

H:\24-Joes\24169 - Serenity Seaside Resort\03 - Beach Club\meca\24169_3m001.dwg Plotted: Nov 15, 2025 - 12:31 pm by asalvatore

SPLIT SYSTEM SCHEDULE - STD COOL/ ELECTRIC HEAT																
MARK	SERVES	TYPE	PERFORMANCE CRITERIA													
			INDOOR FAN				COOLING				ELECTRIC HEATING			INDOOR UNIT (FCU) BASIS OF DESIGN (CARRIER)	OUTDOOR UNIT (CU) BASIS OF DESIGN (CARRIER)	NOTES
			CFM	OA CFM	ESP	HP	NOM TONS	TOTAL MBH	SENS. MBH	EAT DB	WB	EER	INPUT (KW)	OUTPUT (MBH)	ΔT	
FCU/CU-3-1	SPACE	HORIZONTAL	6,000	1,500	0.75	---	15.0	198.9	143.6	80	67	11.0	50.0	128.3	25°F	40RLA 36AXZ 1 THRU 21
1. DISCONNECT PROVIDED BY ELECTRICAL 2. PROVIDE SINGLE POINT ELECTRICAL CONNECTION. 3. REFER TO ELECTRICAL DRAWINGS FOR ELECTRICAL CHARACTERISTICS, INCLUDING VOLTAGE & PHASE. 4. PROVIDE DIMENSIONED SKETCH OF REFRIGERANT PIPING FOR EACH SPLIT SYSTEM. DELIVER SKETCHES TO SPLIT SYSTEM MANUFACTURER FOR SIZING OF LINES AND LOCATING OF ALL REQUIRED PIPING ACCESSORIES. 5. REFRIGERANT PIPING FOR A2L REFRIGERANT SYSTEMS: A2L REFRIGERANT PIPING SYSTEMS WILL REQUIRE RATED & VENTILATED CHASES FOR PIPING RUNS PENETRATING TWO OR MORE FLOOR/CEILING ASSEMBLIES. WHERE ARCHITECTURAL CHASES ARE NOT PROVIDED, THE CONTRACTOR SHALL PROVIDE REFRIGERANT ENCLOSURES EQUAL TO FLAMEBAR. PIPING INSTALLED WITHIN NORMAL STUD WALLS WILL REQUIRE SHIELD PLATES. 6. PROVIDE THERMOSTAT WITH 7-DAY PROGRAMMABLE SCHEDULE, UNOCCUPIED SETBACK, AND THE ABILITY TO CONTROL FAN & TEMPERATURE SYSTEMS SEPARATELY. 7. ALL EXTERIOR REFRIGERANT LINE-SET INSULATION SHALL BE PROTECTED WITH A WATER AND UV RESISTANT MASTIC. MASTIC TO BE WHITE, WATER BASED, SYNTHETIC LATEX EQUAL TO SEAL TACK. 8. PROVIDE CONTINUOUS FAN OPERATION DURING OCCUPIED HOURS. 9. PROVIDE FILTERS FOR UNIT, MINIMUM MERV 12 EFFICIENCY, 2" DEPTH (500 FPM MAX VELOCITY). 14. EVAPORATOR, CONDENSER AND REHEAT COILS TO HAVE CORROSION PROTECTION COATING, POLYMER E-COATING OR APPROVED EQUAL. 15. PROVIDE WITH CONDENSER HAIL GUARDS. 16. PROVIDE COMPRESSOR CYCLE DELAY, CRANKCASE HEATER, HIGH PRESSURE SWITCH, AND LOW PRESSURE SWITCH. 17. PROVIDE WITH LOW AMBIENT AND HEAD PRESSURE CONTROL KIT. 18. PROVIDE 1/2" DEEP AUXILIARY DRAIN PAN ATTACHED TO BOTTOM OF UNIT. ROUTE 3/4" AUXILIARY DRAIN LINE FROM UNIT TO PAN. PROVIDE FLOAT SWITCH INTERLOCKED W/FAN TO SHUT DOWN UPON WATER DETECTION. 19. COOLING CAPACITIES AT AMBIENT CONDENSING TEMP OF 95°F. 20. ELECTRIC HEATER INPUT LISTED IS NOMINAL SIZING. THE HEATER OUTPUT SCHEDULED (MBH) IS REQUIRED REGARDLESS OF VOLTAGE SELECTED. 21. PROVIDE WITH TWO STAGE COMPRESSOR AND VARIABLE SPEED INDOOR FAN FOR PART LOAD OPERATION. 22. PROVIDE AUTOMATIC SHUTDOWN CONTROL UTILIZING SMOKE DETECTORS IN THE SUPPLY AIR DUCT AS REQUIRED BY NFPA 90A. SMOKE DETECTOR TO BE SUPPLIED AND WIRED BY THE ELECTRICAL CONTRACTOR BUT INSTALLED BY THE MECHANICAL CONTRACTOR. SMOKE DETECTOR SHALL BE ACCESSIBLE. SMOKE DETECTOR SHALL BE PROVIDED WITH AUDIO & VISUAL ALARM SIGNAL DEVICE OR TIED INTO THE BUILDING'S FIRE ALARM SYSTEM. 23. PROVIDE MIXING BOX SECTION WITH 100% ECONOMIZER AND ALL ASSOCIATED CONTROLS REQUIRED FOR OPERATION. PROVIDE ALL SENSORS AND CONTROLS REQUIRED TO CONTROL BASED ON DIFFERENTIAL ENTHALPY, BAROMETRIC RELIEF TO BE PROVIDED AS SHOWN ON PLANS TO ACCOMMODATE ECONOMIZER OPERATION. 24. ECONOMIZER CONTROL SHALL BE INTEGRATED WITH COOLING SYSTEM TO PROVIDE PARTIAL COOLING WHEN ECONOMIZER OPERATION ALONE IS NOT SUFFICIENT TO MEET THE SPACE LOAD CONDITIONS. 25. PROVIDE ECONOMIZER WITH FAULT DETECTION AND PROVIDE CONTROLS SYSTEM WITH THE ABILITY TO SHOW AN ALARM CONDITION AT THE THERMOSTAT.																

