MECHANICAL ABBREVIATIONS

ABBREVIATION	DEFINITION
A/C	ABOVE CEILING
AD	ACCESS DOOR
ADJ	ADJUSTABLE
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
ARCH	ARCHITECT
B/F	BELOW FLOOR
BAS	BUILDING AUTOMATION SYSTEM
BD	BACKDRAFT DAMPER
BEL	BELOW
BOD	BOTTOM OF DUCT
BTUH	BRITISH THERMAL UNIT/HOUR
C	CONVECTOR
CAP	CAPACITY
CD	CEILING DIFFUSER
CF	CUBIC FEET
CFM	CUBIC FEET PER MINUTE
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CLG	CEILING
CO	CLEANOUT
CONC	CONCRETE
CONN	CONNECTION
CONT	CONTINUATION
CP	CONDENSATE PUMP
CWR	CONDENSER WATER RETURN
CWS	CONDENSER WATER SUPPLY
D	CONDENSATE DRAIN
DB	DRY BULB
DDC	DIRECT DIGITAL CONTROLS
DG	DOOR GRILLE
DIA	DIAMETER (Ø)
DIFF	DIFFUSER
DN	DOWN
DWGS	DRAWINGS
EA	EACH
EAT	ENTERING AIR TEMPERATURE
EG	EXHAUST GRILLE
ELEC	ELECTRICAL
ENG	ENGINEER
ER	EXHAUST REGISTER
ESP	EXTERNAL STATIC PRESSURE
ETR	EXISTING TO REMAIN
EWT	ENTERING WATER TEMPERATURE
EXH	EXHAUST
EXTG	EXISTING
FA	FREE AREA
FCU	FAN COIL UNIT
FD	FIRE DAMPER
FLEX	FLEXIBLE
FLR	FLOOR
FOD	FACE OPERATED DAMPER
FPM	FEET PER MINUTE
FSD	FIRE/SMOKE DAMPER
FT	FEET
GAL	GALLON(S)
GC	GENERAL CONTRACTOR
GPM	GALLONS PER MINUTE
GR	GRILLE
HD	HEAD (FT WC)
HP	HORSEPOWER
HR	HOUR
HVAC	HEATING, VENTILATION AND AIR CONDITIONING
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
IN	INCHES
KW	KILOWATT
L&S	LOUVER & SCREEN
LAT	LEAVING AIR TEMPERATURE
LBG	LINEAR BAR GRILLE
LBS.	POUNDS
LD	LINEAR DIFFUSER
LDR	LINEAR DIFFUSER RETURN
LF	LINEAR FEET
LSD	LINEAR SLOT DIFFUSER
LWT	LEAVING WATER TEMPERATURE
MAX	MAXIMUM
MBH	1000 BTU/HOUR
MD	MANUAL DAMPER
MIN	MINIMUM
MOD	MOTOR OPERATED DAMPER
MOV	MOTOR OPERATED VALVE
MTD	MOUNTED
N.C.	NORMALLY CLOSED
N.O.	NORMALLY OPEN
N/A	NOT APPLICABLE
NC	NOISE CRITERIA
NIC	NOT IN CONTRACT
NOM	NOMINAL
NPSHA	NET POSITIVE SUCTION HEAD AVAIL
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OBD	OPPOSED BLADE DAMPER
OC	ON CENTERS
OPNG	OPENING
PH	ELECTRICAL PHASE
PIU	POWERED INDUCTION UNIT
PLBG	PLUMBING
PRV	PRESSURE REDUCING VALVE
PSIA	POUNDS PER SQ. IN. ABSOLUTE
PSIG	POUNDS PER AQ. IN. GAUGE
R	REFRIGERANT PIPING
R/H	RELATIVE HUMIDITY
RA	RETURN AIR
RD	ROUND DIFFUSER
REG	REGISTER
RG	RETURN AIR GRILLE
RL	REFRIGERANT LIQUID
RPM	ROTATIONS PER MINUTE
RR	RETURN AIR REGISTER
RS	REFRIGERANT SUCTION
SA	SUPPLY AIR
SD	SMOKE DETECTOR
SF	SQUARE FEET
SG	SUPPLY GRILLE
SP	STATIC PRESSURE (IN. W.G.)
SPEC	SPECIFICATION
SQ	SQUARE
SR	SUPPLY REGISTER
SS	STAINLESS STEEL
STR	STRUCTURAL
TAB	TEST AND BALANCE
TE	TOILET EXHAUST
TG	TRANSFER GRILLE
THRU	THROUGH
TOD	TOP OF DUCT
TRANS	TRANSITION
TSTAT	THERMOSTAT
TYP	TYPICAL
UC	UNDERCUT
UH	UNIT HEATER
UNO	UNLESS NOTED OTHERWISE
VAV	VARIABLE AIR VOLUME
VEL	VELOCITY
W/	WITH
W/O	WITHOUT
WB	WET BULB
WC	WATER COLUMN
WG	WATER GUAGE
°F	DEGREES FAHRENHEIT
ΔP	PRESSURE DROP

NOTE: THESE ARE STANDARD ABBREVIATIONS. ALL ITEMS MAY NOT APPEAR ON DRAWINGS.

DUCTWORK SYMBOLS

SYMBOL	DESCRIPTION
	SUPPLY, VENTILATION, OUTSIDE AIR DUCTWORK SECTION
	RETURN OR TRANSFER AIR DUCTWORK SECTION
	EXHAUST OR RELIEF AIR DUCTWORK SECTION
	EXISTING DUCTWORK
	EXISTING DUCTWORK TO BE DEMOLISHED
	NEW DUCTWORK
	LINED DUCTWORK
	DUCTWORK END CAP
24"x24"	RECTANGULAR DUCTWORK DIMENSIONS
24"Ø	ROUND DUCTWORK DIMENSIONS
24"/24" FO	OVAL DUCTWORK DIMENSIONS
	SUPPLY DIFFUSER
	RETURN DIFFUSER
	EXHAUST DIFFUSER
	FLEXIBLE DUCT
	MITERED ELBOW (W/ TURNING VANES)
	RADIUS ELBOW
T	THERMOSTAT
H	HUMIDISTAT
S	SENSOR
MD	MANUAL / VOLUME DAMPER
BDD	BACKDRAFT DAMPER
M	MOTORIZED DAMPER
FD	FIRE DAMPER
FSD	MOTOR OPERATED FIRE SMOKE DAMPER
SD	SMOKE DAMPER
SD	DUCT SMOKE DETECTOR
10"Ø CD 200	AIR DISTRIBUTION TAG; SIZE, DEVICE TYPE, CFM

NOTE: THIS IS A STANDARD LEGEND. ALL ITEMS MAY NOT APPEAR ON DRAWINGS.

PIPING SYMBOLS

SYMBOL	DESCRIPTION
1" D	PIPE SIZE AND SYSTEM (SEE ABBREVIATIONS FOR SYSTEM TYPES)
1" D	PIPE SIZE AND SYSTEM (SEE ABBREVIATIONS FOR SYSTEM TYPES)
D	CONDENSATE DRAIN
CWS	CONDENSER WATER SUPPLY
CWR	CONDENSER WATER RETURN
CHWS	CHILLED WATER SUPPLY
CHWR	CHILLED WATER RETURN
R	REFRIGERANT LINE
	GATE VALVE
	BALL VALVE
	BUTTERFLY VALVE
	CHECK VALVE
	PRESSURE REDUCING VALVE (PRV)
	STRAINER
	2-WAY CONTROL VALVE
	3-WAY CONTROL VALVE
	GAUGE COCK
	PIPE TURNING UP
	PIPE TURNING DOWN
	PIPE CONNECTION AT BOTTOM OF MAIN
	PIPE CAP
	PIPE UNION
	PIPE FLANGE
	PETES PLUG
	THERMOMETER
	PRESSURE GAUGE
	PUMP
	EXISTING PIPING
	NEW PIPING
	PIPING TO BE DEMOLISHED

NOTE: THIS IS A STANDARD LEGEND. ALL ITEMS MAY NOT APPEAR ON DRAWINGS.

GENERAL SYMBOLS

- CONNECT TO EXISTING (N)
- NORTH ARROW
- DRAWING REVISION TAG (1)
- KEYED NOTE (1)
- PLAN OR DETAIL NUMBER (1) / SHEET NUMBER (S-1)

SHEET LIST

COM*check* Software Version COMcheckWeb

Mechanical Compliance Certificate

Project Information

Energy Code: 90.1 (2019) Standard
Project Title: Waterford Ph2 MC-AL
Location: Juno Beach, Florida
Climate Zone: 1a
Project Type: New Construction

Construction Site:
601 Universe Blvd.
Juno Beach, Florida 33408

Designer/Contractor:
Jake Hooper
Salas O'Brien
3200 Windy Hill Rd. SE, Suite 200E
Atlanta, Georgia 30339
4048815300
Jake.Hooper@salasobrien.com

Mechanical Systems List

Quantity — System Type & Description

1 DOAS-1 (Multiple-Zone):
Heating: 1 each - Central Furnace, Electric, Capacity = 102 kBtu/h
No minimum efficiency requirement applies
Cooling: 1 each - Single Package DX Unit, Capacity = 254 kBtu/h, Air-Cooled Condenser
Proposed Efficiency = 11.00 EER, Required Efficiency = 10.00 EER
Proposed Part Load Efficiency = 20.40 IEER, Required Part Load Efficiency = 13.20 IEER
Fan System: DOAS-1 -- Compliance (Motor nameplate HP and fan efficiency method) : Passes

Fans:
FAN 1 Supply, Constant Volume, 2600 CFM, 3.0 motor nameplate hp, 0.00 fan energy index , fan exception: Fan array <= 5 total HP or <= 4.1 kW

1 DOAS-2 (Multiple-Zone):
Heating: 1 each - Central Furnace, Electric, Capacity = 102 kBtu/h
No minimum efficiency requirement applies
Cooling: 1 each - Single Package DX Unit, Capacity = 292 kBtu/h, Air-Cooled Condenser
Proposed Efficiency = 10.50 EER, Required Efficiency = 10.00 EER
Proposed Part Load Efficiency = 18.30 IEER, Required Part Load Efficiency = 13.20 IEER
Fan System: DOAS-2 -- Compliance (Motor nameplate HP and fan efficiency method) : Passes

Fans:
FAN 2 Supply, Constant Volume, 3100 CFM, 3.0 motor nameplate hp, 0.00 fan energy index , fan exception: Fan array <= 5 total HP or <= 4.1 kW

2 RTU-1 (Single Zone):
Heating: 1 each - Central Furnace, Electric, Capacity = 25 kBtu/h
No minimum efficiency requirement applies
Cooling: 1 each - Single Package DX Unit, Capacity = 35 kBtu/h, Air-Cooled Condenser, No Economizer, Economizer exception: Low Capacity Residential
Proposed Efficiency = 14.00 SEER2, Required Efficiency = 13.40 SEER2
Proposed Part Load Efficiency = 18.00 , Required Part Load Efficiency = 0.00
Fan System: RTU-A & B -- Compliance (Motor nameplate HP and fan efficiency method) : Passes

Fans:
FAN 3 Supply, Constant Volume, 1160 CFM, 0.8 motor nameplate hp, 0.00 fan energy index , fan exception: Fan array <= 5 total HP or <= 4.1 kW

2 FCU-1-1 & FCU-2-3 (Single Zone):
Heating: 1 each - Central Furnace, Electric, Capacity = 20 kBtu/h
No minimum efficiency requirement applies

Quantity — System Type & Description

Cooling: 1 each - Split System, Capacity = 23 kBtu/h, Air-Cooled Condenser
Proposed Efficiency = 15.20 SEER2, Required Efficiency = 13.40 SEER2
Proposed Part Load Efficiency = 0.00 , Required Part Load Efficiency = 0.00
Fan System: FCU-1-1 -- Compliance (Motor nameplate HP and fan efficiency method) : Passes

Fans:
FAN 4 Supply, Constant Volume, 800 CFM, 0.8 motor nameplate hp, 0.00 fan energy index , fan exception: Single fan < 1 HP or < 0.89 kW

2 FCU-1-3 & FCU-3-3 (Single Zone):
Heating: 1 each - Central Furnace, Electric, Capacity = 27 kBtu/h
No minimum efficiency requirement applies
Cooling: 1 each - Split System, Capacity = 27 kBtu/h, Air-Cooled Condenser
Proposed Efficiency = 15.20 SEER2, Required Efficiency = 13.40 SEER2
Proposed Part Load Efficiency = 0.00 , Required Part Load Efficiency = 0.00
Fan System: FCU-1-3 -- Compliance (Motor nameplate HP and fan efficiency method) : Passes

Fans:
FAN 5 Supply, Constant Volume, 100 CFM, 0.8 motor nameplate hp, 0.00 fan energy index , fan exception: Single fan < 1 HP or < 0.89 kW

1 FCU-1-2 (Single Zone):
Heating: 1 each - Central Furnace, Electric, Capacity = 27 kBtu/h
No minimum efficiency requirement applies
Cooling: 1 each - Split System, Capacity = 34 kBtu/h, Air-Cooled Condenser
Proposed Efficiency = 15.20 SEER2, Required Efficiency = 13.40 SEER2
Proposed Part Load Efficiency = 0.00 , Required Part Load Efficiency = 0.00
Fan System: FCU-1-2 -- Compliance (Motor nameplate HP and fan efficiency method) : Passes

Fans:
FAN 6 Supply, Constant Volume, 1200 CFM, 0.8 motor nameplate hp, 0.00 fan energy index , fan exception: Single fan < 1 HP or < 0.89 kW

4 FCU-1-4 & 5, FCU-2-2, FCU-3-1 (Single Zone):
Heating: 1 each - Duct Furnace, Electric, Capacity = 11 kBtu/h
No minimum efficiency requirement applies
Cooling: 1 each - Split System, Capacity = 27 kBtu/h, Air-Cooled Condenser
Proposed Efficiency = 16.50 SEER2, Required Efficiency = 13.40 SEER2
Proposed Part Load Efficiency = 0.00 , Required Part Load Efficiency = 0.00
Fan System: FCU-1-4 -- Compliance (Motor nameplate HP and fan efficiency method) : Passes

