HVAC SPECIFICATIONS

A MAINTENANCE LABEL SHALL BE AFFIXED TO MECHANICAL EQUIPMENT AND A MAINTENANCE MANUAL SHALL BE PROVIDED TO THE OWNER PER

CONCEALED SPACES, CIRCULATION AIR

INSULATED WIRES, PLASTIC TUBING OR PIPING, PIPE INSULATION, CONDENSATE PAN INSULATION, WOOD, PVC, ABS AND OTHER PLASTICS) TO BE IN CONCEALED SPACES USED TO CONVEY CIRCULATING AIR SUPPLY. WHEN COMBUSTIBLE MATERIAL IS TO BE LOCATED IN THE ABOVE SPACES, IT SHALL BE APPROVED FOR SUCH INSULATION.

INSULATION OF DUCTS

PORTIONS OF SUPPLY-AIR AND RETURN-AIR DUCTS CONVEYING HEATED OR COOLED AIR LOCATED IN ONE OR MORE OF THE FOLLOWING SPACES SHALL BE INSULATED TO A MINIMUM INSTALLED LEVEL OF R-8:

OUTDOORS; OR

- 2. IN A SPACE BETWEEN THE ROOF AND AN INSULATED CEILING; OR
- IN A SPACE DIRECTLY UNDER A ROOF WITH FIXED VENTS OR OPENINGS TO THE OUTSIDE OR UNCONDITIONED SPACES; OR
- 4. IN AN UNCONDITIONED CRAWL SPACE; OR
- 5. IN OTHER UNCONDITIONED SPACES.

PORTIONS OF SUPPLY-AIR DUCTS THAT ARE NOT IN ONE OF THESE SPACES, INCLUDING DUCTS BURIED IN CONCRETE SLAB, SHALL BE INSULATED TO A MINIMUM INSTALLED LEVEL OF R-4.2 OR BE ENCLOSED IN DIRECTLY CONDITIONED SPACE.

SEALING

TRANSVERSE SUPPLY DUCTS, TAPED OR SEALED WITH MASTIC EXCEPT FOR DUCTS EXPOSED TO CONDITIONED SPACE, WHERE DUCT STATIC PRESSURE EXCEEDS 3/4" WATER, LONGTITUDINAL JOINTS, TAPED OR SEALED WITH

INSPECTION

INSPECTION TO BE MADE AND DUCTWORK APPROVED BEFORE COVERING WITH INSULATION.

PIPE INSULATION

SPACE-CONDITIONING AND SERVICE WATER-HEATING SYSTEM SHALL BE INSULATED IN ACCORDANCE WITH THE FOLLOWING TABLE:

| | | PIPE INSU | JLATION T | HICKNES | S | | |
|---------|------------------------|---------------|-------------|--------------|--------------|----------|-----------------|
| FLUID | CONDUCTIVITY | INSULATION | | NOMINA | L PIPE DI | AMETER | (") |
| | RANGE (BTU-"/HR PER | | <1 | 1 TO <1.5 | 1.5 TO <4 | 4 TO <8 | 8 AND LARGER |
| (°F) | SQFT/°F) | TEMP. (°F) | INSUL | ATION TH | HICKNES | REQUIR | ED (") |
| SPACE | HEATING, HOT | WATER SYSTEM | MS AND S | ERVICE V | VATER H | EATING S | YSTEMS |
| 350< | 0.32-0.34 | 250 | 4.5 | 5.0 | 5.0 | 5.0 | 5.0 |
| 251-350 | 0.29-0.31 | 200 | 3.0 | 4.0 | 4.5 | 4.5 | 4.5 |
| 201-250 | 0.27-0.30 | 150 | 2.5 | 2.5 | 2.5 | 3.0 | 3.0 |
| 141-200 | 0.25-0.29 | 125 | 1.5 | 1.5 | 2.0 | 2.0 | 2.0 |
| 105-140 | 0.22-0.28 | 100 | 1.0 | 1.5 | 1.5 | 1.5 | 1.5 |
| | SPACE COOLIN | G SYSTEMS (CH | ILLED WA | TER, REI | RIGERA | NT AND B | RINE) |
| 40-60 | 0.21-0.27 | 75 | NONR RES | | 1.0 | 1.0 | 1.0 |
| <40 | 0.20-0.26 | 50 | 1.0 | 1.5 | 1.5 | 1.5 | 1.5 |

EXCEPTIONS: THE FOLLOWING PIPING DOES NOT HAVE TO BE THERMALLY INSULATED: (1) FACTORY-INSTALLED PIPING WITHIN SPACE CONDITIONING EQUIPMENT; (2) PIPING THAT CONVEYS FLUIDS THAT HAVE A DESIGN OPERATING TEMPERATURE RANGE BETWEEN 55 DEGREES AND 105 DEGREES FAHRENHEIT; (3) GAS PIPING; (4) COLD DOMESTIC WATER PIPING; (5) DRAINS, VENTS, AND WASTE PIPING.

TEMPERATURE CONTROLS

EACH HVAC SYSTEM SHALL BE PROVIDED WITH AT LEAST ONE AUTOMATIC TEMPERATURE CONTROL DEVICE FOR THE REGULATION OF TEMPERATURE THESE AUTOMATIC TEMPERATURE CONTROL DEVICES SHALL BE CAPABLE OF BEING SET TO MAINTAIN SPACE TEMPERATURE SET POINTS FROM 55 DEGREES F TO 85 DEGREES F, SHALL BE CAPABLE OF OPERATING THE SYSTEM HEATING AND/OR COOLING IN SEQUENCE.

EXCEPT AS ALLOWED, THESE CONTROLS SHALL BE ADJUSTABLE TO PROVIDE A DEAD BAND OF 5 DEGREES F BETWEEN FULL HEATING AND FULL COOLING. CONTROLS SHALL HAVE THE CAPABILITY OF TERMINATING ALL HEATING AT A TEMPERATURE NO MORE THAN 70 DEGREES F AND OF TERMINATING ALL COOLING AT A TEMPERATURE NOT LESS THAN 78 DEGREES F.

SHEET INDEX

| M000 | MECHANICAL NOTES |
|------|--------------------------------|
| M001 | MECHANICAL SCHEDULES |
| M100 | MECHANICAL PLAN - SECOND FLOOR |
| M101 | MECHANICAL PLAN - THIRD FLOOR |
| M102 | MECHANICAL PLAN - ROOF |
| TM00 | TITLE 24 |
| | |
| | |
| | |
| | |
| | |

SCOPE OF WORK

- EXISTING COMMERCIAL BUILDING 2ND AND 3RD FLOOR CONVERSION TO
- NEW HVAC UNIT(S) TO BE INSTALLED.

APARTMENT UNITS.

• PROVIDE DUCTWORKS AND AIR DEVICES THROUGHOUT THE SPACE.

