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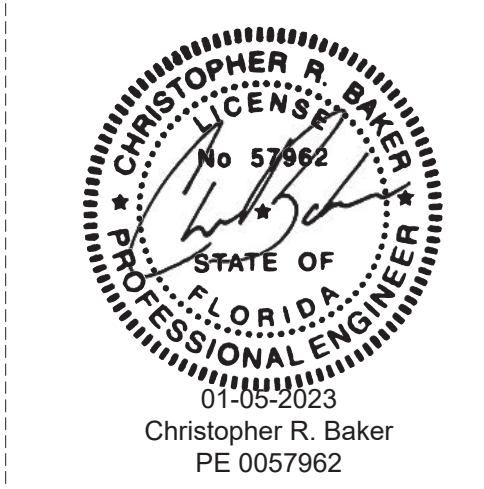
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941.351.5996
www.questdgroup.com
Cert. of Authorization# C31201
Mechanical Electrical Plumbing Fire Protection



Baker Barrios

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ORLANDO, FLORIDA 32801
407.926.3000
INFO@BAKERBARRIOS.COM
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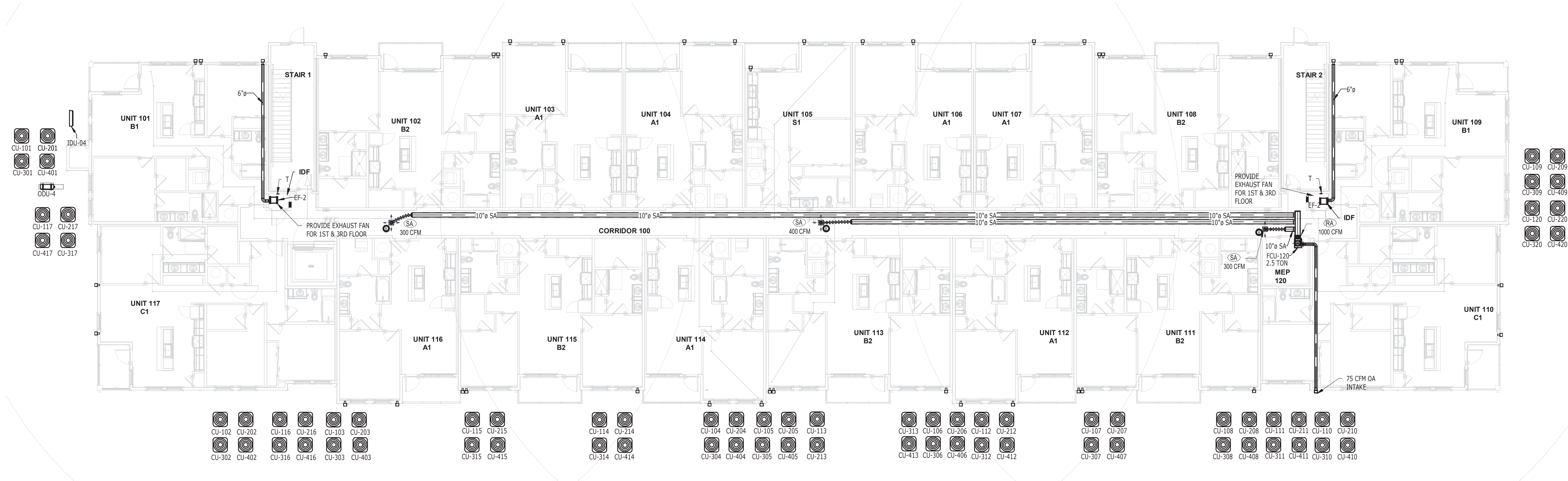
SR-82

7780 LIGHTARD KNOTT LN
FORT MYERS, FL 33905

PROJECT NO:
220035.00

**MECHANICAL PLAN -
FIRST TO FOURTH
TYPICAL FLOOR**

SHEET NUMBER:
RM1.00



① MECHANICAL PLAN - FIRST TO FOURTH TYPICAL FLOOR
3/32" = 1'-0"

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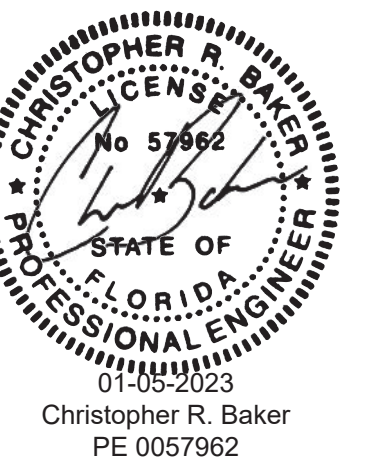
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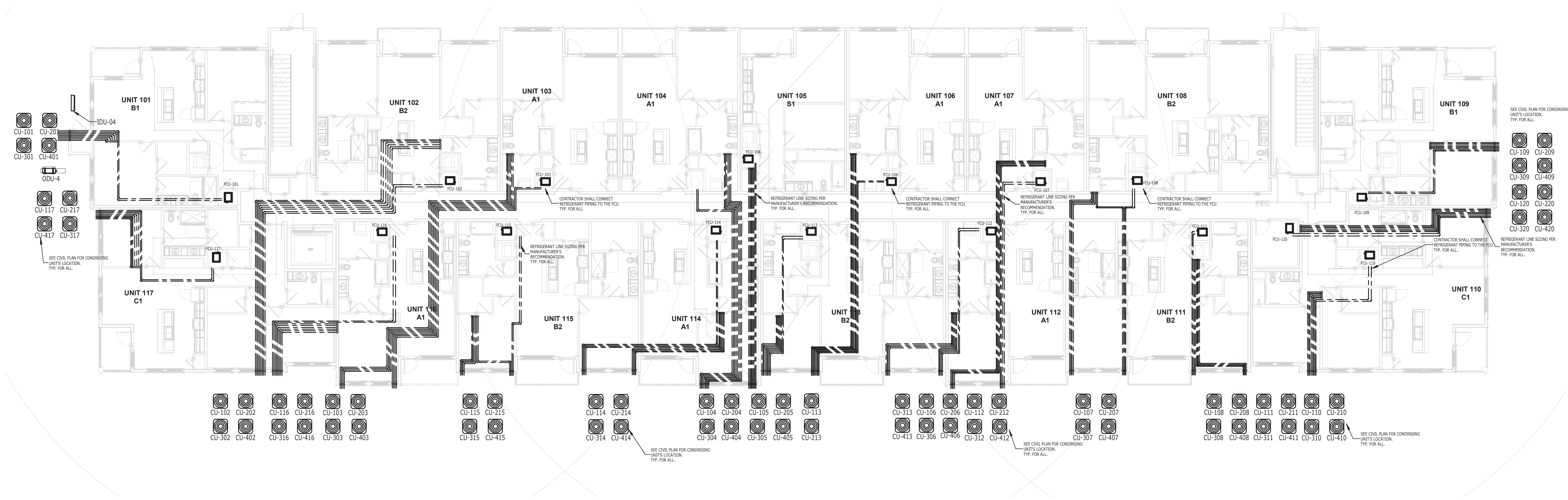
SR-82

7780 LIGHTARD KNOTT LN
FORT MYERS, FL 33905

PROJECT NO:
220035.00

**REFRIGERANT PLAN
- GROUND LEVEL**

SHEET NUMBER:
RM2.00



1 REFRIGERANT PLAN - GROUND LEVEL
3/32" = 1'-0"

1

2

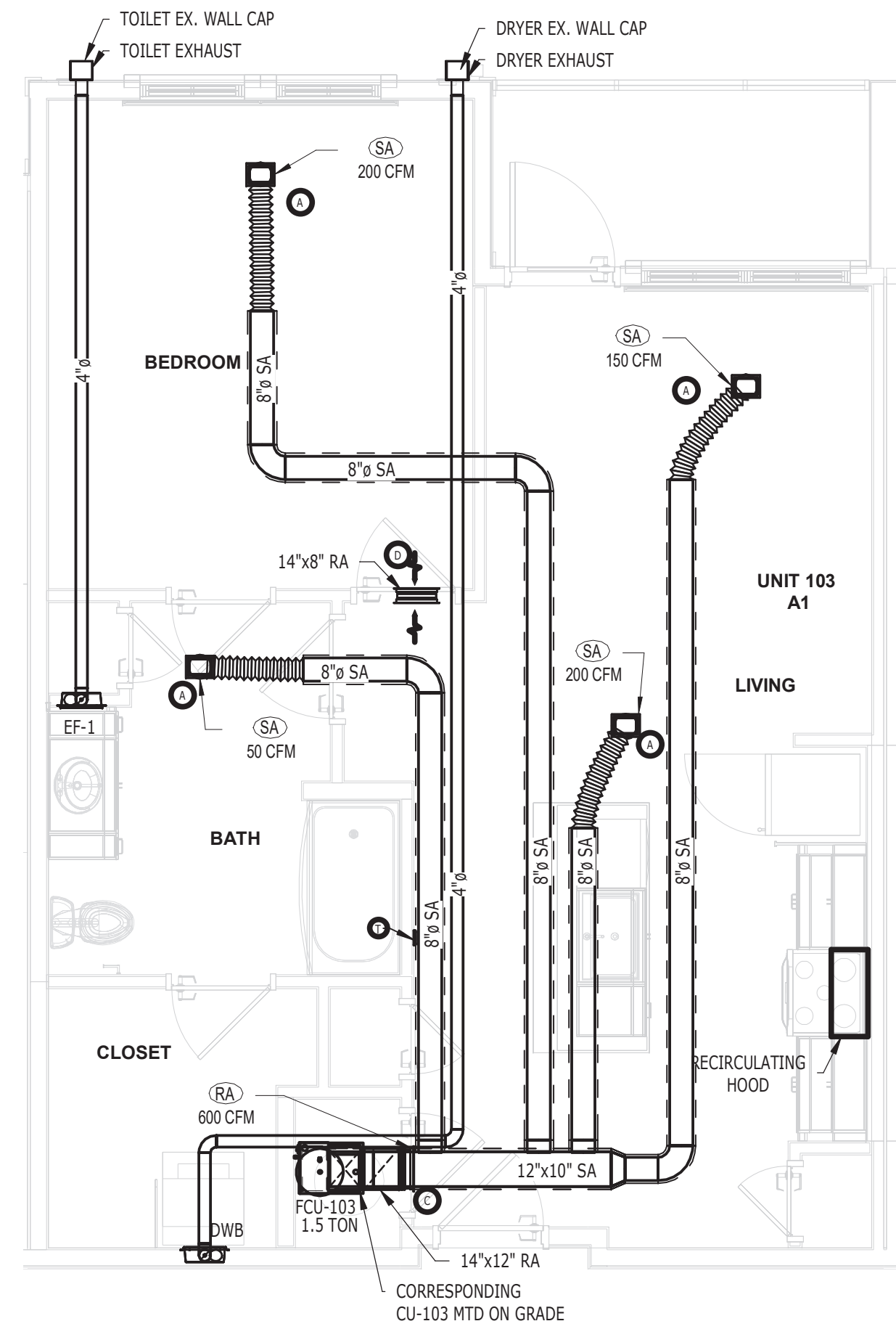
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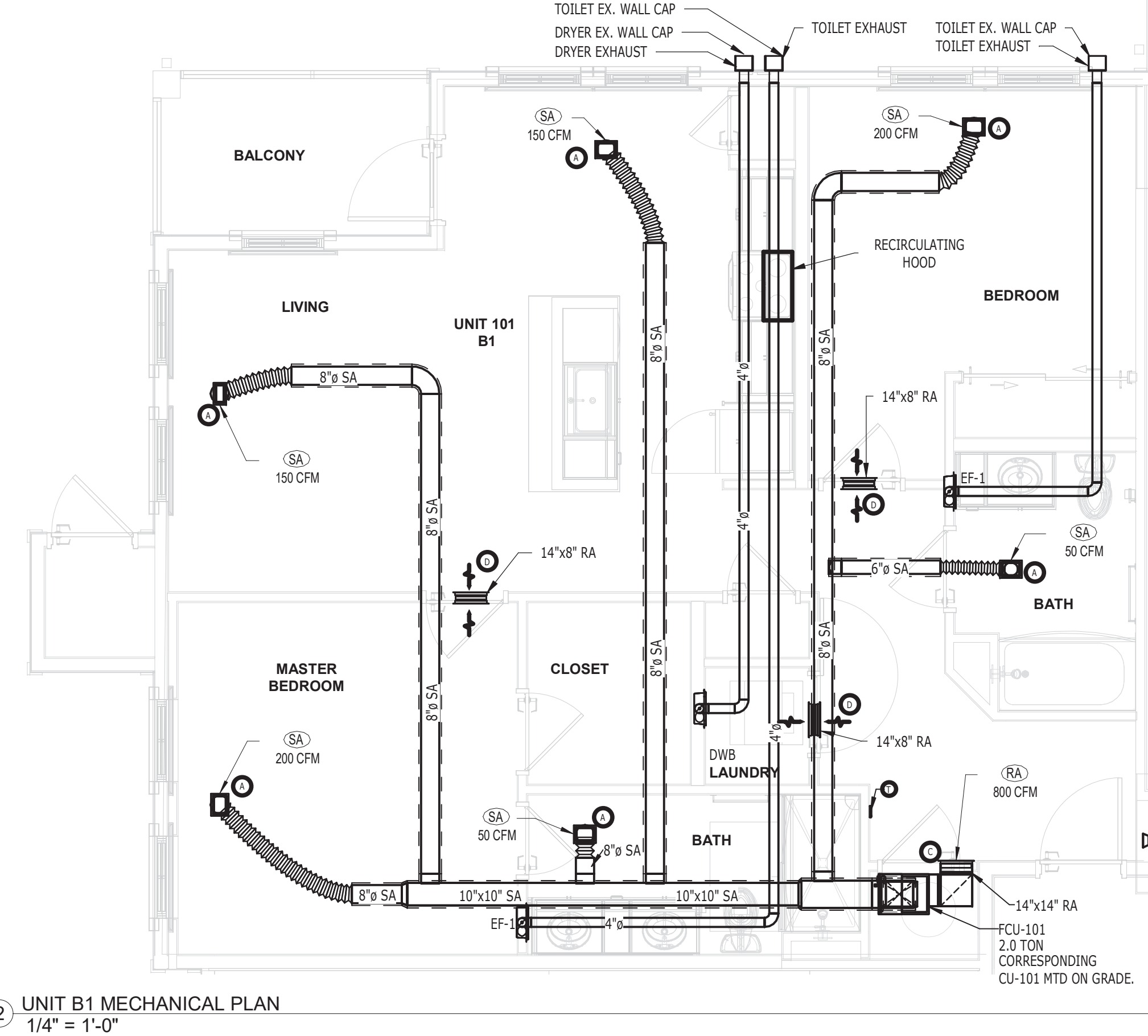
5