Fans:
FAN 7 Supply, Constant Volume, 1000 CFM, 0.8 motor nameplate hp, 0.00 fan energy index , fan exception: Single fan < 1 HP or < 0.89 kW

5 FCU-1-6&7, FCU-2-6&7, FCU-3-4 (Single Zone):
Heating: 1 each - Duct Furnace, Electric, Capacity = 10 kBtu/h
No minimum efficiency requirement applies
Cooling: 1 each - Split System, Capacity = 9 kBtu/h, Air-Cooled Condenser, No Economizer, Economizer exception: Low Capacity Residential
Proposed Efficiency = 16.50 SEER2, Required Efficiency = 13.40 SEER2
Proposed Part Load Efficiency = 0.00 , Required Part Load Efficiency = 0.00
Fan System: FCU-1-6 -- Compliance (Motor nameplate HP and fan efficiency method) : Passes

Fans:
FAN 10 Supply, Constant Volume, 380 CFM, 0.8 motor nameplate hp, 0.00 fan energy index , fan exception: Single fan < 1 HP or < 0.89 kW

2 FCU-2-1 & 5 (Single Zone):
Heating: 1 each - Duct Furnace, Electric, Capacity = 11 kBtu/h
No minimum efficiency requirement applies
Cooling: 1 each - Split System, Capacity = 18 kBtu/h, Air-Cooled Condenser, No Economizer, Economizer exception: Low Capacity Residential
Proposed Efficiency = 16.50 SEER2, Required Efficiency = 13.40 SEER2
Proposed Part Load Efficiency = 0.00 , Required Part Load Efficiency = 0.00
Fan System: FCU-2-1 -- Compliance (Motor nameplate HP and fan efficiency method) : Passes

Fans:
FAN 8 Supply, Constant Volume, 635 CFM, 0.8 motor nameplate hp, 0.00 fan energy index , fan exception: Single fan < 1 HP or < 0.89 kW

Quantity — System Type & Description

1 FCU-2-4 (Single Zone):
Cooling: 1 each - Split System, Capacity = 48 kBtu/h, Air-Cooled Condenser, No Economizer, Economizer exception: Low Capacity Residential
Proposed Efficiency = 16.50 SEER2, Required Efficiency = 13.40 SEER2
Proposed Part Load Efficiency = 0.00 , Required Part Load Efficiency = 0.00
Fan System: FCU-2-4 -- Compliance (Motor nameplate HP and fan efficiency method) : Passes

Fans:
FAN 11 Supply, Constant Volume, 1370 CFM, 0.8 motor nameplate hp, 0.00 fan energy index , fan exception: Single fan < 1 HP or < 0.89 kW

1 FCU-3-2 (Single Zone):
Cooling: 1 each - Split System, Capacity = 24 kBtu/h, Air-Cooled Condenser, No Economizer, Economizer exception: Low Capacity Residential
Proposed Efficiency = 16.50 SEER2, Required Efficiency = 13.40 SEER2
Proposed Part Load Efficiency = 0.00 , Required Part Load Efficiency = 0.00
Fan System: FCU-3-2 -- Compliance (Motor nameplate HP and fan efficiency method) : Passes

Fans:
FAN 12 Supply, Constant Volume, 740 CFM, 0.8 motor nameplate hp, 0.00 fan energy index , fan exception: Single fan < 1 HP or < 0.89 kW

4 DSS (Single Zone):
Cooling: 1 each - Split System, Capacity = 27 kBtu/h, Air-Cooled Condenser
Proposed Efficiency = 21.00 SEER2, Required Efficiency = 13.40 SEER2
Proposed Part Load Efficiency = 0.00 , Required Part Load Efficiency = 0.00
Fan System: FAN SYSTEM 1 -- Compliance (Motor nameplate HP and fan efficiency method) : Passes

Fans:
FAN 9 Supply, Constant Volume, 565 CFM, 0.4 motor nameplate hp, 0.00 fan energy index , fan exception: Single fan < 1 HP or < 0.89 kW

Mechanical Compliance Statement

Compliance Statement: The proposed mechanical design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 90.1 (2019) Standard requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Jake Hooper — Name - Title
Jake Hooper — Signature
12/01/2025 — Date

NO.	DATE	DESCRIPTION
	12/01/25	ISSUED FOR CONSTRUCTION

WATERFORD CAMPUS - ASSISTED LIVING MEMORY CARE BUILDING

601 UNIVERSE BLVD JUNO BEACH , FL 33048

JAKE BENJAMIN SHRATTER — LICENSE — No. 94288 — STATE OF FLORIDA — PROFESSIONAL ENGINEER
Digitally signed by Jake Shratter
Date: 2025.12.02 15:19:59-05'00'

THW DESIGN

2100 RiverEdge Parkway
Suite 900
Atlanta, GA 30328

PH: 770 916 2220
FAX: 770 916 2299

www.thw.com

ISSUED FOR CONSTRUCTION

Project No.: 2021009
Date: 12/01/2025

MECHANICAL GENERAL

M-001

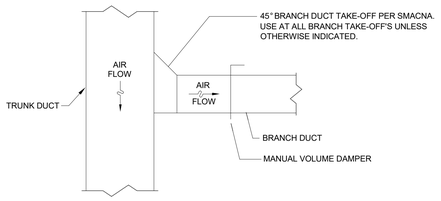
Salas O'Brien

salasobrien.com

Atlanta
3200 Windy Hill Road, SE, Suite 200E
Atlanta, GA 30339

Project Number: 2024-03276

12/2/2025 2:04:08 PM

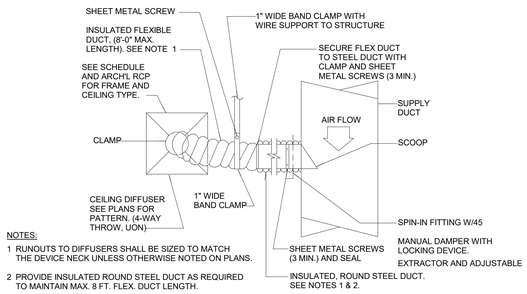


NOTES:

1. REFER TO PLANS FOR DUCT SIZES.

1 M-002 TYPICAL BRANCH DUCT TAKE-OFF DETAIL

NOT TO SCALE



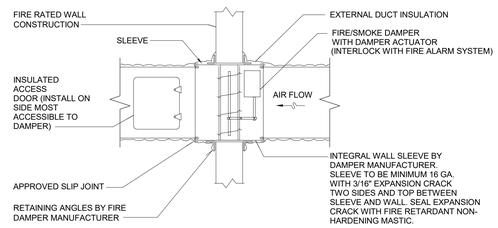
NOTES:

1 RUNOUTS TO DIFFUSERS SHALL BE SIZED TO MATCH THE DEVICE NECK UNLESS OTHERWISE NOTED ON PLANS.

2 PROVIDE INSULATED ROUND STEEL DUCT AS REQUIRED TO MAINTAIN MAX. 8 FT. FLEX. DUCT LENGTH.

2 M-002 TYPICAL BRANCH DUCT TAKE-OFF DETAIL

NOT TO SCALE

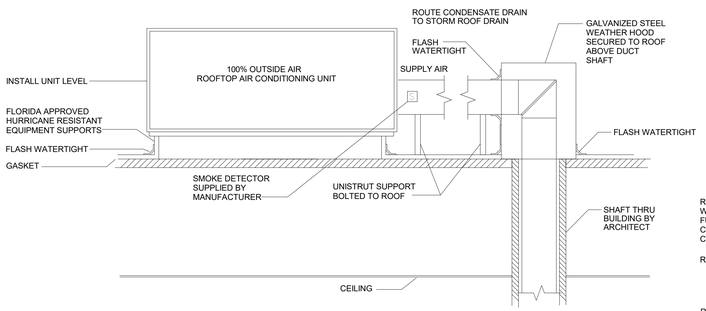


3 M-002 VERTICAL FIRE/SMOKE DAMPER DETAIL

NOT TO SCALE

NOTES:

1. MANUFACTURER'S INSTALLATION INSTRUCTIONS SHALL BE MADE AVAILABLE TO THE INSPECTING AUTHORITY.
2. FIRE/SMOKE DAMPERS SHALL BE RUSKIN SERIES FSD-60 OR EQUAL, EXCEPT WHERE OTHERWISE NOTED. FIRE/SMOKE DAMPERS MUST COMPLY WITH U.L. STANDARD 555 AND 555S AND BE INSTALLED STRICTLY PER MANUFACTURER'S U.L. LISTED PRINTED INSTRUCTIONS. PROVIDE SLEEVE TYPE INSTALLATION AT ALL CONTINUOUS DUCTED WALL PENETRATIONS AND GRILLE INSTALLATION AT ALL SIDEWALL PENETRATIONS.
3. THIS DETAIL IS FOR REFERENCE ONLY. INSTALLATION SHALL BE IN STRICT COMPLIANCE WITH U.L. LISTING AND MANUFACTURERS INSTRUCTIONS.
4. INSTALL ACCESS DOOR(S) AS REQUIRED TO PROVIDE UNIMPEDED ACCESS FOR MAINTENANCE AND INSPECTION OF FSD'S FUSIBLE LINKS AND ACTUATORS. WHERE DAMPER HAS MULTIPLE FUSIBLE LINKAGE ASSEMBLIES, PROVIDE ACCESS TO EACH (DOORS MAY BE COMBINED, AND SIZED ACCORDINGLY, WHERE POSSIBLE).
5. INSTALL FIRE ALARM RELAY AND MOTOR/ACTUATOR ON SAME SIDE OF FIRE/SMOKE DAMPER. PERMANENTLY MARK ROTATING ASSEMBLY (SHAFT) TO INDICATE DAMPER POSITION FROM DEVICE EXTERIOR.
6. DAMPER ACTUATOR SHALL HAVE 120V/1PH POWER CONNECTION UNLESS NOTED OTHERWISE.

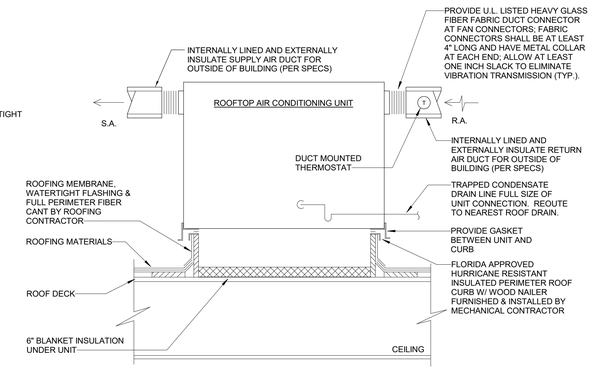


PER FMC 606.4, DUCT SMOKE DETECTORS SHALL SHUT DOWN THE AIR DISTRIBUTION SYSTEM UPON ACTIVATION.

PER FMC 606.4.1, DUCT SMOKE DETECTORS TO BE CONNECTED TO THE BUILDING FIRE ALARM PANEL. IF THE OCCUPANCY DOES NOT REQUIRE A FIRE ALARM PANEL, THE ACTIVATION OF DUCT SMOKE DETECTORS SHALL ACTIVATE AN AUDIBLE AND VISIBLE SIGNAL IN AN APPROVED LOCATION. SIGNAL TO TO BE IDENTIFIED AS "AIR DUCT TROUBLE".

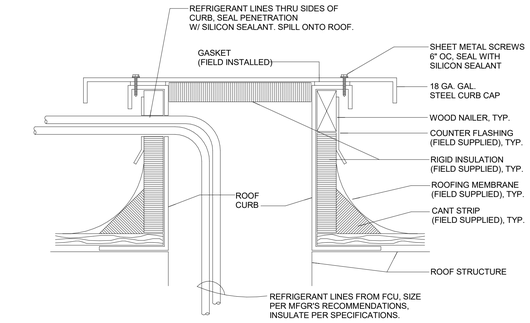
4 M-002 DEDICATED OUTSIDE AIR UNIT DETAIL

NOT TO SCALE



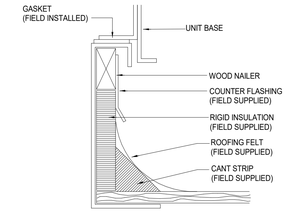
5 M-002 HORIZONTAL FLOW ROOFTOP UNIT DETAIL

NOT TO SCALE



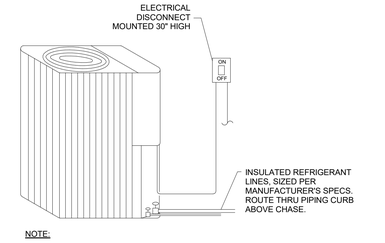
6 M-002 REFRIGERANT PIPING ROOF PENETRATION DETAIL

NOT TO SCALE



7 M-002 CURB SECTION DETAIL

NOT TO SCALE

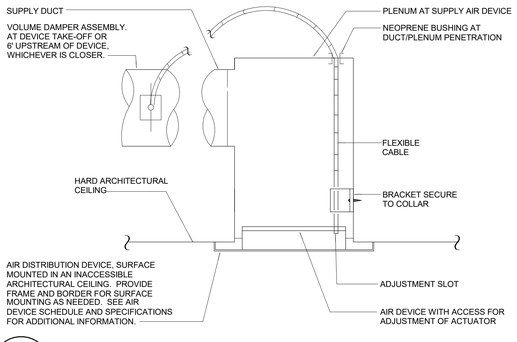


NOTE:

MOUNT UNIT AND DISCONNECT ON FLORIDA APPROVED CONDENSER RACKS BY MIRO INDUSTRIES. COORDINATE WITH STRUCTURAL.

