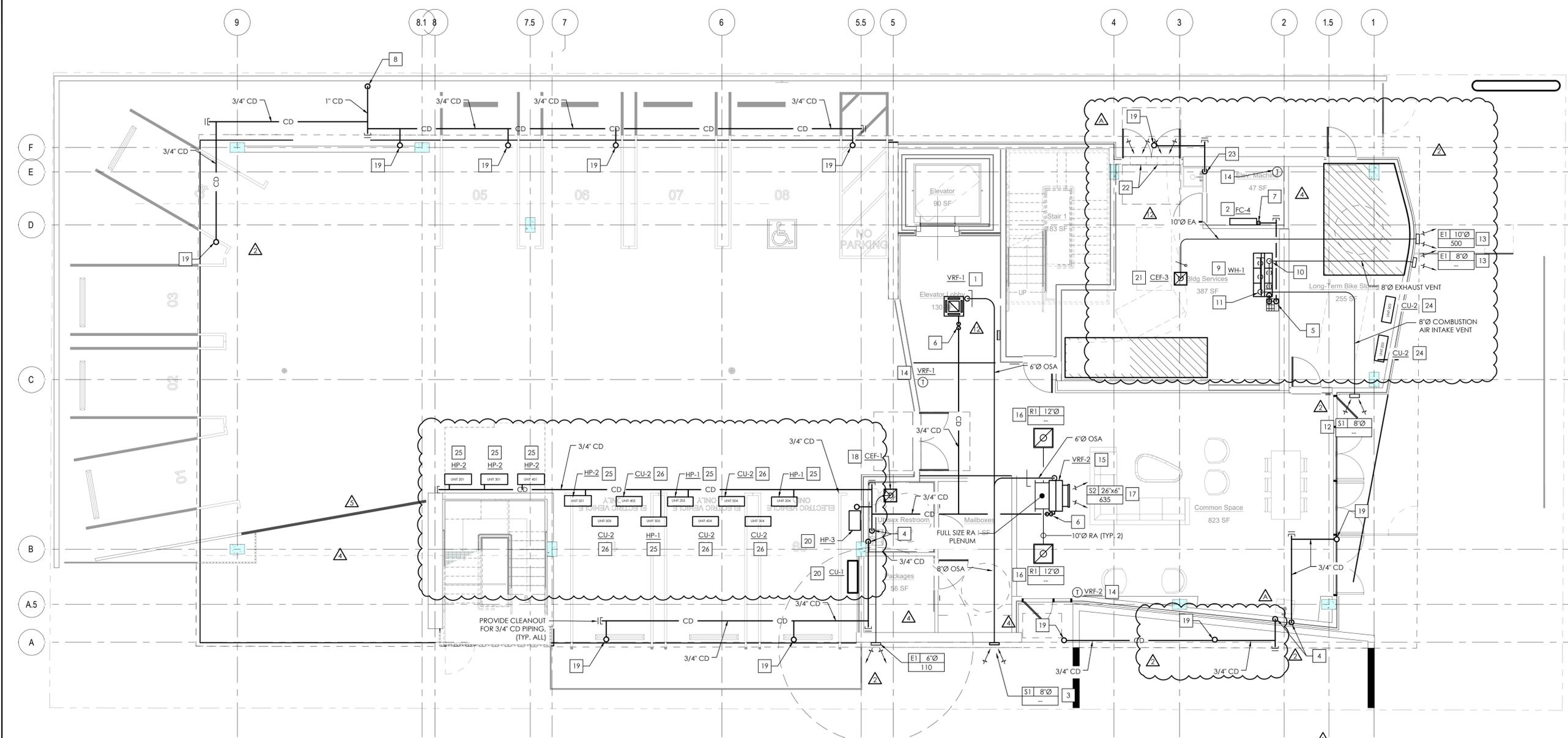
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SHEET TITLE:

SCHEDULES, SEQUENCES AND CONTROLS

SHEET NO:

M003



LEVEL 1 HVAC PLAN SCALE 3/16" = 1'-0" 1

PLAN NOTES

- A. REFER TO SHEET M001 FOR GENERAL MECHANICAL INFORMATION AND M002 FOR HVAC SPECIFICATIONS.
- B. REFER TO SHEET M003 FOR ALL SCHEDULES, SEQUENCES AND CONTROLS.
- C. REFER TO SHEET M401 FOR DETAILS.
- D. REFER TO SHEET M402 FOR OSA CALCULATIONS.
- E. REFER TO MANUFACTURER'S GUIDELINES FOR PROPER INSTALLATION AND EQUIPMENT CLEARANCES.
- F. ALL CONDENSATE DRAIN PIPING TO MAINTAIN MINIMUM SLOPE OF 1/8" PER FT.
- G. PROVIDE ACCESS PANEL IN DUCT FOR INSPECTION / MAINTENANCE OF EACH FSD SHOWN ON PLANS.

KEY NOTES

- # NUMBERS INDICATE NOTES SHOWN ON PLAN
- 1. CEILING MOUNTED VRF CASSETTE SERVING CONDITIONED SPACE, AS SHOWN.
- 2. INDOOR HIGHWALL FAN COIL UNIT FOR ELEVATOR MACHINE ROOM.
- 3. ROUTE 8" OSA DUCT THRU EXTERIOR WALL TO INTAKE LOUVER.
- 4. ROUTE 3/4" CONDENSATE DRAIN PIPING DOWN TO DISCHARGE INTO TAILPIECE OF SINK.
- 5. ROUTE 3/4" CONDENSATE DRAIN PIPING DOWN TO DISCHARGE INTO FLOOR SINK WITH MIN. 2" AIR GAP.
- 6. 3/4" CONDENSATE DRAIN PIPING W/ NEGATIVE P-TRAP PUMPED UP FROM VRF CASSETTE'S INTEGRAL PUMP.
- 7. 3/4" CONDENSATE DRAIN PIPING W/ NEGATIVE P-TRAP FROM HIGH WALL FAN COIL UNIT.
- 8. ROUTE CONDENSATE DRAIN PIPING DOWN TO DISCHARGE INTO PLANTER AREA WITH MIN. 2" AIR GAP.
- 9. CIRCULATING WATER HEATER. REFER TO PLUMBING DRAWINGS FOR SPECIFICATIONS.
- 10. 8" COMMON EXHAUST VENT. REFER TO MANUFACTURER'S GUIDELINES FOR PROPER INSTALLATION.
- 11. 8" COMMON COMBUSTION AIR INTAKE VENT. REFER TO MANUFACTURER'S GUIDELINES FOR PROPER INSTALLATION.
- 12. PROVIDE SIDEWALL INTAKE GRILLE FOR COMBUSTION AIR INTAKE VENT. PROVIDE WEATHERTIGHT SEALING PER MANUFACTURER'S GUIDELINES.
- 13. PROVIDE SIDEWALL EXHAUST GRILLE FOR EXHAUST AIR VENT. PROVIDE WEATHERTIGHT SEALING PER MANUFACTURER'S GUIDELINES.
- 14. PROGRAMMABLE THERMOSTAT WITH INSULATED BACKPLATE. VERIFY EXACT LOCATION WITH END USER.
- 15. CEILING MOUNTED VRF FAN COIL UNIT SERVING CONDITIONED SPACE, AS SHOWN.
- 16. RA DUCT DOWN TO LAY-IN CEILING GRILLE.
- 17. PROVIDE FULL SIZE SA DUCT TO SIDEWALL GRILLE FOR HORIZONTAL DISCHARGE.
- 18. CEILING-MOUNTED EXHAUST FAN. PROVIDE 6" EA DUCT THRU EXTERIOR WALL TO EXHAUST LOUVER.
- 19. 3/4" CONDENSATE DRAIN PIPING DOWN FROM HVAC UNIT LOCATED IN LEVEL 2.

- 20. WALL-MOUNTED OUTDOOR CONDENSING UNIT/HEAT PUMP. PROVIDE HEAT PUMP WITH 3/4" CONDENSATE DRAIN PIPING TO DISCHARGE INTO TAILPIECE OF LAVATORY.
- 21. CEILING-SUSPENDED EXHAUST FAN. PROVIDE 10" EA DUCT THRU EXTERIOR WALL TO EXHAUST LOUVER.
- 22. PROVIDE LOUVERED DOOR(S) WITH A COMBINED MIN. FREE AREA OF 1.40 S.F. TO SERVE AS INTAKE FOR CEF-3.
- 23. 3/4" CONDENSATE DRAIN PIPING DOWN TO DISCHARGE INTO MOP SINK WITH MIN. 2" AIR GAP.
- 24. GRADE-MOUNTED OUTDOOR CONDENSING UNIT.
- 25. CEILING-SUSPENDED OUTDOOR HEAT PUMP. ROUTE 3/4" CD PIPING DOWN TO DISCHARGE INTO TAILPIECE OF LAVATORY.
- 26. CEILING-SUSPENDED OUTDOOR CONDENSING UNIT.

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LOS ANGELES, CA 90015

PROJECT:
2853 WEST BLVD
LOS ANGELES, CA 90016

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| △ | HCD RESUBMITTAL | 06/14/23 |
| △ | PC RESUBMITTAL | 07/10/23 |
| △ | PC RESUBMITTAL | 02/27/24 |

Plot Date: 3/5/2024 11:54:53 AM

SHEET TITLE:
LEVEL 1 HVAC PLAN

SHEET NO:
M101



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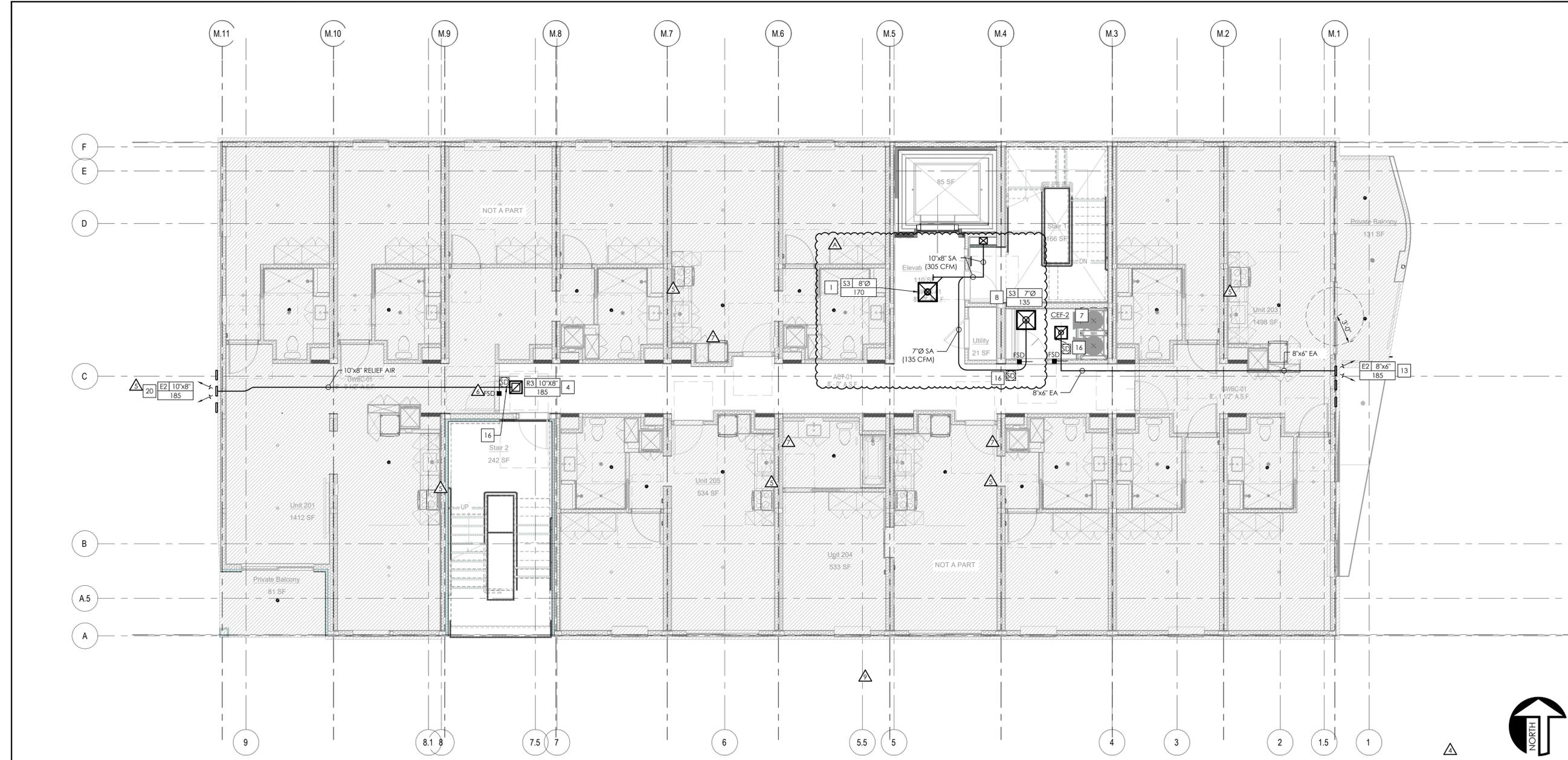
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SHEET TITLE:

**LEVEL 2
HVAC PLAN**

SHEET NO:

M102



LEVEL 2 HVAC PLAN SCALE 3/16" = 1'-0" 1

PLAN NOTES

- A. REFER TO SHEET M001 FOR GENERAL MECHANICAL INFORMATION AND M002 FOR HVAC SPECIFICATIONS.
- B. REFER TO SHEET M003 FOR ALL SCHEDULES, SEQUENCES AND CONTROLS.
- C. REFER TO SHEET M401 FOR DETAILS.
- D. REFER TO SHEET M402 FOR OSA CALCULATIONS.
- E. REFER TO SHEET M101 FOR CONTINUATIONS BELOW AND SHEET M103 FOR CONTINUATIONS ABOVE.
- F. REFER TO MANUFACTURER'S GUIDELINES FOR PROPER INSTALLATION AND EQUIPMENT CLEARANCES.
- G. ALL CONDENSATE DRAIN PIPING TO MAINTAIN MINIMUM SLOPE OF 1/8" PER FT.
- H. PROVIDE ACCESS PANEL IN DUCT FOR INSPECTION / MAINTENANCE OF EACH FSD SHOWN ON PLANS.
- I. THE BUILDING SYSTEM IS DESIGNED FOR CONTINUOUS OPERATION OF SUPPLY/EXHAUST VENTILATION.
- J. AIR LEAKAGE IN DWELLING UNITS SHALL BE LESS THAN OR EQUAL TO 0.3 CFM PER SQFT. OF DWELLING UNIT AT A DUCT STATIC PRESSURE OF 50 PASCALS (~0.2" W.C.).

KEY NOTES

- # NUMBERS INDICATE NOTES SHOWN ON PLAN
- 1. 8"Ø SA DUCT DOWN TO CEILING DIFFUSER FOR COMMON CORRIDOR VENTILATION.
- 2. NOT USED.
- 3. NOT USED.
- 4. RELIEF GRILLE SERVING CORRIDOR. PROVIDE 10"X8" RELIEF AIR DUCT (MIN. 26 GAUGE GALVANIZED STEEL) THRU FIRE-RATED WALL WITH MIN. 12" LONG BY 0.06" THICK STEEL SLEEVE, CENTERED IN EACH DUCT OPENING. DUCT PENETRATION MEETS ALL OF THE EXCEPTIONS LISTED IN SECTION 717.5.4 OF THE LABC.
- 5. NOT USED.
- 6. NOT USED.
- 7. CEILING-MOUNTED TRASH ROOM EXHAUST FAN W/ FACTORY BACKDRAFT DAMPER.
- 8. 7"Ø SA DUCT DOWN TO CEILING DIFFUSER.
- 9. NOT USED.
- 10. NOT USED.
- 11. NOT USED.
- 12. ROOM T-STAT. COORDINATE FINAL LOCATION WITH OWNER.
- 13. ROUTE DUCT THRU EXTERIOR WALL TO EXHAUST/RELIEF LOUVER.
- 14. NOT USED.
- 15. NOT USED.
- 16. PROVIDE DUCT SMOKE DETECTOR UPSTREAM OF FIRE SMOKE DAMPER (POTORFF MODEL FSD-341, OR OTHER UL 555/555S-RATED EQUAL) FOR 2 HR. FIRE-RATED WALL.
- 17. NOT USED.