6

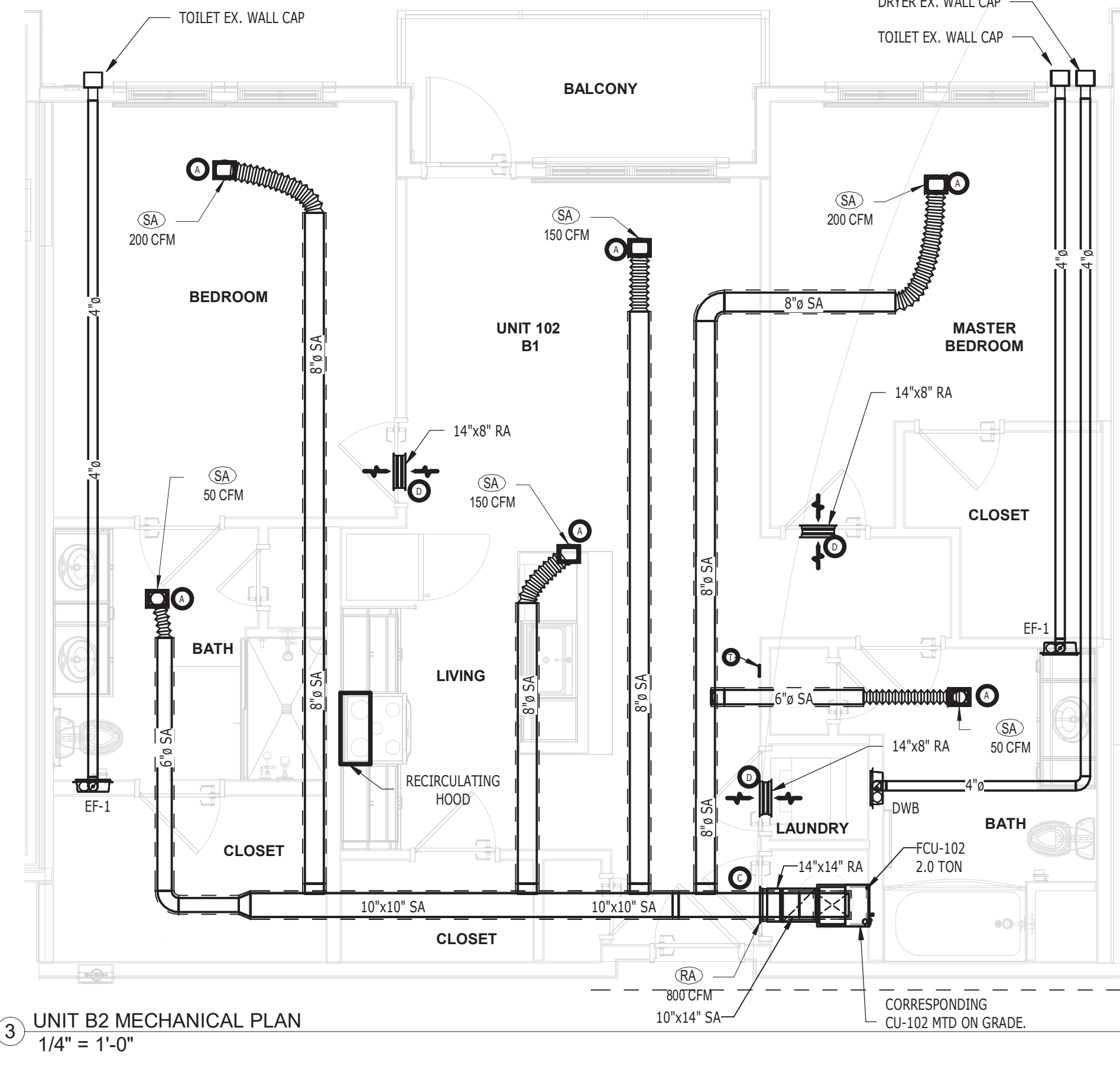
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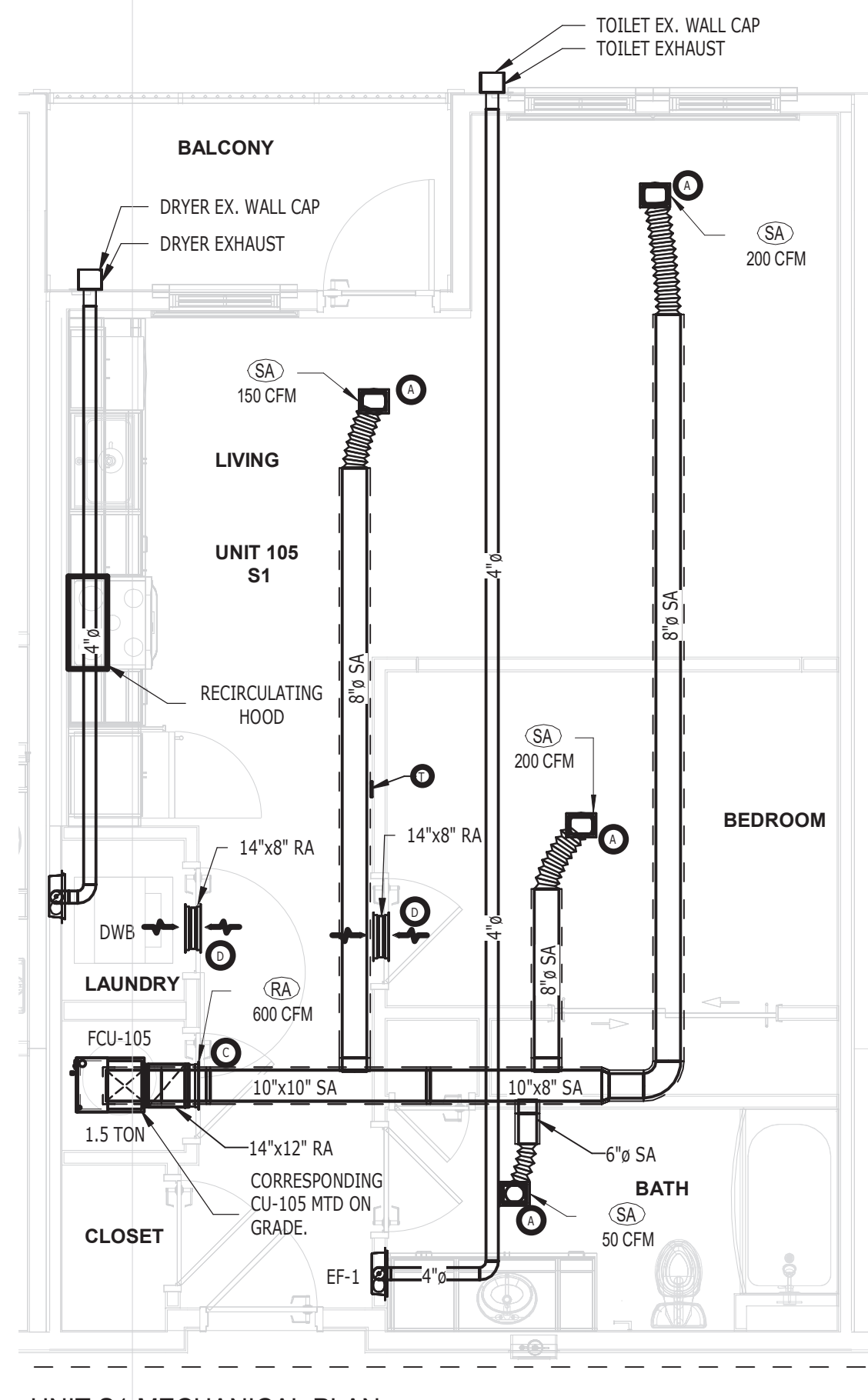
1 UNIT A1 MECHANICAL PLAN
1/4" = 1'-0"



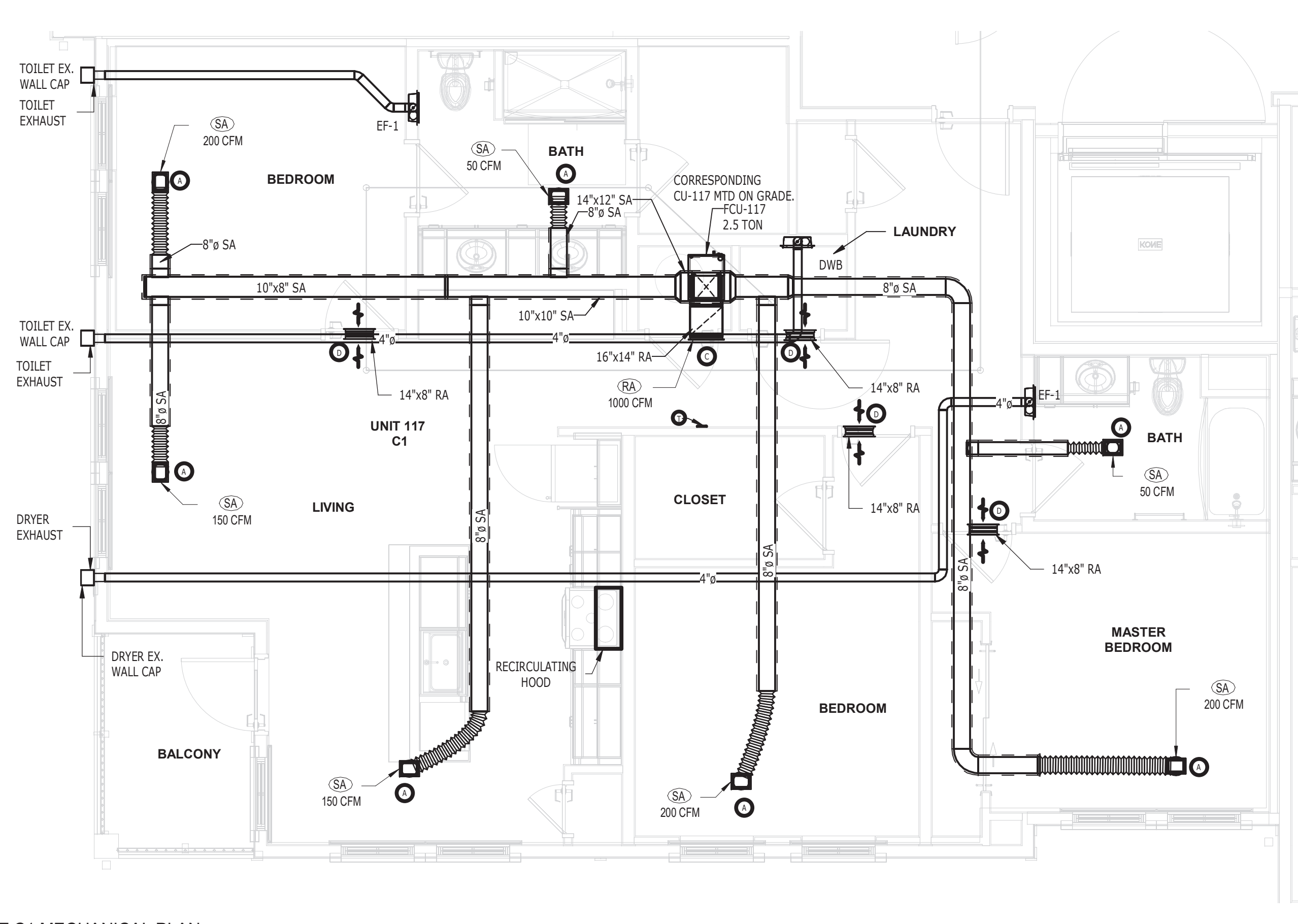
2 UNIT B1 MECHANICAL PLAN
1/4" = 1'-0"



3 UNIT B2 MECHANICAL PLAN
1/4" = 1'-0"



5 UNIT S1 MECHANICAL PLAN
1/4" = 1'-0"



4 UNIT C1 MECHANICAL PLAN
1/4" = 1'-0"

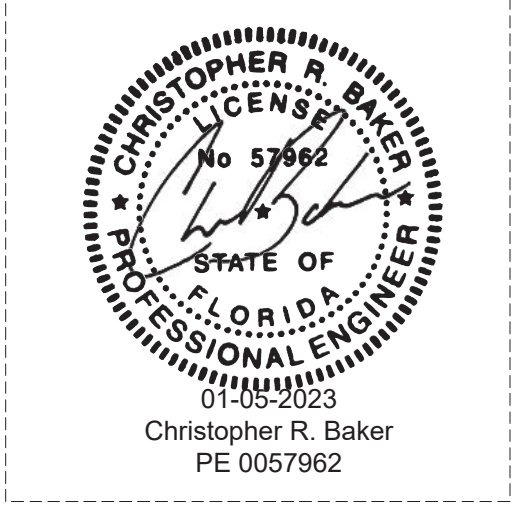
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| Δ | DATE | REVISION |
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SR-82

7780 LIGHTARD KNOTT LN
FORT MYERS, FL 33905

PROJECT NO:
220035.00

MECHANICAL UNIT PLANS

SHEET NUMBER:
RM3.00

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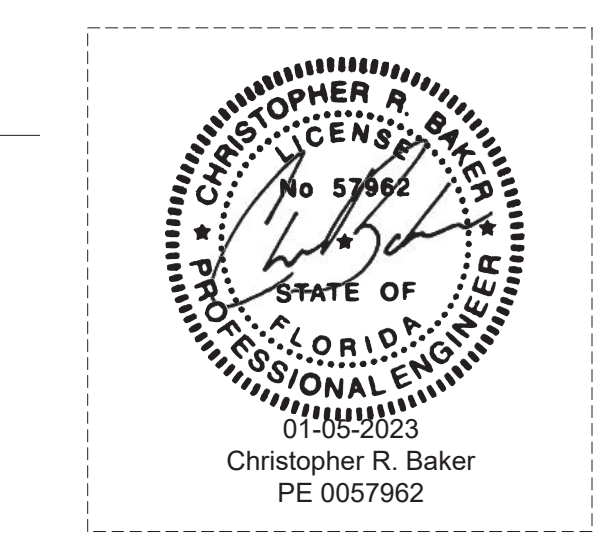
2020 FBC VENTILATION SCHEDULE table with columns: ROOM #, ROOM NAME, OCCUPANCY TYPE, Az (SQ.FT.), NATURAL LIGHT & VENT (CODE REQUIRED, ACTUAL), ORDINANCE REQUIRED (O.A.I. CFM, EXHAUST CFM, SUPPLY CFM), ACTUAL MINIMUM PROVIDED (O.A.I. CFM, EXHAUST/RETURN CFM), EQUIPMENT SERVING (SUPPLY FAN, EXHAUST FAN), Remarks.