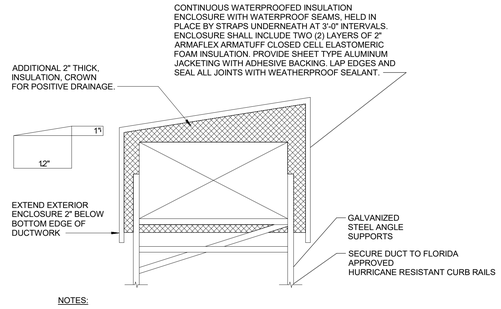
8 M-002 HEAT PUMP/CONDENSING UNIT DETAIL

NOT TO SCALE



9 M-002 REMOTE CABLE-OPERATED DAMPER DETAIL

NOT TO SCALE

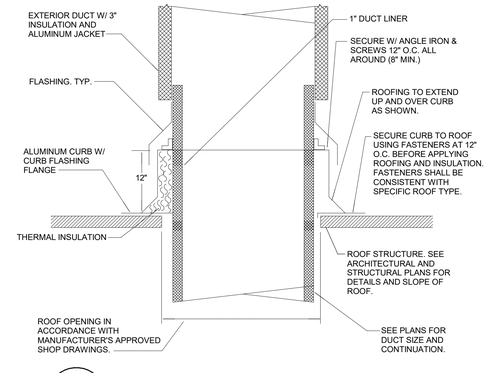


NOTES:

PROVIDE SUPPORTS, SPACED A MAXIMUM OF 6'-0" ON CENTER, FOR ALL EXPOSED SUPPLY, RETURN AND OUTSIDE AIR DUCTWORK EXPOSED TO THE WEATHER. SECURE DUCT SUPPORTS TO CURB WITH ANGLE IRON OR UNISTRUT BOLTED TO EQUIPMENT SUPPORTS. SEE MECHANICAL SPECIFICATIONS FOR ADDITIONAL INFORMATION.

10 M-002 EXPOSED HORIZONTAL DUCT DETAIL

NOT TO SCALE



11 M-002 DUCT THRU ROOF CURB DETAIL

NOT TO SCALE

NO.	DATE	DESCRIPTION
	12/01/25	ISSUED FOR CONSTRUCTION

WATERFORD CAMPUS - ASSISTED LIVING MEMORY CARE BUILDING

601 UNIVERSE BLVD JUNO BEACH , FL 33048

DANIEL BENJAMIN SHORTER LICENSE No. 94288 STATE OF FLORIDA PROFESSIONAL ENGINEER

Digitally signed by Daniel Shorter Date: 2025.12.02 15:59:22-04'00'

THW DESIGN

2100 RiverEdge Parkway
Suite 900
Atlanta, GA 30328

PH: 770 916 2220
FAX: 770 916 2299

www.thw.com

ISSUED FOR CONSTRUCTION

Project No.: 2021009
Date: 12/01/2025

MECHANICAL DETAILS

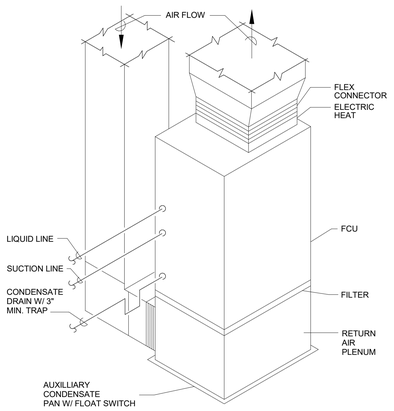
M-002

Salas O'Brien

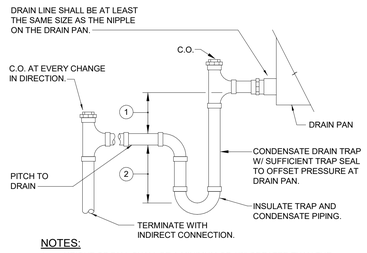
salasobrien.com

Atlanta
3200 Windy Hill Road, SE, Suite 200E
Atlanta, GA 30339

Project Number: 2024-03276

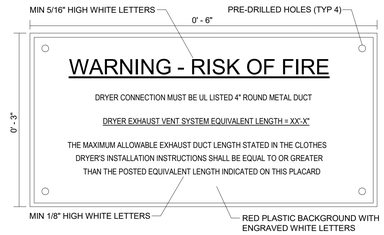


1 M-003 VERTICAL FAN COIL UNIT DETAIL
NOT TO SCALE



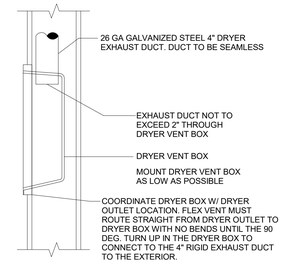
NOTES:
1. HEIGHT OF FALL SHALL BE A MINIMUM OF 1/2" GREATER THAN THE TOTAL STATIC PRESSURE OF THE AIR HANDLING UNIT.
2. HEIGHT OF TRAP SHALL BE A MINIMUM OF 1/2" GREATER THAN THE TOTAL STATIC PRESSURE OF THE AIR HANDLING UNIT BUT NOT LESS THAN 2".

2 M-003 CONDENSATE DRAIN TRAP DETAIL
NOT TO SCALE



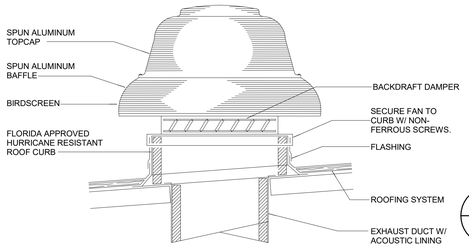
NOTES
1. THE CONTRACTOR SHALL REPLACE THE "XX'-X" FOR EACH PLACARD WITH THE SUM OF THE FIELD-MEASURED DUCT LENGTH AND EQUIVALENT LENGTH FOR EACH FITTING INSTALLED BETWEEN THE DRYER CONNECTION AND THE EXTERIOR VENT CAP.
2. PERMANENTLY AFFIX THE LABEL IN A CONSPICUOUS LOCATION WITHIN SIX (6) LINEAL FEET OF THE EXHAUST CONNECTION.
3. THE LABEL ABOVE IS SHOWN AS A GUIDELINE ONLY. ALTERNATE DESIGNS MAY BE SUBMITTED FOR REVIEW (SUCH AS THOSE MANUFACTURED BY IN-O-VATE TECHNOLOGIES, INC. - www.dryerplacard.com).

3 M-003 DRYER VENT PLACARD DETAIL
NOT TO SCALE

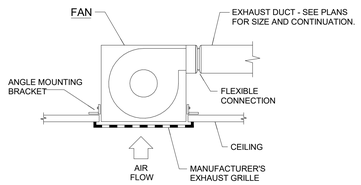


NOTES:
1. INSTALL DRYER VENT BOX PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
2. DRYER VENT BOXES SHALL BE DRYERBOX MODEL 425 (UPWARD EXHAUST) OR EQUAL.

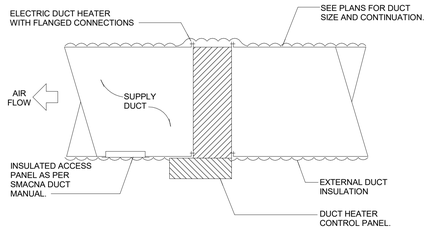
4 M-003 DRYER VENT BOX DETAIL
NOT TO SCALE



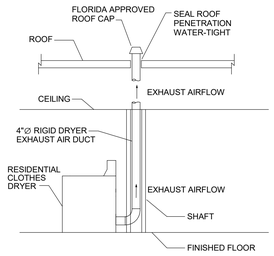
5 M-003 ROOF EXHAUST FAN DETAIL
NOT TO SCALE



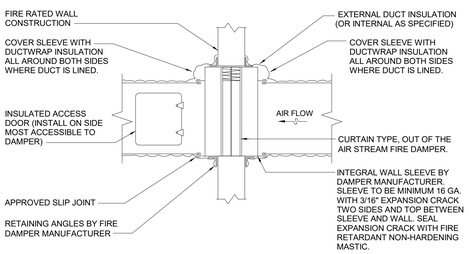
6 M-003 CEILING MOUNTED CABINET FAN DETAIL
NOT TO SCALE



7 M-003 ELECTRIC DUCT HEATER DETAIL
NOT TO SCALE

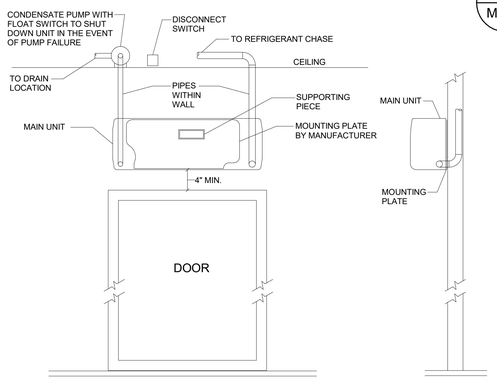


8 M-003 DRYER VENT TO ROOF DETAIL
NOT TO SCALE

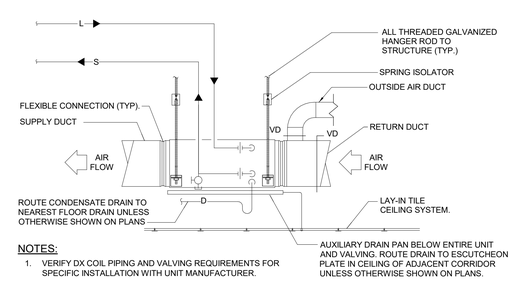


9 M-003 VERTICAL FIRE DAMPER DETAIL
NOT TO SCALE

NOTES:
1. THIS DETAIL IS FOR REFERENCE ONLY. INSTALLATION SHALL BE IN STRICT COMPLIANCE WITH U.L. LISTING AND MANUFACTURER'S INSTRUCTIONS.



10 M-003 DUCTLESS SPLIT SYSTEM DETAIL
NOT TO SCALE



NOTES:
1. VERIFY DX COIL PIPING AND VALVING REQUIREMENTS FOR SPECIFIC INSTALLATION WITH UNIT MANUFACTURER.

11 M-003 TYPICAL HORIZONTAL FAN COIL UNIT DETAIL
NOT TO SCALE

NO.	DATE	DESCRIPTION
	12/01/25	ISSUED FOR CONSTRUCTION

WATERFORD CAMPUS - ASSISTED LIVING MEMORY CARE BUILDING
601 UNIVERSE BLVD JUNO BEACH , FL 33048

DANIEL BENJAMIN SHRATTER
LICENSE
No. 94288
STATE OF FLORIDA
PROFESSIONAL ENGINEER
Digitally signed by Daniel Shratter
Date: 2025.12.02 15:19:25-05'00'

THW DESIGN

2100 RiverEdge Parkway
Suite 900
Atlanta, GA 30328

PH: 770 916 2220
FAX: 770 916 2299

www.thw.com

ISSUED FOR CONSTRUCTION

Project No.: 2021009
Date: 12/01/2025

MECHANICAL DETAILS

M-003

Salas O'Brien
salasobrien.com
Atlanta
3200 Windy Hill Road, SE, Suite 200E
Atlanta, GA 30339

Project Number: 2024-03276

DEDICATED OUTSIDE AIR UNIT SCHEDULE

UNIT TAG	SERVICE	LOCATION	TYPE	OUTDOOR AIR (CFM)	FAN DATA		FAN MOTOR DATA				DX COOLING COIL								HOT GAS REHEAT						ELECTRIC HEAT			POWER CONNECTION		IEER	ISMRE2	WEIGHT (LBS)	SELECTION BASED ON	REMARKS
					CFM	EXTERNAL S.P. (IN. WG.)	RPM	HP	VOLTS	PHASE	TOTAL CAPACITY (MBH)	SENSIBLE CAPACITY (MBH)	AIR SIDE DATA EAT (°F) DB	AIR SIDE DATA EAT (°F) WB	AIR SIDE DATA LAT (°F) DB	AIR SIDE DATA LAT (°F) WB	AMBIENT DB (°F)	COMPRESSOR STAGES	COMPRESSOR QUANTITY	COMPRESSOR REFRIG.	TOTAL CAPACITY (MBH)	AIR SIDE DATA EAT (°F) DB	AIR SIDE DATA EAT (°F) WB	AIR SIDE DATA LAT (°F) DB	AIR SIDE DATA LAT (°F) WB	AIR PRESSURE DROP	SIZE (KW)	STAGES	EDB (°F)	LDB (°F)	VOLTS	PHASE					
DOAS-1	OUTSIDE AIR	ROOF	HORIZONTAL DISCHARGE	2600	2600	1.5	2189	3.0	208	3	254.5	91.9	84.0	79.5	49.3	49.3	84.0	INVERTER	2	31.7lb	58.5	49.3	49.3	70.0	57.6	0.02	30.0	SCR	30.0	64.0	208	3	20.4	10.5	4254	DAIKIN - DPSC20B	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
DOAS-2	OUTSIDE AIR	ROOF	HORIZONTAL DISCHARGE	3100	3100	1.5	2384	3.0	208	3	292.1	104.7	84.0	79.5	50.9	50.9	84.0	INVERTER	2	31.6lb	64.5	50.9	50.9	70.0	58.4	0.03	30.0	SCR	30.0	60.3	208	3	18.3	8.32	4258	DAIKIN - DPSC25B	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19

1. PROVIDE BASIS OF DESIGN OR EQUAL BY TRANE, GREENHECK OR AAON.
2. SEE MECHANICAL SPECIFICATIONS FOR ADDITIONAL INFORMATION.
3. ELECTRICAL CHARACTERISTICS SHALL BE COORDINATED WITH ELECTRICAL CONTRACTOR PRIOR TO PURCHASING AND/OR ORDERING EQUIPMENT.
4. ALL EQUIPMENT SHALL BE PROVIDED WITH MANUFACTURER'S COASTAL APPLICATION PROTECTION KIT/COATINGS.
5. PROVIDE 18-INCH HIGH INSULATED ROOF CURB.
6. INVERTER COMPRESSORS FOR MODULATING CAPACITY AND DISCHARGE AIR TEMPERATURE CONTROL (DIGITAL SCROLL NOT ALLOWED).
7. CONFIGURED FOR HORIZONTAL DISCHARGE.
8. MODULATING HOT GAS REHEAT FOR DEHUMIDIFICATION CONTROL.
9. PROVIDE OUTSIDE AIR DEW-POINT SENSOR.
10. PROVIDE SPACE TEMPERATURE SENSOR FOR SUPPLY AIR TEMPERATURE RESET.
11. DIRECT DRIVE PLENUM SUPPLY WITH VARIABLE SPEED CONTROL.
12. STAINLESS STEEL DRAIN PAN.
13. PROVIDE INTEGRAL DISCONNECT SWITCH.
14. SMOKE DETECTOR FOR THE SUPPLY SHALL BE FACTORY PROVIDED.
15. PROVIDE CONDENSER FANS WITH ENERGY COMMUTATED MOTOR (ECM).
16. PROVIDE 2" MERV-8 PRE-FILTERS AND 4" MERV-14 FILTERS.
17. PROVIDE AND INSTALL TEMPERATURE SENSOR BETWEEN COOLING AND HOT-GAS REHEAT COILS OR MEANS OF COIL TEMPERATURE MEASUREMENT VIA SUCTION PRESSURE SENSING.
18. UNIT IS SELECTED BASED ON ASHRAE 0.4% SUMMER DESIGN TABLE.
19. R-32 A2L REFRIGERANT. UNIT SHALL HAVE ALL INTERNAL SENSING AND CONTROLS PER ASHRAE 15.
20. ON GENERATOR POWER.