FAN SCHEDULE								
MARK	SERVES	LOCATION	TYPE	CFM	ESP	HP	MAX SONES	NOTES
EF-3-1	RESTROOMS	ROOF	DOWNBlast	650	0.5	1/8	10.0	GREENHECK G-120-VG 1-8
HEF-3-1	HOOD-1	ROOF	UPBLAST	2,376	0.86	1.0	20.0	ACCUREX XQUE-160-VG 1-6, 9, 10, 11
HEF-3-2	HOOD-2	ROOF	UPBLAST	2,376	0.86	1.0	20.0	ACCUREX XQUE-160-VG 1-6, 9, 10, 11
1. DISCONNECT PROVIDED BY ELECTRICAL. 2. REFER TO ELECTRICAL DRAWINGS FOR ELECTRICAL CHARACTERISTICS, INCLUDING VOLTAGE & PHASE. 3. WHERE REQUIRED, STARTER TO BE PROVIDED BY ELECTRICAL. 4. FAN TO INCLUDE BACKDRAFT DAMPER AND VIBRATION ISOLATION KIT. 5. FAN OUTLET TO BE A MINIMUM OF TEN FEET FROM ANY OUTSIDE AIR INTAKE OR OPERABLE OPENING INTO THE BUILDING. 6. PROVIDE ELECTRONIC SPEED CONTROL. 7. PROVIDE INSULATED FACTORY ROOF CURB MINIMUM OF 14" HIGH. 8. FAN TO RUN CONTINUOUSLY WHILE THE BUILDING IS OCCUPIED. 9. HOOD EXHAUST FANS: PROVIDE VENTILATED 18" TALL NFPA 96 36" AND 24" FROM PARAPET WALL. FAN SHALL BE 10'-0" FROM ALL ADJACENT STRUCTURES INCLUDING PARTS OF THIS BUILDING. 10. PROVIDE WITH VARIABLE SPEED FAN (VFD OR ECM). 11. INTERLOCK WITH HOOD CONTROLLER. FAN SHALL MODULATE AIRFLOW AS REQUIRED BY HOOD CONTROLLER.								