MECHANICAL CODE

- 2022 CMC
- 2022 BUILDING ENERGY EFFICIENCY STANDARDS

SYMB

SA

RA

RAG

EAG

SWR

CFM

ESP

EXIST

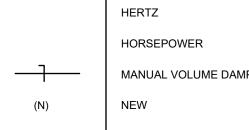
FD

FLA

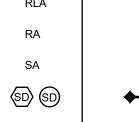
MVD

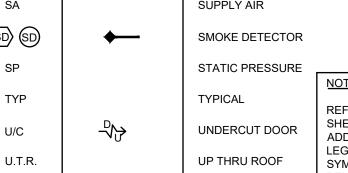
| BOLS AND A | BBREVIATIONS |
|--------------|--|
| | SUPPLY AIR PLENUM CROSS-S |
| | SUPPLY DIFFUSER RETURN AIR GRILLE |
| | EXHAUST AIR GRILLE SIDE WALL SUPPLY REGISTER |
| → -[] | SIDE WALL RETURN GRILLE |
| (S) | ROOM SENSOR |
| | CUBIC FEET PER MINUTE EXHAUST AIR |
| (E) | ROOF MOUNTED EXHAUST FAN EXTERNAL STATIC PRESSURE EXISTING |
| FD 7 | FIRE DAMPER |

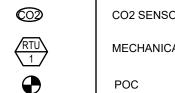
FULL LOAD AMPERES HERTZ





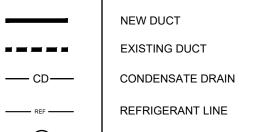


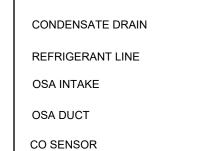




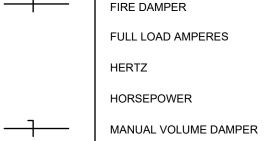
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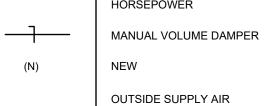
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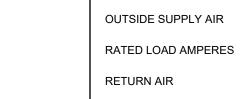


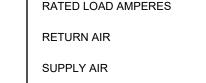


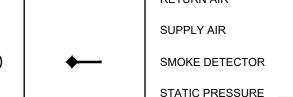
| AND A | BBREVIATIONS |
|--------------|---------------------------------|
| | SUPPLY AIR PLENUM CROSS-SECTION |
| | RETURN AIR PLENUM CROSS-SECTION |
| \boxtimes | SUPPLY DIFFUSER |
| | RETURN AIR GRILLE |
| | EXHAUST AIR GRILLE |
| ~- [] | SIDE WALL SUPPLY REGISTER |
| | SIDE WALL RETURN GRILLE |
| T | ROOM THERMOSTAT |
| S | ROOM SENSOR |
| | CUBIC FEET PER MINUTE |
| | EXHAUST AIR |
| | ROOF MOUNTED EXHAUST FAN |
| | EXTERNAL STATIC PRESSURE |