PACKAGED ROOFTOP AIR CONDITIONING UNIT SCHEDULE

UNIT TAG	SERVICE	FAN DATA		FAN MOTOR HP	DIRECT EXPANSION COOLING COIL				COMPRESSOR DATA		ELECTRIC HEATING COIL		FILTER EFFICIENCY (%)	SINGLE POINT POWER CONNECTION		SEER2	SELECTION BASED ON	REMARKS
		CFM	EXTERNAL S.P. (IN. W.G.)		TOTAL (MBH)	SENSIBLE (MBH)	EAT (°F) DB	EAT (°F) WB	NO.	NO. OF STAGES	KW	NO. OF STAGES		VOLTS	PHASE			
RTU-1	ELEVATOR	1160	0.8	3/4	35.0	25.9	80	67	1	1	7.5	1	MERV-8	208	3	14.0	DAIKIN - DSC0363W	1 2 3 4 5 6 7 8 9 10 11 12 13

1. PROVIDE BASIS OF DESIGN - DAIKIN.
2. SEE MECHANICAL SPECIFICATIONS FOR ADDITIONAL INFORMATION.
3. ELECTRICAL CHARACTERISTICS SHALL BE COORDINATED WITH ELECTRICAL CONTRACTOR PRIOR TO PURCHASING AND/OR ORDERING EQUIPMENT.
4. ALL EQUIPMENT SHALL BE PROVIDED WITH MANUFACTURER'S COASTAL APPLICATION PROTECTION KIT/COATINGS.
5. PROVIDE 18-INCH HIGH INSULATED ROOF CURB.
6. DIRECT DRIVE PLENUM SUPPLY WITH VARIABLE SPEED CONTROL.
7. STAINLESS STEEL DRAIN PAN.
8. PROVIDE INTEGRAL DISCONNECT SWITCH.
9. PROVIDE POWERED CONVENIENCE OUTLET.
10. R-32 A2L REFRIGERANT.
11. CONFIGURED FOR HORIZONTAL DISCHARGE AND RETURN.
12. PROVIDE 7-DAY DIGITAL, PROGRAMMABLE THERMOSTAT WITH LOCK-OUT CAPABILITY.
13. PROVIDE THRU-BASE ELECTRICAL CONNECTIONS.

COMMON AREA SPLIT SYSTEM HEAT PUMP UNIT SCHEDULE

UNIT TAG	CFM	OA CFM	E.S.P. (IN H2O)	FAN HP (W)	FAN COIL UNIT: D.X. COOLING COIL TOTAL CAPACITY (MBH)	D.X. COOLING COIL SENSIBLE CAPACITY (MBH)	D.X. COOLING COIL EAT (°F) DB	D.X. COOLING COIL EAT (°F) WB	REVERSE CYCLE HEATING CAPACITY (MBH)	REVERSE CYCLE AIR TEMP	V	PH	ELEC. HEATER KIT HEATER (KW) 9	ELEC. HEATER KIT V	ELEC. HEATER KIT PH	SELECTION BASED ON	HEAT PUMP UNIT NUMBER	LOCATION	COND. EAT (°F)	COMPRESSOR NO.	COMPRESSOR NO. OF STAGES	SINGLE POINT POWER CONNECTION VOLTS	SINGLE POINT POWER CONNECTION PHASE	SELECTION BASED ON	SEER2	HSPF2	REMARKS
FCU-1-1	800	260	0.5	3/4	22.9	17.8	75	63	22.0	47	208	1	6.0	208	1	DAIKIN - AMST24BU13	HP-1-1	ROOF	95	1	1	208	1	DAIKIN - DH4SEA2410	15.2	7.8	1 3 4 5 6 7 8 9
FCU-1-2	1200	200	0.5	3/4	33.8	26.0	75	63	35.0	47	208	1	8.0	208	1	DAIKIN - AMST36CU13	HP-1-2	ROOF	95	1	1	208	1	DAIKIN - DH4SEA3610	15.2	7.8	1 3 4 5 6 7 8 9
FCU-1-3	1000	80	0.5	3/4	27.6	22.9	75	63	28.6	47	208	1	8.0	208	1	DAIKIN - AMST30BU13	HP-1-3	ROOF	95	1	1	208	1	DAIKIN - DH4SEA3010	15.2	7.8	1 3 4 5 6 7 8 9
FCU-1-4	1000	50	0.5	(390)	30.0	22.5	75	63	29.2	47	208	1	12	-	-	DAIKIN - FBA30AAVJUA	HP-1-4	ROOF	95	1	1	208	1	DAIKIN - RZA30AAVJU	16.5	8.9	1 2 3 4 5 6 7 8
FCU-1-5	1000	330	0.5	(390)	30.0	22.5	75	63	29.2	47	208	1	12	-	-	DAIKIN - FBA30AAVJUA	HP-1-5	ROOF	95	1	1	208	1	DAIKIN - RZA30AAVJU	16.5	8.9	1 2 3 4 5 6 7 8 10
FCU-1-6	380	11	0.5	(163)	9.0	6.75	75	63	10.9	47	208	1	12	-	-	DAIKIN - FDMA09AVJU9	HP-1-6	ROOF	95	1	1	208	1	DAIKIN - RXP09AVJU9	16.0	9.0	1 2 3 4 5 6 7 8
FCU-1-7	380	11	0.5	(163)	9.0	6.75	75	63	10.9	47	208	1	12	-	-	DAIKIN - FDMA09AVJU9	HP-1-7	ROOF	95	1	1	208	1	DAIKIN - RXP09AVJU9	16.0	9.0	1 2 3 4 5 6 7 8
FCU-2-1	635	210	0.5	(163)	18.0	13.5	75	63	20.0	47	208	1	12	-	-	DAIKIN - FBA18AAVJUA	HP-2-1	ROOF	95	1	1	208	1	DAIKIN - RZA18AAVJU	16.5	8.9	1 2 3 4 5 6 7 8
FCU-2-2	1000	290	0.5	(390)	30.0	22.5	75	63	29.2	47	208	1	12	-	-	DAIKIN - FBA30AAVJUA	HP-2-2	ROOF	95	1	1	208	1	DAIKIN - RZA30AAVJU	16.5	8.9	1 2 3 4 5 6 7 8
FCU-2-3	700	140	0.5	3/4	17.4	14.1	75	63	17.0	47	208	1	6.0	208	1	DAIKIN - AMST24BU13	HP-2-3	ROOF	95	1	1	208	1	DAIKIN - DH4SEA1810	15.2	7.8	1 3 4 5 6 7 8 9
FCU-2-4	1370	120	0.5	(390)	48.0	36.0	75	63	54.0	47	208	1	12	-	-	DAIKIN - FBA48AAVJUA	HP-2-4	ROOF	95	1	1	208	1	DAIKIN - RZA48AAVJU	16.5	8.9	1 2 3 4 5 6 7 8 10
FCU-2-5	635	330	0.5	(163)	18.0	13.5	75	63	20.0	47	208	1	12	-	-	DAIKIN - FBA18AAVJUA	HP-2-5	ROOF	95	1	1	208	1	DAIKIN - RZA18AAVJU	16.5	8.9	1 2 3 4 5 6 7 8 10
FCU-2-6	380	11	0.5	(163)	9.0	6.75	75	63	10.9	47	208	1	12	-	-	DAIKIN - FDMA09AVJU9	HP-2-6	ROOF	95	1	1	208	1	DAIKIN - RXP09AVJU9	16.0	9.0	1 3 4 5 6 7 8
FCU-2-7	380	11	0.5	(163)	9.0	6.75	75	63	10.9	47	208	1	12	-	-	DAIKIN - FDMA09AVJU9	HP-2-7	ROOF	95	1	1	208	1	DAIKIN - RXP09AVJU9	16.0	9.0	1 2 3 4 5 6 7 8
FCU-3-1	1000	210	0.5	(390)	30.0	22.5	75	63	29.2	47	208	1	12	-	-	DAIKIN - FBA30AAVJUA	HP-3-1	ROOF	95	1	1	208	1	DAIKIN - RZA30AAVJU	16.5	8.9	1 2 3 4 5 6 7 8
FCU-3-2	740	11	0.5	(163)	24.0	18.0	75	63	27.0	47	208	1	12	-	-	DAIKIN - FBA24AAVJUA	HP-3-2	ROOF	95	1	1	208	1	DAIKIN - RZA24AAVJU	16.5	8.9	1 2 3 4 5 6 7 8
FCU-3-3	1000	200	0.5	3/4	27.6	22.9	75	63	28.6	47	208	1	8.0	208	1	DAIKIN - AMST30BU13	HP-3-3	ROOF	95	1	1	208	1	DAIKIN - DH4SEA3010	15.2	7.8	1 3 4 5 6 7 8 9
FCU-3-4	380	11	0.5	(163)	9.0	6.75	75	63	10.9	47	208	1	12	-	-	DAIKIN - FDMA09AVJU9	HP-3-4	ROOF	95	1	1	208	1	DAIKIN - RXP09AVJU9	16.0	9.0	1 3 4 5 6 7 8

1. REFRIGERANT LINES TO BE SIZED AND INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
2. PROVIDE 120 VOLT / 1 PHASE CONDENSATE PUMP.
3. HEAT PUMP UNIT FUSED DISCONNECT BY ELECTRICAL CONTRACTOR.
4. PROVIDE LOW AMBIENT COOLING KIT TO 0°F.
5. PROVIDE HAIL GUARDS.
6. PROVIDE 7-DAY PROGRAMMABLE T-STAT WITH LOCK-OUT CONTROLS.
7. PROVIDE MANUFACTURER'S COASTAL APPLICATION KIT/COATINGS.
8. R-32 A2L REFRIGERANT.
9. INDICATED HEATER CAPACITY IS THE OUTPUT AT 208V/1PH..
10. ON GENERATOR POWER.
11. OUTSIDE AIR PROVIDED DIRECTLY TO SPACE BY DOAS UNIT. SEE PLANS FOR AIRFLOWS.
12. UNIT PROVIDED WITH SEPARATE DUCT HEATER. REFER TO ELECTRIC HEATER SCHEDULE.

DWELLING UNIT SPLIT SYSTEM HEAT PUMP UNIT SCHEDULE

UNIT TAG	CFM	OA CFM	E.S.P. (IN H2O)	FAN HP (W)	FAN COIL UNIT: D.X. COOLING COIL TOTAL CAPACITY (MBH)	D.X. COOLING COIL SENSIBLE CAPACITY (MBH)	D.X. COOLING COIL EAT (°F) DB	D.X. COOLING COIL EAT (°F) WB	REVERSE CYCLE HEATING CAPACITY (MBH)	REVERSE CYCLE AIR TEMP	V	PH	SELECTION BASED ON	HEAT PUMP UNIT NUMBER	LOCATION	COND. EAT (°F)	COMPRESSOR NO.	COMPRESSOR NO. OF STAGES	SINGLE POINT POWER CONNECTION VOLTS	SINGLE POINT POWER CONNECTION PHASE	SELECTION BASED ON	SEER2	HSPF2	REMARKS
FCU-A	380	8	0.5	(163)	9.0	6.8	75	63	10.9	47	208	1	DAIKIN - FDMA09AVJU9	HP-A	ROOF	95	1	1	208	1	DAIKIN - RXP09AVJU9	16	9.0	1 2 3 4 5 6 7
FCU-B	470	8	0.5	(163)	14.4	10.8	75	63	18.0	47	208	1	DAIKIN - FDMA15AVJU9	HP-B	ROOF	95	1	1	208	1	DAIKIN - RXP15AVJU9	18	9.2	1 2 3 4 5 6 7
FCU-C	380	8	0.5	(163)	10.8	8.1	75	63	12.5	47	208	1	DAIKIN - FDMA12AVJU9	HP-C	ROOF	95	1	1	208	1	DAIKIN - RXP12AVJU9	16	9.0	1 2 3 4 5 6 7

1. REFRIGERANT LINES TO BE SIZED AND INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
2. HEAT PUMP UNIT FUSED DISCONNECT BY ELECTRICAL CONTRACTOR.
3. PROVIDE HAIL GUARDS.
4. PROVIDE 7-DAY PROGRAMMABLE T-STAT.
5. PROVIDE MANUFACTURER'S COASTAL APPLICATION KIT/COATINGS.
6. R-32 A2L REFRIGERANT.
7. PROVIDE 120 VOLT / 1 PHASE CONDENSATE PUMP.
8. OUTSIDE AIR PROVIDED DIRECTLY TO SPACE BY DOAS UNIT. SEE PLANS FOR AIRFLOWS.