2020 FBC VENTILATION SCHEDULE table with columns: ROOM #, ROOM NAME, OCCUPANCY TYPE, Az (SQ.FT.), NATURAL LIGHT & VENT (CODE REQUIRED, ACTUAL), ORDINANCE REQUIRED (O.A.I. CFM, EXHAUST CFM, SUPPLY CFM), ACTUAL MINIMUM PROVIDED (O.A.I. CFM, EXHAUST/RETURN CFM), EQUIPMENT SERVING (SUPPLY FAN, EXHAUST FAN), Remarks.

QDE ENGINEERING CONNECTIONS logo and contact information: 1850 Northgate Blvd., Sarasota, FL 34234, 941.351.5996, www.questdesign.com



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Revision table with columns: DATE, SUBMISSION

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SR-82

7780 LIGHTARD KNOTT LN FORT MYERS, FL 33905 PROJECT NO: 220035.00

MECHANICAL SCHEDULES SHEET NUMBER: RM.00

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2020 FBC VENTILATION SCHEDULE

| ROOM # | ROOM NAME | OCCUPANCY TYPE | AZ (SQ. FT.) | NATURAL LIGHT & VENT | | | | ORDINANCE REQUIRED | | | ACTUAL MINIMUM PROVIDED | | | EQUIPMENT SERVING | | Remarks |
|-----------------------------|------------------|----------------|--------------|----------------------|---------|----------|---------|--------------------|-------------|------------|-------------------------|---------------------|------------|-------------------|-----------------------|---------|
| | | | | CODE REQUIRED | | ACTUAL | | O.A.I. CFM | EXHAUST CFM | SUPPLY CFM | O.A.I. CFM | EXHAUST/ RETURN CFM | SUPPLY FAN | EXHAUST FAN | | |
| | | | | GLASS SF | VENT SF | GLASS SF | VENT SF | | | | | | | | | |
| UNIT 401 (TYPE - B1) | | | | | | | | | | | | | | | | |
| 001 | BEDROOM 1 | LIVING | 145 | 11.6 | 5.8 | 36 | 13.5 | - | - | 200 | - | - | FCU-401 | - | | |
| 002 | BEDROOM 2 | LIVING | 165 | 13.2 | 6.6 | 36 | 13.5 | - | - | 200 | - | - | FCU-401 | - | | |
| 003 | BATH-1 | TOILET ROOM | 60 | - | - | - | - | 70 | 50 | - | 75 | FCU-401 | EF-1 | | | |
| 004 | BATH-2 | TOILET ROOM | 72 | - | - | - | - | 70 | 50 | - | 75 | FCU-401 | EF-2 | | | |
| 005 | KITCHEN + LIVING | LIVING | 440 | 35.2 | 17.6 | 90 | 33.75 | - | - | 300 | - | - | FCU-401 | - | | |
| UNIT 402 (TYPE - B2) | | | | | | | | | | | | | | | | |
| 001 | BEDROOM 1 | LIVING | 152 | 12.16 | 6.08 | 36 | 13.5 | - | - | 200 | - | - | FCU-402 | - | | |
| 002 | BEDROOM 2 | LIVING | 180 | 14.4 | 7.2 | 36 | 13.5 | - | - | 200 | - | - | FCU-402 | - | | |
| 003 | BATH-1 | TOILET ROOM | 82 | - | - | - | - | 123 | 50 | - | 75 | FCU-402 | EF-3 | | | |
| 004 | BATH-2 | TOILET ROOM | 72 | - | - | - | - | 108 | 50 | - | 75 | FCU-402 | EF-4 | | | |
| 005 | KITCHEN + LIVING | LIVING | 368 | 29.44 | 14.72 | 36 | 37.5 | - | - | 300 | - | - | FCU-402 | - | | |
| UNIT 403 (TYPE - A1) | | | | | | | | | | | | | | | | |
| 001 | BEDROOM | LIVING | 168 | 13.44 | 6.72 | 36 | 13.5 | - | - | 200 | - | - | FCU-403 | - | | |
| 002 | BATH | TOILET ROOM | 90 | - | - | - | - | 135 | 50 | - | 75 | FCU-403 | EF-5 | | | |
| 003 | KITCHEN + LIVING | LIVING | 355 | 28.4 | 14.2 | 36 | 37.5 | - | - | 300 | - | - | FCU-403 | - | | |
| UNIT 404 (TYPE - A1) | | | | | | | | | | | | | | | | |
| 001 | BEDROOM | LIVING | 168 | 13.44 | 6.72 | 36 | 13.5 | - | - | 200 | - | - | FCU-404 | - | | |
| 002 | BATH | TOILET ROOM | 90 | - | - | - | - | 135 | 50 | - | 75 | FCU-404 | EF-6 | | | |
| 003 | KITCHEN + LIVING | LIVING | 355 | 28.4 | 14.2 | 36 | 37.5 | - | - | 300 | - | - | FCU-404 | - | | |
| UNIT 405 (TYPE - B1) | | | | | | | | | | | | | | | | |
| 001 | BEDROOM | LIVING | 110 | 8.8 | 4.4 | - | - | - | - | 200 | - | - | FCU-405 | - | BORROWED LIGHT & VENT | |
| 002 | BATH | TOILET ROOM | 75 | - | - | - | - | 113 | 50 | - | 75 | FCU-405 | EF-7 | | | |
| 003 | KITCHEN + LIVING | LIVING | 300 | 24 | 12 | 54 | 20.25 | - | - | 300 | - | - | FCU-405 | - | | |
| UNIT 406 (TYPE - A1) | | | | | | | | | | | | | | | | |
| 001 | BEDROOM | LIVING | 168 | 13.44 | 6.72 | 36 | 13.5 | - | - | 200 | - | - | FCU-406 | - | | |
| 002 | BATH | TOILET ROOM | 90 | - | - | - | - | 135 | 50 | - | 75 | FCU-406 | EF-8 | | | |
| 003 | KITCHEN + LIVING | LIVING | 355 | 28.4 | 14.2 | 36 | 37.5 | - | - | 300 | - | - | FCU-406 | - | | |
| UNIT 407 (TYPE - A1) | | | | | | | | | | | | | | | | |
| 001 | BEDROOM | LIVING | 168 | 13.44 | 6.72 | 36 | 13.5 | - | - | 200 | - | - | FCU-407 | - | | |
| 002 | BATH | TOILET ROOM | 90 | - | - | - | - | 135 | 50 | - | 75 | FCU-407 | EF-9 | | | |
| 003 | KITCHEN + LIVING | LIVING | 355 | 28.4 | 14.2 | 36 | 37.5 | - | - | 300 | - | - | FCU-407 | - | | |
| UNIT 408 (TYPE - B2) | | | | | | | | | | | | | | | | |
| 001 | BEDROOM 1 | LIVING | 152 | 12.16 | 6.08 | 36 | 13.5 | - | - | 200 | - | - | FCU-408 | - | | |
| 002 | BEDROOM 2 | LIVING | 180 | 14.4 | 7.2 | 36 | 13.5 | - | - | 200 | - | - | FCU-408 | - | | |
| 003 | BATH-1 | TOILET ROOM | 82 | - | - | - | - | 123 | 50 | - | 75 | FCU-408 | EF-10 | | | |
| 004 | BATH-2 | TOILET ROOM | 72 | - | - | - | - | 108 | 50 | - | 75 | FCU-408 | EF11 | | | |
| 005 | KITCHEN + LIVING | LIVING | 368 | 29.44 | 14.72 | 36 | 37.5 | - | - | 300 | - | - | FCU-408 | - | | |
| UNIT 409 (TYPE - B1) | | | | | | | | | | | | | | | | |
| 001 | BEDROOM 1 | LIVING | 145 | 11.6 | 5.8 | 36 | 13.5 | - | - | 200 | - | - | FCU-409 | - | | |
| 002 | BEDROOM 2 | LIVING | 165 | 13.2 | 6.6 | 36 | 13.5 | - | - | 200 | - | - | FCU-409 | - | | |
| 003 | BATH-1 | TOILET ROOM | 60 | - | - | - | - | 90 | 50 | - | 75 | FCU-409 | EF-12 | | | |
| 004 | BATH-2 | TOILET ROOM | 72 | - | - | - | - | 108 | 50 | - | 75 | FCU-409 | EF-13 | | | |
| 005 | KITCHEN + LIVING | LIVING | 440 | 35.2 | 17.6 | 90 | 33.75 | - | - | 300 | - | - | FCU-409 | - | | |
| UNIT 410 (TYPE - C1) | | | | | | | | | | | | | | | | |
| 001 | BEDROOM 1 | LIVING | 117 | 9.36 | 4.68 | 36 | 13.5 | - | - | 200 | - | - | FCU-410 | - | | |
| 002 | BEDROOM 2 | LIVING | 127 | 10.16 | 5.08 | 36 | 13.5 | - | - | 200 | - | - | FCU-410 | - | | |
| 003 | BEDROOM 3 | LIVING | 155 | 12.4 | 6.2 | 18 | 6.75 | - | - | 200 | - | - | FCU-410 | - | | |
| 004 | BATH-1 | TOILET ROOM | 92 | - | - | - | - | 138 | 50 | - | 75 | FCU-410 | EF-14 | | | |
| 005 | BATH-2 | TOILET ROOM | 62 | - | - | - | - | 93 | 50 | - | 75 | FCU-410 | EF-15 | | | |
| 006 | KITCHEN + LIVING | LIVING | 538 | 43.04 | 21.52 | 72 | 27 | - | - | 300 | - | - | FCU-410 | - | | |
| UNIT 411 (TYPE - B2) | | | | | | | | | | | | | | | | |
| 001 | BEDROOM 1 | LIVING | 145 | 11.6 | 5.8 | 36 | 13.5 | - | - | 200 | - | - | FCU-411 | - | | |
| 002 | BEDROOM 2 | LIVING | 165 | 13.2 | 6.6 | 36 | 13.5 | - | - | 200 | - | - | FCU-411 | - | | |
| 003 | BATH-1 | TOILET ROOM | 60 | - | - | - | - | 90 | 50 | - | 75 | FCU-411 | EF-16 | | | |
| 004 | BATH-2 | TOILET ROOM | 72 | - | - | - | - | 108 | 50 | - | 75 | FCU-411 | EF-17 | | | |
| 005 | KITCHEN + LIVING | LIVING | 440 | 35.2 | 17.6 | 36 | 37.5 | - | - | 300 | - | - | FCU-411 | - | | |
| UNIT 412 (TYPE - A1) | | | | | | | | | | | | | | | | |
| 001 | BEDROOM | LIVING | 168 | 13.44 | 6.72 | 36 | 13.5 | - | - | 200 | - | - | FCU-412 | - | | |
| 002 | BATH | TOILET ROOM | 90 | - | - | - | - | 135 | 50 | - | 75 | FCU-412 | EF-18 | | | |
| 003 | KITCHEN + LIVING | LIVING | 355 | 28.4 | 14.2 | 36 | 37.5 | - | - | 300 | - | - | FCU-412 | - | | |
| UNIT 413 (TYPE - B2) | | | | | | | | | | | | | | | | |
| 001 | BEDROOM 1 | LIVING | 145 | 11.6 | 5.8 | 36 | 13.5 | - | - | 200 | - | - | FCU-413 | - | | |
| 002 | BEDROOM 2 | LIVING | 165 | 13.2 | 6.6 | 36 | 13.5 | - | - | 200 | - | - | FCU-413 | - | | |
| 003 | BATH-1 | TOILET ROOM | 60 | - | - | - | - | 90 | 50 | - | 75 | FCU-413 | EF-19 | | | |
| 004 | BATH-2 | TOILET ROOM | 72 | - | - | - | - | 108 | 50 | - | 75 | FCU-413 | EF-20 | | | |
| 005 | KITCHEN + LIVING | LIVING | 440 | 35.2 | 17.6 | 36 | 37.5 | - | - | 300 | - | - | FCU-413 | - | | |
| UNIT 414 (TYPE - A1) | | | | | | | | | | | | | | | | |
| 001 | BEDROOM | LIVING | 168 | 13.44 | 6.72 | 36 | 13.5 | - | - | 200 | - | - | FCU-414 | - | | |
| 002 | BATH | TOILET ROOM | 90 | - | - | - | - | 135 | 50 | - | 75 | FCU-414 | EF-21 | | | |
| 003 | KITCHEN + LIVING | LIVING | 355 | 28.4 | 14.2 | 36 | 37.5 | - | - | 300 | - | - | FCU-414 | - | | |
| UNIT 415 (TYPE - B2) | | | | | | | | | | | | | | | | |
| 001 | BEDROOM 1 | LIVING | 145 | 11.6 | 5.8 | 36 | 13.5 | - | - | 200 | - | - | FCU-415 | - | | |
| 002 | BEDROOM 2 | LIVING | 165 | 13.2 | 6.6 | 36 | 13.5 | - | - | 200 | - | - | FCU-415 | - | | |
| 003 | BATH-1 | TOILET ROOM | 60 | - | - | - | - | 90 | 50 | - | 75 | FCU-415 | EF-22 | | | |
| 004 | BATH-2 | TOILET ROOM | 72 | - | - | - | - | 108 | 50 | - | 75 | FCU-415 | EF-23 | | | |
| 005 | KITCHEN + LIVING | LIVING | 440 | 35.2 | 17.6 | 36 | 37.5 | - | - | 300 | - | - | FCU-415 | - | | |
| UNIT 416 (TYPE - A1) | | | | | | | | | | | | | | | | |
| 001 | BEDROOM | LIVING | 168 | 13.44 | 6.72 | 36 | 13.5 | - | - | 200 | - | - | FCU-416 | - | | |
| 002 | BATH | TOILET ROOM | 90 | - | - | - | - | 135 | 50 | - | 75 | FCU-416 | EF-24 | | | |
| 003 | KITCHEN + LIVING | LIVING | 355 | 28.4 | 14.2 | 36 | 37.5 | - | - | 300 | - | - | FCU-416 | - | | |
| UNIT 417 (TYPE - C1) | | | | | | | | | | | | | | | | |
| 001 | BEDROOM 1 | LIVING | 117 | 9.36 | 4.68 | 36 | 13.5 | - | - | 200 | - | - | FCU-417 | - | | |
| 002 | BEDROOM 2 | LIVING | 127 | 10.16 | 5.08 | 36 | 13.5 | - | - | 200 | - | - | FCU-417 | - | | |
| 003 | BEDROOM 3 | LIVING | 155 | 12.4 | 6.2 | 18 | 6.75 | - | - | 200 | - | - | FCU-417 | - | | |
| 004 | BATH-1 | TOILET ROOM | 92 | - | - | - | - | 138 | 50 | - | 75 | FCU-417 | EF-25 | | | |
| 005 | BATH-2 | TOILET ROOM | 62 | - | - | - | - | 93 | 50 | - | 75 | FCU-417 | EF-26 | | | |
| 006 | KITCHEN + LIVING | LIVING | 538 | 43.04 | 21.52 | 72 | 27 | - | - | 300 | - | - | FCU-417 | - | | |
| CORRIDOR 400 | | | | | | | | | | | | | | | | |
| 001 | CORRIDOR | CORRIDOR | 117 | - | - | - | - | - | - | 1000 | - | - | FCU-420 | - | | |