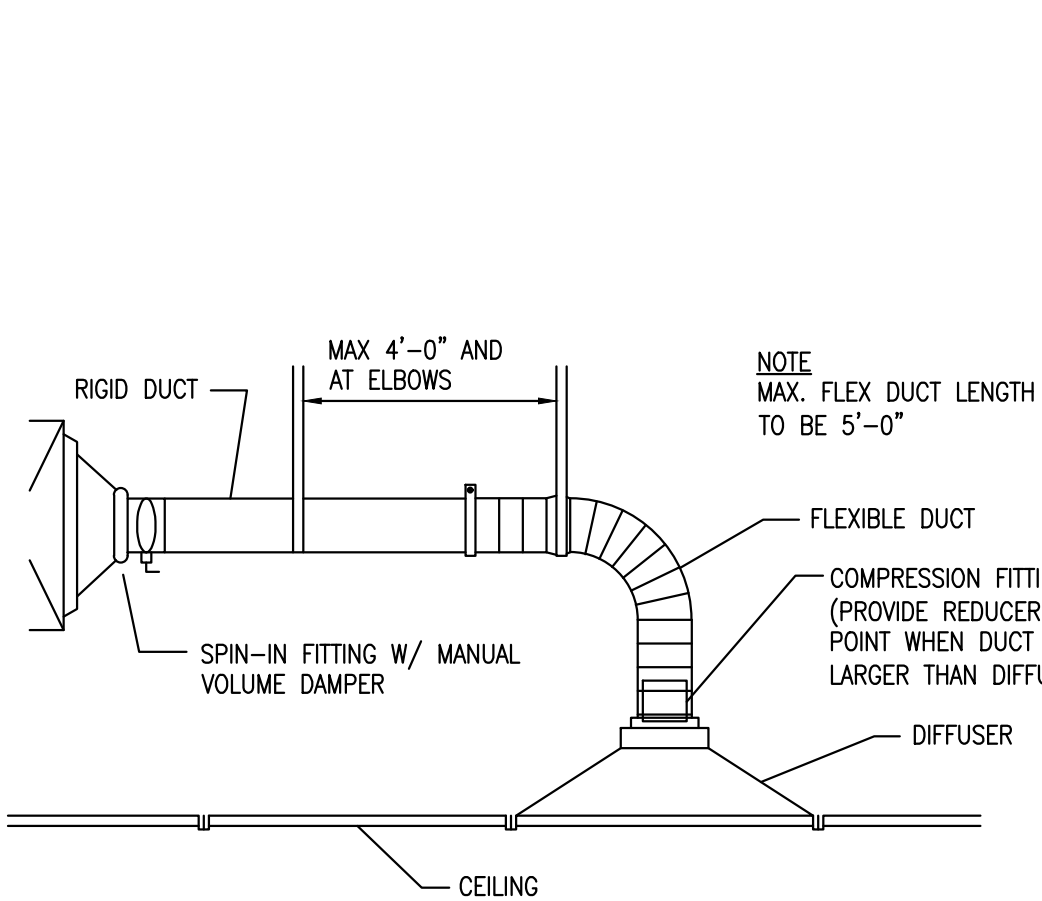
KITCHEN HOOD MAKE-UP AIR FAN										
MARK	SERVES	PERFORMANCE CRITERIA								
		FAN			GAS HEATING				WEIGHT (LBS)	BASIS OF DESIGN (ACCUREX)
		CFM	ESP	HP	INPUT (MBH)	OUTPUT (MBH)	EFF. %	EAT (°F)		
MAU-3-1	HOOD-3-1	3,802	0.68	2.0	---	---	---	---	---	XID-16-VG 1 THRU 7
1. DOWNFLOW UNIT. 2. UNIT MOUNTED DISCONNECT PROVIDED BY ELECTRICAL. 3. PROVIDE SINGLE POINT ELECTRICAL CONNECTION. 4. REFER TO ELECTRICAL DRAWINGS FOR ELECTRICAL CHARACTERISTICS, INCLUDING VOLTAGE & PHASE. 5. PROVIDE WITH INTEGRAL MOTOR STARTER. 6. PROVIDE WITH VARIABLE SPEED FAN (VFD OR ECM). 7. INTERLOCK WITH HOOD CONTROLLER. FAN SHALL MODULATE AIRFLOW AS REQUIRED BY HOOD CONTROLLER.										