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PROJECT:

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LOS ANGELES, CA 90016

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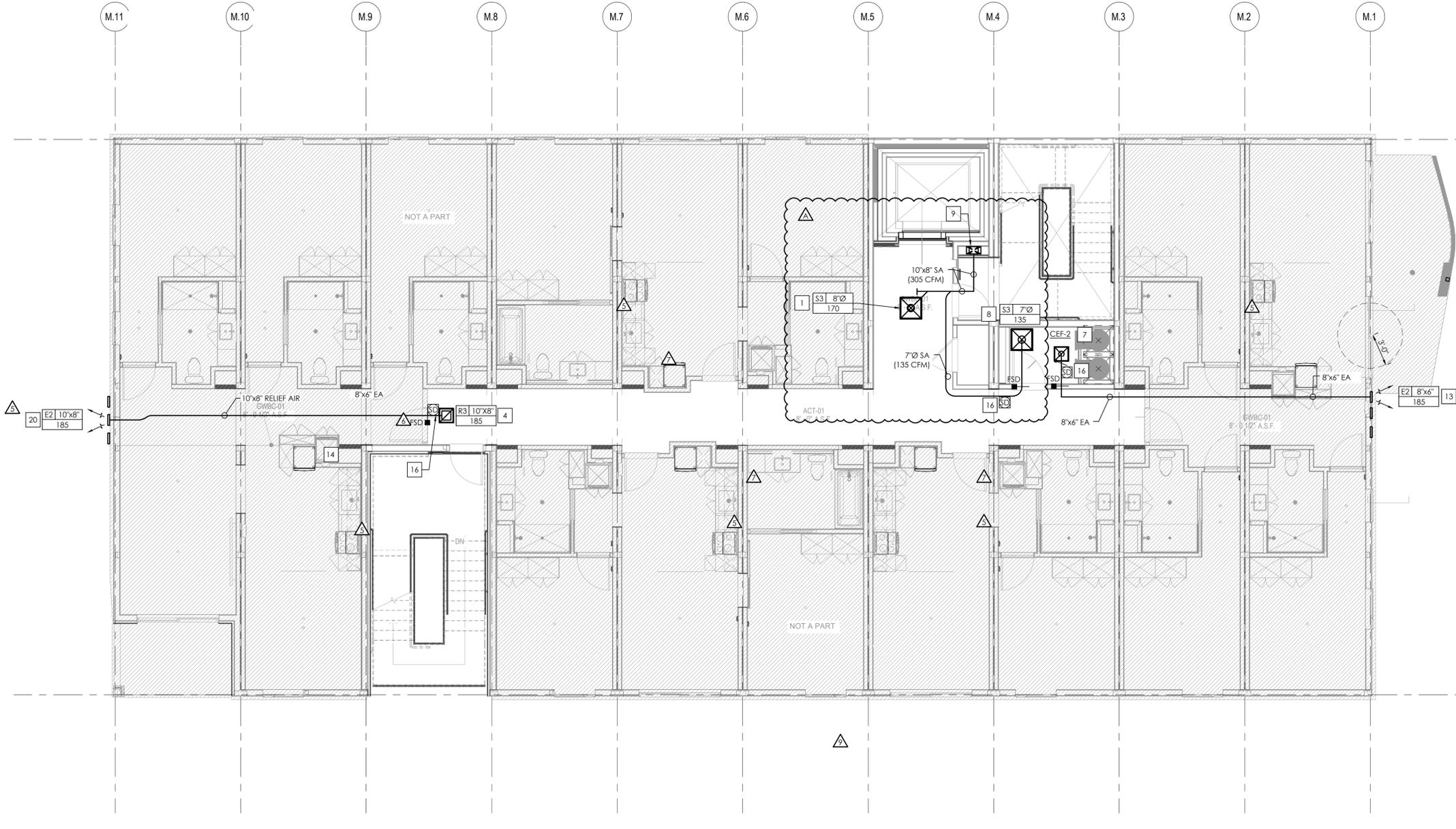
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SHEET TITLE:

**LEVEL 3
HVAC PLAN**

SHEET NO.:

M103



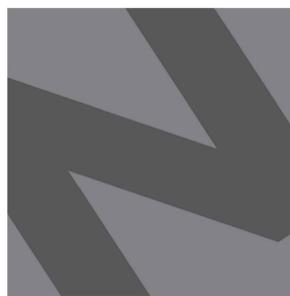
LEVEL 3 - HVAC PLAN SCALE 3/16" = 1'-0" 1

PLAN NOTES

- A. REFER TO SHEET M001 FOR GENERAL MECHANICAL INFORMATION AND M002 FOR HVAC SPECIFICATIONS.
- B. REFER TO SHEET M003 FOR ALL SCHEDULES, SEQUENCES AND CONTROLS.
- C. REFER TO SHEET M401 FOR DETAILS.
- D. REFER TO SHEET M402 FOR OSA CALCULATIONS.
- E. REFER TO SHEET M101 FOR CONTINUATIONS BELOW AND SHEET M103 FOR CONTINUATIONS ABOVE.
- F. REFER TO MANUFACTURER'S GUIDELINES FOR PROPER INSTALLATION AND EQUIPMENT CLEARANCES.
- G. ALL CONDENSATE DRAIN PIPING TO MAINTAIN MINIMUM SLOPE OF 1/8" PER FT.
- H. PROVIDE ACCESS PANEL IN DUCT FOR INSPECTION / MAINTENANCE OF EACH FSD SHOWN ON PLANS.
- I. THE BUILDING SYSTEM IS DESIGNED FOR CONTINUOUS OPERATION OF SUPPLY/EXHAUST VENTILATION.
- J. AIR LEAKAGE IN DWELLING UNITS SHALL BE LESS THAN OR EQUAL TO 0.3 CFM PER SQFT. OF DWELLING UNIT AT A DUCT STATIC PRESSURE OF 50 PASCALS (~0.2" W.C.).

KEY NOTES

- # NUMBERS INDICATE NOTES SHOWN ON PLAN
- 1. 8"Ø SA DUCT DOWN TO CEILING DIFFUSER FOR COMMON CORRIDOR VENTILATION.
- 2. NOT USED.
- 3. NOT USED.
- 4. RELIEF GRILLE SERVING CORRIDOR. PROVIDE 10"x8" RELIEF AIR DUCT (MIN. 26 GAUGE GALVANIZED STEEL) THRU FIRE-RATED WALL WITH MIN. 12" LONG BY 0.06" THICK STEEL SLEEVE, CENTERED IN EACH DUCT OPENING. DUCT PENETRATION MEETS ALL OF THE EXCEPTIONS LISTED IN SECTION 717.5.4 OF THE LABC.
- 5. NOT USED.
- 6. NOT USED.
- 7. CEILING-MOUNTED TRASH ROOM EXHAUST FAN W/ FACTORY BACKDRAFT DAMPER.
- 8. 7"Ø SA DUCT DOWN TO CEILING DIFFUSER.
- 9. PROVIDE 16"x8" SA DUCT TRANSITION TO 10"x8" SA AFTER BRANCH SERVING THIS FLOOR.
- 10. NOT USED.
- 11. NOT USED.
- 12. NOT USED.
- 13. ROUTE DUCT THRU EXTERIOR WALL TO EXHAUST/RELIEF LOUVER.
- 14. NOT USED.
- 15. NOT USED.
- 16. PROVIDE DUCT SMOKE DETECTOR UPSTREAM OF FIRE SMOKE DAMPER (POTORFF MODEL FSD-341, OR OTHER UL 555/555S-RATED EQUAL) FOR 2 HR. FIRE-RATED WALL.
- 17. NOT USED.
- 18. NOT USED.



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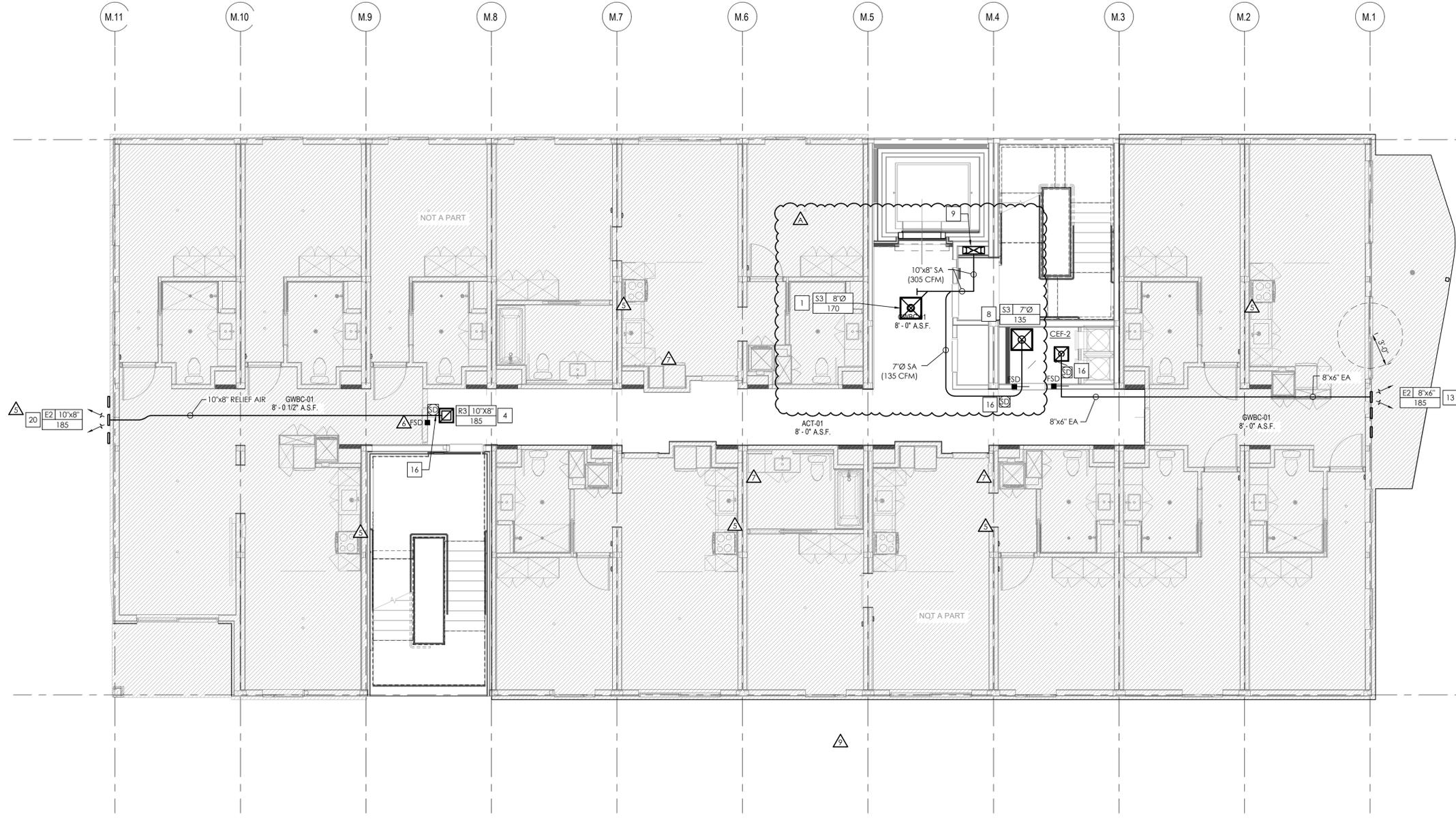
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SHEET TITLE:

**LEVEL 4
HVAC PLAN**

SHEET NO:

M104



LEVEL 4 - HVAC PLAN SCALE 3/16" = 1'-0" 1

PLAN NOTES

- A. REFER TO SHEET M001 FOR GENERAL MECHANICAL INFORMATION AND M002 FOR HVAC SPECIFICATIONS.
- B. REFER TO SHEET M003 FOR ALL SCHEDULES, SEQUENCES AND CONTROLS.
- C. REFER TO SHEET M401 FOR DETAILS.
- D. REFER TO SHEET M402 FOR OSA CALCULATIONS.
- E. REFER TO SHEET M101 FOR CONTINUATIONS BELOW AND SHEET M103 FOR CONTINUATIONS ABOVE.
- F. REFER TO MANUFACTURER'S GUIDELINES FOR PROPER INSTALLATION AND EQUIPMENT CLEARANCES.
- G. ALL CONDENSATE DRAIN PIPING TO MAINTAIN MINIMUM SLOPE OF 1/8" PER FT.
- H. PROVIDE ACCESS PANEL IN DUCT FOR INSPECTION / MAINTENANCE OF EACH FSD SHOWN ON PLANS.
- I. THE BUILDING SYSTEM IS DESIGNED FOR CONTINUOUS OPERATION OF SUPPLY/EXHAUST VENTILATION.
- J. AIR LEAKAGE IN DWELLING UNITS SHALL BE LESS THAN OR EQUAL TO 0.3 CFM PER SQFT. OF DWELLING UNIT AT A DUCT STATIC PRESSURE OF 50 PASCALS (~0.2" W.C.).

KEY NOTES

- # NUMBERS INDICATE NOTES SHOWN ON PLAN
- 1. 8" SA DUCT DOWN TO CEILING DIFFUSER FOR COMMON CORRIDOR VENTILATION.
- 2. NOT USED.
- 3. NOT USED.
- 4. RELIEF GRILLE SERVING CORRIDOR. PROVIDE 10'x8' RELIEF AIR DUCT (MIN. 26 GAUGE GALVANIZED STEEL) THRU FIRE-RATED WALL WITH MIN. 12" LONG BY 0.06" THICK STEEL SLEEVE, CENTERED IN EACH DUCT OPENING. DUCT PENETRATION MEETS ALL OF THE EXCEPTIONS LISTED IN SECTION 717.5.4 OF THE IBC.
- 5. NOT USED.
- 6. NOT USED.
- 7. CEILING-MOUNTED TRASH ROOM EXHAUST FAN W/ FACTORY BACKDRAFT DAMPER.
- 8. 7" SA DUCT DOWN TO CEILING DIFFUSER.
- 9. PROVIDE 24'x8" SA DUCT TRANSITION TO 16'x8" SA AFTER BRANCH SERVING THIS FLOOR.
- 10. NOT USED.
- 11. NOT USED.
- 12. ROOM T-STAT. COORDINATE FINAL LOCATION WITH OWNER.
- 13. ROUTE DUCT THRU EXTERIOR WALL TO EXHAUST/RELIEF LOUVER.
- 14. NOT USED.
- 15. NOT USED.
- 16. PROVIDE DUCT SMOKE DETECTOR UPSTREAM OF FIRE SMOKE DAMPER (POTORFF MODEL FSD-341, OR OTHER UL 555/5555-RATED EQUAL) FOR 2 HR. FIRE-RATED WALL.
- 17. NOT USED.
- 18. NOT USED.



