FIELD FABRICATED DUCT SYSTEMS:

9. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL RIGGING, HANDLING, AND PROTECTION OF MATERIALS. MATERIALS SHALL BE PROTECTED FROM WEATHER AND CONSTRUCTION DEBRIS.

11. THE CONTRACTOR IS RESPONSIBLE FOR ALL WORK, MATERIALS, AND LABOR TO SATISFY A

12. ALL MECHANICAL WORK IS TO BE PERFORMED IN ACCORDANCE WITH RECOGNIZED ACCEPTABLE PRACTICES (SMACNA, ASHRAE, NFPA) AND SHALL BE IN COMPLIANCE WITH ALL NATIONAL, STATE, AND LOCAL CODES HAVING GOVERNING AUTHORITY.

13. ALL EQUIPMENT AND MATERIALS SHALL BE AS SPECIFIED. NO SUBSTITUTIONS ARE PERMITTED WITHOUT APPROVAL BY THE ENGINEER. SUBSTITUTIONS FOR FINISHES AND OTHER AESTHETIC ITEMS SHALL BE APPROVED BY THE ARCHITECT AND/OR INTERIOR DESIGNER.

14. DO NOT SCALE THIS DRAWING FOR EXACT DIMENSIONS. VERIFY ALL FIGURES, CONDITIONS, AND DIMENSIONS AT THE JOB SITE AND REPORT ISSUES BEFORE BEGINNING WORK. 15. UPON COMPLETION OF THE PROJECT AND AFTER THE SITE HAS BEEN CLEANED, THE

CONTRACTOR SHALL PROVIDE ALL HVAC EQUIPMENT WITH CLEAN FILTERS.

THE CONTRACTOR SHALL SECURE ALL PERMITS OR APPLICATIONS AND PAY ANY AND ALL FEES PERTAINING TO THE CONTRACT. 2. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH 2018 IMC AND 2015 IECC, INCLUDING

ALL CURRENT STATE AND LOCAL AMENDMENTS. 1.3 SHOP DRAWINGS, SUBMITTALS, & AS-BUILTS

CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND ANNOTATED EQUIPMENT CUT SHEETS TO THE ENGINEER FOR APPROVAL PRIOR TO STARTING ANY WORK. ALL SUBMITTALS SHALL BE PROVIDED ELECTRONICALLY IN PDF FORMAT. SUBMITTALS SHALL BE PROVIDED IN NO MORE THAN FOUR 4) SEPARATE PACKAGES AS INDICATED BELOW. SMALL PACKAGES OF INDIVIDUAL SUBMITTALS BROKEN OUT BY SPECIFICATION SECTION WILL BE REJECTED WITHOUT REVIEW. PACKAGES SHALL BE AS FOLLOWS OR FEWER:

PRIMARY HEATING & COOLING EQUIPMENT, CURBS, & CONTROLS. SECONDARY EQUIPMENT: FANS, HEATERS, LOUVERS, ETC. AIR DEVICES, DUCTWORK, DAMPERS, & ACCESSORIES

SHOP DRAWINGS FOR FIELD FABRICATION. TYPICAL REVIEW TIME FOR SUBMITTALS IS FIVE (5) BUSINESS DAYS. SUBMITTALS LARGER THAN 100 PAGES MAY TAKE UP TO TEN (10) BUSINESS DAYS. SUBMITTALS POSTED WITH SHORTER REVIEW TIMES OR DUE DATES THAN THOSE LISTED HERE WILL BE REJECTED WITHOUT REVIEW.

UPON COMPLETION OF CONSTRUCTION CONTRACTOR SHALL SUPPLY THE OWNER WITH (1) COMPLETE SET OF ELECTRONIC AS-BUILT DOCUMENTS AT CONTRACTOR'S EXPENSE AND (1) COMPLETE SET OF OPERATIONS AND MAINTENANCE MANUALS.