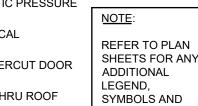


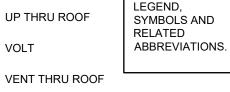


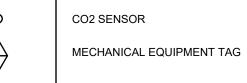


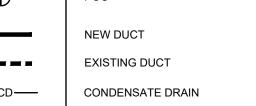












- ALL WORK SHALL CONFORM TO MECHANICAL CODE, BUILDING CODE AND ALL OTHER APPLICABLE CITY CODES AND REGULATIONS.
- THE CONTRACTOR SHALL PAY FOR ALL PERMITS AND FEES.
- CONTROL LOW VOLTAGE WIRING BY MECHANICAL CONTRACTOR AND CONDUIT BY ELECTRICAL CONTRACTOR.
- CONDENSATE DRAIN PIPING AND FINAL CONNECTION TO UNIT BY PLUMBING
- 5. G.C. TO VERIFY CURRENT ELECTRICAL POWER CONDITION IN FIELD BEFORE PURCHASING ANY MECHANICAL EQUIPMENT.
- CONTRACTOR TO VERIFY MECHANICAL HEATING EQUIPMENT TO BE CONFORM TO LOCAL EPA STANDARD BEFORE PURCHASING EQUIPMENT.
- ACCURATE AS-BUILT DRAWINGS SHALL BE MADE DURING CONSTRUCTION AND SUBMITTED FOR APPROVAL UPON COMPLETION OF INSTALLATION.
- THE CONTRACTOR SHALL COORDINATE WITH GENERAL CONTRACTOR FOR SIZE AND LOCATION OF DUCTWORK ROOF OPENINGS AND WITH ELECTRICAL CONTRACTOR FOR ELECTRICAL REQUIREMENTS OF ALL MECHANICAL EQUIPMENT AND ARCHITECTURAL DRAWINGS FOR AIR DISTRIBUTION
- THE CONTRACTOR SHALL SUBMIT BID BASED ON THE DRAWINGS AND ALTERNATE FOR COST SAVING. THESE DRAWINGS ARE FOR BIDDING
- 10. THE CONTRACTOR SHALL FURNISH ALL MATERIALS, LABOR, EQUIPMENT, TRANSPORTATION AND SERVICES NECESSARY FOR COMPLETION OF THE WORK. ALL MATERIALS AND WORK SHALL COMPLY WITH APPLICABLE CODES AND GOVERNING REGULATIONS AND MEET THE APPROVAL OF THE
- . TAKE ALL PRECAUTIONS NECESSARY TO PROTECT THE MATERIALS BEFORE, DURING AND AFTER INSTALLATION. IN THE EVENT OF DAMAGE, IMMEDIATELY REPAIR ALL DAMAGED AND DEFECTIVE WORK TO THE APPROVAL OF THE ARCHITECT AT NO ADDITIONAL COST TO THE OWNER.
- THESE DRAWINGS ARE DIAGRAMMATIC. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING HIS WORK WITH ALL OTHER TRADES. THIS INCLUDES COORDINATING THE LOCATION AND SIZE OF ALL OPENINGS, LOCATIONS OF EQUIPMENT PADS AND CHANGES OF ELEVATIONS OF DUCTWORK, PIPING AND OTHER EQUIPMENT.
- ANY MATERIAL, ARTICLE OR PIECE OF EQUIPMENT OTHER THAN THAT INDICATED SHALL NOT BE USED UNLESS APPROVED IN WRITING BY THE ENGINEER AND ANY CHANGES IN MECHANICAL, ELECTRICAL AND/OR OTHER SYSTEMS REQUIRED DUE TO SUCH SUBSTITUTION SHALL BE THE RESPONSIBILITY OF THE HVAC CONTRACTOR; AND AT NO ADDITIONAL COST TO THE OWNER.
- THE CONTRACTOR SHALL VISIT SITE PRIOR TO BIDDING TO VERIFY LOCATIONS AND SIZES OF ALL EXISTING EQUIPMENT AND INFORM THE ARCHITECT AND ENGINEER OF ANY DISCREPANCIES.
- 15. CONTRACTOR TO VERIFY ADEQUATE PLUMBING CONNECTIONS ARE READILY AVAILABLE FOR EVAPORATIVE COOLERS AND GAS HEATING SYSTEMS BEFORE PURCHASING EQUIPMENT.
- COORDINATE ENTIRE INSTALLATION OF THE H.V.A.C. SYSTEM WITH THE WORK OF ALL OTHER TRADES PRIOR TO ANY FABRICATION OR INSTALLATION. PROVIDE ALL FITTINGS, OFFSETS, AND TRANSITIONS AS REQUIRED FOR A COMPLETE WORKABLE INSTALLATION.
- CONTRACTOR SHALL SUBMIT A COMPLETE BALANCE REPORT FOR APPROVAL. SYSTEMS AIR BALANCE SHALL BE PERFORMED BY AN INDEPENDENT AIR BALANCE CONSULTANT. A CERTIFIED AABC OR NEBB.
- THE REPORT SHALL INCLUDE THE FOLLOWING: a AIR QUANTITIES AT EACH REGISTER. b. STATIC PRESSURE READINGS AT INLET AND DISCHARGE OF EACH
- AIR HANDLING SYSTEM AND AT INLET OF EACH EXHAUST AIR c. COOLING AND HEATING SUPPLY AND RETURN AIR TEMPERATURES AT EACH AIR CONDITIONING UNIT.
- . WARRANTIES; 1-YEAR WARRANTY FOR EQUIPMENT, 5-YEAR COMPRESSORS. REFER TO CONSTRUCTION CONTRACT FOR OTHER APPLICABLE WARRANTIES.
- 19. EQUIPMENT SPECIFICATION AND INTERLOCK DIAGRAM SHALL BE SUBMITTED FOR APPROVAL PRIOR TO PURCHASE OF EQUIPMENT FOR
- 20. ALL EQUIPMENT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE EQUIPMENT MANUFACTURER'S RECOMMENDATIONS. PROVIDE ALL FITTINGS, TRANSITIONS, DAMPERS, VALVES AND OTHER DEVICES REQUIRED FOR A COMPLETE WORKABLE INSTALLATION.
- ALL HVAC AND FAN UNITS SHOWN ON THE PLAN IS RECOMMENDED. FINAL MAKE AND MODEL OF THE UNITS WILL BE DETERMINED BY THE OWNER/MECHANICAL CONTRACTOR WITH AN APPROVAL FROM THE MECHANICAL ENGINEER.
- THE HVAC SYSTEM AND COMPONENTS SHALL BE TESTED, ADJUSTED AND BALANCED IN ACCORDANCE WITH AABC'S NATIONAL STANDARDS FOR TOTAL SYSTEM BALANCE (6TH EDITION).
- 23. PROVIDE FILTER FOR AIR CONDITIONING AND/OR AIR SIDE UNITS AS REQUIRED PER ASHRAE AND MECHANICAL CODE.
- 24. THERMOSTAT SHALL BE 24 VOLT, ONE STAGE HEATING AND ONE OR TWO STAGE COOLING WITH MATCHING SUBBASE AND TAMPER PROOF COVER.
- 25. CONDENSATE PIPING SHALL BE SIZED IN ACCORDANCE WITH MECHANICAL
- 26. CONDENSATE WASTE SHALL CONNECT INDIRECTLY TO THE DRAINAGE SYSTEM THROUGH AN AIR GAP OR AIR BREAK TO PROPERLY TRAPPED AND VENTED RECEPTORS, DRY WELLS, OR THE TAILPIECE OF A PLUMBING
- WHERE CONDENSATE WASTE FROM AIR CONDITIONING COILS DISCHARGES BY DIRECT CONNECTION TO A LAVATORY TAILPIECE OR TO AN APPROVED ACCESSIBLE INLET ON A BATHTUB OVERFLOW, THE CONNECTION SHALL BE LOCATED IN AN AREA CONTROLLED BY THE SAME PERSON CONTROLLING THE AIR-CONDITIONED SPACE.
- 28. THE REFRIGERATION EQUIPMENT REFRIGERANT SERVICE PORTS LOCATED OUTDOORS SHALL BE FITTED WITH LOCKING TYPE TAMPER RESISTANT CAPS OR SHALL BE PROTECTED FROM UNAUTHORIZED ACCESS BY A MEANS ACCEPTABLE TO THE ENFORCING AGENCY.
- 29. THE HEATING AND COOLING DUCT SYSTEM IS SIZED IN ACCORDANCE WITH
- 30. G.C. TO VERIFY SUFFICIENCY OF DUCT SPACE BEFORE PURCHASING ANY MECHANICAL EQUIPMENT.
- 31. DUCTWORK SHALL BE INSULATED OR LINED AS NOTED ON DRAWINGS. ALL DUCTWORK EXPOSED ON ROOF SHALL BE INTERNALLY LINED UNLESS OTHERWISE INDICATED OR SPECIFIED. ALL DUCT SIZES ARE SHEET METAL SIZES. ALL DUCT JOINTS SHALL BE SEALED PER SPECIFICATIONS.
- 32. CONNECT MAIN DUCT TO AIR CONDITIONING UNIT WITH WEATHERPROOF FLEXIBLE CONNECTION. SUN SHIELD OVER ENTIRE FLEXIBLE CONNECTIONS REQUIRED IF FLEXIBLE CONNECTION IS EXPOSED TO WEATHER.
- 33. ALL LINED DUCT DIMENSIONS ARE NET CLEAR DIMENSION AFTER LINING HAS BEEN INSTALLED. 34. ALL DUCTWORK SIZE SHOWN ON PLAN ARE INTERIOR DIAMETER.
- BEFORE INSTALLATION. 35. DUCTS SHALL BE SUPPORTED WITH 1" WIDE 16-GAUGE HANGER STRAPS AND SHALL BE SPACED AT NO MORE THAN 7'-0" ON CENTERS AND SHALL BE SECURED TO STRUCTURAL MEMBER. EXPOSED DUCTWORK ON ROOF SHALL BE SUPPORTED BY GALVANIZED STEEL ANGLE & SHALL BE PER LOCAL CODE.

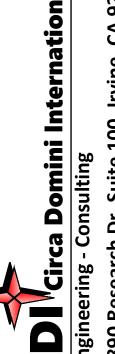
CONTRACTOR SHALL ADD INSULATION THICKNESS INTO CONSIDERATION

HVAC GENERAL NOTES

- 36. ROUND AND RECTANGULAR DUCTWORK ARE INTERCHANGEABLE IF CROSS SECTION AREAS ARE EQUIVALENT. CONTRACTOR IS TO VERIFY THE EXACT CEILING SPACE AND INTERCHANGE THE DUCT SIZE TO FIT THE CEILING
 - . ALL FACTORY-FABRICATED DUCT SYSTEMS SHALL COMPLY WITH UL 181 FOR DUCTS AND CLOSURE SYSTEMS, INCLUDING COLLARS, CONNECTIONS, AND SPLICES, AND BE LABELED AS COMPLYING WITH UL 181.

SPACE WITHOUT ADDITIONAL FEE CHARGE.