2020 FBC VENTILATION SCHEDULE

| ROOM # | ROOM NAME | OCCUPANCY TYPE | AZ (SQ. FT.) | NATURAL LIGHT & VENT | | | | ORDINANCE REQUIRED | | | ACTUAL MINIMUM PROVIDED | | | EQUIPMENT SERVING | | Remarks |
|-----------------------------|------------------|----------------|--------------|----------------------|---------|----------|---------|--------------------|-------------|------------|-------------------------|---------------------|------------|-------------------|--|---------|
| | | | | CODE REQUIRED | | ACTUAL | | O.A.I. CFM | EXHAUST CFM | SUPPLY CFM | O.A.I. CFM | EXHAUST/ RETURN CFM | SUPPLY FAN | EXHAUST FAN | | |
| | | | | GLASS SF | VENT SF | GLASS SF | VENT SF | | | | | | | | | |
| UNIT 301 (TYPE - B1) | | | | | | | | | | | | | | | | |
| 001 | BEDROOM 1 | LIVING | 145 | 11.6 | 5.8 | 36 | 13.5 | - | - | 200 | - | - | FCU-301 | - | | |
| 002 | BEDROOM 2 | LIVING | 165 | 13.2 | 6.6 | 36 | 13.5 | - | - | 200 | - | - | FCU-301 | - | | |
| 003 | BATH-1 | TOILET ROOM | 60 | - | - | - | - | 70 | 50 | - | 75 | FCU-301 | EF-1 | | | |
| 004 | BATH-2 | TOILET ROOM | 72 | - | - | - | - | 70 | 50 | - | 75 | FCU-301 | EF-2 | | | |
| 005 | KITCHEN + LIVING | LIVING | 440 | 35.2 | 17.6 | 90 | 33.75 | - | - | 300 | - | - | FCU-301 | - | | |
| UNIT 302 (TYPE - B2) | | | | | | | | | | | | | | | | |
| 001 | BEDROOM 1 | LIVING | 152 | 12.16 | 6.08 | 36 | 13.5 | - | - | 200 | - | - | FCU-302 | - | | |
| 002 | BEDROOM 2 | LIVING | 180 | 14.4 | 7.2 | 36 | 13.5 | - | - | 200 | - | - | FCU-302 | - | | |
| 003 | BATH-1 | TOILET ROOM | 82 | - | - | - | - | 123 | 50 | - | 75 | FCU-302 | EF-3 | | | |
| 004 | BATH-2 | TOILET ROOM | 72 | - | - | - | - | 108 | 50 | - | 75 | FCU-302 | EF-4 | | | |
| 005 | KITCHEN + LIVING | LIVING | 368 | 29.44 | 14.72 | 36 | 37.5 | - | - | 300 | - | - | FCU-302 | - | | |
| UNIT 303 (TYPE - A1) | | | | | | | | | | | | | | | | |
| 001 | BEDROOM | LIVING | 168 | 13.44 | 6.72 | 36 | 13.5 | - | - | 200 | - | - | FCU-303 | - | | |
| 002 | BATH | TOILET ROOM | 90 | - | - | - | - | 135 | 50 | - | 75 | FCU-303 | EF-5 | | | |
| 003 | KITCHEN + LIVING | LIVING | 355 | 28.4 | 14.2 | 36 | 37.5 | - | | | | | | | | |

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CONDENSING UNIT SCHEDULE

Table with columns: EQUIPMENT TAG, LOCATION, UNIT SERVED, MANUFACTURER, MODEL, WEIGHT (LBS.), DIMENSIONS (INCHES), TONS, REFRIGERANT TYPE, CONDENSER FAN (QUANTITY, CFM, MOTOR, RPM), COOLING (TOTAL (MBH), EAT (° F), LAT (° F), REFRIGERANT WEIGHT (LBS.)), ELECTRICAL (MCA, MOC, PHASE, VOLTS), NOTES. Includes units CU-411 through CU-420.

- NOTES: 1. ALL THE CLEARANCES PROVIDED TO BE AS PER MANUFACTURER'S RECOMMENDATION. 2. PROVIDE NEMA 3R DISCONNECT SWITCH. 3. PROVIDE WITH VIBRATION ISOLATORS, COMPRESSOR WRAP AND SOUND SHIELD. 4. PROVIDE ADDITIONAL REFRIGERANT FOR LINE LENGTH COMPENSATION PER MFR RECOMMENDATIONS. 5. PROVIDE HARD SHUT-OFF TVX AND HARD START KIT. 6. PROVIDE CRANK CASE HEATERS AND COMPRESSOR START ASSIST CAPACITOR AND RELAY.

EXHAUST FAN SCHEDULE

Table with columns: EQUIPMENT TAG, LOCATION, AREA SERVED, MANUFACTURER, MODEL, FAN TYPE, SONES, DAMPER SIZE (IN.), CFM, DRIVE, ESP. (INCHES), MOTOR (HP, RPM), ELECTRICAL (MCA, MOC, PHASE, VOLTS), CONTROLS, NOTES. Includes units EF-1 and EF-2.

- NOTES: 1. SINGLE POINT WIRING CONNECTION. 2. EXHAUST TERMINATION SHALL BE AT LEAST 15'-0" FROM ANY O.A.I. OPENING. 3. PROVIDE GRAVITY BACKDRAFT DAMPER. 4. PROVIDE UNIT MOUNTED NEMA1 DISCONNECT. 5. PROVIDE ROOF CURB. 6. PROVIDE SPARE BELT SET. 7. PROVIDE VIBRATION ISOLATORS. 8. PROVIDE INLET, OUTLET AND BELT GUARDS. 9. PROVIDE INLET AND OUTLET FLEX DUCT CONNECTIONS. 10. PROVIDE HINGED SUB BASE. 11. PROVIDE FAN MOUNTED SPEED CONTROL. 12. PROVIDE BELT TENSION ROTARY.

STRAIGHT ELECTRIC SPLIT SYSTEMS

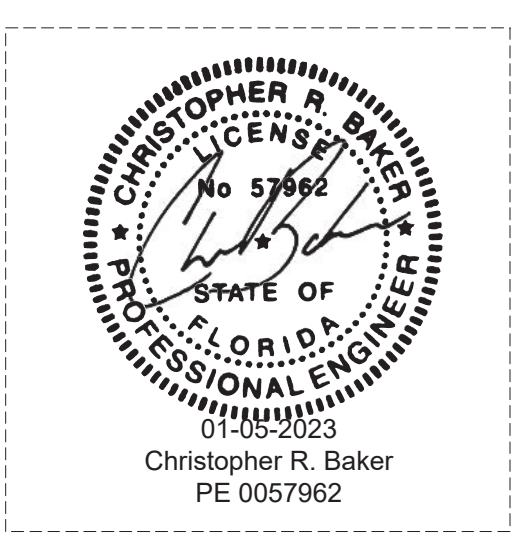
Table with columns: EQUIPMENT TAG, LOCATION, AREA SERVED, SYSTEM TYPE, MANUFACTURER, MODEL, UNIT TYPE, UNIT WEIGHT (LBS.), DIMENSIONS (INCHES), FAN (MAXIMUM CFM, ESP. (INCHES)), MOTOR (HP, RPM), ELECTRICAL (MCA, MOC, PHASE, VOLTS), SEER, HEATING (MIN. ELECTRICAL STRIP HEAT CAPACITY (KW@208)), NOTES. Lists units FCU-101 through FCU-220.

QDG Quest Design Group, Inc. 1855 Northgate Blvd. Sarasota, FL 34234. 941.351.5996 www.questdesign.com. Cert. of Authorization# C31201. Mechanical Electrical Plumbing Fire Protection.



Baker Barrios

ORLANDO 189 S. ORANGE AVE., SUITE 1700 ORLANDO, FLORIDA 32801 407.926.3000 INFO@BAKERBARRIOS.COM BAKERBARRIOS.COM AA0002981 | LC26000427



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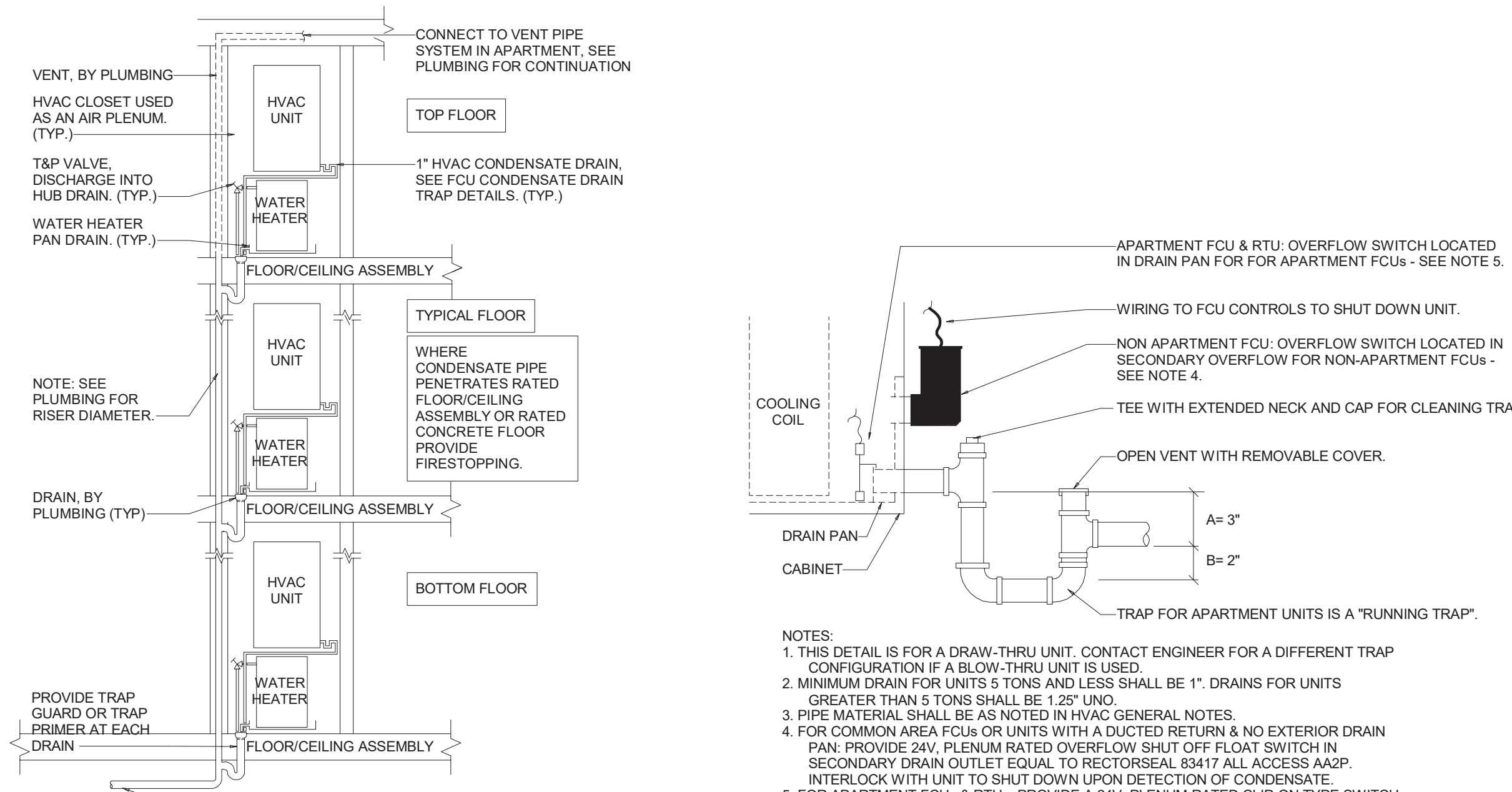
TO THE BEST OF THE ARCHITECT'S OR ENGINEER'S KNOWLEDGE AND ABILITY, THE PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES.