2.0 PRODUCTS

2.1 DUCT EXCEPT AS OTHERWISE SHOWN OR NOTED, ALL SUPPLY, RETURN, AND EXHAUST DUCT SHALL BE GALVANIZED SHEET STEEL. THE DUCT SHALL BE CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH SMACNA DUCT CONSTRUCTION STANDARDS.

2. ALL DUCT SHALL BE DESIGNED TO LOW PRESSURE & VELOCITY CLASSIFICATIONS, UNLESS SPECIFIED OTHERWISE. (MAXIMUM 2% ALLOWABLE LEAKAGE)

ALL DUCT BETWEEN AN AIR HANDLER AND A TERMINAL UNIT (VAV, FPB, PIU, ETC) AND DUCTS CONCEALED IN CHASES SHALL BE DESIGNED TO MEDIUM PRESSURE & VELOCITY CLASSIFICATIONS (MAXIMUM 1% ALLOWABLE LEAKAGE).

SUPPLY DUCT TO BE RECTANGULAR WITH HEMMED "S" LONGITUDINAL SEAMS AND DUCT MATE TRANSVERSE JOINTS OR ROUND (SPIRAL WOUND) WITH LOCKING SEAMS.

5. ALL DUCTS ROUTED EXPOSED IN OCCUPIED SPACE SHALL BE DOUBLE WALL SPIRAL TYPE DUCT WITH 1" THICK (R-4.2) INTERNAL INSULATION UNLESS OTHERWISE INDICATED. 6. ALL DUCT JOINTS TO BE SEALED IN ACCORDANCE WITH "SMACNA" DUCT CONSTRUCTION

STANDARDS AND ACCEPTED PRACTICE.

7. ALL DUCT DIMENSIONS SHOWN REPRESENT INSIDE FREE AREA. DUCT DIMENSIONS MAY BE CHANGED SO LONG AS THE NET FREE AREA INSIDE THE DUCT IS MAINTAINED.

ANY PORTION OF DUCT WHICH IS VISIBLE THROUGH GRILLES AND REGISTERS SHALL BE PAINTED

DURING CONSTRUCTION PROVIDE TEMPORARY CLOSURES OF METAL OR TAPED POLYETHYLENE ON ALL OPEN DUCTS TO PREVENT CONSTRUCTION DUST FROM ENTERING DUCT SYSTEM. 10. ELBOW FITTINGS

A. ROUND DUCT ELBOWS SHALL BE STAMPED TYPE FITTINGS WITH RADIUS EQUAL TO 1.5 TIMES THE DIAMETER.

B. RECTANGULAR DUCTS WITH ROUND ELBOWS SHALL HAVE SMOOTH RADIUS TURNS WITH RADIUS EQUAL TO 1.5 TIMES THE DIAMETER.

C. RECTANGULAR DUCTS WITH MITERED ELBOWS SHALL HAVE TURNING VANES.

2.2 DUCT ACCESSORIES

 BRANCH TAKEOFFS A. TAKEOFFS WITH "SCOOP" TYPE FITTINGS ARE PROHIBITED.

B. OPENINGS IN TRUNK DUCT MUST BE CUT TO THE FULL SIZE OF THE TAKEOFF.

2. MANUAL VOLUME DAMPERS

A. PROVIDE ALL LOW PRESSURE SUPPLY AND EXHAUST BRANCH DUCTS WITH VOLUME DAMPERS. MEDIUM PRESSURE DUCT SHALL NOT HAVE VOLUME DAMPERS.

MANUAL VOLUME DAMPERS ON ALL DUCTS 16" WIDE AND 8" TALL OR SMALLER MAY BE SINGLE BLADE OR BUTTERFLY TYPE. MANUAL VOLUME DAMPERS ON DUCTS LARGER THAN 16" WIDE OR 8" TALL IN EITHER DIMENSION SHALL BE MULTIPLE BLADE OPPOSED ACTION TYPE WITH MAXIMUM BLADE WIDTH OF 6".