AIR DEVICE SCHEDULE									
MARK	TYPE	SERVICE	MANUFACTURER	MODEL	FACE SIZE	NECK SIZE	MAX NC	VOLUME DAMPER	NOTES
A	CLG. DIFFUSER	SUPPLY	PRICE	SPD	24"x24"	VARIES	30	YES	1, 2
B	CLG. GRILLE	RETURN/EXHAUST	PRICE	PDDR	24"x24"	VARIES	30	NO	1, 2
C	LINEAR SLOT	SUPPLY	PRICE	SDS	SEE NOTES	VARIES	30	YES	1, 2, 4, 5, 6
D	LINEAR SLOT	RETURN/EXHAUST	PRICE	SDR	SEE NOTES	VARIES	30	YES	1, 2, 4, 5, 6
E	DUCT/WALL DIFFUSER	SUPPLY	PRICE	520	VARIES	VARIES	30	YES	1, 2
F	DUCT/CLG. GRILLE	RETURN	PRICE	535	VARIES	VARIES	30	NO	1, 2
1. SEE ARCHITECTURAL FOR FINISHES. ALL FINISHES NOT SPECIFIED BY ARCH. TO BE WHITE. 2. REFER TO ARCHITECTURAL PLANS FOR CEILING, WALL, AND FLOOR TYPES. PROVIDE AIR DEVICES WITH PROPER MOUNTING FRAMES FOR THE INSTALLATION SHOWN. 3. VOLUME DAMPER TO BE OPPOSED BLADE TYPE AND ACCESSIBLE THROUGH THE FACE OF THE GRILLE/DIFFUSER WHERE POSSIBLE. 4. SLOT TYPE AIR DEVICES SHALL BE 3 SLOTS EACH WITH 1 SLOT WIDTH. LENGTH OF EACH IS DEFINED ON PLANS. 5. SLOT TYPE AIR DEVICES SHALL BE 2 SLOTS EACH WITH 3/4 SLOT WIDTH. LENGTH OF EACH IS DEFINED ON PLANS. 6. PROVIDE EACH SLOT TYPE AIR DEVICE WITH A PLENUM. SUPPLY PLENUMS SHALL BE INSULATED. FOR AIR DEVICES LONGER THAN 5'-0" PROVIDE WITH A SLOPED SHOULDER TYPE PLENUM. 7. PROVIDE REMOTE CABLE DAMPER CONTROLLER EQUAL TO YOUNG REGULATOR COMPANY'S BOWDEN TYPE 270-275. LINK REMOTE CABLE CONTROL TO REMOTE MANUAL VOLUME DAMPER FOR EACH DIFFUSER. ACCESS FOR CONTROL OF DAMPER SHOULD BE IN THE FACE OF THE DIFFUSER. PROVIDE OWNER WITH WRENCH AND TRAIN IN OPERATION OF DAMPERS.									