- B. INSTALL VOLUME CONTROL DAMPERS AT EACH SUPPLY DIFFUSER TO AFFORD COMPLETE CONTROL OF THE AIR FLOW IN THE VARIOUS DUCT SYSTEMS. INSTALL SPLITTER DAMPER AT DUCT TAKEOFFS AND DAMPER AS REQUIRED.
- 39. AUTOMATIC FIRE DAMPER REQUIREMENTS ARE AS FOLLOWS: a. PROVIDE AUTOMATIC FIRE DAMPERS AT ALL PENETRATIONS OF FIRE-RATED CEILINGS AND WALLS THROUGHOUT. CONTRACTOR SHALL COORDINATE WITH FIRE-RATED CEILING AREAS AND WALLS AS INDICATED ON ARCHITECTURAL DRAWINGS. THIS NOTE SHALL TAKE PRECEDENCE OVER ANY OMISSIONS ON THE DRAWINGS. SEE
 - b. LOCATION OF FIRE-RATED CEILINGS AND WALLS ARE AS INDICATED ON THE ARCHITECTURAL DRAWINGS.
- 0. COORDINATE THE LOCATION OF ALL CEILING DIFFUSERS, REGISTERS AND GRILLES WITH THE ARCHITECTURAL REFLECTED CEILING PLAN, ELECTRICAL LIGHTING LAYOUT AND ARCHITECTURAL ROOM ELEVATIONS.
- 11. ALL CEILING DIFFUSERS ARE 4-WAY UNLESS OTHERWISE NOTED.
- 22. PROVIDE BACK-DRAFT DAMPER FOR ALL EXHAUST AIR DUCT UNLESS OTHERWISE NOTED PER CODE.
- \$3. EXHAUST TERMINATION SHALL BE MINIMUM 10'-0" AWAY OR 3'-0" ABOVE FROM ANY FRESH AIR INTAKE, OPERABLE WINDOWS, DOORS AND 10'-0" MINIMUM ABOVE GRADE.
- 14. PROVIDE ALL FRESH AIR INTAKES AND EXHAUST OUTLETS WITH HOOD, 1/2" GALVANIZED MESH SCREENS AND OUTSIDE AIR BACK-DRAFT DAMPERS.
- 5. DUCTS USED FOR DOMESTIC KITCHEN RANGE VENTILATION SHALL BE OF METAL, OR OTHER APPROVED MATERIAL, AND SHALL HAVE SMOOTH INTERIOR SURFACES. DUCTS FOR DOMESTIC RANGE HOODS SHALL ONLY SERVE COOKING APPLIANCES.





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CHECKED: D.N. R.C. DATE: SCALE: 03/20/2024 SHEET TITLE:

M000

MECHANICAL

NOTES

| EQ\ MARK | MANUEACTUED | MODEL | NOMINAL | | CAPACITY UH) | HEATING | | ELECTRICAL | - | FED / 0FED | LIODE | WEIGHT | DIMENSIONS |
|----------|-------------|-------------|---------|--------|-----------------|----------------|-------------|------------|------|------------|-------|--------|-------------------------------|
| MARK # | MANUFACTUER | MODEL | TONS | TH | SH | CAP. (BTUH) | V/PH/HZ | MCA | MOCP | EER / SEER | HSPF | (LBS) | (HxWxD) (INCHES) |
| HP - 1 | MISUBISHI | PUZ-A12NKA7 | 1 | 12,000 | 9,720 | 14,000 | 208 / 1 /60 | 11 | 15 | 12 / 20.8 | 10.2 | 93 | 24-13/16 X 31-13/1 11-3/16 |
| HP - 2 | MISUBISHI | PUZ-A12NKA7 | 1 | 12,000 | 9,720 | 14,000 | 208 / 1 /60 | 11 | 15 | 12 / 20.8 | 10.2 | 93 | 24-13/16 X 31-13/1 11-3/16 |
| HP - 3 | MISUBISHI | PUZ-A12NKA7 | 1 | 12,000 | 9,720 | 14,000 | 208 / 1 /60 | 11 | 15 | 12 / 20.8 | 10.2 | 93 | 24-13/16 X 31-13/ 11-3/16 |
| HP - 4 | MISUBISHI | PUZ-A12NKA7 | 1 | 12,000 | 9,720 | 14,000 | 208 / 1 /60 | 11 | 15 | 12 / 20.8 | 10.2 | 93 | 24-13/16 X 31-13/ 11-3/16 |
| HP - 5 | MISUBISHI | PUZ-A12NKA7 | 1 | 12,000 | 9,720 | 14,000 | 208 / 1 /60 | 11 | 15 | 12 / 20.8 | 10.2 | 93 | 24-13/16 X 31-13/ 11-3/16 |
| HP - 6 | MISUBISHI | PUZ-A12NKA7 | 1 | 12,000 | 9,720 | 14,000 | 208 / 1 /60 | 11 | 15 | 12 / 20.8 | 10.2 | 93 | 24-13/16 X 31-13/ 11-3/16 |
| HP - 7 | MISUBISHI | PUZ-A12NKA7 | 1 | 12,000 | 9,720 | 14,000 | 208 / 1 /60 | 11 | 15 | 12 / 20.8 | 10.2 | 93 | 24-13/16 X 31-13 11-3/16 |
| HP - 8 | MISUBISHI | PUZ-A12NKA7 | 1 | 12,000 | 9,720 | 14,000 | 208 / 1 /60 | 11 | 15 | 12 / 20.8 | 10.2 | 93 | 24-13/16 X 31-13 11-3/16 |
| HP- 9 | MISUBISHI | PUZ-A12NKA7 | 1 | 12,000 | 9,720 | 14,000 | 208 / 1 /60 | 11 | 15 | 12 / 20.8 | 10.2 | 93 | 24-13/16 X 31-13 11-3/16 |
| HP - 10 | MISUBISHI | PUZ-A12NKA7 | 1 | 12,000 | 9,720 | 14,000 | 208 / 1 /60 | 11 | 15 | 12 / 20.8 | 10.2 | 93 | 24-13/16 X 31-13 11-3/16 |
| HP - 11 | MISUBISHI | PUZ-A12NKA7 | 1 | 12,000 | 9,720 | 14,000 | 208 / 1 /60 | 11 | 15 | 12 / 20.8 | 10.2 | 93 | 24-13/16 X 31-13 11-3/16 |
| HP - 12 | MISUBISHI | PUZ-A12NKA7 | 1 | 12,000 | 9,720 | 14,000 | 208 / 1 /60 | 11 | 15 | 12 / 20.8 | 10.2 | 93 | 24-13/16 X 31-13 11-3/16 |
| HP - 13 | MISUBISHI | PUZ-A12NKA7 | 1 | 12,000 | 9,720 | 14,000 | 208 / 1 /60 | 11 | 15 | 12 / 20.8 | 10.2 | 93 | 24-13/16 X 31-13 11-3/16 |
| HP - 16 | MISUBISHI | PUZ-A12NKA7 | 1 | 12,000 | 9,720 | 14,000 | 208 / 1 /60 | 11 | 15 | 12 / 20.8 | 10.2 | 93 | 24-13/16 X 31-13 11-3/16 |
| HP - 17 | MISUBISHI | PUZ-A12NKA7 | 1 | 12,000 | 9,720 | 14,000 | 208 / 1 /60 | 11 | 15 | 12 / 20.8 | 10.2 | 93 | 24-13/16 X 31-13 11-3/16 |
| HP - 18 | MISUBISHI | PUZ-A12NKA7 | 1 | 12,000 | 9,720 | 14,000 | 208 / 1 /60 | 11 | 15 | 12 / 20.8 | 10.2 | 93 | 24-13/16 X 31-13 11-3/16 |
| HP - 19 | MISUBISHI | PUZ-A12NKA7 | 1 | 12,000 | 9,720 | 14,000 | 208 / 1 /60 | 11 | 15 | 12 / 20.8 | 10.2 | 93 | 24-13/16 X 31-13 11-3/16 |
| HP - 20 | MISUBISHI | PUZ-A12NKA7 | 1 | 12,000 | 9,720 | 14,000 | 208 / 1 /60 | 11 | 15 | 12 / 20.8 | 10.2 | 93 | 24-13/16 X 31-13 11-3/16 |
| HP - 21 | MISUBISHI | PUZ-A12NKA7 | 1 | 12,000 | 9,720 | 14,000 | 208 / 1 /60 | 11 | 15 | 12 / 20.8 | 10.2 | 93 | 24-13/16 X 31-13 11-3/16 |
| HP - 22 | MISUBISHI | PUZ-A12NKA7 | 1 | 12,000 | 9,720 | 14,000 | 208 / 1 /60 | 11 | 15 | 12 / 20.8 | 10.2 | 93 | 24-13/16 X 31-13 11-3/16 |