C. PROVIDE DAMPERS WITH LOCKING QUADRANTS.

D. FOR DAMPERS ON INSULATED DUCTS, PROVIDE DAMPERS WITH 2" STANDOFF.

E. ALL DAMPERS LEVERS MUST BE ACCESSIBLE FOR TEST & BALANCE. PROVIDE ACCESS DOORS OR REMOTE CABLE OPERATION WHERE CEILINGS OR WALLS PREVENT ACCESS FOR RAI ANCING.

3. FIRE & SMOKE DAMPERS

PARTITION.

A. CONTRACTOR SHALL PROVIDE AND INSTALL APPROVED FIRE DAMPERS AND ACCESS PANELS IN ANY AND ALL DUCT WHICH PENETRATES A HORIZONTAL OR VERTICAL FIRE

B. CONTRACTOR SHALL PROVIDE AND INSTALL APPROVED SMOKE DAMPERS AND ACCESS PANELS IN ANY AND ALL DUCT WHICH PENETRATES A HORIZONTAL OR VERTICAL SMOKE

C. CONTRACTOR SHALL PROVIDE AND INSTALL APPROVED COMBINATION FIRE-SMOKE DAMPERS AND ACCESS PANELS IN ANY AND ALL DUCT WHICH PENETRATES A TWO-HOUR RATED VERTICAL SHAFT.

D. ALL SMOKE DAMPERS SHALL BE INTERLOCKED WITH THE FIRE ALARM SYSTEM TO ACTUATE THE DAMPER UPON DETECTION OF SMOKE.

E. ALL FIRE DAMPERS SHALL BE "FRAME B" TYPE WHERE THE BLADES DO NOT OBSTRUCT

4. ACCESS DOORS SHALL BE PROVIDED IN DUCTS, WALLS, AND/OR CEILINGS WHEREVER REQUIRED SO THAT CONTROLS, CONTROL DAMPERS, FIRE DAMPERS, COILS, INSTRUMENTS, ETC ARE ACCESSIBLE FOR INSPECTION AND MAINTENANCE.

2.3 FLEXIBLE DUCT

1. FLEXIBLE EQUIPMENT CONNECTIONS

HVAC UNIT FLEXIBLE DUCT CONNECTIONS SHALL BE A MINIMUM OF 6 INCHES LONG AND HELD IN PLACE WITH HEAVY METAL BANDS, SECURELY ATTACHED TO PREVENT ANY LEAKAGE AT THE CONNECTION POINTS. FLEXIBLE CONNECTIONS SHALL BE FABRICATED FROM APPROVED FLAME PROOF FABRIC CONFORMING TO NFPA 90A.

2. FLEXIBLE TYPE DUCT SHALL CONSIST OF AN AIR TIGHT INNER CORE COMPOSED OF A CPE POLYMERIC FILM ENCAPSULATING A CORROSION RESISTANT METAL SUPPORTING SPIRAL. THE INNER CORE SHALL BE WRAPPED IN A FIBERGLASS INSULATION AND SHEATHED IN A REINFORCED

METALLIZED POLYESTER JACKET. EQUAL TO ATCO UPC #039. FLEXIBLE DUCT CONNECTORS SHALL BE LISTED BY U.L. AS CLASS 1 DUCTS AND SHALL

HAVE A FLAME SPREAD RATING NOT EXCEEDING 25 AND A SMOKE DEVELOPED RATING NOT EXCEEDING 50. INSTALLATION: MAXIMUM LENGTH OF FLEX SHALL NOT EXCEED FIVE FEET ON ANY RUNOUT. CONTRACTOR SHALL NOT KINK, CRIMP, OR PINCH FLEXIBLE DUCT IN A WAY WHICH

iii. FLEXIBLE DUCT SHALL NOT HAVE A BEND GREATER THAN 90° FLEXIBLE DUCT SHALL NOT BE USED FOR RETURN OR EXHAUST DUCT SYSTEMS WITHOUT WRITTEN APPROVAL FROM ENGINEER.