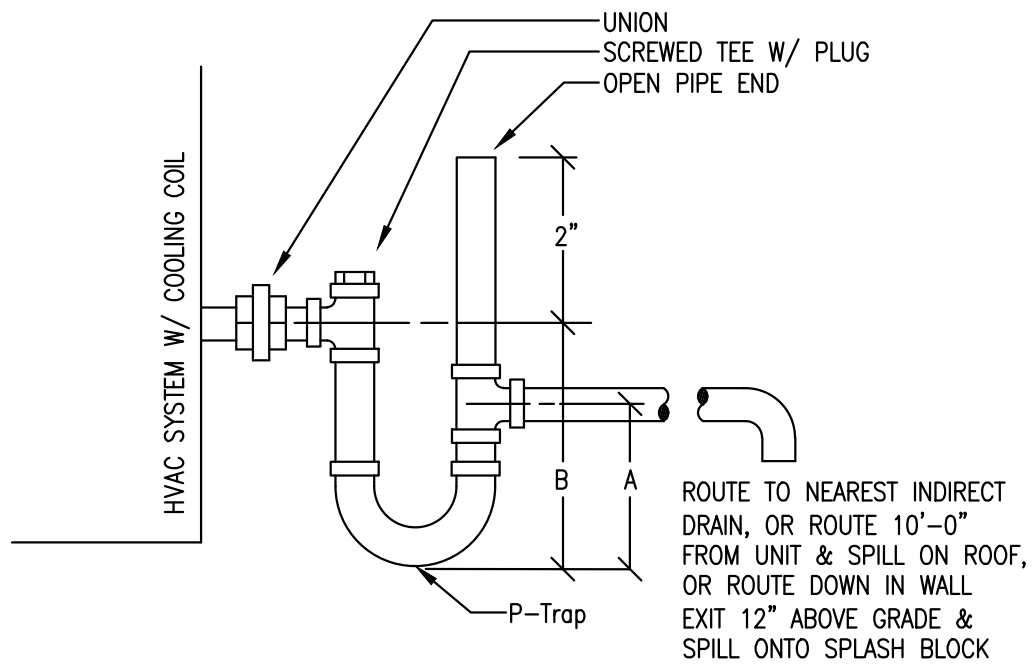
KITCHEN HOOD SCHEDULE						
MARK	CLASSIFICATION	PERFORMANCE		MANUFACTURER	MODEL	REMARKS
HOOD-3-1	TYPE I	2,376	1,991	ACCUREX	XBEW-121-S	1, 2
HOOD-3-2	TYPE I	2,376	1,811	ACCUREX	XBEW-121-S	1, 2
1. HOODS SPECIFIED BY OTHERS. SHOWN HERE FOR COORDINATION ONLY. 2. HOOD PROVIDED BY KITCHEN EQUIPMENT PROVIDER, INSTALLED BY MECHANICAL CONTRACTOR.						

INTAKE/RELIEF HOOD SCHEDULE									
MARK	MANUFACTURER	MODEL	DUTY	LENGTH (IN)	WIDTH (IN)	THROAT AREA (SQ FT)	CFM	MAX ΔP	NOTES
IH-3-1	GREENHECK	FGI	INTAKE	20	36	5.00	3,802	0.089"	1, 2, 3
IH-3-2	GREENHECK	FGI	INTAKE	20	54	7.50	6,000	0.089"	1, 2, 3
IRH-3-1	GREENHECK	FGR	RELIEF	20	36	5.00	4,000	0.089"	1, 2, 3, 4
1. PROVIDE MANUFACTURER'S STANDARD CURB. 2. PROVIDE BIRD & INSECT SCREEN. 3. PROVIDE WITH GRAVITY BACKDRAFT DAMPER 4. PROVIDE WITH BAROMETRIC RELIEF DAMPER.									

ELECTRIC UNIT/WALL HEATER SCHEDULE								
MARK	SERVES	TYPE	FAN (CFM)	HEAT (KW)	MOUNTING HEIGHT (AFF)	BASIS OF DESIGN		NOTES
						MANUFACTURER	MODEL	
EWH-1	SPACE	WALL	175	1.5	1'-0"	MARKEL	3320 SERIES	1 THRU 4
EWH-2	SPACE	WALL	175	1.5	1'-0"	MARKEL	3320 SERIES	1 THRU 4
EWH-3	SPACE	WALL	175	1.5	1'-0"	MARKEL	3320 SERIES	1 THRU 4
EWH-4	SPACE	WALL	175	1.5	1'-0"	MARKEL	3320 SERIES	1 THRU 4
1. DISCONNECT PROVIDED BY ELECTRICAL 2. REFER TO ELECTRICAL DRAWINGS FOR ELECTRICAL CHARACTERISTICS, INCLUDING VOLTAGE & PHASE. 3. PROVIDE INTEGRAL THERMOSTAT. 4. PROVIDE ALL NECESSARY ACCESSORIES FOR MOUNTING.								