DUCTLESS SPLIT SYSTEM AIR CONDITIONING UNIT SCHEDULE

UNIT TAG	CFM	LOCATION	FAN HP (AMPS)	INDOOR UNIT: D.X. COOLING COIL TOTAL CAPACITY (MBH)	D.X. COOLING COIL SENSIBLE CAPACITY (MBH)	D.X. COOLING COIL EAT (°F) DB	D.X. COOLING COIL EAT (°F) WB	VOLTS	PHASE	SELECTION BASED ON	OUTDOOR UNIT NUMBER	LOCATION	COND EAT (°F)	COMPRESSOR NO.	COMPRESSOR NO. OF STAGES	SINGLE POINT POWER CONNECTION VOLTS	SINGLE POINT POWER CONNECTION PHASE	SELECTION BASED ON	SEER2	REMARKS
DSS-1-1	565	IT [140]	(0.4)	18.0	14.6	80	67	208	1	DAIKIN - FTKF18BVJU9	CU-1-1	ROOF	95	1	1	208	1	DAIKIN - RKF18BVJU9	21.0	1 2 3 4 5 6 7 8
DSS-1-2	565	RISER RM [118]	(0.4)	18.0	14.6	80	67	208	1	DAIKIN - FTKF18BVJU9	CU-1-1	ROOF	95	1	1	208	1	DAIKIN - RKF18BVJU9	21.0	1 2 3 4 5 6 7 8
DSS-2-1	565	IT [229]	(0.4)	18.0	14.6	80	67	208	1	DAIKIN - FTKF18BVJU9	CU-2-1	ROOF	95	1	1	208	1	DAIKIN - RKF18BVJU9	21.0	1 2 3 4 5 6 7 8
DSS-3-1	565	IT [325]	(0.4)	18.0	14.6	80	67	208	1	DAIKIN - FTKF18BVJU9	CU-3-1	ROOF	95	1	1	208	1	DAIKIN - RKF18BVJU9	21.0	1 2 3 4 5 6 7 8

1. REFRIGERANT LINES TO BE SIZED AND INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
2. PROVIDE 120 VOLT / 1 PHASE CONDENSATE PUMP.
3. CONDENSING UNIT FUSED DISCONNECT BY ELECTRICAL CONTRACTOR.
4. PROVIDE LOW AMBIENT COOLING KIT TO 0°F.
5. PROVIDE HAIL GUARDS.
6. PROVIDE 7-DAY PROGRAMMABLE T-STAT WITH LOCK-OUT CONTROLS.
7. PROVIDE MANUFACTURER'S COASTAL APPLICATION KIT/COATINGS.
8. R-32 A2L REFRIGERANT.

AIR DISTRIBUTION DEVICE SCHEDULE

DEVICE TAG	SERVICE	TYPE	FACE SIZE	INLET SIZE	ACCESSORIES/OPTIONS	SELECTION BASED ON	REMARKS
CD	SUPPLY	CEILING DIFFUSER	24"x24"	SEE PLANS	OPPOSED BLADE DAMPER, MODEL AG-75	TITUS OMNI	1 2 3 4
RAG	RETURN	CEILING RETURN	24"x24"	SEE PLANS	---	TITUS 45F	1 2 3
SR	SUPPLY	SUPPLY REGISTER	SEE PLANS	SEE PLANS	OPPOSED BLADE DAMPER, MODEL AG-15	TITUS 272RL	1 2
RAR	RETURN	CEILING/SIDEWALL RETURN	SEE PLANS	SEE PLANS	---	TITUS 350RL	1 2
ER	EXHAUST	EXHAUST REGISTER	SEE PLANS	SEE PLANS	OPPOSED BLADE DAMPER, MODEL AG-15	TITUS 272RL	1 2
LD/LDR	SUPPLY	LINEAR SLOT DIFFUSER	4' LENGTH	SEE PLANS	(2) 1" SLOTS, INSULATED PLENUM, BORDER TO FIT GWB CEILING	TITUS TBDI-10	1 2 4

1. COORDINATE FRAME STYLE OF AIR DEVICE WITH CEILING (OR WALL) SYSTEM INSTALLED.
2. COORDINATE FINISH COLOR WITH INTERIOR DESIGNER AND ARCHITECT.
3. PROVIDE ROUND DIFFUSER NECK. DUCT RUNOUT SHALL BE SAME DIAMETER AS DIFFUSER NECK.
4. PROVIDE WITH "REMOTE CABLE OPERATED DAMPER" SIMILAR TO YOUNG REGULATOR.

FAN SCHEDULE

UNIT TAG	LOCATION	FAN TYPE	CFM	STATIC PRESSURE (IN. W.G.)	FAN RPM	DRIVE	MOTOR DATA (60HZ) HP (W)	MOTOR DATA (60HZ) V	MOTOR DATA (60HZ) PH	SELECTION BASED ON	REMARKS
REF-1	ROOF	CENTRIFUGAL	450	0.4	1300	DIRECT	1/12	115	1	GREENHECK - G-095-G	1 3 4 5
EF-1	UNIT A,B,C - BATH	CEILING	70	0.25	-	DIRECT	(27)	115	1	BROAN - BHFLED80	3 4 5 6
EF-1-1	RR [111]	CEILING	70	0.5	773	DIRECT	(17)	115	1	GREENHECK - SP-LP0511-1	2 3 4 5
EF-1-2	RR [112]	CEILING	70	0.5	773	DIRECT	(17)	115	1	GREENHECK - SP-LP0511-1	2 3 4 5
EF-1-3	RR [124]	CEILING	70	0.5	773	DIRECT	(17)	115	1	GREENHECK - SP-LP0511-1	2 3 4 5
EF-1-4	SPA [141]	CEILING	50	0.4	685	DIRECT	(10)	115	1	GREENHECK - SP-LP0511-1	1 3 4 5
EF-1-5	TRASH [120]	CEILING	50	0.4	685	DIRECT	(10)	115	1	GREENHECK - SP-LP0511-1	1 3 4 5
EF-1-6	O2 STOR [119]	CEILING	50	0.4	685	DIRECT	(10)	115	1	GREENHECK - SP-LP0511-1	1 3 4 5
EF-2-1	RR [203]	CEILING	70	0.5	773	DIRECT	(17)	115	1	GREENHECK - SP-LP0511-1	2 3 4 5
EF-2-2	RR [204]	CEILING	70	0.5	773	DIRECT	(17)	115	1	GREENHECK - SP-LP0511-1	2 3 4 5
EF-2-3	SPA [230]	CEILING	50	0.4	685	DIRECT	(10)	115	1	GREENHECK - SP-LP0511-1	1 3 4 5
EF-2-4	SALON [201]	IN-LINE	350	0.4	1070	DIRECT	(190)	115	1	GREENHECK - CSP-A510	1 3 4 5
EF-3-1	RR [303]	CEILING	70	0.5	773	DIRECT	(17)	115	1	GREENHECK - SP-LP0511-1	2 3 4 5
EF-3-2	RR [304]	CEILING	70	0.5	773	DIRECT	(17)	115	1	GREENHECK - SP-LP0511-1	2 3 4 5

1. FAN TO OPERATE CONTINUOUSLY.
2. FAN TO OPERATE WHEN LIGHT SWITCH IN RESTROOM IS TURNED ON.
3. PROVIDE UNIT MANUFACTURERS FAN SPEED CONTROLLER. FAN SPEED CONTROLLER SHALL BE FACTORY MOUNTED IN MOTOR COMPARTMENT OR FIELD MOUNTED ON FAN.
4. PROVIDE UNIT MANUFACTURERS FAN MOUNTED DISCONNECT SWITCH.
5. PROVIDE BACKDRAFT DAMPER.
6. FAN, HEATER, AND LIGHT SHALL BE SEPARATELY CONTROLLABLE BY INDIVIDUAL WALL MOUNTED SWITCHES.

ELECTRIC HEATER SCHEDULE

UNIT NUMBER	TYPE	LOCATION	CFM	ELECTRIC HEATING COIL KW	ELECTRIC HEATING COIL NO. OF STAGES	ELECTRIC HEATING COIL ELECTRICAL	SELECTION BASED ON	REMARKS
EDH-A	DUCT HEATER	FCU-A	380	3.0	1	208/1	GREENHECK - IDHB	1 2 3 4
EDH-B	DUCT HEATER	FCU-B	470	3.0	1	208/1	GREENHECK - IDHB	1 2 3 4
EDH-C	DUCT HEATER	FCU-C	380	3.0	1	208/1	GREENHECK - IDHB	1 2 3 4
EDH-1-5	DUCT HEATER	FCU-1-5	1000	3.5	1	208/1	GREENHECK - IDHB	1 2 3 4
EDH-1-6	DUCT HEATER	FCU-1-6	380	3.0	1	208/1	GREENHECK - IDHB	1 2 3 4
EDH-1-7	DUCT HEATER	FCU-1-7	380	3.0	1	208/1	GREENHECK - IDHB	1 2 3 4
EDH-2-1	DUCT HEATER	FCU-2-1	635	3.5	1	208/1	GREENHECK - IDHB	1 2 3 4
EDH-2-2	DUCT HEATER	FCU-2-2	1000	5.0	1	208/1	GREENHECK - IDHB	1 2 3 4
EDH-2-5	DUCT HEATER	FCU-2-5	635	3.5	1	208/1	GREENHECK - IDHB	1 2 3 4
EDH-2-6	DUCT HEATER	FCU-2-6	380	3.0	1	208/1	GREENHECK - IDHB	1 2 3 4
EDH-2-7	DUCT HEATER	FCU-2-7	380	3.0	1	208/1	GREENHECK - IDHB	1 2 3 4
EDH-3-1	DUCT HEATER	FCU-3-1	1000	5.0	1	208/1	GREENHECK - IDHB	1 2 3 4
EDH-3-2	DUCT HEATER	FCU-3-2	740	4.0	1	208/1	GREENHECK - IDHB	1 2 3 4
EDH-3-4	DUCT HEATER	FCU-3-4	380	3.0	1	208/1	GREENHECK - IDHB	1 2 3 4

1. PROVIDE THERMAL SAFETY CUTOUT WITH MANUAL RESET.
2. PROVIDE INTEGRAL DISCONNECT SWITCH.
3. UNIT SHALL BE U.L. LISTED.
4. TIE INTO FCU THERMOSTAT.

NO.	DATE	DESCRIPTION
	12/01/25	ISSUED FOR CONSTRUCTION

WATERFORD CAMPUS - ASSISTED LIVING MEMORY CARE BUILDING

601 UNIVERSE BLVD JUNO BEACH , FL 33048

DANIEL BENJAMIN SMALTER LICENSE No. 94288 STATE OF FLORIDA PROFESSIONAL ENGINEER

Digitally signed by Daniel Benjamin Smalter
Date: 2025.12.03 15:33:20 -05'00'

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2100 RiverEdge Parkway
Suite 900
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PH: 770 916 2220
FAX: 770 916 2299

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ISSUED FOR CONSTRUCTION

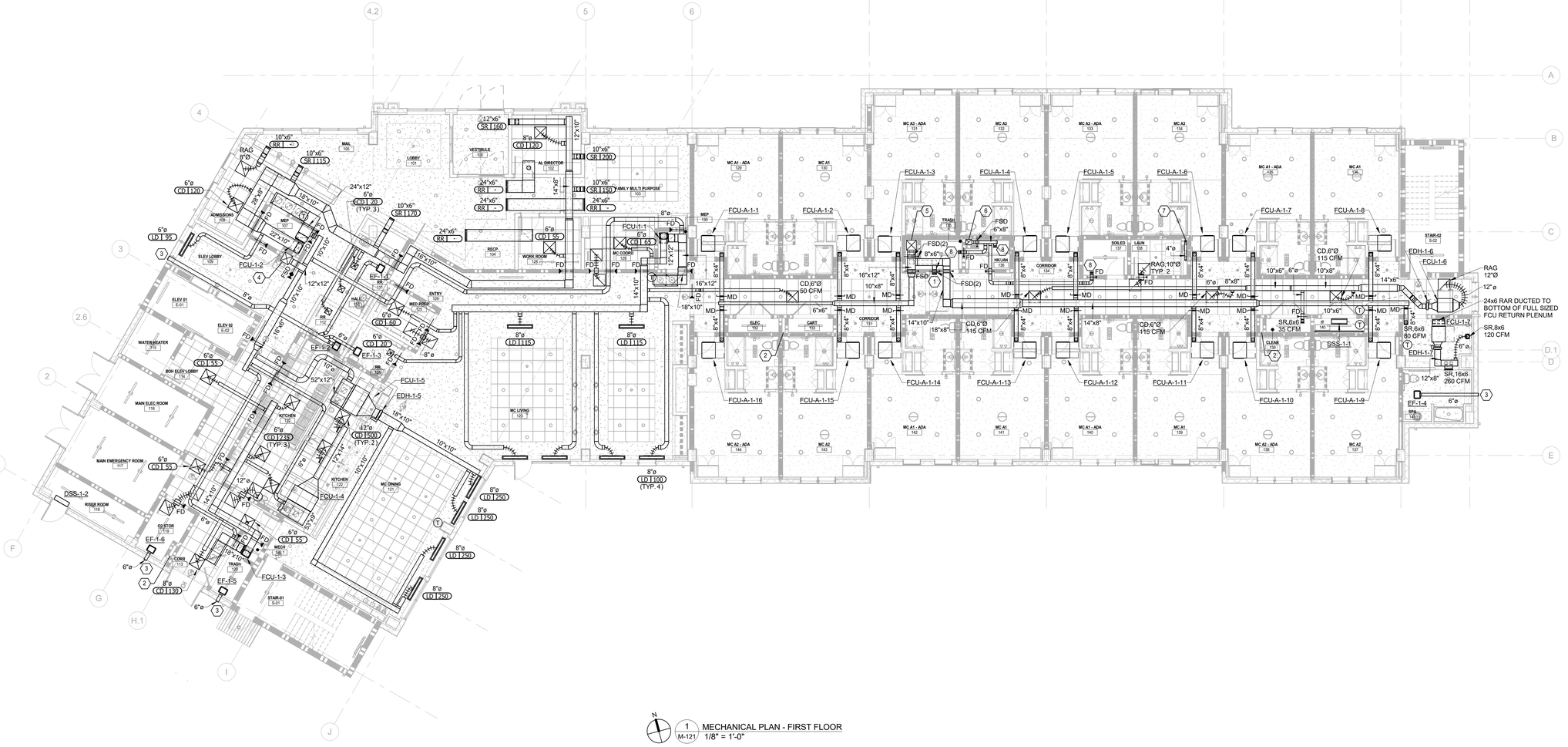
Project No.: 2021009
Date: 12/01/2025

MECHANICAL SCHEDULES

M-004

Salas O'Brien
salasobrien.com
Atlanta
3200 Windy Hill Road, SE, Suite 200E
Atlanta, GA 30339

Project Number: 2024-03276



1 M-121 MECHANICAL PLAN - FIRST FLOOR
1/8" = 1'-0"

KEYED NOTES:

1. OUTSIDE AIR TO CORRIDOR TO BE PROVIDED VIA A SEPARATE 8x6 RISER TAKEOFF WITH FSDs AT SHAFT AND CORRIDOR PENETRATIONS, BELOW THE LARGE OUTSIDE AIR DUCT WHICH SERVES ADA UNITS. PROVIDE WALL-MOUNTED 8x6 SR WITH VOLUME DAMPER BALANCED TO 60 CFM, TIGHT TO UNDERSIDE OF CEILING.
2. CONTINUOUS REFRIGERANT PIPING FROM FCUs TO BE ROUTED UP THRU CHASE. VENTILATED/RATED SHAFTS ARE NOT REQUIRED PER ASHRAE STANDARD 15, SECTION 9.12.1.5.1.
3. EXHAUST DUCT(S) TO TERMINATE AT BUILDING EXTERIOR AT 9'-9" CENTERLINE ELEVATION VIA WALL CAP WITH BACKDRAFT DAMPER AND INSECT SCREEN. X VENT BOX WITH SINGLE OR DOUBLE INLET. COORDINATE FINISH AND INSTALLATION WITH ARCHITECT. MINIMUM 3' FROM OPERABLE OPENINGS.
4. 20x18 OUTSIDE AIR DUCT UP SHAFT TO DOAS-1 ON ROOF.
5. 20x20 OUTSIDE AIR DUCT UP SHAFT TO DOAS-2 ON ROOF.
6. 12x10 EXHAUST DUCT UP SHAFT TO REF-1 ON ROOF.
7. (1) 4" DRYER DUCT UP SHAFT TO ROOF CAP.
8. 6x6 ER, CONNECTED TO 6"Ø DUCT, BALANCED TO 50 CFM.