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CLIENT:

**JAIME PARTNERS
OF CALIFORNIA, INC.**

1050 S. FLOWER STREET
LOS ANGELES, CA 90015

PROJECT:

2853 WEST BLVD
LOS ANGELES, CA 90016

C-JAIME-001

| # | DESCRIPTION | DATE |
|---|----------------------|----------|
| | 1ST SUBMITTAL | 10/04/21 |
| | UTILITY COORDINATION | 04/08/22 |
| △ | PC RESUBMITTAL | 05/18/22 |
| △ | PC RESUBMITTAL | 10/28/22 |
| △ | HCD REVISION 1 | 12/16/22 |
| △ | PC RESUBMITTAL | 02/02/23 |
| △ | HCD & PC RESUBMITTAL | 06/06/23 |
| △ | HCD RESUBMITTAL | 06/14/23 |
| △ | PC RESUBMITTAL | 07/10/23 |
| △ | PC RESUBMITTAL | 02/27/24 |

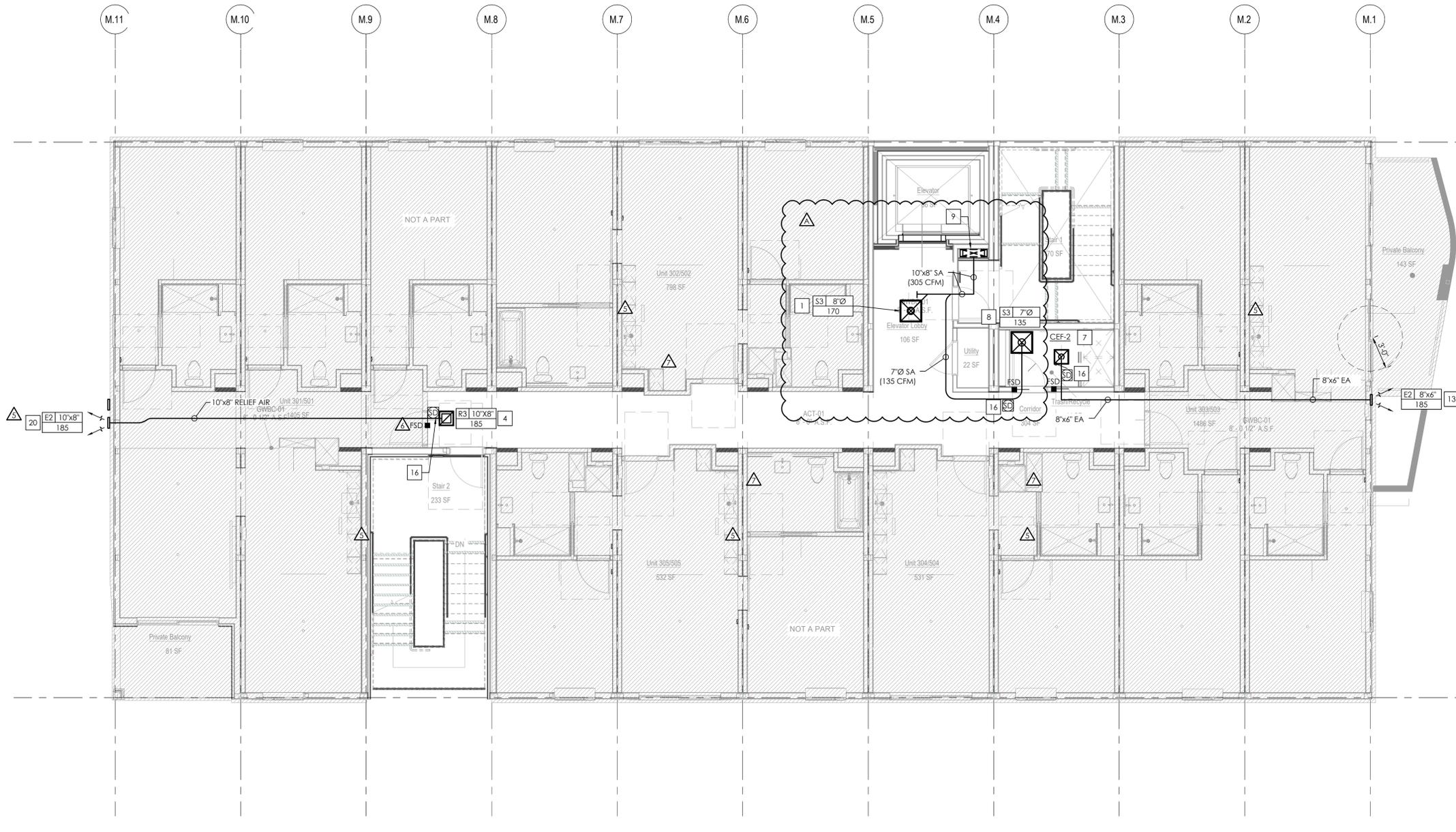
Plot Date: 3/5/2024 11:56:15 AM

SHEET TITLE:

**LEVEL 5
HVAC PLAN**

SHEET NO.:

M105



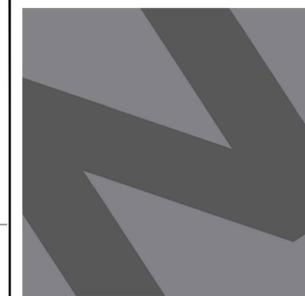
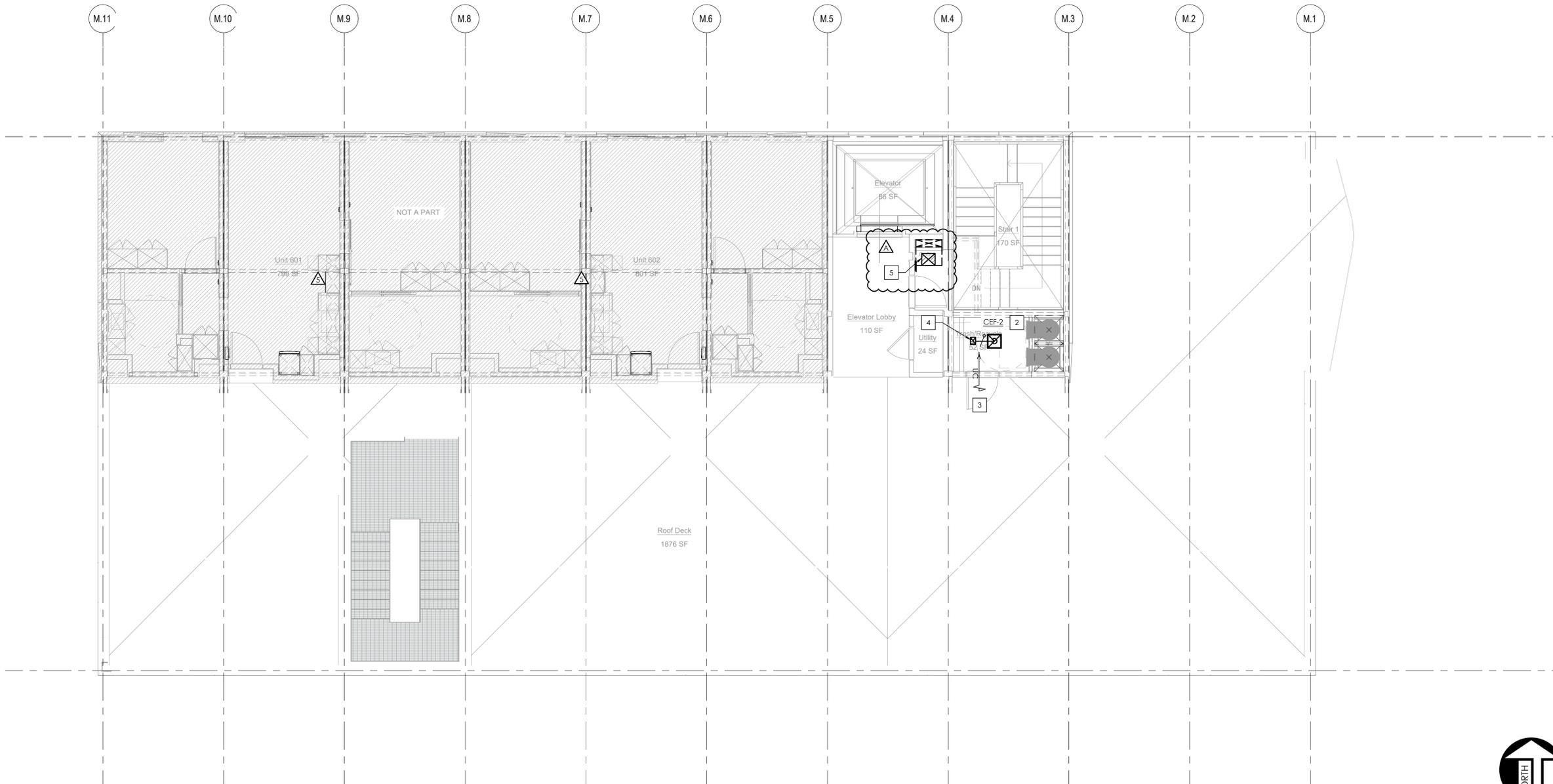
LEVEL 5 HVAC PLAN SCALE 3/16" = 1'-0" 1

PLAN NOTES

- A. REFER TO SHEET M001 FOR GENERAL MECHANICAL INFORMATION AND M002 FOR HVAC SPECIFICATIONS.
- B. REFER TO SHEET M003 FOR ALL SCHEDULES, SEQUENCES AND CONTROLS.
- C. REFER TO SHEET M401 FOR DETAILS.
- D. REFER TO SHEET M402 FOR OSA CALCULATIONS.
- E. REFER TO SHEET M101 FOR CONTINUATIONS BELOW AND SHEET M103 FOR CONTINUATIONS ABOVE.
- F. REFER TO MANUFACTURER'S GUIDELINES FOR PROPER INSTALLATION AND EQUIPMENT CLEARANCES.
- G. ALL CONDENSATE DRAIN PIPING TO MAINTAIN MINIMUM SLOPE OF 1/8" PER FT.
- H. PROVIDE ACCESS PANEL IN DUCT FOR INSPECTION / MAINTENANCE OF EACH FSD SHOWN ON PLANS.
- I. THE BUILDING SYSTEM IS DESIGNED FOR CONTINUOUS OPERATION OF SUPPLY/EXHAUST VENTILATION.
- J. AIR LEAKAGE IN DWELLING UNITS SHALL BE LESS THAN OR EQUAL TO 0.3 CFM PER SQFT. OF DWELLING UNIT AT A DUCT STATIC PRESSURE OF 50 PASCALS (~0.2" W.C.).

KEY NOTES

- # NUMBERS INDICATE NOTES SHOWN ON PLAN
- 1. 8"Ø SA DUCT DOWN TO CEILING DIFFUSER FOR COMMON CORRIDOR VENTILATION.
- 2. NOT USED.
- 3. NOT USED.
- 4. RELIEF GRILLE SERVING CORRIDOR. PROVIDE 10'x8' RELIEF AIR DUCT (MIN. 26 GAUGE GALVANIZED STEEL) THRU FIRE-RATED WALL WITH MIN. 12" LONG BY 0.06" THICK STEEL SLEEVE, CENTERED IN EACH DUCT OPENING. DUCT PENETRATION MEETS ALL OF THE EXCEPTIONS LISTED IN SECTION 717.5.4 OF THE LABC.
- 5. NOT USED.
- 6. NOT USED.
- 7. CEILING-MOUNTED TRASH ROOM EXHAUST FAN W/ FACTORY BACKDRAFT DAMPER.
- 8. 7"Ø SA DUCT DOWN TO CEILING DIFFUSER.
- 9. PROVIDE 30'x8" SA DUCT TRANSITION TO 24'x8" SA AFTER BRANCH SERVING THIS FLOOR.
- 10. NOT USED.
- 11. NOT USED.
- 12. NOT USED.
- 13. ROUTE DUCT THRU EXTERIOR WALL TO EXHAUST/RELIEF LOUVER.
- 14. NOT USED.
- 15. NOT USED.
- 16. PROVIDE DUCT SMOKE DETECTOR UPSTREAM OF FIRE SMOKE DAMPER (POTORFF MODEL FSD-341, OR OTHER UL 555/5555-RATED EQUAL) FOR 2 HR. FIRE-RATED WALL.
- 17. NOT USED.
- 18. NOT USED.
- 19. NOT USED.



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 PHONE: (949) 716-9990 | FAX: (949) 716-9997

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 REGISTERED PROFESSIONAL ENGINEER
 CHRISOPHER M. 33489
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 1050 S. FLOWER STREET
 LOS ANGELES, CA 90015

PROJECT:
2853 WEST BLVD
 LOS ANGELES, CA 90016

C-JAIME-001

| # | DESCRIPTION | DATE |
|---|----------------------|----------|
| | 1ST SUBMITTAL | 10/04/21 |
| | UTILITY COORDINATION | 04/08/22 |
| △ | PC RESUBMITTAL | 05/18/22 |
| △ | PC RESUBMITTAL | 10/28/22 |
| △ | HCD REVISION 1 | 12/16/22 |
| △ | PC RESUBMITTAL | 02/02/23 |
| △ | HCD & PC RESUBMITTAL | 06/06/23 |
| △ | HCD RESUBMITTAL | 06/14/23 |
| △ | PC RESUBMITTAL | 07/10/23 |
| △ | PC RESUBMITTAL | 02/27/24 |

Plot Date: 3/5/2024 11:55:57 AM

SHEET TITLE:
LEVEL 6 HVAC PLAN

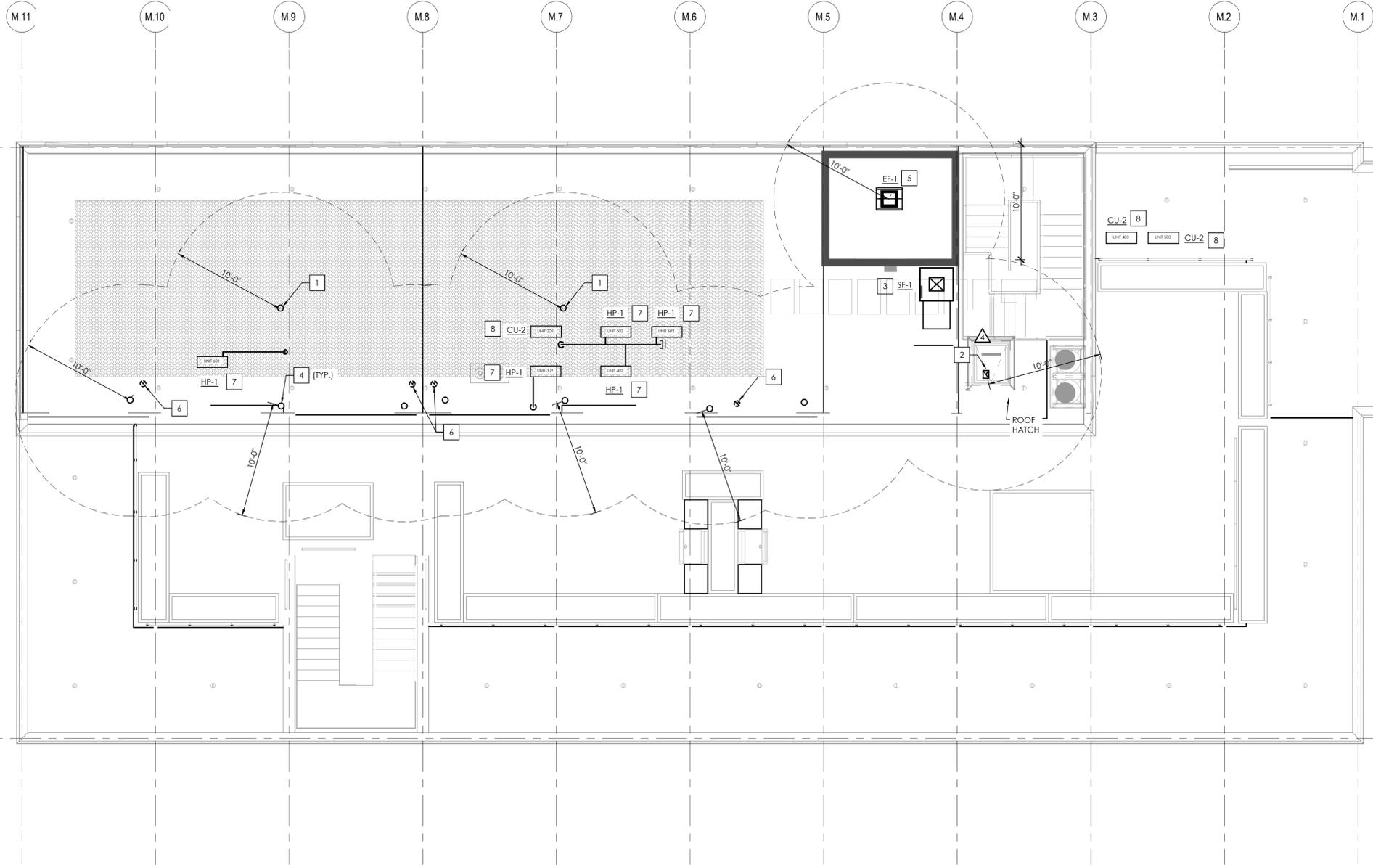
SHEET NO:
M106

PLAN NOTES

- A. REFER TO SHEET M001 FOR GENERAL MECHANICAL INFORMATION AND M002 FOR HVAC SPECIFICATIONS.
- B. REFER TO SHEET M003 FOR ALL SCHEDULES, SEQUENCES AND CONTROLS.
- C. REFER TO SHEET M401 FOR DETAILS.
- D. REFER TO SHEET M402 FOR OSA CALCULATIONS.
- E. REFER TO SHEET M101 FOR CONTINUATIONS BELOW AND SHEET M103 FOR CONTINUATIONS ABOVE.
- F. REFER TO MANUFACTURER'S GUIDELINES FOR PROPER INSTALLATION AND EQUIPMENT CLEARANCES.
- G. ALL CONDENSATE DRAIN PIPING TO MAINTAIN MINIMUM SLOPE OF 1/8" PER FT.
- H. PROVIDE ACCESS PANEL IN DUCT FOR INSPECTION / MAINTENANCE OF EACH FSD SHOWN ON PLANS.
- I. THE BUILDING SYSTEM IS DESIGNED FOR CONTINUOUS OPERATION OF SUPPLY/EXHAUST VENTILATION.
- J. AIR LEAKAGE IN DWELLING UNITS SHALL BE LESS THAN OR EQUAL TO 0.3 CFM PER SQFT. OF DWELLING UNIT AT A DUCT STATIC PRESSURE OF 50 PASCALS (~0.2" W.C.).