MILHAUS SR-82

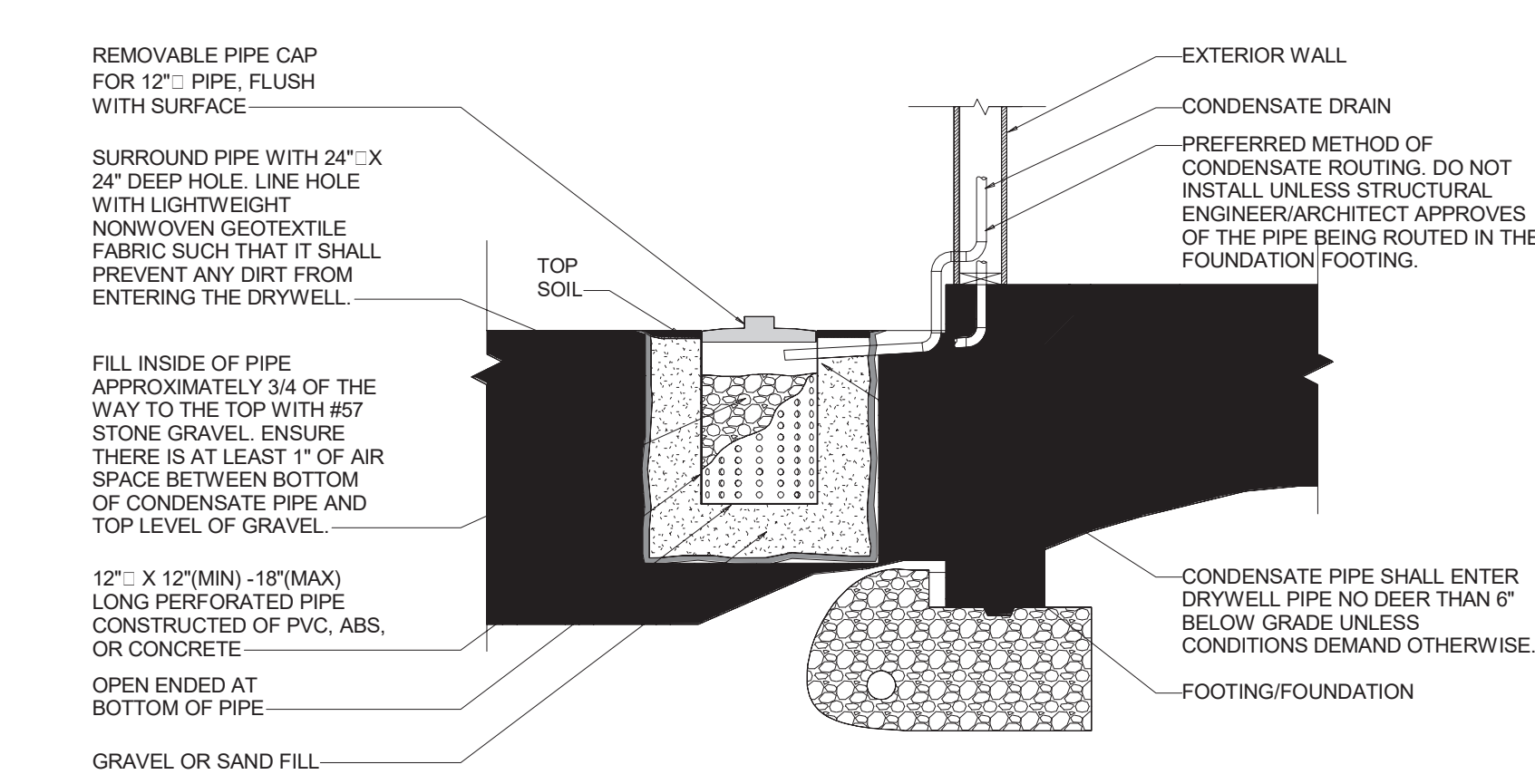
7780 LIGHTARD KNOTT LN FORT MYERS, FL 33905 PROJECT NO: 220035.00 MECHANICAL SCHEDULES SHEET NUMBER: RM.03

THE LINE SHOWN ABOVE IS SUBJECT TO CHANGE WITHOUT NOTICE.



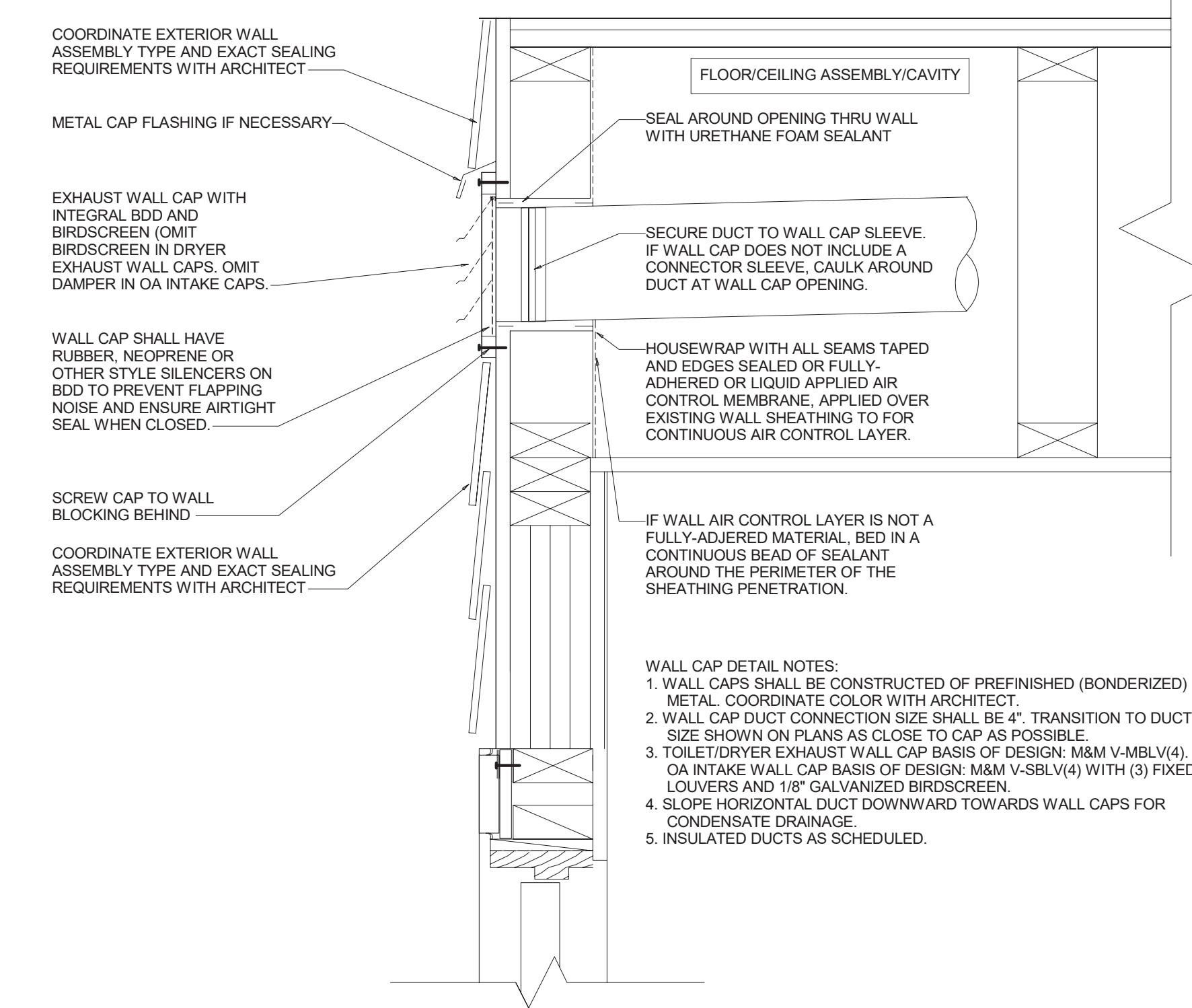
- NOTES: 1. SEE BUILDING PLANS FOR THE EXACT NUMBER OF FLOORS... 2. FOR W/V PIPE (BY PLUMBING) SEE PLUMBING DRAWINGS... 3. CONDENSATE DRAIN BY MECHANICAL... 4. SEE HVAC GENERAL NOTES FOR CONDENSATE PIPE MATERIAL.

1 CONDENSATE & WATER HEATER PAN DRAIN RISER SCHEMATIC - NO SCALE

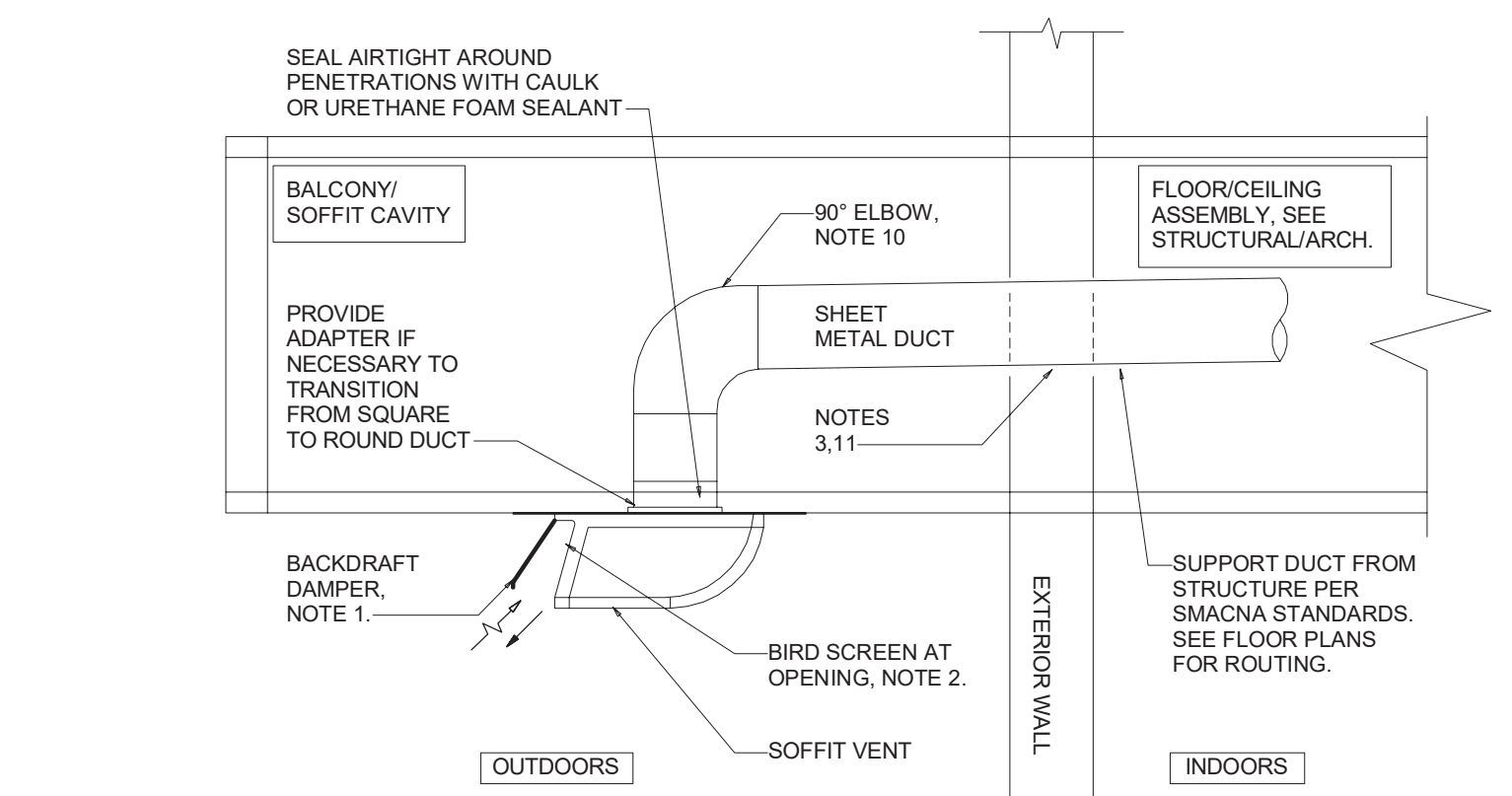


- NOTES: 1. CONDENSATE CANNOT SPILL ON A PAVED SURFACE... 2. COORDINATE WITH THE STRUCTURAL FOUNDATION PLAN AND INSTALL CONDENSATE DRAIN LINE DURING FOUNDATION CONSTRUCTION... 3. COORDINATE LOCATION OF EACH DRY WELL WITH ARCHITECTURAL ENGINEER.

3 DRYWELL & CONDENSATE DRAIN DETAIL SCHEMATIC - NO SCALE



4 WALL LOUVER DETAIL SCHEMATIC - NO SCALE



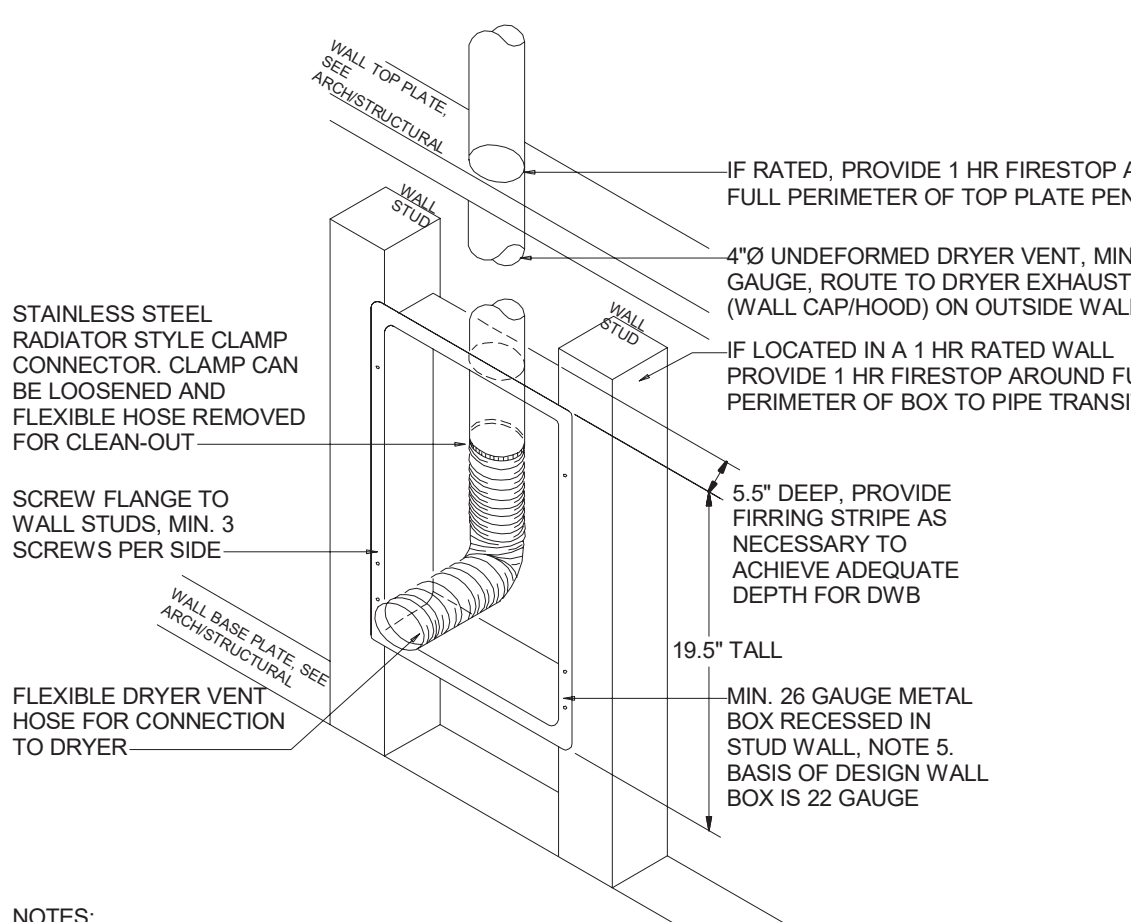
- NOTES: 1. PROVIDE BACKDRAFT DAMPER ON EXHAUST VENTS ONLY... 2. PROVIDE INTEGRAL BIRDSCREEN ON OA INTAKE VENTS... 3. PROVIDE FIRESTOPPING AROUND DUCTWORK... 4. SEAL DUCTS AIR TIGHT AT DAMPER CONNECTIONS...