GENERAL NOTES:

1. DUCTWORK PENETRATING RATED PARTITIONS OR SHAFTS SHALL BE PROVIDED AS REQUIRED* WITH FIRE DAMPERS (FD) OR FIRE/SMOKE DAMPERS (FSD) WITH ACCESS DOORS IN DUCTWORK. SEE PLANS FOR LOCATIONS. PROVIDE ACCESS PANELS IN CEILINGS WHERE DAMPERS ARE INACCESSIBLE ON BOTH SIDES OF WALL.

   * PER THE EXCEPTION TO 2023 FLORIDA BUILDING CODE, BUILDING, SECTION 717.5.4, FIRE DAMPERS ARE NOT REQUIRED AT 1HR-RATED FIRE PARTITIONS WHERE THE DUCT SYSTEM IS CONSTRUCTED OF SHEET METAL STEEL NOT LESS THAN NO. 26 GAUGE THICKNESS AND IS CONTINUOUS FROM THE AIR-HANDLING APPLIANCE OR EQUIPMENT TO THE AIR OUTLET AND INLET TERMINALS.

   * PER THE EXCEPTION TO 2023 FLORIDA BUILDING CODE, BUILDING, SECTION 717.5.4.1, SMOKE DAMPERS ARE NOT REQUIRED AT CORRIDOR PENETRATIONS WHERE THE DUCT IS CONSTRUCTED OF STEEL NOT LESS THAN 0.019 INCH IN THICKNESS AND THERE ARE NO OPENINGS SERVING THE CORRIDOR.
2. OUTSIDE AIR DUCTWORK SHALL BE CONSTRUCTED OF SHEET METAL STEEL NOT LESS THAN NO. 26 GAUGE THICKNESS. DUCTWORK ASSOCIATED WITH DOAS-2 SHALL BE CONTINUOUS FROM THE DOAS UNIT TO THE AIR OUTLET TERMINALS.
3. EXHAUST DUCTWORK SHALL BE CONSTRUCTED OF SHEET METAL STEEL NOT LESS THAN NO. 26 GAUGE THICKNESS AND SHALL BE CONTINUOUS FROM THE EXHAUST FAN TO THE AIR OUTLET TERMINAL.
4. ROUTE CONDENSATE FROM FAN COIL UNITS (FCU) LOCATED IN MECHANICAL CLOSETS TO STORM FLOOR DRAIN IN MECHANICAL CLOSET AND TERMINATE WITH INDIRECT CONNECTION. PIPING SHALL BE SIZED PER MANUFACTURER'S RECOMMENDATIONS. REFER TO PLUMBING DRAWINGS FOR DRAIN LOCATIONS.
5. PUMP CONDENSATE FROM FAN COIL UNITS (FCU) NOT LOCATED IN MECHANICAL CLOSETS, AND FROM DUCTLESS SPLIT SYSTEMS (DSS), ABOVE CEILING AND INSIDE WALL TO NEAREST STORM FLOOR DRAIN AND TERMINATE WITH INDIRECT CONNECTION. PIPING SHALL BE SIZED PER MANUFACTURER'S RECOMMENDATIONS. REFER TO PLUMBING DRAWINGS FOR DRAIN LOCATIONS.

NO.	DATE	DESCRIPTION
	12/01/25	ISSUED FOR CONSTRUCTION

WATERFORD CAMPUS - ASSISTED LIVING MEMORY CARE BUILDING

601 UNIVERSE BLVD JUNO BEACH , FL 33048

THW DESIGN

2100 RiverEdge Parkway
Suite 900
Atlanta, GA 30328

PH: 770 916 2220
FAX: 770 916 2299

www.thw.com

ISSUED FOR CONSTRUCTION

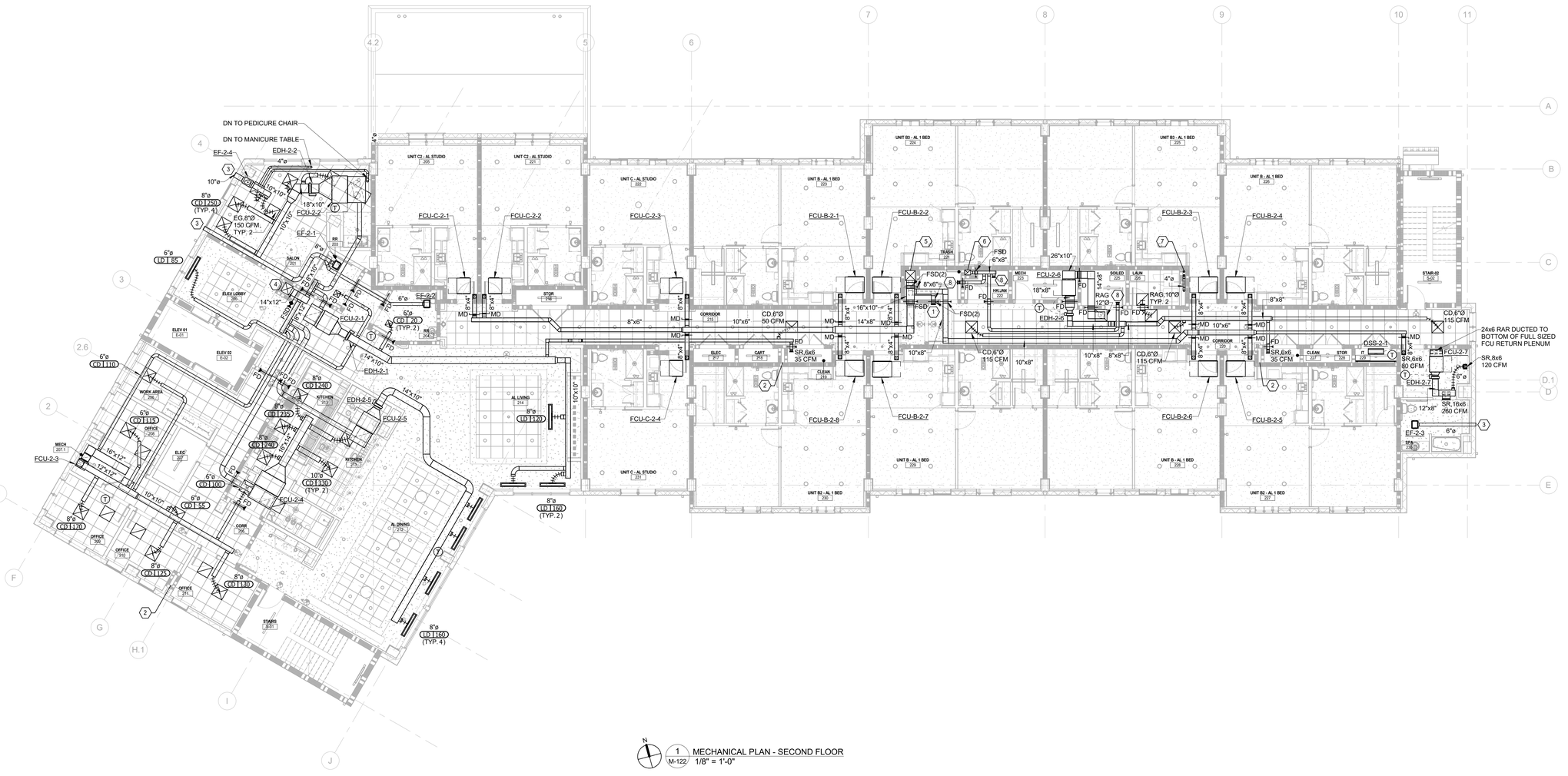
Project No.: 2021009
Date: 12/01/2025

MECHANICAL PLAN - FIRST FLOOR

M-121

Salas O'Brien
salasobrien.com
Atlanta
3200 Windy Hill Road, SE, Suite 200E
Atlanta, GA 30339

Project Number: 2024-03276



1 M-122 MECHANICAL PLAN - SECOND FLOOR
1/8" = 1'-0"

KEYED NOTES:

1. OUTSIDE AIR TO CORRIDOR TO BE PROVIDED VIA A SEPARATE 8x6 RISER TAKEOFF WITH FSDs AT SHAFT AND CORRIDOR PENETRATIONS. BELOW THE LARGE OUTSIDE AIR DUCT WHICH SERVES ADA UNITS. PROVIDE WALL-MOUNTED 8x6 SR WITH VOLUME DAMPER BALANCED TO 60 CFM. TIGHT TO UNDERSIDE OF CEILING.
2. CONTINUOUS REFRIGERANT PIPING FROM FCUs TO BE ROUTED UP THRU CHASE. VENTILATED/RATED SHAFTS ARE NOT REQUIRED PER ASHRAE STANDARD 15, SECTION 9.12.1.5.1.
3. EXHAUST DUCT(S) TO TERMINATE AT BUILDING EXTERIOR AT 9'-9" CENTERLINE ELEVATION VIA WALL CAP WITH BACKDRAFT DAMPER AND INSECT SCREEN. X VENT BOX WITH SINGLE OR DOUBLE INLET. COORDINATE FINISH AND INSTALLATION WITH ARCHITECT.
4. 20x18 OUTSIDE AIR DUCT UP SHAFT TO DOAS-1 ON ROOF.
5. 20x20 OUTSIDE AIR DUCT UP SHAFT TO DOAS-2 ON ROOF.
6. 12x10 EXHAUST DUCT UP SHAFT TO REF-1 ON ROOF.
7. (2) 4" DRYER DUCTS UP SHAFT TO INDIVIDUAL ROOF CAPS.

GENERAL NOTES:

1. DUCTWORK PENETRATING RATED PARTITIONS OR SHAFTS SHALL BE PROVIDED AS REQUIRED* WITH FIRE DAMPERS (FD) OR FIRE/SMOKE DAMPERS (FSD) WITH ACCESS DOORS IN DUCTWORK. SEE PLANS FOR LOCATIONS. PROVIDE ACCESS PANELS IN CEILINGS WHERE DAMPERS ARE INACCESSIBLE ON BOTH SIDES OF WALL.

   * PER THE EXCEPTION TO 2023 FLORIDA BUILDING CODE, BUILDING, SECTION 717.5.4, FIRE DAMPERS ARE NOT REQUIRED AT 1HR-RATED FIRE PARTITIONS WHERE THE DUCT SYSTEM IS CONSTRUCTED OF SHEET METAL STEEL NOT LESS THAN NO. 26 GAUGE THICKNESS AND IS CONTINUOUS FROM THE AIR-HANDLING APPLIANCE OR EQUIPMENT TO THE AIR OUTLET AND INLET TERMINALS.

   * PER THE EXCEPTION TO 2023 FLORIDA BUILDING CODE, BUILDING, SECTION 717.5.4.1, SMOKE DAMPERS ARE NOT REQUIRED AT CORRIDOR PENETRATIONS WHERE THE DUCT IS CONSTRUCTED OF STEEL NOT LESS THAN 0.019 INCH IN THICKNESS AND THERE ARE NO OPENINGS SERVING THE CORRIDOR.
2. OUTSIDE AIR DUCTWORK SHALL BE CONSTRUCTED OF SHEET METAL STEEL NOT LESS THAN NO. 26 GAUGE THICKNESS. DUCTWORK ASSOCIATED WITH DOAS-2 SHALL BE CONTINUOUS FROM THE DOAS UNIT TO THE AIR OUTLET TERMINALS.
3. EXHAUST DUCTWORK SHALL BE CONSTRUCTED OF SHEET METAL STEEL NOT LESS THAN NO. 26 GAUGE THICKNESS AND SHALL BE CONTINUOUS FROM THE EXHAUST FAN TO THE AIR OUTLET TERMINAL.
4. ROUTE CONDENSATE FROM FAN COIL UNITS (FCU) LOCATED IN MECHANICAL CLOSETS TO STORM FLOOR DRAIN IN MECHANICAL CLOSET AND TERMINATE WITH INDIRECT CONNECTION. PIPING SHALL BE SIZED PER MANUFACTURER'S RECOMMENDATIONS. REFER TO PLUMBING DRAWINGS FOR DRAIN LOCATIONS.
5. PUMP CONDENSATE FROM FAN COIL UNITS (FCU) NOT LOCATED IN MECHANICAL CLOSETS, AND FROM DUCTLESS SPLIT SYSTEMS (DSS), ABOVE CEILING AND INSIDE WALL TO NEAREST STORM FLOOR DRAIN AND TERMINATE WITH INDIRECT CONNECTION. PIPING SHALL BE SIZED PER MANUFACTURER'S RECOMMENDATIONS. REFER TO PLUMBING DRAWINGS FOR DRAIN LOCATIONS.