| | | | | FAN | SCH | EDU | LE | | | | |
|----------|--|-------|---------------|-----|------|-----|-----------------|---------------|-------------|--------------------------|---------|
| EQ MARK | EQUIP. | CFM | SP. (W.G.) | RPM | HP | FLA | MOTOR (ELEC) | SONES (DB) | WT (LBS) | MANUFACTURER & MODEL NO. | REMARKS |
| EF - 1 | RESTROOM HUMIDTY SENSING EXH FAN | 80 | 0.1" | - | 6.5W | 0.3 | 120 / 1 | 0.4 | 8.5 | BROAN AE50110DCS | 1,2 |
| KEF- 1 | KITCHEN EXH FAN | 250 | 0.25" | - | - | 1.4 | 120 / 1 | 5.0 | - | BROAN BCSD124 | 1,2 |
| REMARKS: | | | • | | | | | | | | |
| 1 | EQUIVALENT ACCEPT | ABLE. | | | | | | | | | |
| 2 | INSTALL WITH BACKDRAFT DAMPER. | | | | | | | | | | |

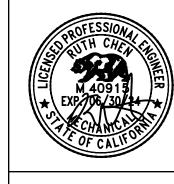
INSTALL OUTDOOR UNIT WITH DISCONNECT SWITCH AND ALL WEATHERPROOF GFCI.

INSTALL PER MANUFACTURER'S MANUAL.

| | | | | | | OUT | TDOOR | UNIT | SCHED | ULE | | | | |
|---|---------|------|--------------------|--------------------|---------|-----------------|-----------------|-----------|------------|------|-------------|------|--------|-----------------------------|
| | EQ # | MARK | MANUFACTUER | MODEL | TON | COOLING CAP. | HEATING CAP. | | ELECTRICAL | | EER / SEER | HSPF | WEIGHT | DIMENSIONS (HxWxD) |
| | #/ | | | | | (BTUH) | (BTUH) | V/PH/HZ | MCA | MOCP | | | (LBS) | (ÌNCHES) |
| | HP - | 14 | MITSUBISHI | PUZ-A24NHA7 | 2 | 24,000 | 28,000 | 208/1/60 | 19 | 25 | 11.1 / 18.9 | 10.6 | 190 | 37-1/8 X 37-13/32 X 14-3/16 |
| | HP - | 15 | MITSUBISHI | PUZ-A24NHA7 | 2 | 24,000 | 28,000 | 208/1/60 | 19 | 25 | 11.1 / 18.9 | 10.6 | 190 | 37-1/8 X 37-13/32 X 14-3/16 |
| | HP - | 23 | MITSUBISHI | PUZ-A24NHA7 | 2 | 24,000 | 28,000 | 208/1/60 | 19 | 25 | 11.1 / 18.9 | 10.6 | 190 | 37-1/8 X 37-13/32 X 14-3/16 |
| N | OTES: | | | | | | | | | | | | | |
| | 1 | | INSTALL OUTDOOR UN | NIT WITH DISCONNEC | CT SWIT | CH AND ALL | WEATHERPR | OOF GFCI. | | | | | | |
| | 2 | · | INSTALL PER MANUFA | CTURER'S MANUAL. | | | | | | | | | | |

| EQ MARK | MANUFACTUER | MODEL | TON | CFM | TYPE | COOLING CAP. | HEATING CAP. | ELECTRICAL | | | WEIGHT | DIMENSIONS (HxWxD) | | | |
|-----------|--------------------|---------------------|-------------|----------|---|-----------------|-----------------|------------|----------|------|--------|---------------------------|--|--|--|
| #_/ | | | | | | (BTUH) | (BTUH) | V/PH/HZ | MCA | MOCP | (LBS) | (ÌNCHES) | | | |
| FC 14 - 1 | MITSUBISHI | PKA-A12HA6 | 1 | 455 | WALL- MOUNTED | 12,000 | 14,000 | 208/1/60 | 1 | - | 28 | 11-25/32 X 35-23/64 X 9-1 | | | |
| FC 14 - 2 | MITSUBISHI | PKA-A12HA6 | 1 | 455 | WALL- MOUNTED | 12,000 | 14,000 | 208/1/60 | 1 | - | 28 | 11-25/32 X 35-23/64 X 9-1 | | | |
| FC 15 - 1 | MITSUBISHI | PKA-A12HA6 | 1 | 455 | WALL- MOUNTED | 12,000 | 14,000 | 208/1/60 | 1 | - | 28 | 11-25/32 X 35-23/64 X 9- | | | |
| FC 15 - 2 | MITSUBISHI | PKA-A12HA6 | 1 | 455 | WALL- MOUNTED | 12,000 | 14,000 | 208/1/60 | 1 | - | 28 | 11-25/32 X 35-23/64 X 9- | | | |
| FC 23 - 1 | MITSUBISHI | PKA-A12HA6 | 1 | 455 | WALL- MOUNTED | 12,000 | 14,000 | 208/1/60 | 1 | - | 28 | 11-25/32 X 35-23/64 X 9- | | | |
| FC 23 - 2 | MITSUBISHI | PKA-A12HA6 | 1 | 455 | WALL- MOUNTED | 12,000 | 14,000 | 208/1/60 | 1 | - | 28 | 11-25/32 X 35-23/64 X 9- | | | |
| TES: | | | 1 | 1 | 1 | 1 | | | <u> </u> | | 1 | 1 | | | |
| 1 | THERMOSTATS INSTA | LLED AT 48"AFF. | | | | | | | | | | | | | |
| 2 | EXTEND CONDENSAT | E DRAIN DIRECTLY TO | O A LOCAL (| CODE APP | ROVED RECEPT | OR. | | | | | | | | | |
| 3 | INSTALL PER MANUFA | CTURER'S MANUAL | | | EXTEND CONDENSATE DRAIN DIRECTLY TO A LOCAL CODE APPROVED RECEPTOR. | | | | | | | | | | |