KEY NOTES

- # NUMBERS INDICATE NOTES SHOWN ON PLAN
- 1. NOT USED.
 - 2. CEILING-MOUNTED TRASH ROOM EXHAUST FAN W/ FACTORY BACKDRAFT DAMPER.
 - 3. PROVIDE LOUVERED DOOR W/ MIN. FREE AREA OF 0.625 S.F.
 - 4. 8"x6" EA DUCT THRU ROOF W/ FACTORY ROOF JACK.
 - 5. PROVIDE DUCT TRANSITION DOWN FROM ROOF-MOUNTED SUPPLY FAN TO 30"x8" SA FLENUM. ROUTE 30"x8" SA DUCT DOWN THRU MECHANICAL CHASE.
 - 6. NOT USED.
 - 7. NOT USED.
 - 8. NOT USED.
 - 9. NOT USED.
 - 10. NOT USED.
 - 11. NOT USED.
 - 12. NOT USED.
 - 13. NOT USED.
 - 14. NOT USED.
 - 15. NOT USED.
 - 16. NOT USED.
 - 17. NOT USED.



ROOF PLAN SCALE 3/16" = 1'-0" 1

PLAN NOTES

- A. REFER TO SHEET M001 FOR GENERAL MECHANICAL INFORMATION AND M002 FOR HVAC SPECIFICATIONS.
- B. REFER TO SHEET M003 FOR ALL SCHEDULES, SEQUENCES AND CONTROLS.
- C. REFER TO SHEET M401 FOR DETAILS.
- D. REFER TO SHEET M402 FOR OSA CALCULATIONS.
- E. REFER TO SHEET M102 FOR CONTINUATIONS BELOW.
- F. REFER TO MANUFACTURER'S GUIDELINES FOR PROPER INSTALLATION AND EQUIPMENT CLEARANCES.
- G. ALL EXHAUST AIR AND PLUMBING VTR TO MAINTAIN 10' MINIMUM CLEARANCE FROM ANY OSA INTAKE.

KEY NOTES

- # NUMBERS INDICATE NOTES SHOWN ON PLAN
- 1. 7"Ø EA DTR W/ FACTORY ROOF JACK FROM KITCHEN HOOD.
- 2. 8"x6" EA DTR W/ FACTORY ROOF JACK FROM TRASH ROOM EXHAUST FAN.
- 3. ROOF-MOUNTED SUPPLY FAN WITH FACTORY ROOF CURB.
- 4. PLUMBING VENT THRU ROOF. REFER TO PLUMBING DRAWINGS FOR SIZE.
- 5. ROOF-MOUNTED EXHAUST FAN WITH FACTORY ROOF CURB SERVING ELEVATOR HOISTWAY.
- 6. 6"Ø EA DTR W/ ROOF CAP.
- 7. ROOF-MOUNTED HEAT PUMP WITH FACTORY ROOF CURB. ROUTE 3/4" CD PIPING DOWN THRU ROOF TO DISCHARGE INTO TAILPIECE OF SINK LOCATED INSIDE UNIT BELOW.
- 8. ROOF-MOUNTED CONDENSING UNIT WITH FACTORY ROOF CURB.



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1050 S. FLOWER STREET
LOS ANGELES, CA 90015

PROJECT:

2853 WEST BLVD
LOS ANGELES, CA 90016

C-JAIME-001

| # | DESCRIPTION | DATE |
|---|----------------------|----------|
| | 1ST SUBMITTAL | 10/04/21 |
| | UTILITY COORDINATION | 04/08/22 |
| △ | PC RESUBMITTAL | 05/18/22 |
| △ | PC RESUBMITTAL | 10/28/22 |
| △ | HCD REVISION 1 | 12/16/22 |
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| △ | HCD RESUBMITTAL | 06/14/23 |
| △ | PC RESUBMITTAL | 07/10/23 |
| △ | PC RESUBMITTAL | 02/27/24 |

Plot Date: 3/5/2024 11:55:21 AM

SHEET TITLE:

ROOF PLAN

SHEET NO:

M201

JVX3240SJ

GE Appliances 24" Under the Cabinet Hood

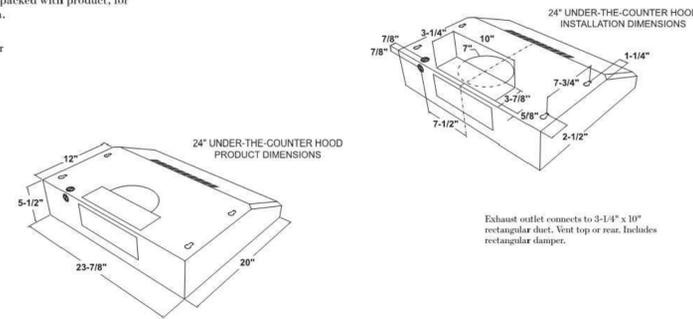
DIMENSIONS AND INSTALLATION INFORMATION (IN INCHES)

WB02X11537 replacement grease filter and JXCF53 replacement charcoal filter are available for additional cost. Call toll-free 800.626.2000.

Installation Information: Before installing, consult installation instructions packed with product, for current dimensional data.

Additional accessories:
JXDA22 optional damper

| AMP RATING | |
|------------|-----|
| 120V | 2.5 |



For answers to your Monogram, GE Café™, GE Profile™ or GE Appliances product questions, visit our website at appliances.com or call GE Answer Center® Service, 800.626.2000.



Specification Revised 6/20

JVX3240SJ

GE Appliances 24" Under the Cabinet Hood

FEATURES AND BENEFITS

Easy installation - 10 minutes or less by one person

Two-speed, 200-CFM venting system - Removes smoke, grease, odors and moisture

Front controls - Enjoy easy access and a subtle appearance

Cooktop lighting - Illuminate cooking space and surrounding surface

Convertible venting options - Select recirculating or external venting

Vertical and rear exhaust - Exhausts from the top or rear of the hood

Appearance (Partially enclosed bottom) - Enjoy easy access to hood interior

Dishwasher safe filter - Filters grease and is dishwasher-safe

Model JVX3240SJSS - Stainless steel

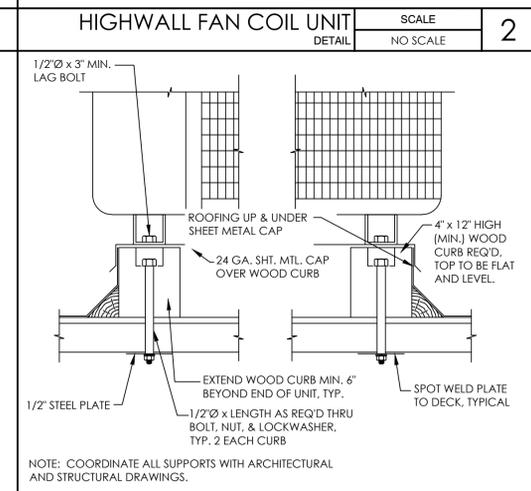
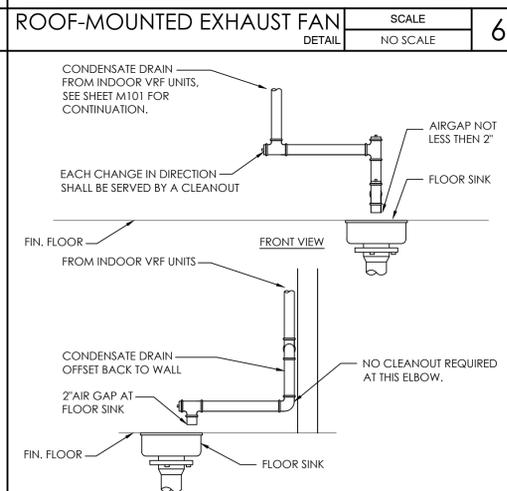
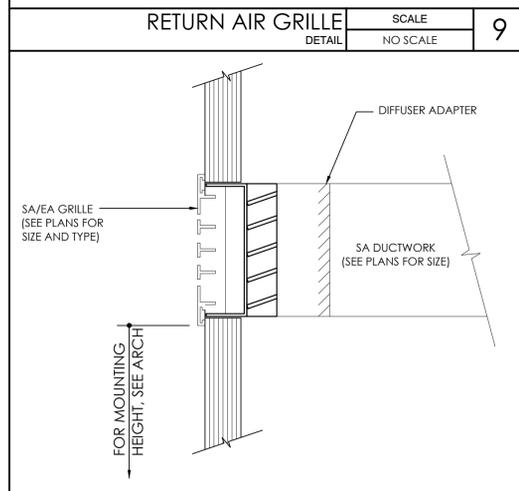
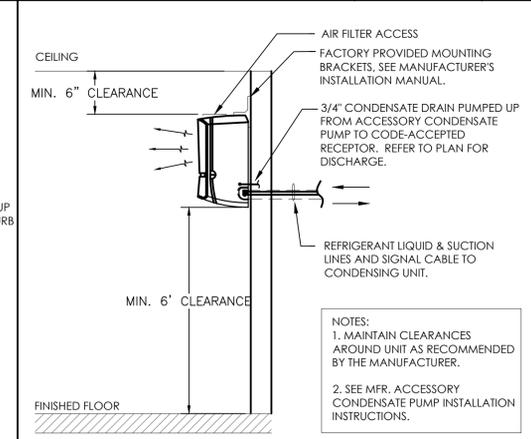
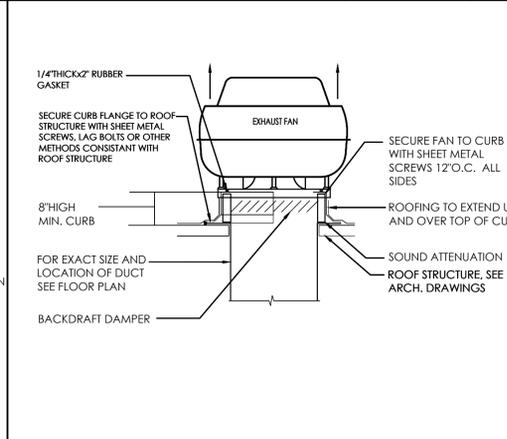
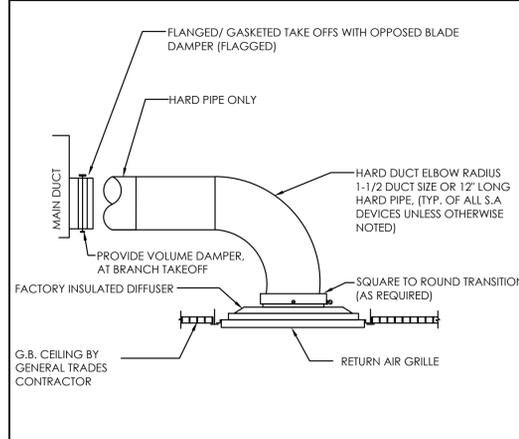
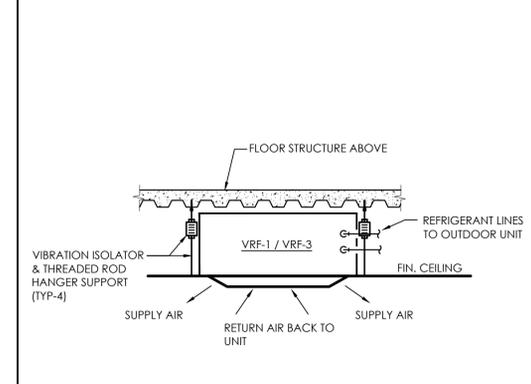
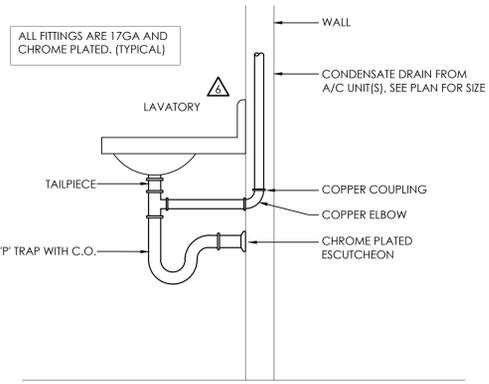
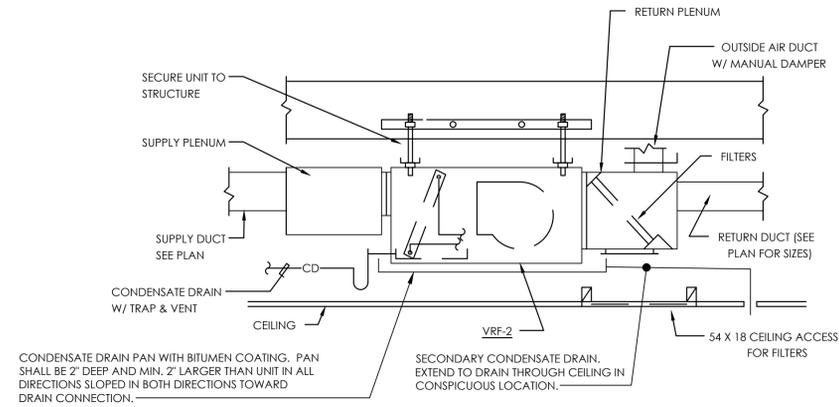


| CFM/SONES RATINGS | |
|-------------------------|---------|
| Exhaust High Speed (HS) | 200/6.5 |
| Exhaust Low Speed (LS) | 130/5.0 |