NO.	DATE	DESCRIPTION
	12/01/25	ISSUED FOR CONSTRUCTION

WATERFORD CAMPUS - ASSISTED LIVING MEMORY CARE BUILDING

601 UNIVERSE BLVD JUNO BEACH , FL 33048

DOMEL BENJAMIN SHRATTER — LICENSE — No. 94288 — STATE OF FLORIDA — PROFESSIONAL ENGINEER

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Date: 2025.12.09 15:19:34 -05'00'

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2100 RiverEdge Parkway
Suite 900
Atlanta, GA 30328

PH: 770 916 2220
FAX: 770 916 2299

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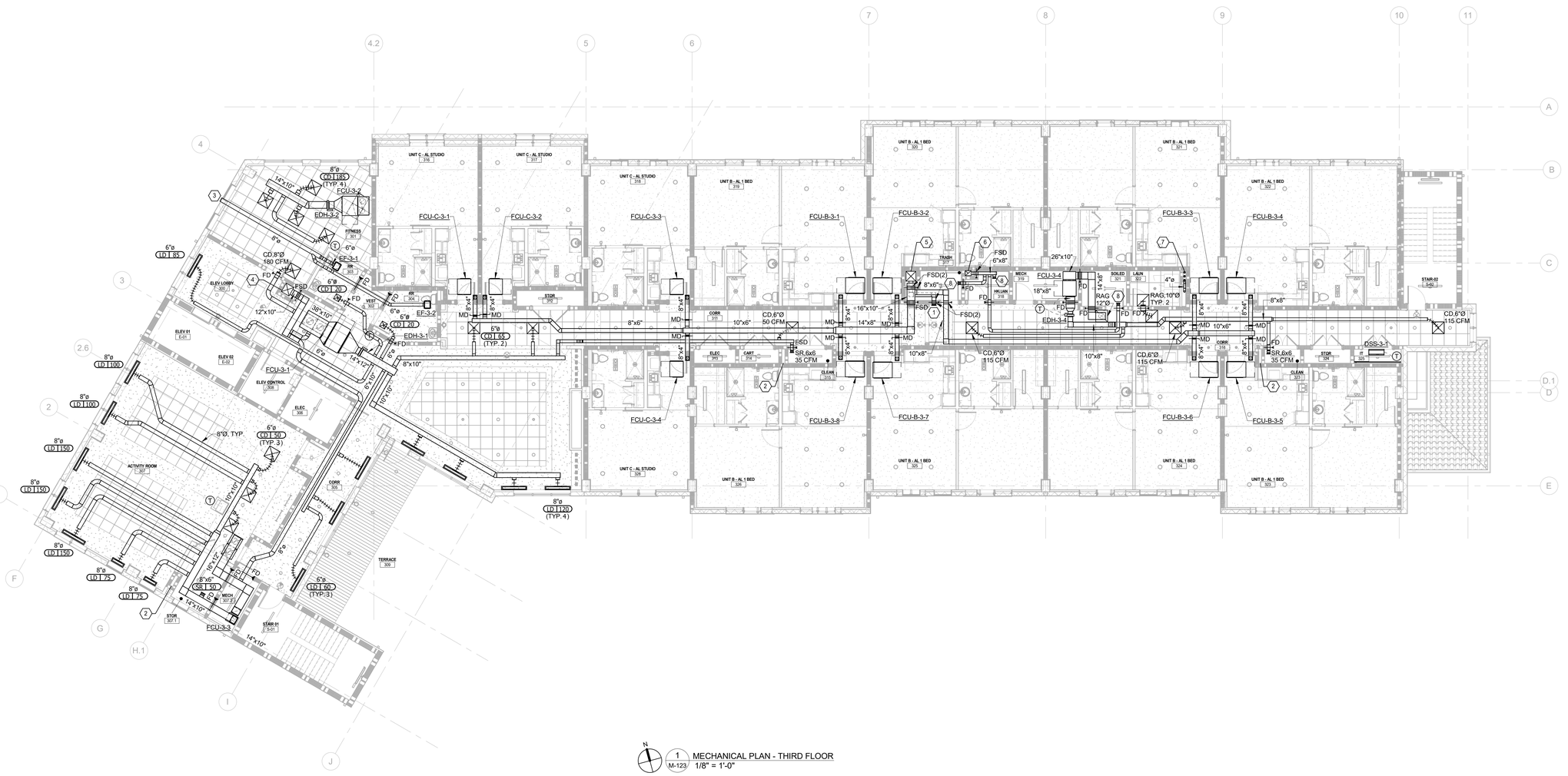
Project No.: 2021009
Date: 12/01/2025

MECHANICAL PLAN - SECOND FLOOR

M-122

Salas O'Brien
salasobrien.com
Atlanta
3200 Windy Hill Road, SE, Suite 200E
Atlanta, GA 30339

Project Number: 2024-03276



N

1 M-123 MECHANICAL PLAN - THIRD FLOOR

1/8" = 1'-0"

KEYED NOTES:

1. OUTSIDE AIR TO CORRIDOR TO BE PROVIDED VIA A SEPARATE 8x6 RISER TAKEOFF WITH FSDs AT SHAFT AND CORRIDOR PENETRATIONS, BELOW THE LARGE OUTSIDE AIR DUCT WHICH SERVES ADA UNITS. PROVIDE WALL-MOUNTED 8x6 SR WITH VOLUME DAMPER BALANCED TO 60 CFM, TIGHT TO UNDERSIDE OF CEILING.
2. CONTINUOUS REFRIGERANT PIPING FROM FCUs TO BE ROUTED UP THRU CHASE. VENTILATED/RATED SHAFTS ARE NOT REQUIRED PER ASHRAE STANDARD 15, SECTION 9.12.1.5.1.
3. EXHAUST DUCT(S) TO TERMINATE AT BUILDING EXTERIOR AT 9'-9" CENTERLINE ELEVATION VIA WALL CAP WITH BACKDRAFT DAMPER AND INSECT SCREEN. X VENT BOX WITH SINGLE OR DOUBLE INLET. COORDINATE FINISH AND INSTALLATION WITH ARCHITECT.
4. 20x18 OUTSIDE AIR DUCT UP SHAFT TO DOAS-1 ON ROOF.
5. 20x20 OUTSIDE AIR DUCT UP SHAFT TO DOAS-2 ON ROOF.
6. 12x10 EXHAUST DUCT UP SHAFT TO REF-1 ON ROOF.
7. (3) 4" DRYER DUCTS UP SHAFT TO INDIVIDUAL ROOF CAPS.

GENERAL NOTES:

1. DUCTWORK PENETRATING RATED PARTITIONS OR SHAFTS SHALL BE PROVIDED AS REQUIRED* WITH FIRE DAMPERS (FD) OR FIRE/SMOKE DAMPERS (FSD) WITH ACCESS DOORS IN DUCTWORK. SEE PLANS FOR LOCATIONS. PROVIDE ACCESS PANELS IN CEILINGS WHERE DAMPERS ARE INACCESSIBLE ON BOTH SIDES OF WALL.

   * PER THE EXCEPTION TO 2023 FLORIDA BUILDING CODE, BUILDING, SECTION 717.5.4, FIRE DAMPERS ARE NOT REQUIRED AT 1HR-RATED FIRE PARTITIONS WHERE THE DUCT SYSTEM IS CONSTRUCTED OF SHEET METAL STEEL NOT LESS THAN NO. 26 GAUGE THICKNESS AND IS CONTINUOUS FROM THE AIR-HANDLING APPLIANCE OR EQUIPMENT TO THE AIR OUTLET AND INLET TERMINALS.

   * PER THE EXCEPTION TO 2023 FLORIDA BUILDING CODE, BUILDING, SECTION 717.5.4.1, SMOKE DAMPERS ARE NOT REQUIRED AT CORRIDOR PENETRATIONS WHERE THE DUCT IS CONSTRUCTED OF STEEL NOT LESS THAN 0.019 INCH IN THICKNESS AND THERE ARE NO OPENINGS SERVING THE CORRIDOR.
2. OUTSIDE AIR DUCTWORK SHALL BE CONSTRUCTED OF SHEET METAL STEEL NOT LESS THAN NO. 26 GAUGE THICKNESS. DUCTWORK ASSOCIATED WITH DOAS-2 SHALL BE CONTINUOUS FROM THE DOAS UNIT TO THE AIR OUTLET TERMINALS.
3. EXHAUST DUCTWORK SHALL BE CONSTRUCTED OF SHEET METAL STEEL NOT LESS THAN NO. 26 GAUGE THICKNESS AND SHALL BE CONTINUOUS FROM THE EXHAUST FAN TO THE AIR OUTLET TERMINAL.
4. ROUTE CONDENSATE FROM FAN COIL UNITS (FCU) LOCATED IN MECHANICAL CLOSETS TO STORM FLOOR DRAIN IN MECHANICAL CLOSET AND TERMINATE WITH INDIRECT CONNECTION. PIPING SHALL BE SIZED PER MANUFACTURER'S RECOMMENDATIONS. REFER TO PLUMBING DRAWINGS FOR DRAIN LOCATIONS.
5. PUMP CONDENSATE FROM FAN COIL UNITS (FCU) NOT LOCATED IN MECHANICAL CLOSETS, AND FROM DUCTLESS SPLIT SYSTEMS (DSS), ABOVE CEILING AND INSIDE WALL TO NEAREST STORM FLOOR DRAIN AND TERMINATE WITH INDIRECT CONNECTION. PIPING SHALL BE SIZED PER MANUFACTURER'S RECOMMENDATIONS. REFER TO PLUMBING DRAWINGS FOR DRAIN LOCATIONS.

NO.	DATE	DESCRIPTION
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WATERFORD CAMPUS - ASSISTED LIVING MEMORY CARE BUILDING

601 UNIVERSE BLVD JUNO BEACH , FL 33048

DANIEL BENJAMIN SHRATTER — LICENSE — No. 94288 — STATE OF FLORIDA — PROFESSIONAL ENGINEER

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Date: 2025.12.02 15:19:37-05'00'

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Atlanta, GA 30328

PH: 770 916 2220
FAX: 770 916 2299

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Project No.: 2021009
Date: 12/01/2025

MECHANICAL PLAN - THIRD FLOOR

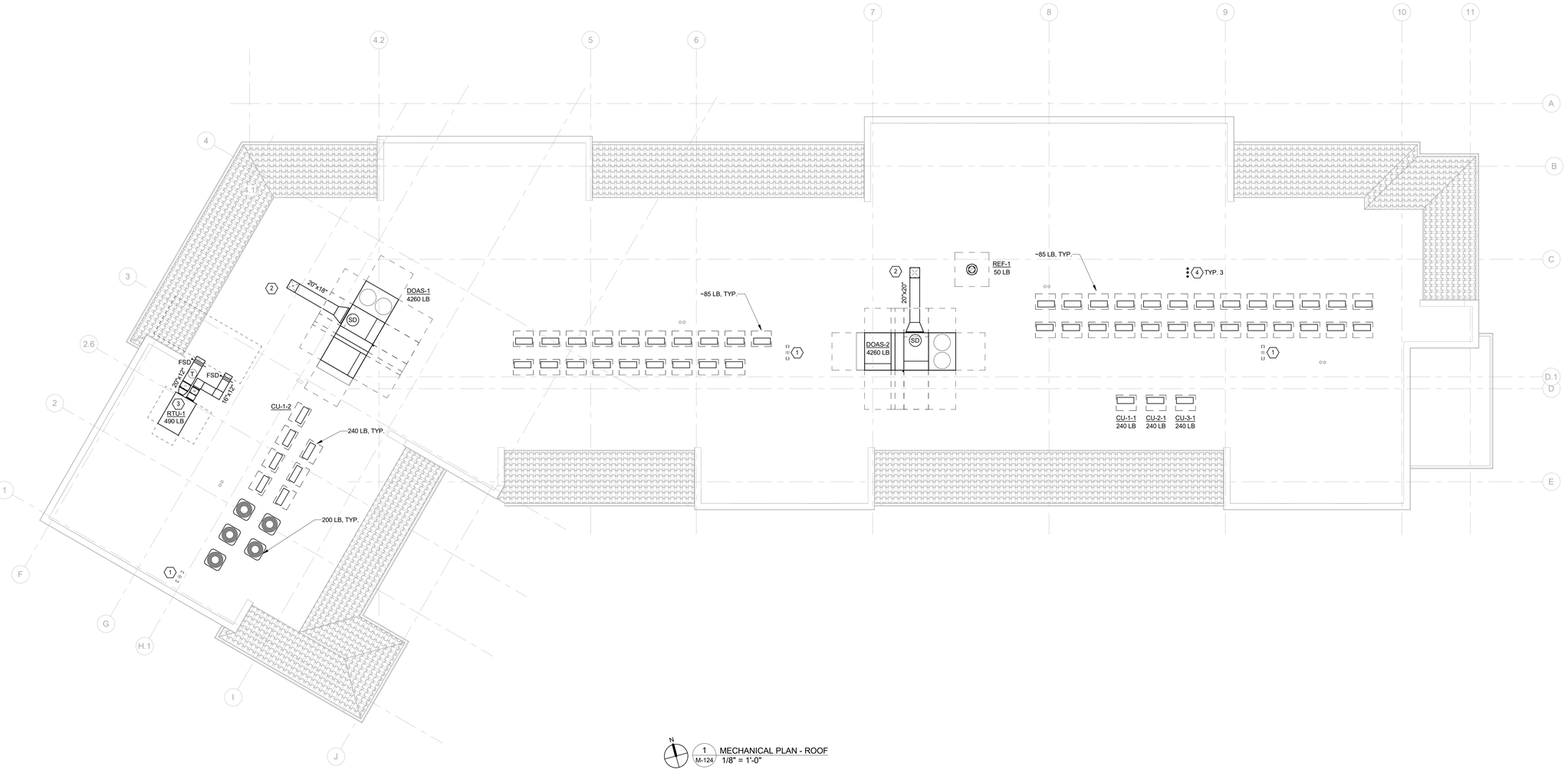
M-123

Salas O'Brien

salasobrien.com

Atlanta
3200 Windy Hill Road, SE, Suite 200E
Atlanta, GA 30339

Project Number: 2024-03276



1 MECHANICAL PLAN - ROOF
M-124 1/8" = 1'-0"

KEYED NOTES:

1. CONTINUOUS REFRIGERANT PIPING FROM HPs/CUs TO BE ROUTED DOWN THRU CHASE. VENTILATED/RATED SHAFTS ARE NOT REQUIRED PER ASHRAE STANDARD 15, SECTION 9.12.1.5.1.
2. PROVIDE ROOF CURB WITH 24x24 ROOF OPENING ALIGNED WITH SHAFT BELOW FOR OUTSIDE AIR DUCT PENETRATION.
3. OPEN ENDED DUCTWORK FROM RTU TO PENETRATE SIDE OF ELEVATOR HOISTWAY OVERRUN (COORDINATE DUCTWORK WITH STRUCTURAL SLEEVE OPENINGS IN WALL).
4. PROVIDE FLORIDA APPROVED ROOF CAP WITH BACKDRAFT DAMPER AND INSECT SCREEN.