| EQ # | MARK | MANUFACTUER | MODEL | TYPE | CFM | | ELECTRICAL | - | WEIGHT | DIMENSIONS (HxWxD) |
|---------|------|-------------------|----------------------|--------------|-----|-------------|------------|------|--------|---------------------------|
| # | WARK | MANUFACTUER | MODEL | TYPE | CFM | V/PH/HZ | MCA | МОСР | (LBS) | (INCHES) |
| FC - | 1 | MISUBISHI | PKA-12LA | WALL-MOUNTED | 400 | 208 / 1 /60 | 1 | - | 29 | 11-5/8 X 35-3/8 X 9-13/16 |
| FC - | 2 | MISUBISHI | PKA-12LA | WALL-MOUNTED | 400 | 208 / 1 /60 | 1 | - | 29 | 11-5/8 X 35-3/8 X 9-13/16 |
| FC - | 3 | MISUBISHI | PKA-12LA | WALL-MOUNTED | 400 | 208 / 1 /60 | 1 | - | 29 | 11-5/8 X 35-3/8 X 9-13/16 |
| FC - | 4 | MISUBISHI | PKA-12LA | WALL-MOUNTED | 400 | 208 / 1 /60 | 1 | - | 29 | 11-5/8 X 35-3/8 X 9-13/16 |
| FC - | 5 | MISUBISHI | PKA-12LA | WALL-MOUNTED | 400 | 208 / 1 /60 | 1 | - | 29 | 11-5/8 X 35-3/8 X 9-13/16 |
| FC - | 6 | MISUBISHI | PKA-12LA | WALL-MOUNTED | 400 | 208 / 1 /60 | 1 | - | 29 | 11-5/8 X 35-3/8 X 9-13/16 |
| FC - | 7 | MISUBISHI | PKA-12LA | WALL-MOUNTED | 400 | 208 / 1 /60 | 1 | - | 29 | 11-5/8 X 35-3/8 X 9-13/16 |
| FC - | 8 | MISUBISHI | PKA-12LA | WALL-MOUNTED | 400 | 208 / 1 /60 | 1 | - | 29 | 11-5/8 X 35-3/8 X 9-13/16 |
| FC - | 9 | MISUBISHI | PKA-12LA | WALL-MOUNTED | 400 | 208 / 1 /60 | 1 | - | 29 | 11-5/8 X 35-3/8 X 9-13/16 |
| FC - | 10 | MISUBISHI | PKA-12LA | WALL-MOUNTED | 400 | 208 / 1 /60 | 1 | - | 29 | 11-5/8 X 35-3/8 X 9-13/16 |
| FC - | 11 | MISUBISHI | PKA-12LA | WALL-MOUNTED | 400 | 208 / 1 /60 | 1 | - | 29 | 11-5/8 X 35-3/8 X 9-13/16 |
| FC - | 12 | MISUBISHI | PKA-12LA | WALL-MOUNTED | 400 | 208 / 1 /60 | 1 | - | 29 | 11-5/8 X 35-3/8 X 9-13/16 |
| FC - | 13 | MISUBISHI | PKA-12LA | WALL-MOUNTED | 400 | 208 / 1 /60 | 1 | - | 29 | 11-5/8 X 35-3/8 X 9-13/16 |
| FC - | 16 | MISUBISHI | PKA-12LA | WALL-MOUNTED | 400 | 208 / 1 /60 | 1 | - | 29 | 11-5/8 X 35-3/8 X 9-13/16 |
| FC - | 17 | MISUBISHI | PKA-12LA | WALL-MOUNTED | 400 | 208 / 1 /60 | 1 | - | 29 | 11-5/8 X 35-3/8 X 9-13/16 |
| FC - | 18 | MISUBISHI | PKA-12LA | WALL-MOUNTED | 400 | 208 / 1 /60 | 1 | - | 29 | 11-5/8 X 35-3/8 X 9-13/16 |
| FC - | 19 | MISUBISHI | PKA-12LA | WALL-MOUNTED | 400 | 208 / 1 /60 | 1 | - | 29 | 11-5/8 X 35-3/8 X 9-13/16 |
| FC - | 20 | MISUBISHI | PKA-12LA | WALL-MOUNTED | 400 | 208 / 1 /60 | 1 | - | 29 | 11-5/8 X 35-3/8 X 9-13/16 |
| FC - | 21 | MISUBISHI | PKA-12LA | WALL-MOUNTED | 400 | 208 / 1 /60 | 1 | - | 29 | 11-5/8 X 35-3/8 X 9-13/16 |
| FC - | 22 | MISUBISHI | PKA-12LA | WALL-MOUNTED | 400 | 208 / 1 /60 | 1 | - | 29 | 11-5/8 X 35-3/8 X 9-13/16 |
| OTES: | | | | · | | · | | · | · | |
| 1 | | THERMOSTATS INSTA | ALLED AT 48"AFF. | | | | | | | |
| 2 | | EXTEND CONDENSAT | E DDAINI DIDECTI V T | | | DECEDTOR | | | | |



6TH. AND F RESIDENTIAL HOTEL
545 "F" STREET
SAN DIEGO, CA 92101

NOISINE CHECKED:
D.N. R.C.

DATE:
03/20/2024

SHEET TITLE:

M001

MECHANICAL SCHEDULES

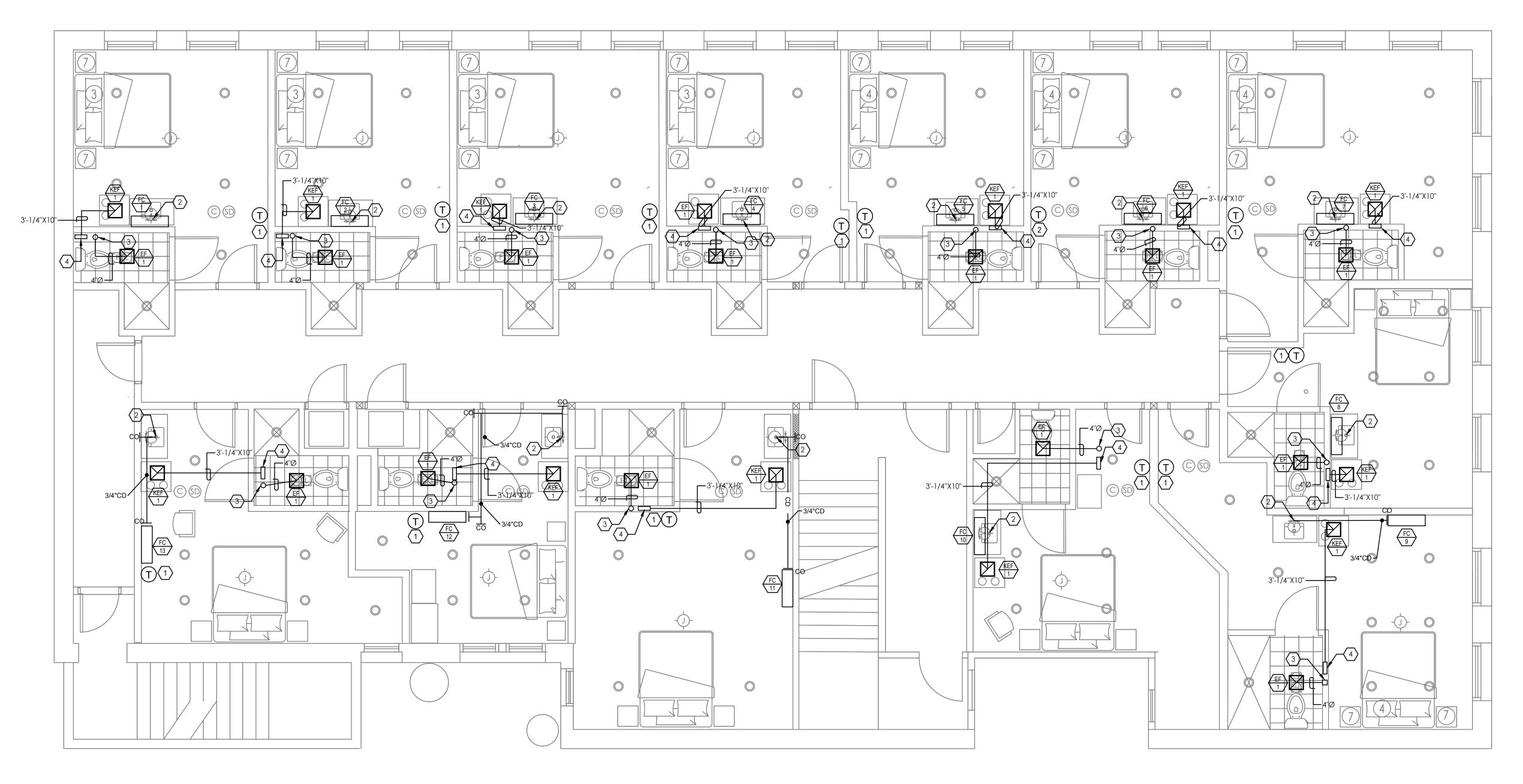
AND

R.C.

03/20/2024 1/4" = 1'-0" SHEET TITLE:

MECHANICAL PLAN -SECOND FLOOR

M100

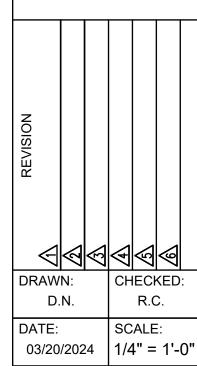


(#) KEYED PLAN NOTES:

- INSTALL PROGRAMMABLE THERMOSTAT 48"AFF. CONTRACTOR TO VERIFY FINAL LOCATION WITH OWNER PRIOR INSTALLATION.
- 2. CONDENSATION PIPE DISCHARGE BY DIRECT CONNECTION TO LAV TAILPIECE.
- 3. 4"Ø EXHAUST VENT TO ROOF.
- 4. 3'-1/4"X10" EXHAUST VENT TO ROOF.

GENERAL NOTES:

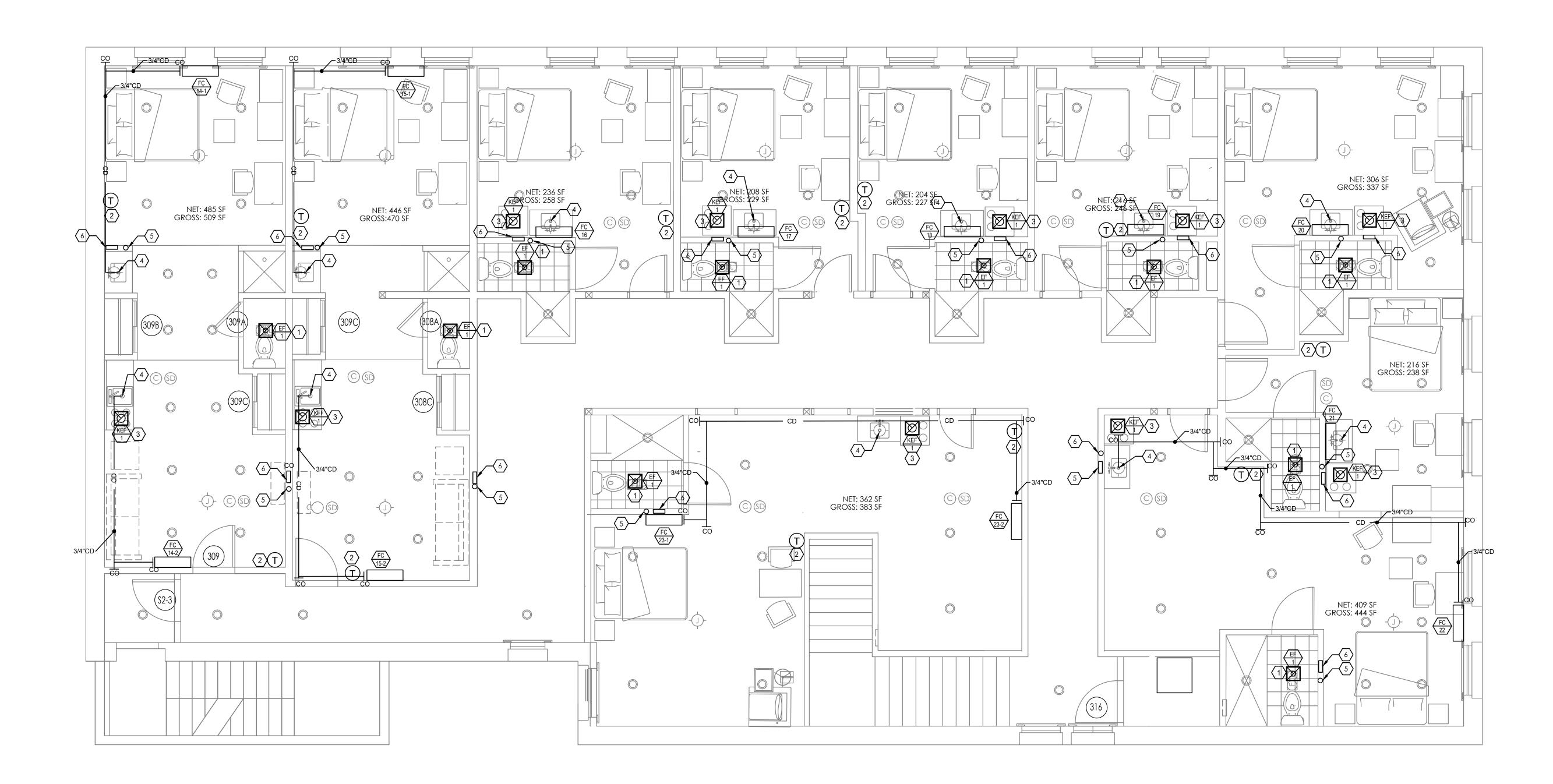
- IF DRAWINGS ARE INCORRECT FROM THE ACTUAL SITE CONDITION, CONTRACTOR SHALL NOTIFY ENGINEER(S) AND PROVIDE INFORMATION REFLECTING ACTUAL CONDITIONS.
- EXHAUST SHALL TERMINATE NOT LESS THAN 3 FEET FROM A PROPERTY LINE, 10 FEET FROM A FORCED AIR INLET, AND 3 FEET FROM OPENINGS INTO THE BUILDING.