Specification Revised 6/20

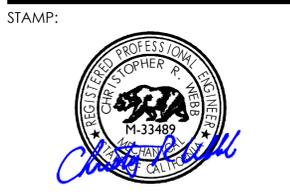
KITCHEN HOOD (KH-1) SCALE NO SCALE 10



SIDEWALL GRILLE SCALE NO SCALE 8

CONDENSATE DRAIN SCALE NO SCALE 5

CU / HP MOUNTING SCALE NO SCALE 1



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LOS ANGELES, CA 90015

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| C-JAIME-001 | | |
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| △ | PC RESUBMITTAL | 07/10/23 |
| △ | PC RESUBMITTAL | 02/27/24 |

Plot Date: 3/5/2024 11:55:13 AM

SHEET TITLE:

DETAILS

SHEET NO:

M401



| OUTDOOR AIRFLOW RATE CALCULATIONS (COMMON CORRIDORS) (COMPLIANT WITH 2019 CMC SECTION 403.0) | |
|--|--------------------------------|
| $V_{bz} = R_p P_z + R_o A_z$ (Breathing Zone CFM; Equation 403.2.1) | V_{bz} = 34 CFM |
| $R_p = 5$ CFM/Occupant (People outdoor air rate; Table 402.1 - Pg 77) | |
| $P_z = 2$ Occupants (Zone Population) | |
| $R_o = 0.06$ CFM/ft ² (Area outdoor air rate; Table 402.1 - Pg 77 [ASHRAE 62.1:6.2.2.1]) | |
| $A_z = 395$ ft ² (Net Occupiable Floor Area) | |
| $V_{bz} = 5 \times 2 + 0.06 \times 395$ | |
| $V_{bz} = 34$ | |
| $V_{oz} = V_{bz}/E_z$ (Zone outdoor airflow; Equation 403.2.3) | V_{oz} = 34 CFM |
| $E_z = 1$ (Zone air distribution effectiveness; Table 403.2.2 - Pg 79) | |
| $V_{oz} = 34 \div 1$ | |
| $V_{o1} = V_{oz} = 34$ CFM (Single zone system outdoor airflow rate; Equation 4.3) | |

| OUTDOOR AIRFLOW RATE CALCULATIONS (LVL. 1) (COMPLIANT WITH 2019 CMC SECTION 403.0) | |
|--|---------------------------------|
| $V_{bz} = R_p P_z + R_o A_z$ (Breathing Zone CFM; Equation 403.2.1) | V_{bz} = 116 CFM |
| $R_p = 5$ CFM/Occupant (People outdoor air rate; Table 402.1 - Pg 77) | |
| $P_z = 12$ Occupants (Zone Population) | |
| $R_o = 0.06$ CFM/ft ² (Area outdoor air rate; Table 402.1 - Pg 77 [ASHRAE 62.1:6.2.2.1]) | |
| $A_z = 930$ ft ² (Net Occupiable Floor Area) | |
| $V_{bz} = 5 \times 12 + 0.06 \times 930$ | |
| $V_{bz} = 116$ | |
| $V_{oz} = V_{bz}/E_z$ (Zone outdoor airflow; Equation 403.2.3) | V_{oz} = 116 CFM |
| $E_z = 1$ (Zone air distribution effectiveness; Table 403.2.2 - Pg 79) | |
| $V_{oz} = 116 \div 1$ | |
| $V_{o1} = V_{oz} = 116$ CFM (Single zone system outdoor airflow rate; Equation 4.3) | |

| OUTDOOR AIRFLOW RATE CALCULATIONS (LVL. 2-5, UNIT #4) (COMPLIANT WITH 2019 CMC SECTION 403.0) | |
|--|--------------------------------|
| $V_{bz} = R_p P_z + R_o A_z$ (Breathing Zone CFM; Equation 403.2.1) | V_{bz} = 63 CFM |
| $R_p = 5$ CFM/Occupant (People outdoor air rate; Table 402.1 - Pg 77) | |
| $P_z = 3$ Occupants (Zone Population) | |
| $R_o = 0.06$ CFM/ft ² (Area outdoor air rate; Table 402.1 - Pg 77 [ASHRAE 62.1:6.2.2.1]) | |
| $A_z = 798$ ft ² (Net Occupiable Floor Area) | |
| $V_{bz} = 5 \times 3 + 0.06 \times 798$ | |
| $V_{bz} = 63$ | |
| $V_{oz} = V_{bz}/E_z$ (Zone outdoor airflow; Equation 403.2.3) | V_{oz} = 63 CFM |
| $E_z = 1$ (Zone air distribution effectiveness; Table 403.2.2 - Pg 79) | |
| $V_{oz} = 63 \div 1$ | |
| $V_{o1} = V_{oz} = 63$ CFM (Single zone system outdoor airflow rate; Equation 4.3) | |

| OUTDOOR AIRFLOW RATE CALCULATIONS (LVL. 2-5, UNIT #1) (COMPLIANT WITH 2019 CMC SECTION 403.0) | |
|--|---------------------------------|
| $V_{bz} = R_p P_z + R_o A_z$ (Breathing Zone CFM; Equation 403.2.1) | V_{bz} = 104 CFM |
| $R_p = 5$ CFM/Occupant (People outdoor air rate; Table 402.1 - Pg 77) | |
| $P_z = 4$ Occupants (Zone Population) | |
| $R_o = 0.06$ CFM/ft ² (Area outdoor air rate; Table 402.1 - Pg 77 [ASHRAE 62.1:6.2.2.1]) | |
| $A_z = 1,395$ ft ² (Net Occupiable Floor Area) | |
| $V_{bz} = 5 \times 4 + 0.06 \times 1,395$ | |
| $V_{bz} = 104$ | |
| $V_{oz} = V_{bz}/E_z$ (Zone outdoor airflow; Equation 403.2.3) | V_{oz} = 104 CFM |
| $E_z = 1$ (Zone air distribution effectiveness; Table 403.2.2 - Pg 79) | |
| $V_{oz} = 104 \div 1$ | |
| $V_{o1} = V_{oz} = 104$ CFM (Single zone system outdoor airflow rate; Equation 4.3) | |

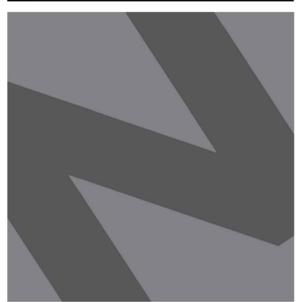
| OUTDOOR AIRFLOW RATE CALCULATIONS (LVL. 2-5, UNIT #5) (COMPLIANT WITH 2019 CMC SECTION 403.0) | |
|--|--------------------------------|
| $V_{bz} = R_p P_z + R_o A_z$ (Breathing Zone CFM; Equation 403.2.1) | V_{bz} = 63 CFM |
| $R_p = 5$ CFM/Occupant (People outdoor air rate; Table 402.1 - Pg 77) | |
| $P_z = 3$ Occupants (Zone Population) | |
| $R_o = 0.06$ CFM/ft ² (Area outdoor air rate; Table 402.1 - Pg 77 [ASHRAE 62.1:6.2.2.1]) | |
| $A_z = 801$ ft ² (Net Occupiable Floor Area) | |
| $V_{bz} = 5 \times 3 + 0.06 \times 801$ | |
| $V_{bz} = 63$ | |
| $V_{oz} = V_{bz}/E_z$ (Zone outdoor airflow; Equation 403.2.3) | V_{oz} = 63 CFM |
| $E_z = 1$ (Zone air distribution effectiveness; Table 403.2.2 - Pg 79) | |
| $V_{oz} = 63 \div 1$ | |
| $V_{o1} = V_{oz} = 63$ CFM (Single zone system outdoor airflow rate; Equation 4.3) | |

| OUTDOOR AIRFLOW RATE CALCULATIONS (LVL. 2-5, UNIT #2) (COMPLIANT WITH 2019 CMC SECTION 403.0) | |
|--|--------------------------------|
| $V_{bz} = R_p P_z + R_o A_z$ (Breathing Zone CFM; Equation 403.2.1) | V_{bz} = 63 CFM |
| $R_p = 5$ CFM/Occupant (People outdoor air rate; Table 402.1 - Pg 77) | |
| $P_z = 3$ Occupants (Zone Population) | |
| $R_o = 0.06$ CFM/ft ² (Area outdoor air rate; Table 402.1 - Pg 77 [ASHRAE 62.1:6.2.2.1]) | |
| $A_z = 798$ ft ² (Net Occupiable Floor Area) | |
| $V_{bz} = 5 \times 3 + 0.06 \times 798$ | |
| $V_{bz} = 63$ | |
| $V_{oz} = V_{bz}/E_z$ (Zone outdoor airflow; Equation 403.2.3) | V_{oz} = 63 CFM |
| $E_z = 1$ (Zone air distribution effectiveness; Table 403.2.2 - Pg 79) | |
| $V_{oz} = 63 \div 1$ | |
| $V_{o1} = V_{oz} = 63$ CFM (Single zone system outdoor airflow rate; Equation 4.3) | |

| OUTDOOR AIRFLOW RATE CALCULATIONS (LVL. 6, UNIT #1) (COMPLIANT WITH 2019 CMC SECTION 403.0) | |
|--|--------------------------------|
| $V_{bz} = R_p P_z + R_o A_z$ (Breathing Zone CFM; Equation 403.2.1) | V_{bz} = 63 CFM |
| $R_p = 5$ CFM/Occupant (People outdoor air rate; Table 402.1 - Pg 77) | |
| $P_z = 3$ Occupants (Zone Population) | |
| $R_o = 0.06$ CFM/ft ² (Area outdoor air rate; Table 402.1 - Pg 77 [ASHRAE 62.1:6.2.2.1]) | |
| $A_z = 798$ ft ² (Net Occupiable Floor Area) | |
| $V_{bz} = 5 \times 3 + 0.06 \times 798$ | |
| $V_{bz} = 63$ | |
| $V_{oz} = V_{bz}/E_z$ (Zone outdoor airflow; Equation 403.2.3) | V_{oz} = 63 CFM |
| $E_z = 1$ (Zone air distribution effectiveness; Table 403.2.2 - Pg 79) | |
| $V_{oz} = 63 \div 1$ | |
| $V_{o1} = V_{oz} = 63$ CFM (Single zone system outdoor airflow rate; Equation 4.3) | |

| OUTDOOR AIRFLOW RATE CALCULATIONS (LVL. 2-5, UNIT #3) (COMPLIANT WITH 2019 CMC SECTION 403.0) | |
|--|--------------------------------|
| $V_{bz} = R_p P_z + R_o A_z$ (Breathing Zone CFM; Equation 403.2.1) | V_{bz} = 69 CFM |
| $R_p = 5$ CFM/Occupant (People outdoor air rate; Table 402.1 - Pg 77) | |
| $P_z = 3$ Occupants (Zone Population) | |
| $R_o = 0.06$ CFM/ft ² (Area outdoor air rate; Table 402.1 - Pg 77 [ASHRAE 62.1:6.2.2.1]) | |
| $A_z = 903$ ft ² (Net Occupiable Floor Area) | |
| $V_{bz} = 5 \times 3 + 0.06 \times 903$ | |
| $V_{bz} = 69$ | |
| $V_{oz} = V_{bz}/E_z$ (Zone outdoor airflow; Equation 403.2.3) | V_{oz} = 69 CFM |
| $E_z = 1$ (Zone air distribution effectiveness; Table 403.2.2 - Pg 79) | |
| $V_{oz} = 69 \div 1$ | |
| $V_{o1} = V_{oz} = 69$ CFM (Single zone system outdoor airflow rate; Equation 4.3) | |

| OUTDOOR AIRFLOW RATE CALCULATIONS (LVL. 6, UNIT #2) (COMPLIANT WITH 2019 CMC SECTION 403.0) | |
|--|--------------------------------|
| $V_{bz} = R_p P_z + R_o A_z$ (Breathing Zone CFM; Equation 403.2.1) | V_{bz} = 63 CFM |
| $R_p = 5$ CFM/Occupant (People outdoor air rate; Table 402.1 - Pg 77) | |
| $P_z = 3$ Occupants (Zone Population) | |
| $R_o = 0.06$ CFM/ft ² (Area outdoor air rate; Table 402.1 - Pg 77 [ASHRAE 62.1:6.2.2.1]) | |
| $A_z = 799$ ft ² (Net Occupiable Floor Area) | |
| $V_{bz} = 5 \times 3 + 0.06 \times 799$ | |
| $V_{bz} = 63$ | |
| $V_{oz} = V_{bz}/E_z$ (Zone outdoor airflow; Equation 403.2.3) | V_{oz} = 63 CFM |
| $E_z = 1$ (Zone air distribution effectiveness; Table 403.2.2 - Pg 79) | |
| $V_{oz} = 63 \div 1$ | |
| $V_{o1} = V_{oz} = 63$ CFM (Single zone system outdoor airflow rate; Equation 4.3) | |



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CLIENT:

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OF CALIFORNIA, INC.**

1050 S. FLOWER STREET
LOS ANGELES, CA 90015

PROJECT:

2853 WEST BLVD
LOS ANGELES, CA 90016

| C-JAIME-001 | | |
|-------------|----------------------|----------|
| # | DESCRIPTION | DATE |
| | 1ST SUBMITTAL | 10/04/21 |
| | UTILITY COORDINATION | 04/08/22 |
| △ | PC RESUBMITTAL | 05/18/22 |
| △ | PC RESUBMITTAL | 10/28/22 |
| △ | HCD REVISION 1 | 12/16/22 |
| △ | PC RESUBMITTAL | 02/02/23 |
| △ | HCD & PC RESUBMITTAL | 06/06/23 |
| △ | HCD RESUBMITTAL | 06/14/23 |
| △ | PC RESUBMITTAL | 07/10/23 |
| △ | PC RESUBMITTAL | 02/27/24 |

Plot Date: 3/5/2024 11:56:01 AM

SHEET TITLE:

DETAILS

SHEET NO:

M402



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 D A T E O F I S S U A N C E O F T H E S E D O C U M E N T S .
 D U P L I C A T I O N O F T H E S E D O C U M E N T S O R T H E
 B U I L T - W O R K R E P R E S E N T E D B Y T H E M I S
 P R O H I B I T E D W I T H O U T T H E E X P R E S S , W R I T T E N
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 OF CALIFORNIA, INC.**
 1050 S. FLOWER STREET
 LOS ANGELES, CA 90015

PROJECT:

2853 WEST BLVD
 LOS ANGELES, CA 90016

C-JAIME-001

| # | DESCRIPTION | DATE |
|---|----------------------|----------|
| | 1ST SUBMITTAL | 10/04/21 |
| | UTILITY COORDINATION | 04/08/22 |
| △ | PC RESUBMITTAL | 05/18/22 |
| △ | PC RESUBMITTAL | 10/28/22 |
| △ | HCD REVISION 1 | 12/16/22 |
| △ | PC RESUBMITTAL | 02/02/23 |
| △ | HCD & PC RESUBMITTAL | 06/06/23 |
| △ | HCD RESUBMITTAL | 06/14/23 |
| △ | PC RESUBMITTAL | 07/10/23 |
| △ | PC RESUBMITTAL | 02/27/24 |

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SHEET TITLE:

**TITLE 24
 COMPLIANCE**

SHEET NO:

M801





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PROJECT:

2853 WEST BLVD
LOS ANGELES, CA 90016



C-JAIME-001

| # | DESCRIPTION | DATE |
|---|----------------------|----------|
| | 1ST SUBMITTAL | 10/04/21 |
| | UTILITY COORDINATION | 04/08/22 |
| ⚠ | PC RESUBMITTAL | 05/18/22 |
| ⚠ | PC RESUBMITTAL | 10/28/22 |
| ⚠ | HCD REVISION 1 | 12/16/22 |
| ⚠ | PC RESUBMITTAL | 02/02/23 |
| ⚠ | HCD & PC RESUBMITTAL | 06/06/23 |
| ⚠ | HCD RESUBMITTAL | 06/14/23 |
| ⚠ | PC RESUBMITTAL | 07/10/23 |
| ⚠ | PC RESUBMITTAL | 02/27/24 |

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SHEET TITLE:

**TITLE 24
COMPLIANCE**

SHEET NO:

M802

STATE OF CALIFORNIA
Mechanical Systems
NRCC-MCH-E 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: JAIME-001 Report Page: (Page 2 of 20)
Project Address: 2853 WEST BLVD Date Prepared: 10/4/2021

A. GENERAL INFORMATION

| | | | |
|--|---|--|-------------|
| 01 Project Location (city) | LOS ANGELES | 04 Total Conditioned Floor Area | 3725 |
| 02 Climate Zone | 8 | 05 Total Unconditioned Floor Area | 309 |
| 03 Occupancy Types Within Project: | | 06 # of Stories (Habitable Above Grade) | 6 |
| <input type="checkbox"/> Office (B) | <input type="checkbox"/> Retail (M) | <input checked="" type="checkbox"/> Non-refrigerated Warehouse (S) | |
| <input type="checkbox"/> Hotel/ Motel Guest Rooms (R-1) | <input type="checkbox"/> School (E) | <input type="checkbox"/> Healthcare Facility (I) | |
| <input type="checkbox"/> High-Rise Residential (R-2/R-3) | <input type="checkbox"/> Relocatable Class Bldg (E) | <input checked="" type="checkbox"/> Other (write in) | See Table J |

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 §140.5, or §141.0(b)2 for alterations.

| 01 | 02 | 03 |
|--|---|---|
| Air System(s) | Wet System Components | Dry System Components |
| <input checked="" type="checkbox"/> Heating Air System | <input type="checkbox"/> Water Economizer | <input type="checkbox"/> Air Economizer |
| <input checked="" type="checkbox"/> Cooling Air System | <input type="checkbox"/> Pumps | <input type="checkbox"/> Electric Resistance Heat |
| <input type="checkbox"/> Mechanical Controls | <input type="checkbox"/> System Piping | <input type="checkbox"/> Fan Systems |
| <input checked="" type="checkbox"/> Mechanical Controls (existing to remain, altered or new) | <input type="checkbox"/> Cooling Towers | <input checked="" type="checkbox"/> Ductwork (existing to remain, altered or new) |
| | <input type="checkbox"/> Chillers | <input checked="" type="checkbox"/> Ventilation |
| | <input type="checkbox"/> Boilers | <input type="checkbox"/> Zonal Systems/ Terminal Boxes |

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Registration Date/Time: Report Version: 2019.1.003
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STATE OF CALIFORNIA
Mechanical Systems
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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: JAIME-001 Report Page: (Page 2 of 20)
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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 \$110.1 \$110.2 \$140.4 | AND Pumps \$140.4(k) | AND Fans/ Economizers \$140.4(l) \$140.4(m) | AND System Controls \$110.2 \$120.2 \$140.4(f) | AND Ventilation \$120.1 | AND Terminal Box Controls \$140.4(d) | AND Distribution \$120.3 \$140.4(i) | AND Cooling Towers \$140.2(e)(2) | 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 | No | AND | Yes | AND | Yes | AND | COMPLIES |
| Mandatory Measures Compliance (See Table Q for Details) | | | | | | | | | |
| COMPLIES | | | | | | | | | |

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.

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STATE OF CALIFORNIA
Mechanical Systems
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 NRCC-MCH-E
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F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)
 This table is used to demonstrate compliance for mechanical equipment with mandatory requirements found in §110.1 and §110.2(a) and prescriptive requirements found in §140.4(a), §140.4(b) and §140.4(c) or §141.0(b)(2) for alterations.

| Dry System Equipment Sizing (Includes air conditioners, condensers, heat pumps, VRF, furnaces and unit heaters) | | | | | | | | | | |
|---|-------------------------------------|--|--|-------------------------------|------------------------------|-------------------------------|----------------|-----------------------------|--------------------------------------|----------------------------------|
| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 |
| Name or Item Tag | Equipment Category per Tables 110.2 | Equipment Type per Tables 110.2 / Title 20 | Smallest Size Available ¹ §140.4(a) | Heating Output ^{2,3} | | Cooling Output ^{2,3} | | Total Heating Load (kBtu/h) | Total Sensible Cooling Load (kBtu/h) | Load Calculations ^{2,4} |
| | | | | Per Design (kBtu/h) | Rated (kBtu/h) | Per Design (kBtu/h) | Rated (kBtu/h) | | | |
| | | | | Supp. Heating Output (kBtu/h) | Sensible Per Design (kBtu/h) | Rated (kBtu/h) | Rated (kBtu/h) | | | |
| HP-1 / VRF-1 / VRF-2 | Variable Refrigerant Flow | VRF heat pump, air cooled | NA: Load Controls | 69.56 | 66 | 0 | 59.82 | 57 | 86.16 | 102.43 |
| VHP-1 / HPAC-1 | Unitary Heat Pumps | Air-cooled, pkg (1phase) | NA: Load Controls | 154.03 | 11.5 | 0 | 173.83 | 10 | -108.54 | 193.92 |
| VHP-1 / HPAC-1 | Unitary Heat Pumps | Air-cooled, pkg (1phase) | NA: Load Controls | 154.03 | 11.5 | 0 | 173.82 | 10 | -122.51 | 189.69 |
| VHP-1 / HPAC-1 | Unitary Heat Pumps | Air-cooled, pkg (1phase) | NA: Load Controls | 154.03 | 11.5 | 0 | 173.81 | 10 | -126.3 | 188.52 |
| VHP-1 / HPAC-1 | Unitary Heat Pumps | Air-cooled, pkg (1phase) | NA: Load Controls | 154.03 | 11.5 | 0 | 173.87 | 10 | -114.85 | 208.45 |

FOOTNOTES: 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). Healthcare facilities are exempt.
² It 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).

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F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)
 Dry System Equipment Efficiency (other than Package Terminal Air Conditioners (PTAC) and Package Terminal Heat Pumps (PTHP))

| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 |
|----------------------|-----------------------|-----------------------|-----------------|---|-------------------|-----------------|---|-------------------|
| Name or Item Tag | Size Category (Btu/h) | Rating Condition ("F) | Heating Mode | | Cooling Mode | | | |
| | | | Efficiency Unit | Minimum Efficiency Required per Tables 110.2 / Title 20 | Design Efficiency | Efficiency Unit | Minimum Efficiency Required per Tables 110.2 / Title 20 | Design Efficiency |
| | | | | | | | | |
| HP-1 / VRF-1 / VRF-2 | <65,000 | 47 °Fdb/43 °Fwb OSA | HSPF | 7.7 | 10 | SEER | 13.0 | 18.6 |
| VHP-1 / HPAC-1 | <65,000 | | HSPF | 7.7 | 13 | SEER | 14.0 | 14 |
| VHP-1 / HPAC-1 | <65,000 | | HSPF | 7.7 | 13 | SEER | 14.0 | 14 |
| VHP-1 / HPAC-1 | <65,000 | | HSPF | 7.7 | 13 | SEER | 14.0 | 14 |
| VHP-1 / HPAC-1 | <65,000 | | HSPF | 7.7 | 13 | SEER | 14.0 | 14 |

G. PUMPS
 This section does not apply to this project.

H. FAN SYSTEMS & AIR ECONOMIZERS
 This table is used to demonstrate compliance with prescriptive requirements found in §140.4(c), §140.4(e), and §140.4(m) for fan systems. Fan systems serving only process loads are exempt from these requirements and do not need to be included in Table H.

| System Name: | HP-1 / VRF-1 / VRF-2 | Economizer: ¹ | NA: <=54 kBtu/h cooling | Economizer Controls: | Designed per §140.4(e) and (m) | System Fan Type: | Constant Volume |
|---|----------------------|--------------------------|-------------------------------------|----------------------------|--------------------------------|--|-------------------------------------|
| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 |
| Fan Name or Item Tag | Fan Function | Qty | Maximum Design Supply Airflow (CFM) | HP Unit ² | Design HP | Fan Power Pressure Drop Adjustment - Table 140.4-B | |
| | | | | | | Device | Design Airflow through Device (CFM) |
| Total System Design Supply Airflow (CFM): | | | 0 | Total System Design (BHP): | 0 | Maximum System Fan Power (BHP): | 0 |

Registration Number: Registration Date/Time: Registration Provider: Energysoft
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H. FAN SYSTEMS & AIR ECONOMIZERS

| System Name: | VHP-1 / HPAC-1 | Economizer: ¹ | NA: <=54 kBtu/h cooling | Economizer Controls: | Designed per §140.4(e) and (m) | System Fan Type: | Constant Volume |
|---|----------------|--------------------------|-------------------------------------|----------------------------|--------------------------------|--|-------------------------------------|
| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 |
| Fan Name or Item Tag | Fan Function | Qty | Maximum Design Supply Airflow (CFM) | HP Unit ² | Design HP | Fan Power Pressure Drop Adjustment - Table 140.4-B | |
| | | | | | | Device | Design Airflow through Device (CFM) |
| Total System Design Supply Airflow (CFM): | | | 4352 | Total System Design (BHP): | 38.4 | Maximum System Fan Power (BHP): | 0.26 |

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H. FAN SYSTEMS & AIR ECONOMIZERS

| System Name: | VHP-1 / HPAC-1 | Economizer: ¹ | NA: <=54 kBtu/h cooling | Economizer Controls: | Designed per §140.4(e) and (m) | System Fan Type: | Constant Volume |
|---|----------------|--------------------------|-------------------------------------|----------------------------|--------------------------------|--|-------------------------------------|
| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 |
| Fan Name or Item Tag | Fan Function | Qty | Maximum Design Supply Airflow (CFM) | HP Unit ² | Design HP | Fan Power Pressure Drop Adjustment - Table 140.4-B | |
| | | | | | | Device | Design Airflow through Device (CFM) |
| Total System Design Supply Airflow (CFM): | | | 4352 | Total System Design (BHP): | 38.4 | Maximum System Fan Power (BHP): | 0.26 |

Registration Number: Registration Date/Time: Registration Provider: Energysoft
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 Project Address: 2853 WEST BLVD Date Prepared: 10/4/2021

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) or requirements in §141.0(b)(2) for altered space conditioning systems.

| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 |
|----------------------|---------------------------|--|--|-----------------------------|-----------------------------------|---------------------------------------|----------------------------------|---------------------------------|
| System Name | System Zoning | Conditioned Floor Area Being Served (ft ²) | Thermostats §110.2(b) & (c) ¹ , §120.2(a) or §141.0(b)(2) | Shut-Off Controls §120.2(a) | Isolation Zone Controls §120.2(a) | Demand Response §110.12 and §120.2(b) | Supply Air Temp. Reset §140.4(f) | Window Interlocks per §140.4(n) |
| HP-1 / VRF-1 / VRF-2 | Multi-zone w/ DDC to zone | <= 25,000 ft ² | Setback | Auto Timer Switch | 4 Hour Timer | EMCS | Included | Provided |
| VHP-1 / HPAC-1 | Single zone | <= 25,000 ft ² | Setback | Auto Timer Switch | 4 Hour Timer | EMCS | Included | Provided |
| VHP-1 / HPAC-1 | Single zone | <= 25,000 ft ² | Setback | Auto Timer Switch | 4 Hour Timer | EMCS | Included | Provided |
| VHP-1 / HPAC-1 | Single zone | <= 25,000 ft ² | Setback | Auto Timer Switch | 4 Hour Timer | EMCS | Included | Provided |
| VHP-1 / HPAC-1 | Single zone | <= 25,000 ft ² | Setback | Auto Timer Switch | 4 Hour Timer | EMCS | Included | Provided |
| VHP-1 / HPAC-1 | Single zone | <= 25,000 ft ² | Setback | Auto Timer Switch | 4 Hour Timer | EMCS | Included | Provided |

FOOTNOTES: 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.
¹ Notes: Controls with a * require a note in the space below explaining how compliance is achieved. EX: system 1: SA Temp Reset: Exempt because zones compliant with §140.4(f); EXCEPTION 1 to §140.4(f)

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 Project Name: JAIME-001 Report Page: (Page 8 of 20)
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J. VENTILATION AND INDOOR AIR QUALITY
 This table is used to demonstrate compliance with mandatory ventilation requirements in §120.1 and §120.2(a)(3) for all nonresidential, high-rise residential and hotel/motel 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 airflow may be shown on the plans or the calculations can be presented in a spreadsheet.

| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
|------------------------|----------------------|---|-----|--------------------------------|----|--|---|--|-----------------------------------|---|----------------------------|--------------------------|---------------------|------------------|-----------------------------|
| System Name | HP-1 / VRF-1 / VRF-2 | System Design OA CFM Airflow ¹ | 819 | System Design Transfer Air CFM | 0 | Air Filtration per §120.1(c) and §141.0(b)(2) ² | Provided per §120.1(c) (NR and Hotel/Motel) | DCV or Sensor Controls per §120.1(d)(3), §120.1(d)(5), and §120.1(e)(3) ⁵ | Occupancy Type ⁴ | Conditioned Floor Area (ft ²) | # of Shower heads/ toilets | # of people ³ | Required Min OA CFM | Required Min CFM | Provided per Design CFM |
| LOBBY / COMMON AREAS | Lobbies | 1103 | | 551.5 | 0 | | | DCV | Provided per §120.1(d)(4) | | | | | | NA: Not required space type |
| MECH / ELEC ROOMS | All others | 348 | | 0 | 0 | | | DCV | NA: Not required per §120.1(d)(3) | | | | | | NA: Not required space type |
| CORRIDORS / LOBBY (2F) | Corridor | 446 | | 66.9 | 0 | | | DCV | Provided per §120.1(d)(4) | | | | | | NA: Not required space type |

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J. VENTILATION AND INDOOR AIR QUALITY

| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
|-------------------------------------|----------------|---|-----|--------------------------------|----|--|---|--|-----------------------------------|---|----------------------------|--------------------------|---------------------|------------------|-----------------------------|
| System Name | VHP-1 / HPAC-1 | System Design OA CFM Airflow ¹ | 0 | System Design Transfer Air CFM | 0 | Air Filtration per §120.1(c) and §141.0(b)(2) ² | Provided per §120.1(c) (NR and Hotel/Motel) | DCV or Sensor Controls per §120.1(d)(3), §120.1(d)(5), and §120.1(e)(3) ⁵ | Occupancy Type ⁴ | Conditioned Floor Area (ft ²) | # of Shower heads/ toilets | # of people ³ | Required Min OA CFM | Required Min CFM | Provided per Design CFM |
| CORRIDORS / LOBBY (3F) | Corridor | 446 | | 66.9 | 0 | | | DCV | NA: Not required per §120.1(d)(3) | | | | | | NA: Not required space type |
| CORRIDORS / LOBBY (4F) | Corridor | 446 | | 66.9 | 0 | | | DCV | NA: Not required per §120.1(d)(3) | | | | | | NA: Not required space type |
| CORRIDORS / LOBBY (5F) | Corridor | 446 | | 66.9 | 0 | | | DCV | NA: Not required per §120.1(d)(3) | | | | | | NA: Not required space type |
| 17 Total System Required Min OA CFM | | | 819 | 18 | | | | Ventilation for this System Complies? | Yes | | | | | | |

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J. VENTILATION AND INDOOR AIR QUALITY

| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
|-------------------------------------|----------------|---|----|--------------------------------|----|--|---|--|-----------------------------------|---|----------------------------|--------------------------|---------------------|------------------|-----------------------------|
| System Name | VHP-1 / HPAC-1 | System Design OA CFM Airflow ¹ | 0 | System Design Transfer Air CFM | 0 | Air Filtration per §120.1(c) and §141.0(b)(2) ² | Provided per §120.1(c) (NR and Hotel/Motel) | DCV or Sensor Controls per §120.1(d)(3), §120.1(d)(5), and §120.1(e)(3) ⁵ | Occupancy Type ⁴ | Conditioned Floor Area (ft ²) | # of Shower heads/ toilets | # of people ³ | Required Min OA CFM | Required Min CFM | Provided per Design CFM |
| UNIT 3 (2F) | All others | 903 | | 0 | 0 | | | DCV | Provided per §120.1(d)(4) | | | | | | NA: Not required space type |
| UNIT 4 (2F) | All others | 798 | | 0 | 0 | | | DCV | Provided per §120.1(d)(4) | | | | | | NA: Not required space type |
| UNIT 5 (2F) | All others | 801 | | 0 | 0 | | | DCV | Provided per §120.1(d)(4) | | | | | | NA: Not required space type |
| UTILITY ROOMS (2F) | All others | 98 | | 0 | 0 | | | DCV | NA: Not required per §120.1(d)(3) | | | | | | NA: Not required space type |
| 17 Total System Required Min OA CFM | | | 0 | 18 | | | | Ventilation for this System Complies? | Yes | | | | | | |