GENERAL NOTES:

1. MAINTAIN MINIMUM 10'-0" CLEARANCE FROM OUTSIDE AIR INTAKES TO ALL EXHAUST SOURCES.
2. MAINTAIN MINIMUM CLEARANCES REQUIRED PER MANUFACTURER'S LITERATURE FOR ALL ROOF MOUNTED EQUIPMENT.
3. HEAT PUMPS/CONDENSING UNITS SHALL BE MOUNTED ON FLORIDA APPROVED CONDENSER RACKS BY MIRO INDUSTRIES.
4. CONDENSATE FROM ROOFTOP EQUIPMENT SHALL BE ROUTED TO NEAREST STORM ROOF DRAIN AND TERMINATED WITH INDIRECT CONNECTION. COORDINATE ROOF DRAIN LOCATIONS WITH PLUMBING DRAWINGS. PIPING SHALL BE SIZED PER MANUFACTURER'S RECOMMENDATIONS.
5. OUTSIDE AIR AND EXHAUST DUCTWORK SHALL BE CONSTRUCTED OF SHEET METAL STEEL NOT LESS THAN NO. 26 GAUGE THICKNESS.
6. OUTSIDE AIR DUCTWORK ASSOCIATED WITH DOAS-2 AND EXHAUST DUCTWORK, SHALL BE CONTINUOUS FROM THE AIR-HANDLING APPLIANCE OR EQUIPMENT TO THE AIR OUTLET AND INLET TERMINALS.

MECHANICAL EQUIPMENT ATTACHMENT:

MECHANICAL EQUIPMENT (INCLUDING SUPPORTING RACKS, CURBS, AND EQUIPMENT TIE-DOWNS) AND THE ATTACHMENT OF THESE ELEMENTS TO ONE ANOTHER OR TO THE SUPPORTING BUILDING STRUCTURE, SHALL BE DESIGNED TO RESIST THE WIND PRESSURES REQUIRED BY THE 2023 FLORIDA BUILDING CODE, BUILDING, AND THE FLORIDA BUILDING CODE, MECHANICAL, SECTION 301.15. DESIGN SHALL BE BY A FLORIDA LICENSED STRUCTURAL ENGINEER. THE DESIGN AND INSPECTION OF THESE COMPONENTS SHALL BE BY OTHERS.

NO.	DATE	DESCRIPTION
	12/01/25	ISSUED FOR CONSTRUCTION

WATERFORD CAMPUS - ASSISTED LIVING MEMORY CARE BUILDING

601 UNIVERSE BLVD JUNO BEACH , FL 33048

DANIEL BENJAMIN SHRATTER LICENSE No. 94288 STATE OF FLORIDA PROFESSIONAL ENGINEER

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2100 RiverEdge Parkway
Suite 900
Atlanta, GA 30328

PH: 770 916 2220
FAX: 770 916 2299

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ISSUED FOR CONSTRUCTION

Project No.: 2021009
Date: 12/01/2025

MECHANICAL PLAN - ROOF

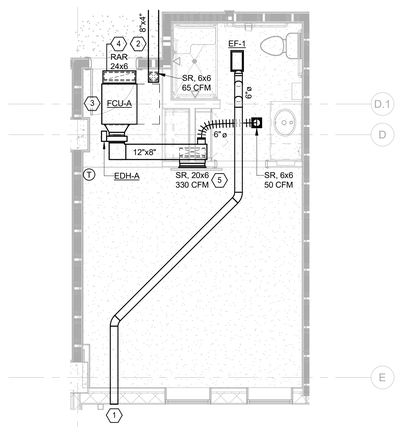
M-124

Salas O'Brien

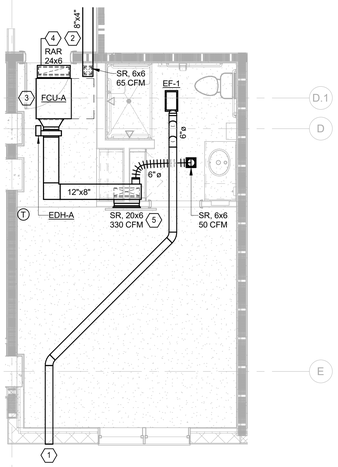
salasobrien.com

Atlanta
3200 Windy Hill Road, SE, Suite 200E
Atlanta, GA 30339

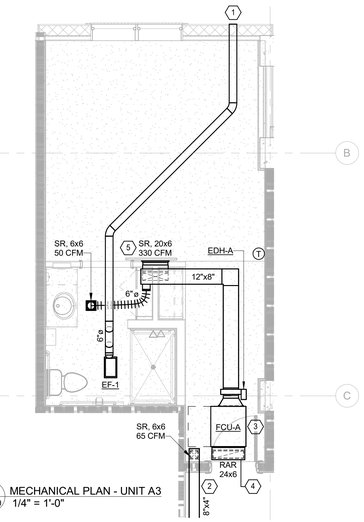
Project Number: 2024-03276



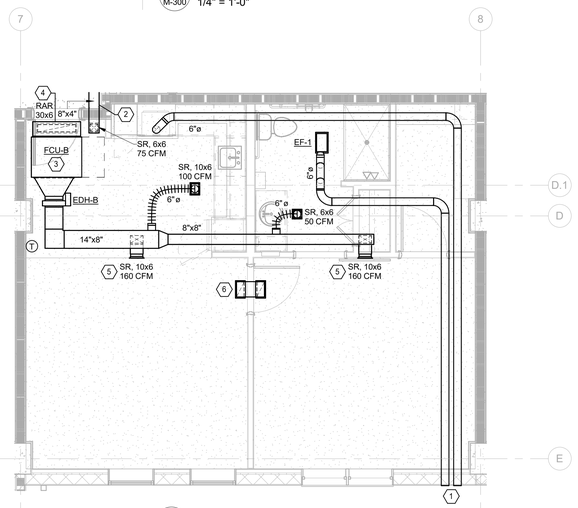
1 M-300 MECHANICAL PLAN - UNIT A1
1/4" = 1'-0"



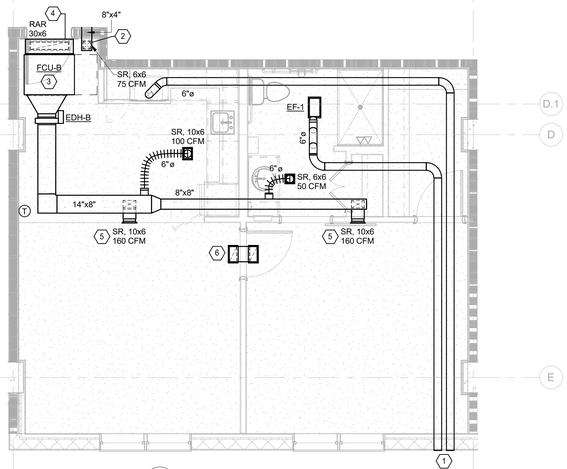
2 M-300 MECHANICAL PLAN - UNIT A2
1/4" = 1'-0"



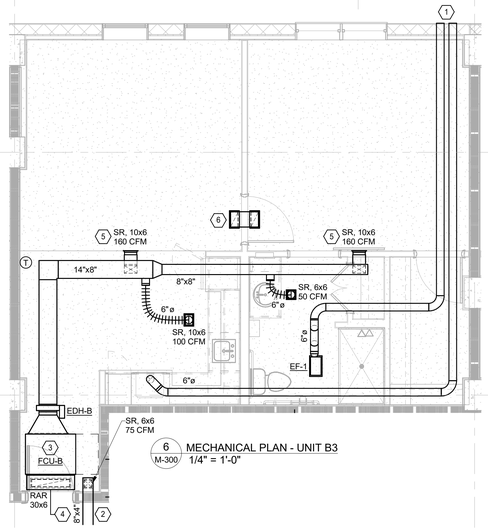
3 M-300 MECHANICAL PLAN - UNIT A3
1/4" = 1'-0"



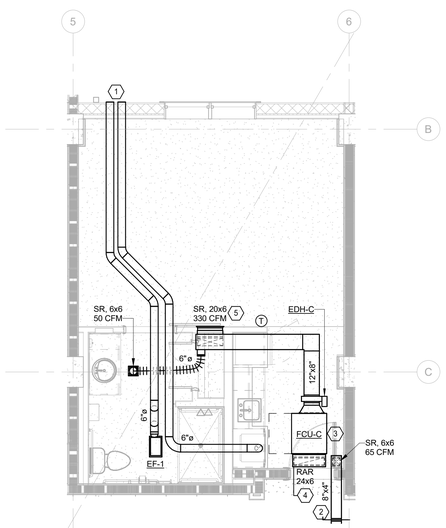
4 M-300 MECHANICAL PLAN - UNIT B
1/4" = 1'-0"



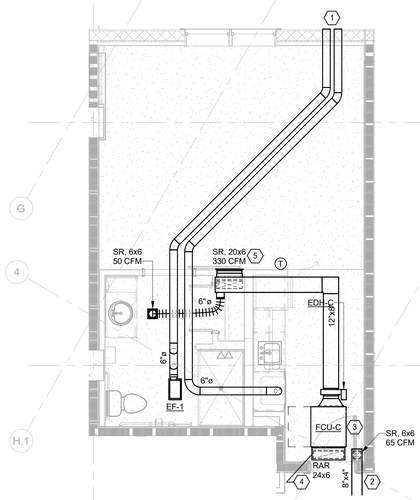
5 M-300 MECHANICAL PLAN - UNIT B2
1/4" = 1'-0"



6 M-300 MECHANICAL PLAN - UNIT B3
1/4" = 1'-0"



7 M-300 MECHANICAL PLAN - UNIT C
1/4" = 1'-0"



8 M-300 MECHANICAL PLAN - UNIT C2
1/4" = 1'-0"

GENERAL NOTES:

1. CONDENSATE FROM FAN COIL UNITS (FCU) SHALL BE PUMPED ABOVE CEILING TO NEAREST STORM PIPE CONNECTION. COORDINATE CONNECTIONS WITH PLUMBING DRAWINGS. PIPING SHALL BE SIZED PER MANUFACTURER'S RECOMMENDATIONS.
2. PROVIDE ANGLE BOOTS SIMILAR TO CROWN MODEL 243 FOR SUPPLY REGISTERS (SR) WITH FLEX DUCT CONNECTIONS, WITH INLET CONNECTION TO MATCH SIZE OF FLEX DUCT NOTED ON PLANS.
3. REFER TO OVERALL FLOOR PLANS FOR EXACT NAMING CONVENTION AND LOCATION OF DWELLING FAN COIL UNITS. FCU-(UNIT)-(FLOOR)-(#).

KEYED NOTES:

1. EXHAUST DUCT(S) TO TERMINATE AT BUILDING EXTERIOR AT 9'-9" CENTERLINE ELEVATION VIA WALL CAP WITH BACKDRAFT DAMPER AND INSECT SCREEN. X VENT BOX WITH SINGLE OR DOUBLE INLET. COORDINATE FINISH AND INSTALLATION WITH ARCHITECT.
2. OUTSIDE AIR SUPPLIED TO DWELLING UNIT VIA DOAS-2. PROVIDE MANUAL VOLUME DAMPER AT BRANCH DUCT TAKEOFF FROM TRUNK DUCT IN CORRIDOR.
3. PROVIDE AND INSTALL FULL SIZE REMOVABLE ACCESS PANEL BELOW FCU TO ALLOW REMOVAL OF FCU AND ACCESS TO CONTROLS, CONDENSATE DRAIN LINE, AND DUCT HEATER. REFER TO MANUFACTURER'S LITERATURE FOR REQUIRED SIZE.
4. PROVIDE RETURN AIR GRILLE (RAR) WITH FILTER. PROVIDE AND INSTALL SHEET METAL DUCTED RETURN SIZED FOR THE FAN COIL INLET TO ALLOW CONNECTION TO RETURN AIR GRILLE.
5. SUPPLY REGISTER MOUNTED IN WALL BELOW CEILING AT 8'-6" CENTERLINE ELEVATION. RECTANGULAR INLET DUCT TO MATCH DEVICE FACE SIZE AND CONNECT TO UNDERSIDE OF FCU TRUNK DUCT.
6. (2) 12x6 RAR LOCATED IN CEILING ON BOTH SIDES OF WALL WITH 12x6 BOOT.

Salas O'Brien
salasobrien.com
Atlanta
3200 Windy Hill Road, SE, Suite 200E
Atlanta, GA 30339

Project Number: 2024-03276

NO.	DATE	DESCRIPTION
	12/01/25	ISSUED FOR CONSTRUCTION

WATERFORD CAMPUS - ASSISTED LIVING MEMORY CARE BUILDING

601 UNIVERSE BLVD JUNO BEACH , FL 33048

DANIEL BENJAMIN SHRADER LICENSE No. 94288 STATE OF FLORIDA PROFESSIONAL ENGINEER
Digitally signed by Daniel Benjamin Shrader
Date: 2025.12.02 15:59:43 -05'00'

THW DESIGN

2100 RiverEdge Parkway
Suite 900
Atlanta, GA 30328

PH: 770 916 2220
FAX: 770 916 2299

www.thw.com

ISSUED FOR CONSTRUCTION

Project No.: 2021009
Date: 12/01/2025

MECHANICAL UNIT PLANS

M-300

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