SHEET TITLE:

MECHANICAL PLAN -THIRD FLOOR

M101

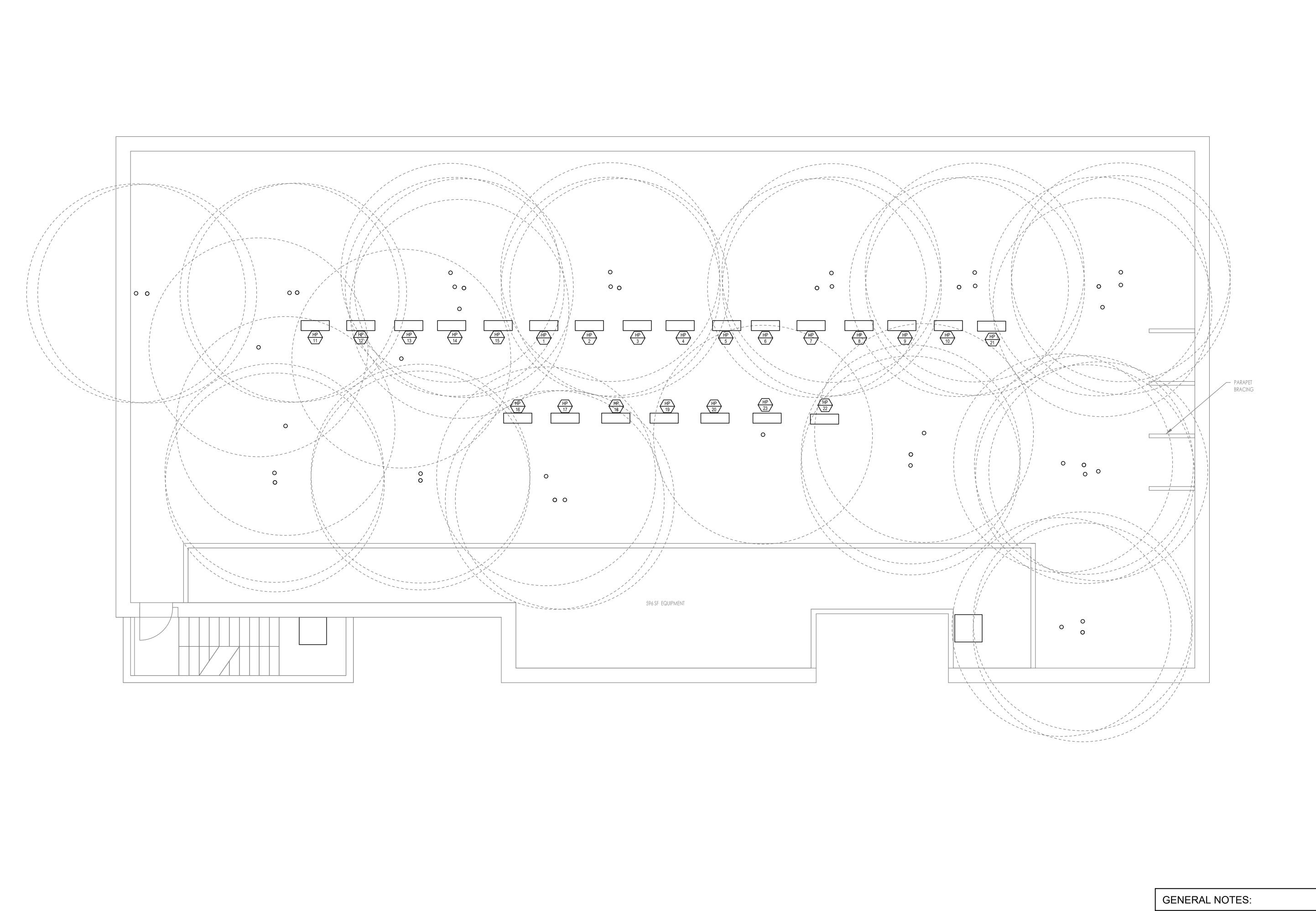


KEYED PLAN NOTES:

- 1. 4" EXHAUST VENT TO ROOF.
- 2. INSTALL PROGRAMMABLE THERMOSTAT 48"AFF. CONTRACTOR TO VERIFY FINAL LOCATION WITH OWNER PRIOR INSTALLATION.
- 3. 7" EXHAUST VENT TO ROOF.
- 4. CONDENSATION PIPE DISCHARGE BY DIRECT CONNECTION TO LAV TAILPIECE.
- 5. 4"Ø EXHAUST VENT FROM 2ND FLOOR TO ROOF
- 6. 3'-1/4"X10" EXHAUST VENT FROM 2ND FLOOR TO ROOF

GENERAL NOTES:

- IF DRAWINGS ARE INCORRECT FROM THE ACTUAL SITE CONDITION, CONTRACTOR SHALL NOTIFY ENGINEER(S) AND PROVIDE INFORMATION REFLECTING ACTUAL CONDITIONS.
- EXHAUST SHALL TERMINATE NOT LESS THAN 3 FEET FROM A PROPERTY LINE, 10 FEET FROM A FORCED AIR INLET, AND 3 FEET FROM OPENINGS INTO THE BUILDING.



- 1. IF DRAWINGS ARE INCORRECT FROM THE ACTUAL SITE CONDITION, CONTRACTOR SHALL NOTIFY ENGINEER(S) AND PROVIDE INFORMATION REFLECTING ACTUAL CONDITIONS.
- 2. EXHAUST SHALL TERMINATE NOT LESS THAN 3 FEET FROM A PROPERTY LINE, 10 FEET FROM A FORCED AIR INLET, AND 3 FEET FROM OPENINGS INTO THE BUILDING.



RESIDEN

CHECKED: D.N. R.C.

03/20/2024 1/4" = 1'-0"

SHEET TITLE:

MECHANICAL PLAN ROOF

M102

Schema Version: rev 20220101

Report Generated: 2024-03-24 19:57:24

Schema Version: rev 20220101

Report Generated: 2024-03-24 19:57:24

Schema Version: rev 20220101

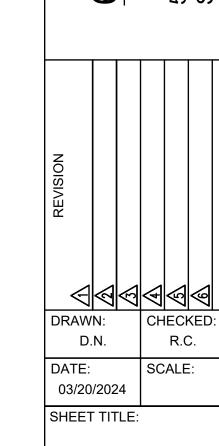
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CDI Circa Domini Internation Engineering - Consulting



ND F RESIDENTIAL HOTEL

545 "F" STREET SAN DIEGO, CA 92101



TM00

MECHANICAL

TITLE 24