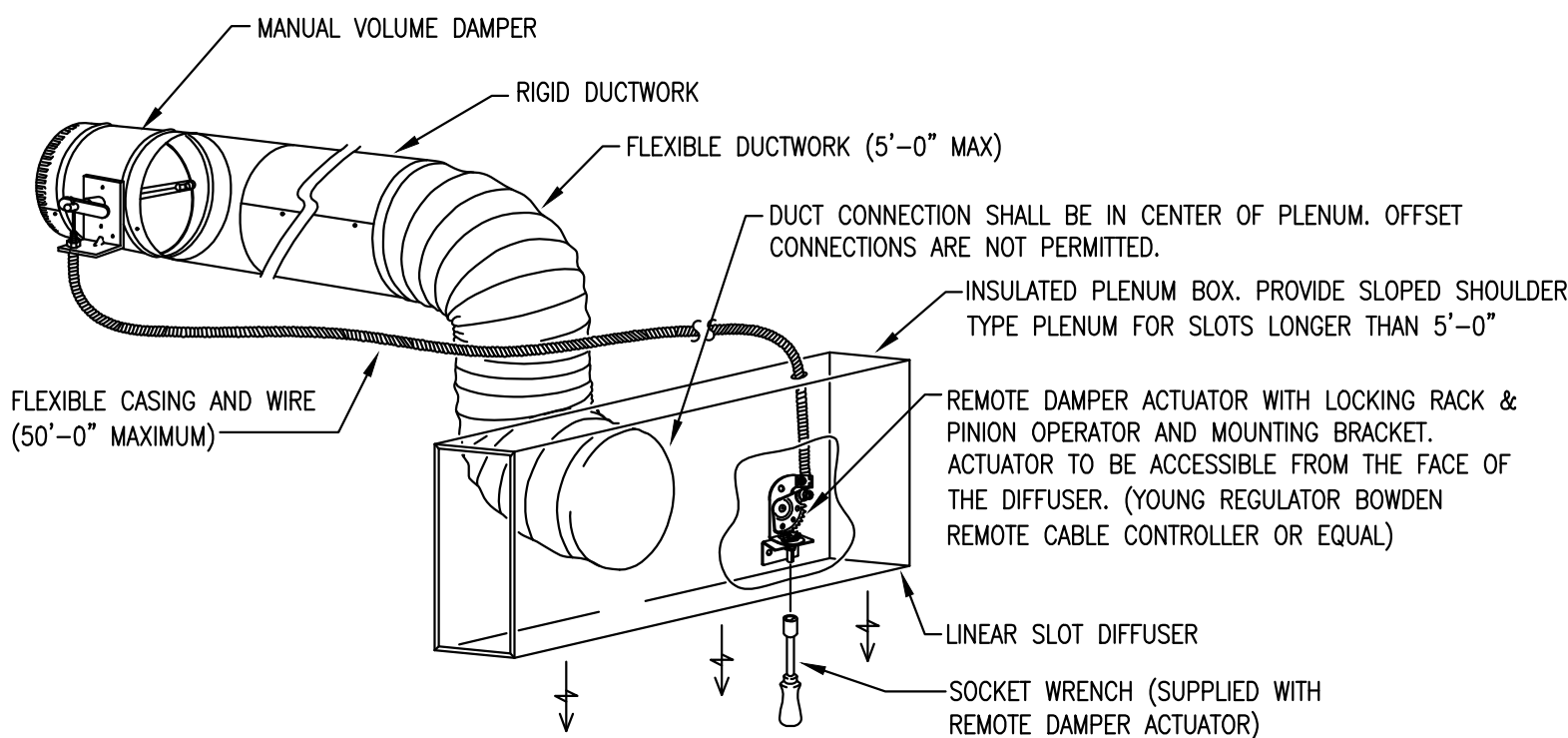


1
M001
DIFFUSER RUNOUT DETAIL
SCALE: NOT TO SCALE



DRAW THRU UNIT:
A = DISCHARGE HEIGHT = PIPE DIAMETER + FAN SP (2" MIN)
B = INLET HEIGHT = DISCHARGE HEIGHT + FAN SP + 1" (4" MIN)
BLOW THRU UNIT:
A = DISCHARGE HEIGHT = PIPE DIAMETER + FAN SP + 1" (4" MIN)
B = INLET HEIGHT = DISCHARGE HEIGHT + FAN SP (2" MIN)

2
M001
CONDENSATE P-TRAP DETAIL
SCALE: NOT TO SCALE



3
M001
LINEAR SLOT DIFFUSER DETAIL
SCALE: NOT TO SCALE

730 PEACHTREE STREET, NE
STUDIO 325
ATLANTA, GEORGIA 30308
678.244.6270
www.KDCarchitects.com

ARCHITECT:

CONSULTANT:



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REVISIONS	
DATE:	DESCRIPTION:
10/18/24	SCHEMATIC DESIGN
7/24/25	DESIGN DEVELOPMENT
10/23/25	50% CONSTRUCTION DOCS
11/14/25	PERMIT SET

PROJECT:
SERENITY SEASIDE RESORT

BUILDING #3 BEACH CLUB

186 SOUTH BAY SHORE DRIVE, EASTPOINT, FL 32328

Serenity Seaside Operations, LLC
174 Watercolor Way, PMB 410
Santa Rosa Beach, Florida 32459

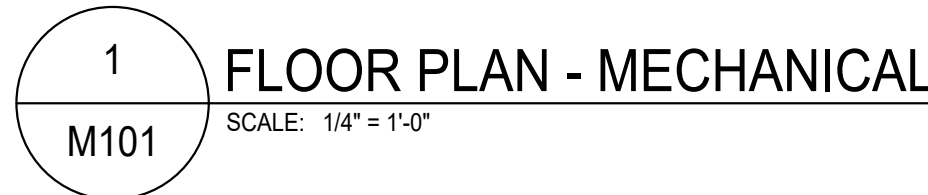
JOB NUMBER: 23019.3

DATE: --/--/----

TITLE:
SCHEDULES & DETAILS MECHANICAL

SHEET:
M001

- ① TRANSITION FROM FULL SIZE OF HOOD EXHAUST FAN CONNECTION TO THE FULL SIZE OF THE HOOD CONNECTION IN THE VERTICAL. DOWNSIDE CONNECTION IN TRUSSES FOR HOOD OPENINGS AND FAN OPENINGS WITH TRUSS MANUFACTURER BEFORE BEGINNING WORK. (TYPICAL OF 2)
- ② TRANSITION FROM 24x20 TO THE FULL SIZE OF THE INTAKE HOOD CONNECTION IN THE VERTICAL. DOWNSIDE CONNECTION FROM VERTICAL TO HORIZONTAL WITH FULL RADIUS ELBOW OR MITERED ELBOW WITH TURNING VANS.
- ③ TRANSITION FROM THE FULL SIZE OF THE ECONOMIZER BOX CONNECTION TO THE FULL SIZE OF THE INTAKE HOOD CONNECTION IN THE VERTICAL. DOWNSIDE CONNECTION FROM VERTICAL TO HORIZONTAL WITH FULL RADIUS ELBOW OR MITERED ELBOW WITH TURNING VANS.
- ④ INDIVIDUAL 15x15 DUCTS EXTEND UP AND CONNECT TO 20x36 DUCT FROM RELIEF HOOD BY TRUSS MANUFACTURER BEFORE BEGINNING WORK.
- ⑤ TRANSITION FROM 12x12 TO THE FULL SIZE OF THE EXHAUST FAN CONNECTION IN THE VERTICAL. DOWNSIDE CONNECTION FROM VERTICAL TO HORIZONTAL WITH FULL RADIUS ELBOW.