5 SOFFIT VENT DETAIL SCHEMATIC - NO SCALE

RISK OF FIRE THE NET EQUIVALENT LENGTH OF DRYER DUCT FROM THIS LOCATION IS FEET. THE MAXIMUM ALLOWABLE EXHAUST DUCT LENGTH STATED IN THE CLOTHES DRYER'S INSTALLATION INSTRUCTIONS SHALL BE EQUAL TO OR GREATER THAN THE POSTED EQUIVALENT LENGTH INDICATED ON THIS PLACARD.

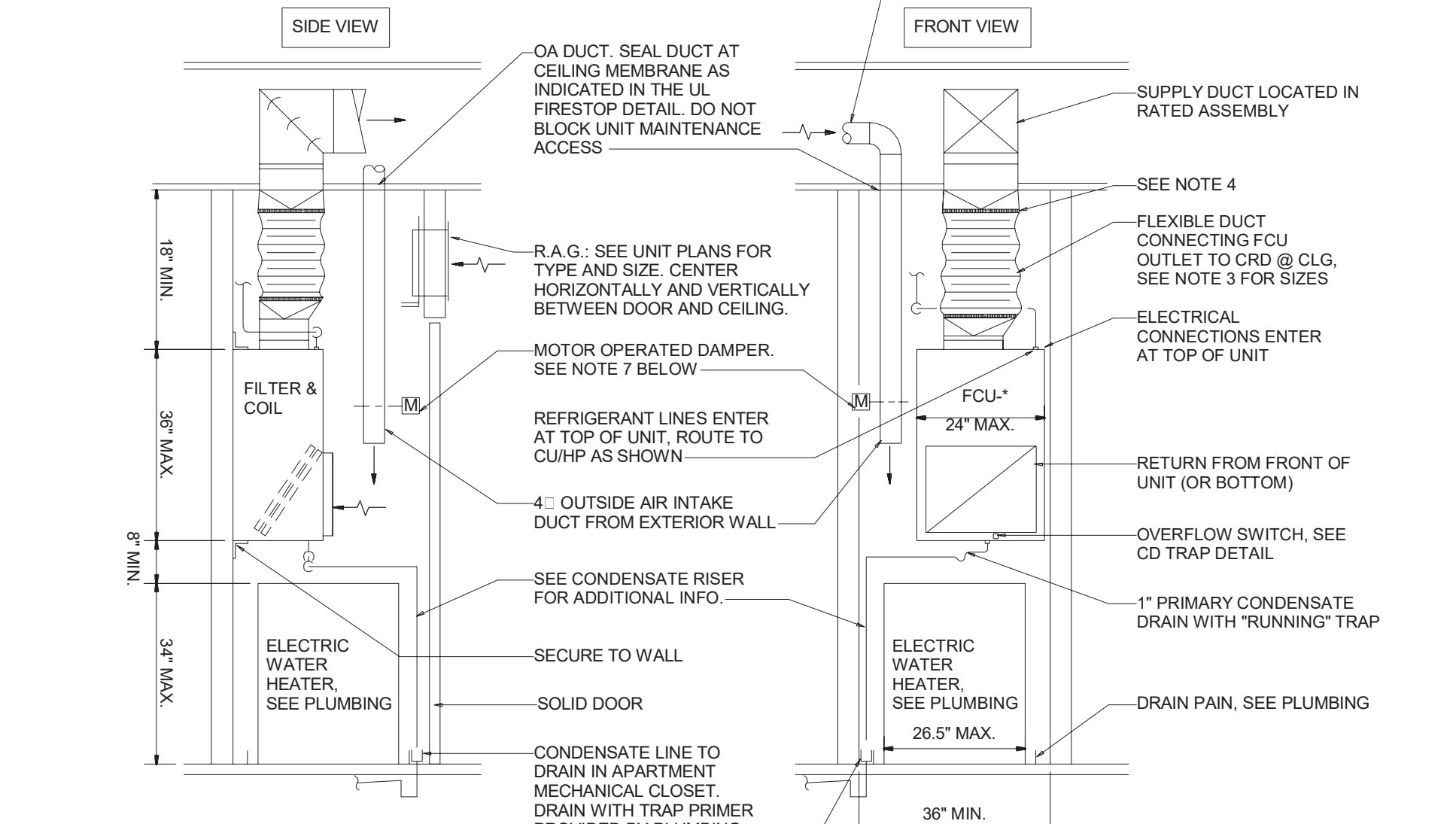
- NOTES: 1. DRYER BOX SHALL NOT BE LOCATED IN A DEMISING WALL... 2. DRYER BOXES LOCATED IN 1 HR FIRE RATED WALLS SHALL BE UL RATED TO BE INSTALLED IN A 1 HR RATED WALL... 3. DRYER BOX SHALL BE PREFABRICATED AND MADE STEEL...

6 DRYER VENT WARNING LABEL SCHEMATIC - NO SCALE



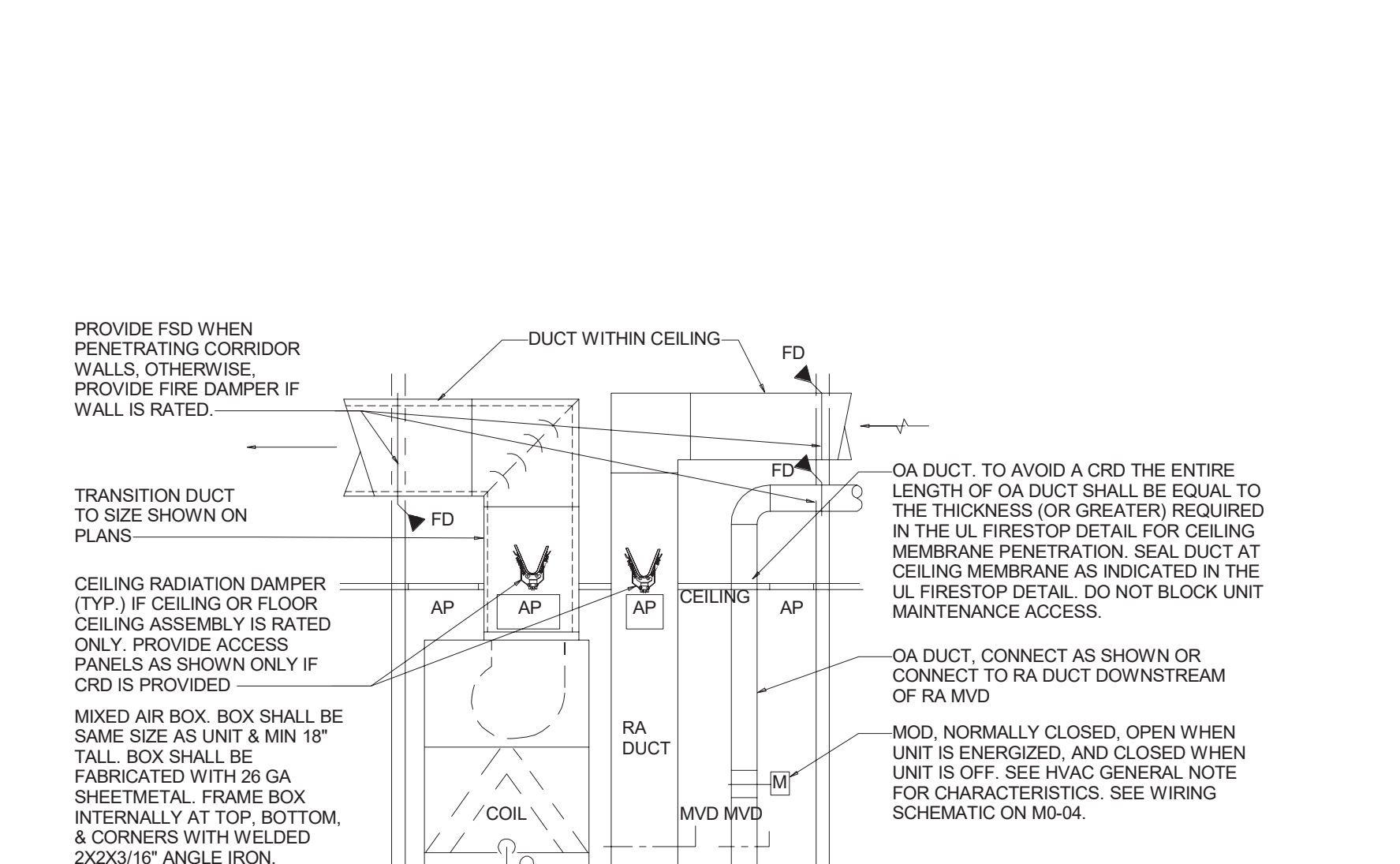
- NOTES: 1. DRYER BOX SHALL NOT BE LOCATED IN A DEMISING WALL... 2. DRYER BOXES LOCATED IN 1 HR FIRE RATED WALLS SHALL BE UL RATED TO BE INSTALLED IN A 1 HR RATED WALL... 3. DRYER BOX SHALL BE PREFABRICATED AND MADE STEEL...

7 DRYER WALL BOX DETAIL SCHEMATIC - NO SCALE



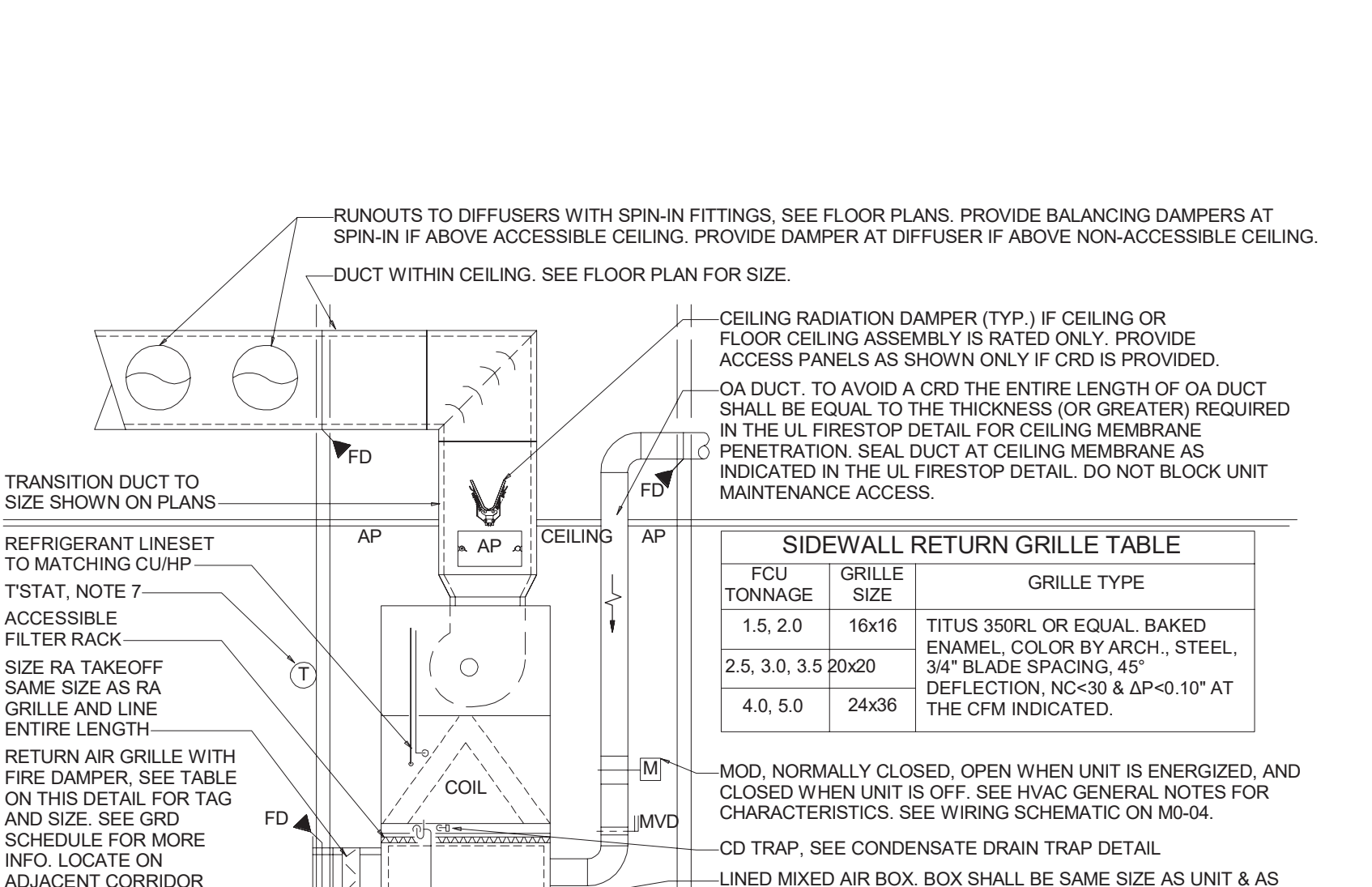
- NOTES: 1. APARTMENT CEILINGS ARE NOT RATED... 2. ALL COMPONENTS MATERIALS (INCLUDING CONTROL WIRING) IN CLOSET SHALL BE FLEAME RATED... 3. FCU & RTU: OVERFLOW SWITCH LOCATED IN DRAIN PAN FOR APARTMENT FCU'S...

9 APARTMENT FCU DETAIL - SOLID DOOR SCHEMATIC - NO SCALE



- NOTES: 1. DUCT CONFIGURATION SHOWN IS GENERAL... 2. IF RADIUS ELBOW CANNOT BE USED THEN PROVIDE RECTANGULAR ELBOW WITH TURNING VANES... 3. LINE SUPPLY DUCT FIRST 10 FEET FROM UNIT...

10 FCU DETAIL - COMMON AREA WITH CEILING RETURN SCHEMATIC - NO SCALE



- NOTES: 1. DUCT CONFIGURATION SHOWN IS GENERAL... 2. PROVIDE RECTANGULAR SUPPLY AIR ELBOW WITH TURNING VANES... 3. LINE SUPPLY DUCT FIRST 10 FEET FROM UNIT...