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J. VENTILATION AND INDOOR AIR QUALITY

| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
|-------------------------------------|----------------|---|----|--------------------------------|----|--|---|--|-----------------------------------|---|----------------------------|--------------------------|---------------------|------------------|-----------------------------|
| System Name | VHP-1 / HPAC-1 | System Design OA CFM Airflow ¹ | 0 | System Design Transfer Air CFM | 0 | Air Filtration per §120.1(c) and §141.0(b)(2) ² | Provided per §120.1(c) (NR and Hotel/Motel) | DCV or Sensor Controls per §120.1(d)(3), §120.1(d)(5), and §120.1(e)(3) ⁵ | Occupancy Type ⁴ | Conditioned Floor Area (ft ²) | # of Shower heads/ toilets | # of people ³ | Required Min OA CFM | Required Min CFM | Provided per Design CFM |
| UNIT 2 (3F) | All others | 798 | | 0 | 0 | | | DCV | Provided per §120.1(d)(4) | | | | | | NA: Not required space type |
| UNIT 3 (3F) | All others | 903 | | 0 | 0 | | | DCV | Provided per §120.1(d)(4) | | | | | | NA: Not required space type |
| UNIT 4 (3F) | All others | 798 | | 0 | 0 | | | DCV | Provided per §120.1(d)(4) | | | | | | NA: Not required space type |
| UNIT 5 (3F) | All others | 801 | | 0 | 0 | | | DCV | Provided per §120.1(d)(4) | | | | | | NA: Not required space type |
| UTILITY ROOMS (3F) | All others | 98 | | 0 | 0 | | | DCV | NA: Not required per §120.1(d)(3) | | | | | | NA: Not required space type |
| 17 Total System Required Min OA CFM | | | 0 | 18 | | | | Ventilation for this System Complies? | Yes | | | | | | |

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NATIONAL
 ENGINEERING & CONSULTING, INC
 30 THOMAS, IRVINE, CA 92618-2703
 PHONE: (949) 716-9990 | FAX: (949) 716-9997

STAMP:


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CLIENT:
JAIME PARTNERS OF CALIFORNIA, INC.
 1050 S. FLOWER STREET
 LOS ANGELES, CA 90015

PROJECT:
2853 WEST BLVD
 LOS ANGELES, CA 90016

C-JAIME-001

| # | DESCRIPTION | DATE |
|---|----------------------|----------|
| | 1ST SUBMITTAL | 10/04/21 |
| | UTILITY COORDINATION | 04/08/22 |
| △ | PC RESUBMITTAL | 05/18/22 |
| △ | PC RESUBMITTAL | 10/28/22 |
| △ | HCD REVISION 1 | 12/16/22 |
| △ | PC RESUBMITTAL | 02/02/23 |
| △ | HCD & PC RESUBMITTAL | 06/06/23 |
| △ | HCD RESUBMITTAL | 06/14/23 |
| △ | PC RESUBMITTAL | 07/10/23 |
| △ | PC RESUBMITTAL | 02/27/24 |

Plot Date: 3/5/2024 11:55:26 AM

SHEET TITLE:

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| UNIT # | Occupancy Type ⁴ | Conditioned Floor Area (ft ²) | # of Shower heads/ toilets | # of people ⁵ | Required Min OA CFM | Provided per Design CFM | DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3 ⁶ |
|--------------------|----------------------------------|---|----------------------------|--------------------------|---------------------|-------------------------|--|
| UNIT 1 (4F) | All others | 1395 | | 0 | 0 | 0 | DCV Provided per §120.1(d)4 Occ Sensor NA: Not required space type |
| UNIT 2 (4F) | All others | 798 | | 0 | 0 | 0 | DCV Provided per §120.1(d)4 Occ Sensor NA: Not required space type |
| UNIT 3 (4F) | All others | 903 | | 0 | 0 | 0 | DCV Provided per §120.1(d)4 Occ Sensor NA: Not required space type |
| UNIT 4 (4F) | All others | 798 | | 0 | 0 | 0 | DCV Provided per §120.1(d)4 Occ Sensor NA: Not required space type |
| UNIT 5 (4F) | All others | 801 | | 0 | 0 | 0 | DCV Provided per §120.1(d)4 Occ Sensor NA: Not required space type |
| UTILITY ROOMS (4F) | All others | 98 | | 0 | 0 | 0 | DCV Provided per §120.1(d)4 Occ Sensor NA: Not required space type |
| 17 | Total System Required Min OA CFM | | | 0 | 18 | | Ventilation for this System Complies? Yes |

System Name: VHP-1 / HPAC-1 System Design OA CFM Airflow⁷: 0 System Design Transfer Air CFM: 0
 Air Filtration per §120.1(c) and §141.0(b)2²: Provided per §120.1(c) (NR and Hotel/Motel)

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J. VENTILATION AND INDOOR AIR QUALITY

| Space Name or Item Tag | Occupancy Type ⁴ | Conditioned Floor Area (ft ²) | # of Shower heads/ toilets | # of people ⁵ | Required Min OA CFM | Provided per Design CFM | DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3 ⁶ |
|------------------------|----------------------------------|---|----------------------------|--------------------------|---------------------|-------------------------|--|
| UNIT 1 (5F) | All others | 1395 | | 0 | 0 | 0 | DCV Provided per §120.1(d)4 Occ Sensor NA: Not required space type |
| UNIT 2 (5F) | All others | 798 | | 0 | 0 | 0 | DCV Provided per §120.1(d)4 Occ Sensor NA: Not required space type |
| UNIT 3 (5F) | All others | 903 | | 0 | 0 | 0 | DCV Provided per §120.1(d)4 Occ Sensor NA: Not required space type |
| UNIT 4 (5F) | All others | 798 | | 0 | 0 | 0 | DCV Provided per §120.1(d)4 Occ Sensor NA: Not required space type |
| UNIT 5 (5F) | All others | 801 | | 0 | 0 | 0 | DCV Provided per §120.1(d)4 Occ Sensor NA: Not required space type |
| UTILITY ROOMS (5F) | All others | 98 | | 0 | 0 | 0 | DCV Provided per §120.1(d)4 Occ Sensor NA: Not required space type |
| 17 | Total System Required Min OA CFM | | | 0 | 18 | | Ventilation for this System Complies? Yes |

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J. VENTILATION AND INDOOR AIR QUALITY

| System Name | VHP-1 / HPAC-1 | System Design OA CFM Airflow ⁷ | 0 | System Design Transfer Air CFM | 0 | Air Filtration per §120.1(c) and §141.0(b)2 ² | | |
|--------------------|----------------------------------|---|----|--------------------------------|----|--|----|---|
| 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| UNIT 1 (6F) | All others | 798 | | 0 | 0 | 0 | 0 | DCV Provided per §120.1(d)4 Occ Sensor NA: Not required space type |
| UNIT 2 (6F) | All others | 799 | | 0 | 0 | 0 | 0 | DCV Provided per §120.1(d)4 Occ Sensor NA: Not required space type |
| UTILITY ROOMS (6F) | All others | 98 | | 0 | 0 | 0 | 0 | DCV Provided per §120.1(d)4 Occ Sensor NA: Not required space type |
| 17 | Total System Required Min OA CFM | | | 0 | 18 | | | Ventilation for this System Complies? Yes |

Footnotes:
 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)18: 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.

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J. VENTILATION AND INDOOR AIR QUALITY

§120.2(a)3 requires systems serving rooms that are required by §120.1(c) to have lighting occupancy sensing controls to also have occupancy sensing zone controls for ventilation. Examples of spaces which require lighting occupancy sensors include offices 250² or smaller, multipurpose rooms less than 1,000 ft², classrooms, conference rooms, restrooms, aisles and open areas in warehouses, library book stack aisles, corridors, stairwells, parking garages, and loading and unloading zones, unless excepted by §120.1(c).

K. TERMINAL BOX CONTROLS
 This section does not apply to this project.

L. DISTRIBUTION (DUCTWORK AND PIPING)
 This table is used to show compliance with mandatory pipe insulation requirements found in §120.3 and prescriptive requirements found in §140.40 for duct leakage testing.

Duct Leakage Sealing

| The answers to the questions below apply to the following duct systems: | VHP-1 / HPAC-1 | Duct leakage testing triggered for these systems? | No |
|---|----------------|---|----|
| 11 | No | The scope of the project includes only duct systems serving healthcare facilities | |
| 12 | Yes | Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system. | |
| 13 | Yes | The space conditioning system serves less than 5,000 ft ² of conditioned floor area. | |
| 14 | No | The combined surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system: | |
| | | <input type="checkbox"/> Outdoors | |
| | | <input type="checkbox"/> In a space directly under a roof that has a U-factor greater than the u-factor of the ceiling, or if the roof does not meet the requirements of §140.3(a)18 or if the roof has fixed vents or openings to the outside/unconditioned spaces | |
| | | <input type="checkbox"/> In an unconditioned crawl space | |
| | | <input type="checkbox"/> In other unconditioned spaces | |
| 15 | | The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos. | |
| 16 | | The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2. | |
| 17 | Yes | Duct system shall be sealed in accordance with the California Mechanical Code | |

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L. DISTRIBUTION (DUCTWORK AND PIPING)

| The answers to the questions below apply to the following duct systems: | VHP-1 / HPAC-1 | Duct leakage testing triggered for these systems? | No |
|---|----------------|---|----|
| 11 | No | The scope of the project includes only duct systems serving healthcare facilities | |
| 12 | Yes | Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system. | |
| 13 | Yes | The space conditioning system serves less than 5,000 ft ² of conditioned floor area. | |
| 14 | No | The combined surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system: | |
| | | <input type="checkbox"/> Outdoors | |
| | | <input type="checkbox"/> In a space directly under a roof that has a U-factor greater than the u-factor of the ceiling, or if the roof does not meet the requirements of §140.3(a)18 or if the roof has fixed vents or openings to the outside/unconditioned spaces | |
| | | <input type="checkbox"/> In an unconditioned crawl space | |
| | | <input type="checkbox"/> In other unconditioned spaces | |
| 15 | | The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos. | |
| 16 | | The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2. | |
| 17 | Yes | Duct system shall be sealed in accordance with the California Mechanical Code | |

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L. DISTRIBUTION (DUCTWORK AND PIPING)

| The answers to the questions below apply to the following duct systems: | VHP-1 / HPAC-1 | Duct leakage testing triggered for these systems? | No |
|---|----------------|---|----|
| 11 | No | The scope of the project includes only duct systems serving healthcare facilities | |
| 12 | Yes | Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system. | |
| 13 | Yes | The space conditioning system serves less than 5,000 ft ² of conditioned floor area. | |
| 14 | No | The combined surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system: | |
| | | <input type="checkbox"/> Outdoors | |
| | | <input type="checkbox"/> In a space directly under a roof that has a U-factor greater than the u-factor of the ceiling, or if the roof does not meet the requirements of §140.3(a)18 or if the roof has fixed vents or openings to the outside/unconditioned spaces | |
| | | <input type="checkbox"/> In an unconditioned crawl space | |
| | | <input type="checkbox"/> In other unconditioned spaces | |
| 15 | | The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos. | |
| 16 | | The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2. | |
| 17 | Yes | Duct system shall be sealed in accordance with the California Mechanical Code | |

M. COOLING TOWERS
 This section does not apply to this project.

N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION
 Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCL/

| Yes | No | Form/Title | Field Inspector | |
|-------------------------------------|--------------------------|---|--------------------------|--------------------------|
| | | | Pass | Fail |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | NRCC-MCH-01-E - Must be submitted for all buildings | <input type="checkbox"/> | <input type="checkbox"/> |

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O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE
 Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/

| Yes | No | Form/Title | Systems To Be Field Verified | Field Inspector | |
|-------------------------------------|--------------------------|--|------------------------------|--------------------------|--------------------------|
| | | | | Pass | Fail |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | NRCA-MCH-02-A - Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH-02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap. | | <input type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | NRCA-MCH-03-A - Constant Volume Single Zone HVAC NOTE: This form does not automatically move to "Yes" if Constant Volume Single Zone HVAC Systems are included in the scope, permit applicant should move this form to "Yes". | | <input type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | NRCA-MCH-04-A - Air Distribution Duct Leakage | | <input type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | NRCA-MCH-05-A - Air Economizer Controls | | <input type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | NRCA-MCH-06-A Demand Control Ventilation Systems must be submitted for all systems required to employ demand controlled ventilation (refer to §120.1(c)3) can vary outside ventilation flow rates based on maintaining interior carbon dioxide (CO ₂) concentration setpoints. | | <input type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | NRCA-MCH-07-A Supply Fan Variable Flow Controls | | <input type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | NRCA-MCH-08-A Valve Leakage Test | | <input type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | NRCA-MCH-09-A Supply Water Temperature Reset Controls | | <input type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | NRCA-MCH-10-A Hydronic System Variable Flow Controls | | <input type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | NRCA-MCH-11-A Automatic Demand Shed Controls | | <input type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | NRCA-MCH-12-A FDD for Packaged Direct Expansion Units | | <input type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | NRCA-MCH-13-A Automatic FDD for Air Handling Units and Zone Terminal Units Acceptance | | <input type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | NRCA-MCH-14-A Distributed Energy Storage DX AC Systems Acceptance NOTE: This form does not automatically move to "Yes". If Distributed Energy System DX AC Systems are included in the scope permit applicant should move this form to "Yes". | | <input type="checkbox"/> | <input type="checkbox"/> |

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O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

| Yes | No | Form/Title | Field Inspector | |
|-------------------------------------|--------------------------|---|--------------------------|--------------------------|
| | | | Pass | Fail |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | NRCA-MCH-15-A Thermal Energy Storage (TES) System Acceptance NOTE: This form does not automatically move to "Yes". If Chilled water Storage, Ice-on-Coil Internal Melt, Ice-on-Coil External melt, Ice Harvested, Brine, Ice-Slurry, Eutectic Salt, Caltrate Hydrate Slurry (CHS), Cryogenic or Encapsulated (Ice Ball) Systems are included in the scope, permit applicant should move this form to "Yes". | <input type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | NRCA-MCH-16-A Supply Air Temperature Reset Controls | <input type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | NRCA-MCH-17-A Condenser Water Temperature Reset Controls | <input type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | NRCA-MCH-18-A Energy Management Control Systems | <input type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | NRCA-MCH-19-A Occupancy Sensor Controls | <input type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | NRCA-MCH-20 Multi-Family Ventilation | <input type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | NRCA-MCH-21 Multi-Family Envelope Leakage | <input type="checkbox"/> | <input type="checkbox"/> |

P. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION
 Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be completed by a HERS Rater and provided to the building inspector during construction. The final documents must be created by a HERS Provider's registry, but drafts can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCLV/

| Yes | No | Form/Title | Field Inspector | |
|-------------------------------------|--------------------------|--|--------------------------|--------------------------|
| | | | Pass | Fail |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | NRCLV-MCH-04-H Duct Leakage Test NOTE: Must be completed by a HERS Rater | <input type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | NRCLV-MCH-24 Enclosure Air Leakage Worksheet NOTE: Must be completed by a HERS Rater | <input type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | NRCLV-MCH-27 High-rise Residential NOTE: Must be completed by a HERS Rater | <input type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | NRCLV-MCH-32 Local Mechanical Exhaust NOTE: Must be completed by a HERS Rater | <input type="checkbox"/> | <input type="checkbox"/> |

Q. MANDATORY MEASURES DOCUMENTATION LOCATION
 This table is used to indicate where mandatory measures are documented in the plan set or construction documentation.

| 01 | 02 |
|---|---|
| Compliance with Mandatory Measures documented through MCH Mandatory Measures Note Block | Yes |
| | Plan sheet or construction document location M-Sheets |

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
 Registration Date/Time: Report Version: 2019.1.003 Schema Version: rev 20200601
 Registration Provider: Energysoft Report Generated: 2021-10-04 17:25:12

STATE OF CALIFORNIA
Mechanical Systems
 NRCC-MCH-E CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE NRCC-MCH-E
 Project Name: JAIME-001 Report Page: (Page 20 of 20)
 Project Address: 2853 WEST BLVD Date Prepared: 10/4/2021

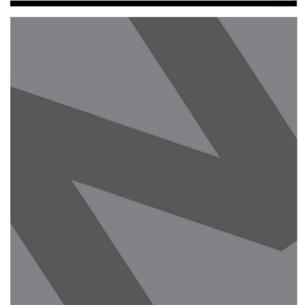
DOCUMENTATION AUTHOR'S DECLARATION STATEMENT
 I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Christopher Webb
 Signature Date: 2021-10-04
 Company: National Engineering & Consulting, Inc.
 Address: 30 Thomas
 City/State/Zip: Irvine, CA 92618
 Phone: (949) 716-9990

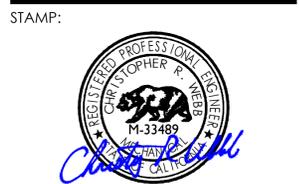
RESPONSIBLE PERSON'S DECLARATION STATEMENT
 I certify the following under penalty of perjury, under the laws of the State of California:
 1. The information provided on this Certificate of Compliance is true and correct.
 2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
 3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
 4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
 5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the building owner at occupancy.