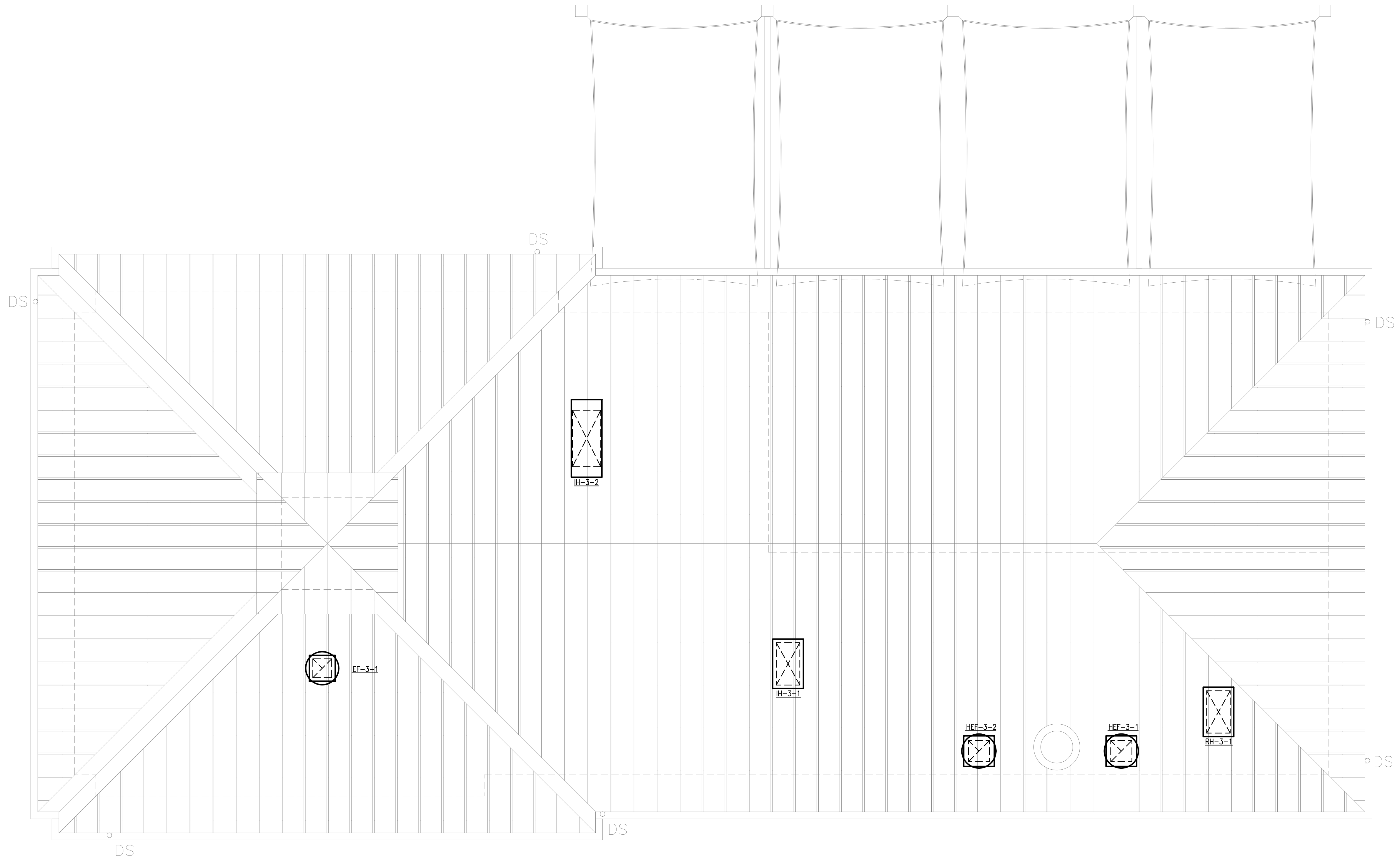


**MOLNAR JORDAN
& ASSOCIATES, INC.**
Consulting Engineers

FLORIDA COA #: 26750
71 VICKERY STREET
ROSWELL, GA. 30075
Phone (770) 992-5077

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1 ROOF PLAN - MECHANICAL
M102 SCALE: 1/4" = 1'-0"

MOLNAR, JORDAN
& ASSOCIATES, INC.
Consulting Engineers
FLORIDA COA #: 26750
21 VICKERY STREET
BOSTON, MA 02108
Phone (770) 992-3077

KUO
DIEDRICH
CHI
730 PEACHTREE STREET, NE
STUDIO 325
ATLANTA, GEORGIA 30308
678.244.6270
www.KDCarchitects.com

ARCHITECT:

CONSULTANT:

ANTHONY J. SALVATORE
LICENSED PROFESSIONAL ENGINEER
FLORIDA
11/15/25

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PROJECT:

SERENITY SEASIDE
RESORT

BUILDING #3
BEACH
CLUB

186 SOUTH BAY
SHORE DRIVE,
EASTPOINT, FL
32328

Serenity Seaside
Operations, LLC
174 Watercolor Way, PMB 410
Santa Rosa Beach, Florida 32459

JOB NUMBER: 23019.3

DATE: --/------

TITLE:

ROOF PLAN
MECHANICAL

SHEET:

M102