11 FCU DETAIL - COMMON AREA WITH SIDEWALL RETURN SCHEMATIC - NO SCALE

GFD40ESCMWW GE® 7.0 Cu. Ft. Capacity Frontload Dryer DRYER EXHAUSTING INFORMATION - METAL DUCT ONLY. Best performance table with columns for duct length, diameter, and number of elbows.

- 1. DRYERS ARE PROVIDED BY OWNER AT TIME OF DESIGN... 2. PROVIDE THE PERMIT OFFICIAL WITH A COPY OF THE MANUFACTURER'S INSTALLATION INSTRUCTIONS... 3. SEE DOMESTIC DRYER EXHAUST NOTES ON M-11 FOR ADDITIONAL REQUIREMENTS...

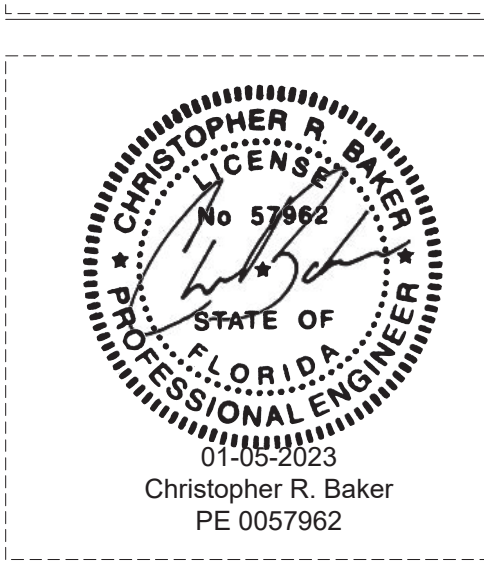
8 OWNER PROVIDED DRYER EXHAUST DATA SCHEMATIC - NO SCALE

NOTE: THIS PROJECT CONTAINS MULTIPLE BUILDINGS, BUT EACH BUILDING IS REQUIRED TO BE PERMITTED SEPARATELY. THIS SHEET INCLUDES DETAILS ASSOCIATED WITH ALL BUILDINGS, SO SOME MAY NOT BE APPLICABLE TO EACH BUILDING.

QDE GROUP, INC. 1850 NORTON BLVD. SARASOTA, FL 34234. 941.551.5996. www.qdegroup.com



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SR-82

7780 LIGHTARD KNOTT LN FORT MYERS, FL 33905

PROJECT NO: 220035.00

MECHANICAL DETAILS

SHEET NUMBER: RM.02

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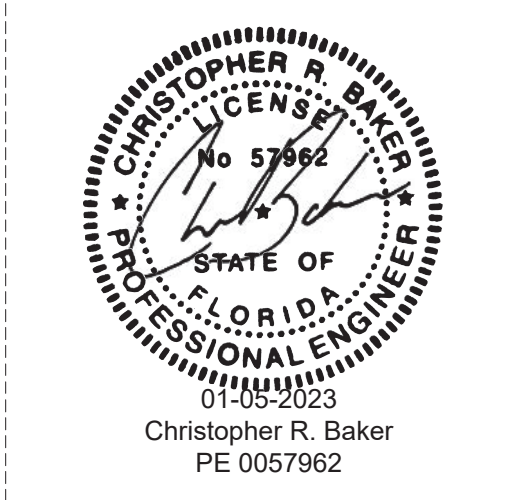
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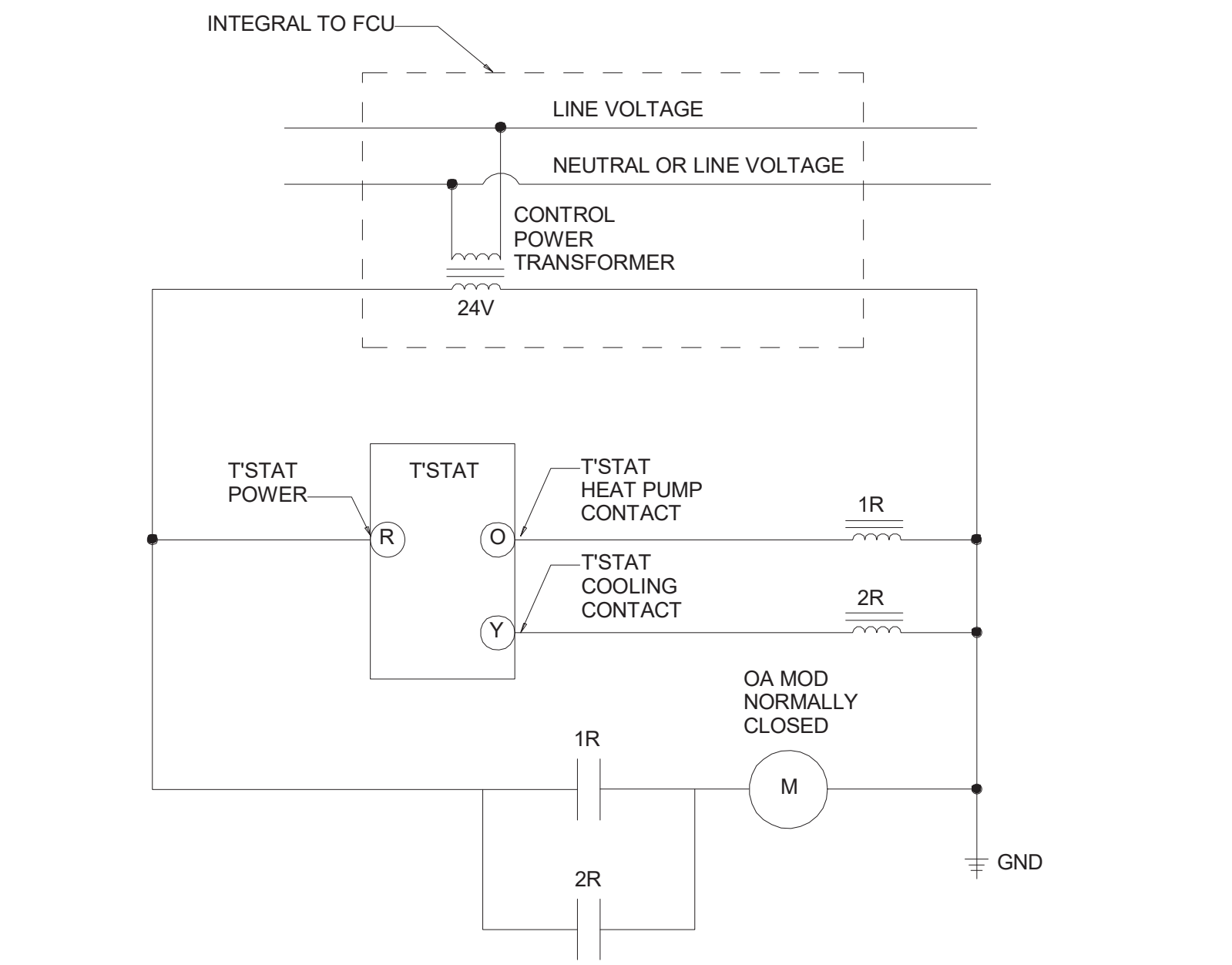
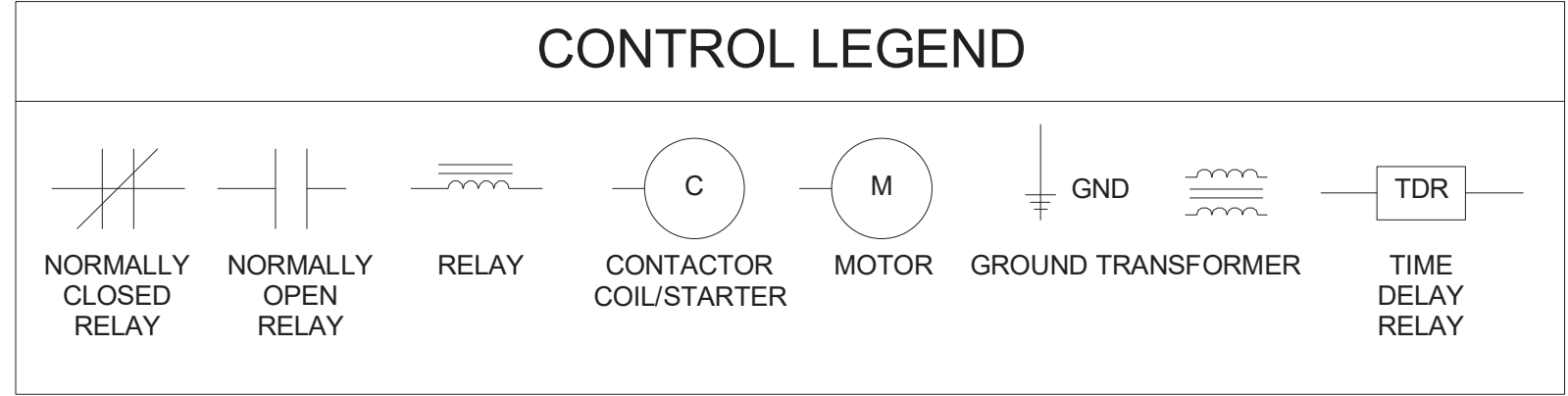
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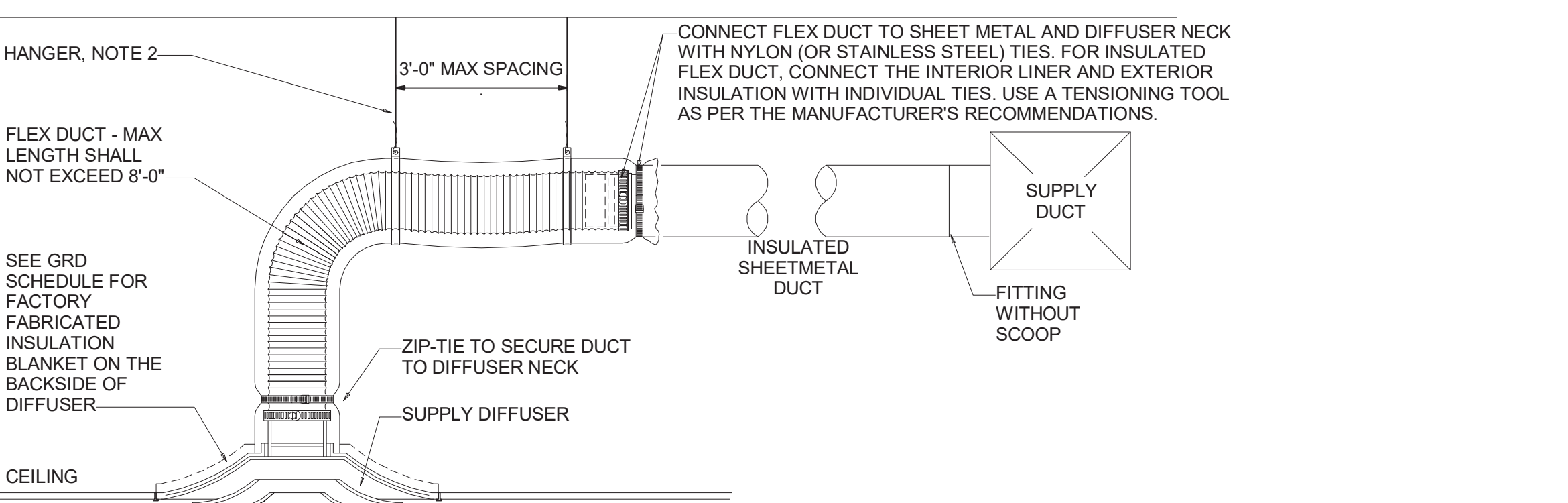
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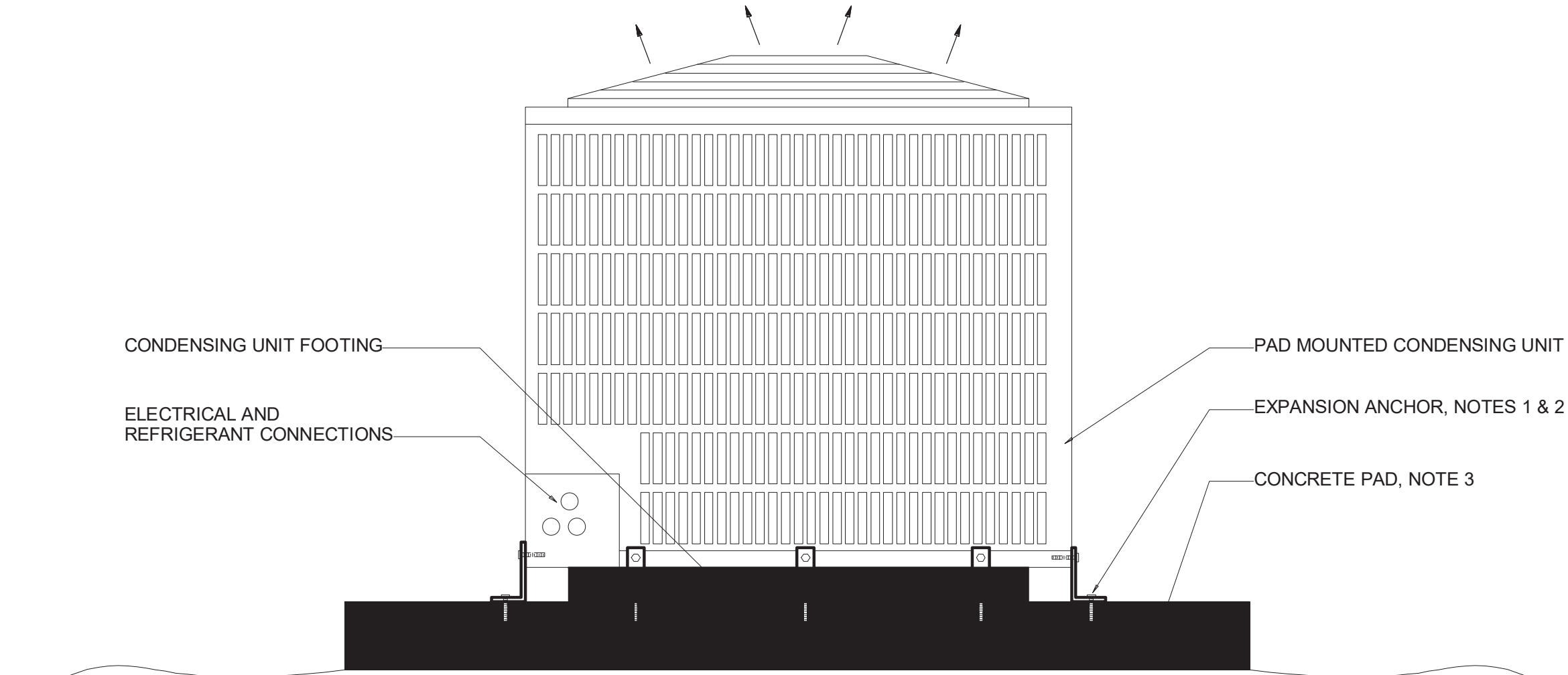
SEQUENCE OF OPERATION: 1. UPON CALL A T'STAT CALL FOR COOLING, RELAY 1R SHALL CLOSE AND ENERGIZE OAD. 2. UPON CALL A T'STAT CALL FOR HEATING (COMPRESSOR), RELAY 2R SHALL CLOSE AND ENERGIZE OA MOD. 3. OA MOD SHALL NOT BE ENERGIZED BY T'STAT "FAN ON" OR "FAN CONTINUOUS" MODE. ONLY ENERGIZE WHEN COMPRESSOR IS OPERATING. NOTES: 1. CONTRACTOR SHALL RECOGNIZE THAT COMPONENTS ARE LOCATED SUCH THAT VOLTAGE DROP MAY BE AN ISSUE. SIZE WIRE TO MINIMIZE VOLTAGE DROP TO BE WITHIN ACCEPTABLE ALLOWANCES. 2. T'STAT IS SPECIFIED IN SPLIT SYSTEM SCHEDULE ACCESSORIES. 3. ALL COMPONENTS EXCEPT T'STAT SHALL BE LOCATED IN FCU CLOSET AND SHALL BE PLENUM RATED. 4. OA MOD SHALL BE FAIL CLOSED/NORMALLY CLOSED TYPE, SPRING RETURN. 5. WITH A STRAIGHT ELECTRIC HEAT SPLIT SYSTEM (I.E. NOT A HEAT PUMP) THE T'STAT HEATING CONTACT SHALL ENERGIZE RELAY 1R. 6. CONTRACTOR SHALL WIRE ONE FCU AND VERIFY IT WORKS PROPERLY BEFORE PROCEEDING WITH OTHER UNITS. CONTACT ENGINEER IF PROBLEMS DEVELOP.