Responsible Designer Name: Christopher Webb
 Signature Date: 2021-10-04
 Company: National Engineering & Consulting, Inc.
 Address: 30 Thomas
 City/State/Zip: Irvine, CA 92618
 Phone: (949) 716-9990

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
 Registration Date/Time: Report Version: 2019.1.003 Schema Version: rev 20200601
 Registration Provider: Energysoft Report Generated: 2021-10-04 17:25:12



NATIONAL
 ENGINEERING & CONSULTING, INC
 30 THOMAS, IRVINE, CA 92618-2703
 PHONE: (949) 716-9990 | FAX: (949) 716-9997



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CLIENT:
JAIME PARTNERS OF CALIFORNIA, INC.
 1050 S. FLOWER STREET
 LOS ANGELES, CA 90015

PROJECT:
2853 WEST BLVD
 LOS ANGELES, CA 90016

| C-JAIME-001 | | |
|-------------|----------------------|----------|
| # | DESCRIPTION | DATE |
| | 1ST SUBMITTAL | 10/04/21 |
| | UTILITY COORDINATION | 04/08/22 |
| △ | PC RESUBMITTAL | 05/18/22 |
| △ | PC RESUBMITTAL | 10/28/22 |
| △ | HCD REVISION 1 | 12/16/22 |
| △ | PC RESUBMITTAL | 02/02/23 |
| △ | HCD & PC RESUBMITTAL | 06/06/23 |
| △ | HCD RESUBMITTAL | 06/14/23 |
| △ | PC RESUBMITTAL | 07/10/23 |
| △ | PC RESUBMITTAL | 02/27/24 |

Plot Date: 3/5/2024 11:55:37 AM

SHEET TITLE:
TITLE 24 COMPLIANCE

SHEET NO:
M804



NATIONAL
ENGINEERING & CONSULTING, INC
30 THOMAS, IRVINE, CA 92618-2703
PHONE: (949) 716-9990 | FAX: (949) 716-9997

STAMP:



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CLIENT:
JAIME PARTNERS OF CALIFORNIA, INC.
1050 S. FLOWER STREET
LOS ANGELES, CA 90015

PROJECT:
2853 WEST BLVD
LOS ANGELES, CA 90016

| C-JAIME-001 | | |
|-------------|----------------------|----------|
| # | DESCRIPTION | DATE |
| | 1ST SUBMITTAL | 10/04/21 |
| | UTILITY COORDINATION | 04/08/22 |
| △ | PC RESUBMITTAL | 05/18/22 |
| △ | PC RESUBMITTAL | 10/28/22 |
| △ | HCD REVISION 1 | 12/16/22 |
| △ | PC RESUBMITTAL | 02/02/23 |
| △ | HCD & PC RESUBMITTAL | 06/06/23 |
| △ | HCD RESUBMITTAL | 06/14/23 |
| △ | PC RESUBMITTAL | 07/10/23 |
| △ | PC RESUBMITTAL | 02/27/24 |

Plot Date: 3/5/2024 11:55:48 AM

SHEET TITLE:
TITLE 24 COMPLIANCE

SHEET NO:
M805

STATE OF CALIFORNIA
Domestic Water Heating System
CALIFORNIA ENERGY COMMISSION
NRCC-PLB-E
CERTIFICATE OF COMPLIANCE
Project Name: JAIME-001 | Report Page: (Page 3 of 7)
Project Address: 2853 WEST BLVD | Date Prepared: 10/4/2021

F. DOMESTIC HOT WATER EQUIPMENT
This table is used to demonstrate compliance with mandatory equipment requirements in §110.1 and §110.3. For high-rise residential and hotel/motel occupancies, compliance with prescriptive requirements in §150.1(c)(8) must also be demonstrated and with §150.2 for addition and alteration scopes.

| 01 | 02 | 03 | 04 | 05 | 06 |
|-----------------------|---|--------------|----------------------------------|-----------------------------------|---|
| Name or Item Tag | Equipment Type | Volume (gal) | Max GPM/ First Hour Rating (FHR) | Rated Uniform Energy Factor (UEF) | Minimum Required Uniform Energy Factor (UEF) ¹ |
| A.O. SMITH PWH-1250NP | Residential-Duty Commercial Gas-Fired Storage (75,000-105,000 BTUH) | >75 | GPM >= 4.0 | 0.82 | -0.41 |

¹FOOTNOTE: Compliant equipment may be found in the Modernized Appliance Efficiency Database System (MAEDBS) on the Energy Commission website: <https://aces.certaplaces.energy.ca.gov/Pages/Search/AdvancedSearch.aspx>

Water Heating Equipment All Occupancies

| | Yes | No | Not Applicable | Requirement |
|----|--------------------------|--------------------------|-------------------------------------|---|
| 18 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Unfired storage tank insulation shall have Internal + External >=R-16 OR External >=R-12. Label required per §110.3(c)(3) |
| 19 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | New state buildings 60% of energy for service water heating from site solar energy or recovered energy per §110.3(c)(5) |
| 20 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Isolation valves for instantaneous water heater with input rating <= 8 kBTHU or 2 kW has been specified per §110.3(c)(6) |

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
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Registration Provider: EnergySoft Schema Version: rev 20190401
Report Generated: 2021-10-04 17:25:12

STATE OF CALIFORNIA
Domestic Water Heating System
CALIFORNIA ENERGY COMMISSION
NRCC-PLB-E
CERTIFICATE OF COMPLIANCE
Project Name: JAIME-001 | Report Page: (Page 6 of 7)
Project Address: 2853 WEST BLVD | Date Prepared: 10/4/2021

J. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE
There are no Certificates of Acceptance applicable to service water heating requirements.

K. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION
Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks: These documents must be completed by a HERS Rater and provided to the building inspector during construction. The final documents must be created by a HERS Providers registry, but drafts can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRC/

| Yes | No | Form/Title | Field Inspector | |
|-------------------------------------|--------------------------|---|--------------------------|--------------------------|
| | | | Pass | Fail |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | NRCV-PLB-21-H High-rise Residential Central Hot Water Distribution HERS Verification | <input type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | NRCV-PLB-22-H High-rise Residential Individual Dwelling Unit Hot Water Distribution HERS Verification | <input type="checkbox"/> | <input type="checkbox"/> |

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STATE OF CALIFORNIA
Domestic Water Heating System
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CERTIFICATE OF COMPLIANCE
Project Name: JAIME-001 | Report Page: (Page 7 of 7)
Project Address: 2853 WEST BLVD | Date Prepared: 10/4/2021

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT
I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Christopher Webb
Signature Date: 2021-10-04
Address: 30 Thomas Irvine, CA 92618
City/State/Zip: Irvine, CA 92618
Phone: (949) 716-9990

RESPONSIBLE PERSON'S DECLARATION STATEMENT
I certify the following under penalty of perjury under the laws of the State of California:

- The information provided on this Certificate of Compliance is true and correct.
- I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
- The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
- The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
- I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Christopher Webb
Signature Date: 2021-10-04
Address: 30 Thomas Irvine, CA 92618
City/State/Zip: Irvine, CA 92618
Phone: (949) 716-9990

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
Registration Date/Time: Report Version: 2019.1.003
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STATE OF CALIFORNIA
Domestic Water Heating System
CALIFORNIA ENERGY COMMISSION
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Project Name: JAIME-001 | Report Page: (Page 2 of 7)
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C. COMPLIANCE RESULTS
Table C will indicate if the project data input into the compliance document is compliant with water heating requirements. 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 |
|------------------------------|----------------------|----------|--------------------|
| Domestic Hot Water Equipment | Distribution Systems | Controls | Compliance Results |
| Table F | Table G | Table H | |
| Yes | Yes | Yes | COMPLIES |

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.

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
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Domestic Water Heating System
CALIFORNIA ENERGY COMMISSION
NRCC-PLB-E
CERTIFICATE OF COMPLIANCE
Project Name: JAIME-001 | Report Page: (Page 5 of 7)
Project Address: 2853 WEST BLVD | Date Prepared: 10/4/2021

H. DOMESTIC HOT WATER CONTROLS
This table is used to demonstrate compliance with control requirements in §110.3 for all occupancies. For high-rise residential and hotel/motel occupancies, compliance is also demonstrated with requirements in §150.1(c)(8).

| | Yes | No | Not Applicable | Requirement |
|----|-------------------------------------|--------------------------|-------------------------------------|---|
| 01 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Construction documents require manufacturer certification that service water-heating systems are equipped with automatic temperature controls capable of adjusting temperature settings per §110.3(a). |
| 02 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Systems with capacity > 167,000 BTUH equipped with outlet temperature controls per §110.3(c)(1) unless covered by California Plumbing Code 613.0. |
| 03 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Controls for circulating pumps or electrical heat trace systems are capable of automatically turning off the system per §110.3(a)(2) unless systems serve healthcare facility. |
| 04 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | For recirculation systems serving multiple dwelling units, design includes automatic pump controls per §150.1(c)(8)(ii), or §150.2 for additions or alterations. |
| 05 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | For recirculation systems serving individual dwelling units, design includes manual on/off controls as specified in Reference Appendix RA4.4.9 per §150.1(c)(8). |
| 06 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | For replacement single heat pump water heaters serving individual dwelling units in climate zone 1-15, design includes communication interface that meets demand responsive control requirements of §110.1(a)(a) per §150.2(b)(1)(iii). |

I. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION
Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks: These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRC/

| Yes | No | Form/Title | Field Inspector | |
|-------------------------------------|--------------------------|--|--------------------------|--------------------------|
| | | | Pass | Fail |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | NRCI-PLB-01-E - Must be submitted for all buildings | <input type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | NRCI-PLB-02-E - Must be submitted for high-rise residential and hotel/motel central hot water distribution systems to be recognized for compliance. | <input type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | NRCI-PLB-03-E - Must be submitted for high-rise residential and hotel/motel single dwelling unit hot water distribution systems to be recognized for compliance. | <input type="checkbox"/> | <input type="checkbox"/> |

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
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STATE OF CALIFORNIA
Domestic Water Heating System
CALIFORNIA ENERGY COMMISSION
NRCC-PLB-E
CERTIFICATE OF COMPLIANCE
Project Name: JAIME-001 | Report Page: (Page 1 of 7)
Project Address: 2853 WEST BLVD | Date Prepared: 10/4/2021

A. GENERAL INFORMATION

| | | | |
|----------------------------|-------------|-----------------|---|
| 01 Project Location (city) | LOS ANGELES | 02 Climate Zone | 8 |
|----------------------------|-------------|-----------------|---|

03 Occupancy Types Within Project (select all that apply):
 Nonresidential High-Rise Residential Hotel/Motel
 State Building Healthcare Facility Other (Write In)

B. PROJECT SCOPE
This table includes domestic water heating systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive paths outlined in §140.5, §150.1(c)(8), and §141.0(a), or §141.0(b)(2) for additions or alterations. Solar water heating systems are documented on the NRCC-SRA compliance document. Combined hydronic water heating systems are documented on the NRCC-MCH compliance document.

| 01 | 02 | 03 |
|--|---|---|
| My project consists of (check all that apply): | System Type ^{1,2} | System Components |
| <input checked="" type="checkbox"/> New system (DHW system being installed for the first time in newly constructed building) | Individual System (serving nonresidential spaces) | <input checked="" type="checkbox"/> Equipment <input checked="" type="checkbox"/> Distribution <input checked="" type="checkbox"/> Controls |
| <input type="checkbox"/> System Alteration (equipment, distribution or controls) | | <input type="checkbox"/> Equipment <input type="checkbox"/> Distribution <input type="checkbox"/> Controls |

¹FOOTNOTES: Point of use water heaters, or other non-central systems used to serve nonresidential spaces, are considered individual systems.
² Dwelling units refers to hotel/motel guest rooms and units in a high-rise residential occupancy.

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
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STATE OF CALIFORNIA
Domestic Water Heating System
CALIFORNIA ENERGY COMMISSION
NRCC-PLB-E
CERTIFICATE OF COMPLIANCE
Project Name: JAIME-001 | Report Page: (Page 4 of 7)
Project Address: 2853 WEST BLVD | Date Prepared: 10/4/2021

G. DOMESTIC HOT WATER DISTRIBUTION SYSTEM
This table is used to demonstrate compliance for nonresidential occupancies with distribution requirements in §120.3 and §140.5. For high-rise residential and hotel/motel occupancies, compliance is demonstrated with requirements §110.3(c), §120.3, §150.0, §150.1

Mandatory Pipe Insulation All Occupancies

| | Yes | No | Not Applicable | Requirement |
|----|-------------------------------------|--------------------------|--------------------------|---|
| 12 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | For systems serving nonresidential spaces, pipe insulation for the following applications is specified to comply with Table 120.3-A (see below) per §120.3: <ul style="list-style-type: none"> Recirculating system piping, including supply and return piping of the water heater The first 8 ft of hot and cold outlet piping, including between storage tank and heat trap, for a nonrecirculating storage system Pipes that are externally heated |
| 13 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Insulation shall be protected from damage, including that due to sunlight, moisture, equipment maintenance, and wind. Insulation exposed to weather shall be installed with a cover suitable for outdoor service per §120.3(b) and §150.0(i)(3) |

TABLE 120.3-A PIPE INSULATION THICKNESS

| Fluid Temperature Range (°F) | Conductivity Range (BTU-in per hour per ft² per °F) | Insulation Mean Rating Temp (°F) | Nominal Pipe Diameter (in) | | |
|------------------------------|---|----------------------------------|----------------------------|------------------|----------------|
| | | | < 1 | 1 to < 1.5 | 1.5 to < 4 |
| 105-140 | 0.22 - 0.28 | 100 | 1.0 In or R-7.7 | 1.5 In or R-12.5 | 1.5 In or R-11 |

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
Registration Date/Time: Report Version: 2019.1.003
Registration Provider: EnergySoft Schema Version: rev 20190401
Report Generated: 2021-10-04 17:25:12