1 CONTROL SCHEMATIC - FCU OA MOD SCHEMATIC - NO SCALE



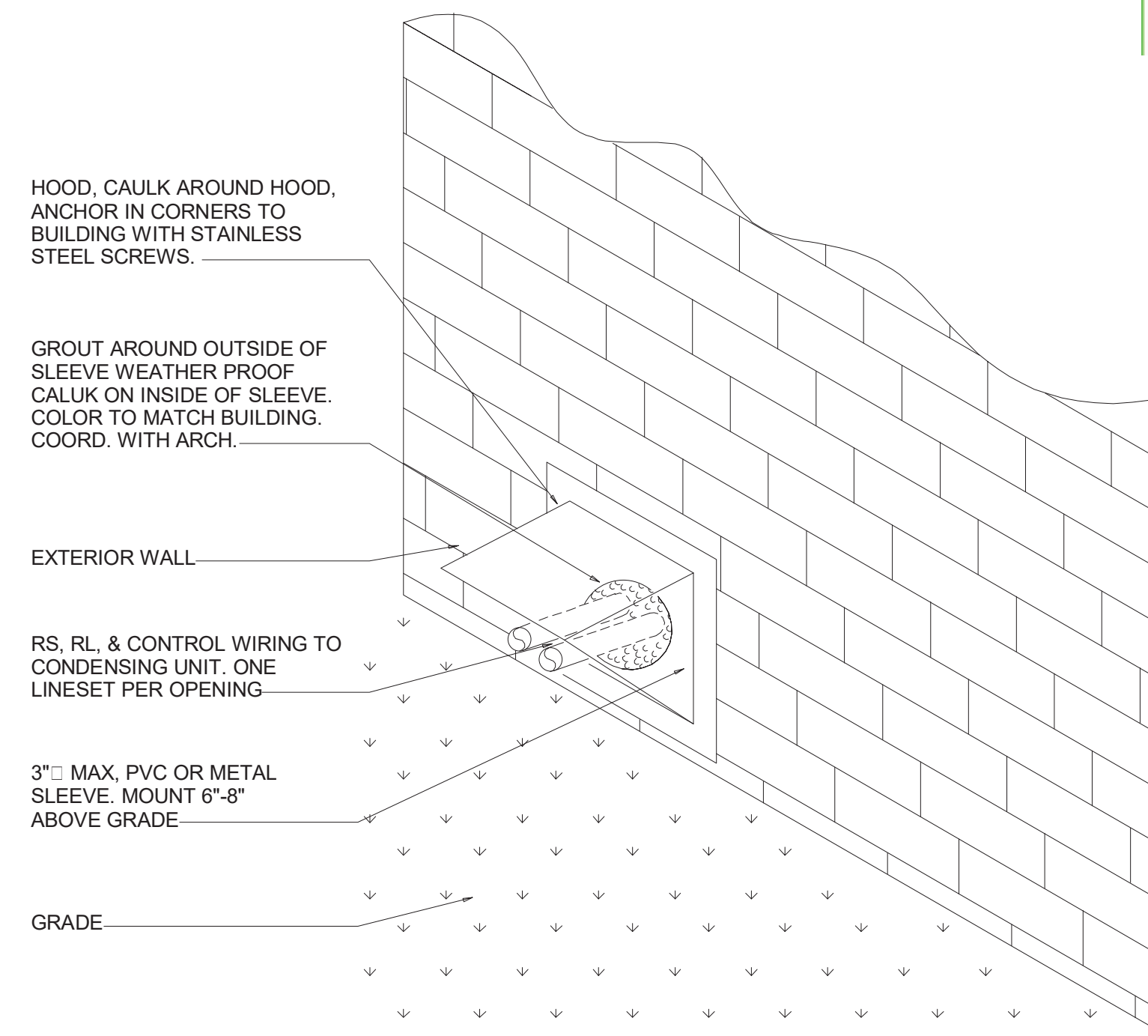
NOTE: 1. PROVIDE MVD AT DIFFUSER UNLESS NOTED OTHERWISE. MVD MAY BE PROVIDED AT BRANCH DUCT TAKEOFF INSTEAD OF AT DIFFUSER ONLY IF LOCATED ABOVE ACCESSIBLE LAY-IN CEILING. 2. REFER TO TABLE 4-2 (MINIMUM HANGER SIZE FOR ROUND DUCT) IN SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS METAL AND FLEXIBLE - SECOND EDITION" FOR STRAP OR ROD SIZE AND SPACING.

2 SUPPLY DUCT TAKE-OFF (COMMON AREAS) DETAIL SCHEMATIC - NO SCALE

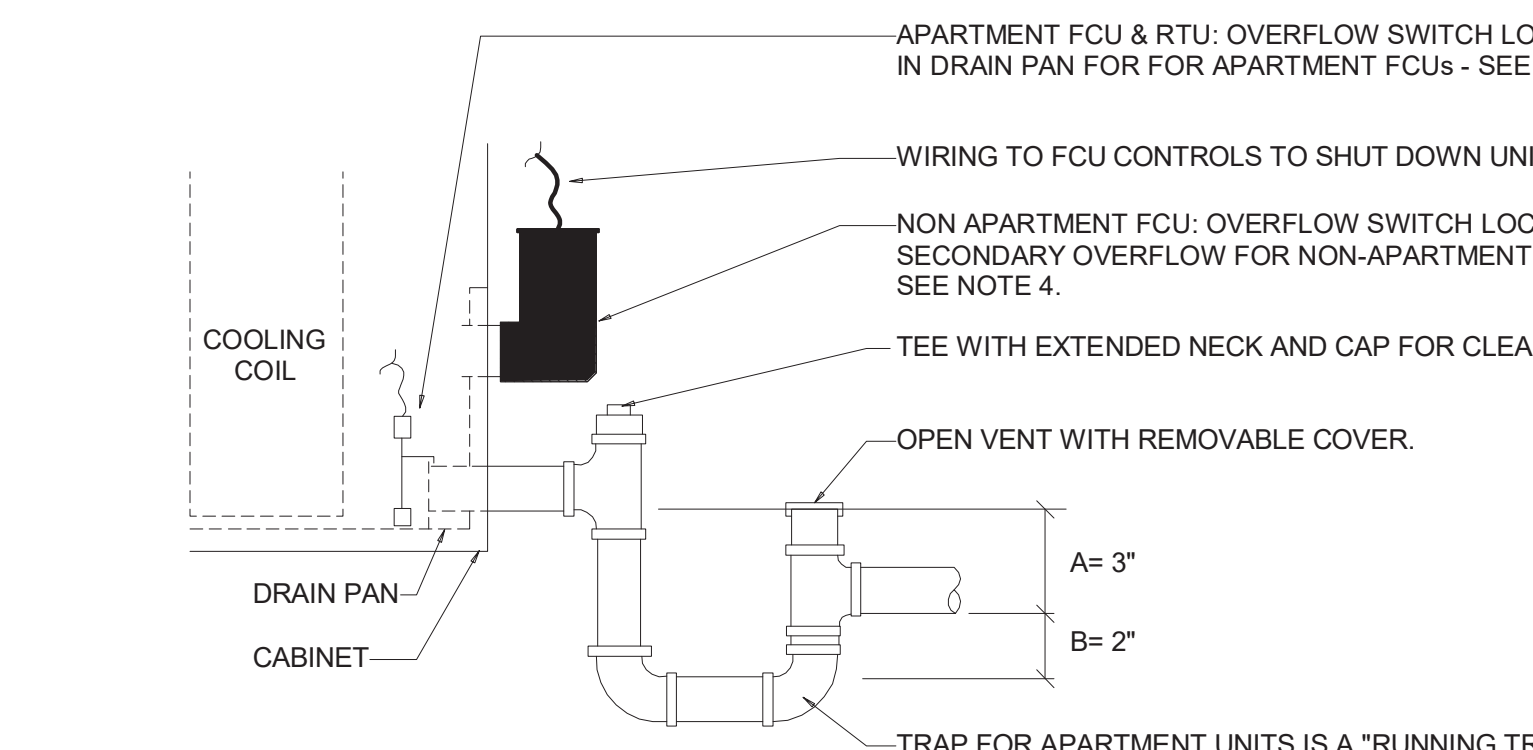


NOTES: 1. GROUND MOUNTED UNITS SHALL BE ANCHORED WITH 1/4" DIAMETER EXPANSION ANCHOR MIN 1.125" MINIMUM EMBED DEPTH, SIMPSON EASY SET PIN DRIVE EXPANSION ANCHOR OR EQUAL. FOR UNITS WITH SIDES BETWEEN 24 AND 36 INCHES, THREE SCREWS SHALL BE USED AT EACH SIDE WITH MIN 4" BETWEEN ANCHORS. FOR UNITS GREATER THAN 36 INCHES OR 5 TONS, CONTACT ENGINEER. 2. ALL COMPONENTS SHALL BE ELECTRO-PLATED FOR CORROSION PROTECTION. PROVIDE A ZINC COATING TO ANY SURFACE SCRATCHED DURING CONSTRUCTION. 3. CONCRETE PAD SHALL BE 4" THICK MIN 3000 PSI STRENGTH AND 6" LARGER THAN UNIT IN ALL DIRECTIONS. PROVIDE REINFORCING WIRE IN CENTER OF PAD. 4. PROVIDE ADEQUATE CLEARANCES FOR CONDENSING UNITS PER MANUFACTURER'S INSTRUCTION. 5. ROUTE REFRIGERANT LINES TO FCUS THROUGH WALL SLEEVE. ROUTE LINESETS WHERE THEY WILL NOT CAUSE A NUISANCE, OBSTRUCTION, OR BE DAMAGED OR DISTURBED BY FOOT OR VEHICULAR TRAFFIC OR WEATHER. SEE GENERAL NOTES FOR ADDITIONAL REQUIREMENTS. 6. SEE GENERAL NOTES REGARDING LABELING OF UNITS. LABEL WITH UNIT (APT/TOWNHOME/CONDO) NUMBER.

4 GRADE MOUNTED CONDENSING UNIT DETAIL SCHEMATIC - NO SCALE



3 REFRIGERANT LINESET THRU EXTERIOR WALL DETAIL SCHEMATIC - NO SCALE



NOTES: 1. THIS DETAIL IS FOR A DRAIN-THRU UNIT. CONTACT ENGINEER FOR A DIFFERENT TRAP CONFIGURATION IF A BLOW-THRU UNIT IS USED. 2. MINIMUM DRAIN FOR UNITS 5 TONS AND LESS SHALL BE 1". DRAINS FOR UNITS GREATER THAN 5 TONS SHALL BE 1.25" UNO. 3. PIPE MATERIAL SHALL BE AS NOTED IN HVAC GENERAL NOTES. 4. FOR COMMON AREA FCUS OR UNITS WITH A DUCTED RETURN & NO EXTERIOR DRAIN PAN: PROVIDE 24V, PLENUM RATED OVERFLOW SHUT OFF FLOAT SWITCH IN SECONDARY DRAIN OUTLET EQUAL TO RECTORSEAL 83417 ALL ACCESS AA2P. INTERLOCK WITH UNIT TO SHUT DOWN UPON DETECTION OF CONDENSATE. 5. FOR APARTMENT FCUS & RTUs: PROVIDE A 24V, PLENUM RATED CLIP-ON TYPE SWITCH EQUAL TO RECTORSEAL SAFE-T-SWITCH SSS50EP IN UNIT DRAIN PAN IN LIEU OF SECONDARY DRAIN OUTLET MOUNTED SWITCH DESCRIBED IN NOTE 4. 6. FOR COMMON AREA FCUS WITH A DUCTED RETURN & WITH AN EXTERIOR DRAIN PAN: PROVIDE A 24V, PLENUM RATED CLIP-ON TYPE SWITCH EQUAL TO RECTORSEAL SAFE-T-SWITCH SSS50EP IN EXTERIOR DRAIN PAN IN LIEU OF SECONDARY DRAIN OUTLET MOUNTED SWITCH DESCRIBED IN NOTE 4 & IN LIEU OF NOTE 5 MOUNTED IN INTERIOR DRAIN PAN.

5 CONDENSATE TRAP WITH FLOAT SWITCH DETAIL SCHEMATIC - NO SCALE



MILHAUS

SR-82

7780 LIGHTARD KNOTT LN FORT MYERS, FL 33905

PROJECT NO: 220035.00

MECHANICAL DETAILS

SHEET NUMBER: CM3.00