1. DUCTS SERVING COOKING APPLIANCES, TYPE I, OR TYPE II HOODS

2.4 GREASE LADEN AND KITCHEN EXHAUST DUCT

REDUCES THE INTERNAL FREE AREA OF THE DUCT

i. SHALL BE MINIMUM 16 GAUGE CARBON STEEL OR 18 GAUGE STAINLESS STEEL WITH JOINTS WELDED LIQUID TIGHT. ALL INTERNALLY WELDED JOINTS ARE TO BE GROUND

SHALL BE WRAPPED WITH TWO LAYERS OF 1.5" THICK FIRE RATED DUCT WRAP (FYREWRAP ELITE, 3M 615+, OR EQUAL) TO ACHIEVE A RATING OF ZERO CLEARANCE O COMBUSTIBLES

SMOOTH AND PROVIDED ACCESS FOR INSPECTION (INTERNAL WELDS ONLY).

iii. SHALL BE FABRICATED IN ACCORDANCE WITH NFPA 96 AND SMACNA DUCT CONSTRUCTION STANDARDS — METAL AND FLEXIBLE.

PRE-FABRICATED DUCT SYSTEMS: SHALL BE DOUBLE-WALL STAINLESS STEEL DUCT AND CARRY A RATING OF ZERO CLEARANCE TO COMBUSTIBLES. SHALL BE LISTED FOR COMPLIANCE WITH NFPA 96, UL 2221, UL 1978, AND ASTM iii. SYSTEMS SHALL BE BY ENERVEX, CAPTIVE AIRE, SCHEBLER, OR APPROVED EQUAL. iv. CONTRACTOR SHALL BE CERTIFIED BY THE MANUFACTURER TO INSTALL THIS SYSTEM

TO MAINTAIN ALL LISTINGS AND WARRANTIES. ALL HORIZONTAL DUCT SERVING TYPE I GREASE HOODS SHALL SLOPE BACK TO HOOD OR TO A LOW POINT WITH A GREASE RESERVOIR IN ACCORDANCE WITH SECTION 506.3 OF

PROVIDE CLEANOUTS IN GREASE DUCTS AS REQUIRED PER NFPA 96 AND SECTION 506.3 OF THE IMC. PROVIDE ACCESS DOORS IN WALLS OR CEILINGS IF REQUIRED TO ACCESS

PROVIDE RESIDUE TRAPS IN KITCHEN HOOD EXHAUST DUCTS AT BASE OF VERTICAL

RISERS WITH PROVISIONS FOR A CLEAN OUT. DUCT SERVING DISHWASHING MACHINES OR DISH AREAS:

A. SHALL BE STAINLESS STEEL WITH SEAMS SEALED LIQUID TIGHT.

B. DUCT SHALL SLOPE BACK TO DISHWASHER AT 1/8" PER 1'-0".

FABRICATE DUCTS IN ACCORDANCE WITH NFPA 96 AND SMACNA DUCT CONSTRUCTION STANDARDS

PROVIDE ALL NECESSARY TEMPORARY OR PERMANENT CAPS OR PLUGS FOR PIPING. DO NOT LEAVE PIPING OPEN ENDED.

2. DIELECTRIC UNIONS AND COUPLINGS SHALL BE USED WHERE DISSIMILAR METALS ARE JOINED.

REFRIGERANT PIPING: CONTRACTOR SHALL PROVIDE AND INSTALL REFRIGERANT PIPING IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS, ASHRAE STANDARDS, ARI STANDARDS AND IN

SUCH A WAY AS TO BE INCONSPICUOUS AND FREE FROM CONDENSATION. PIPING SHALL BE TYPE "K" COPPER TUBING, OR TYPE ACR DRAWN COPPER TUBING WITH

WROUGHT COPPER FITTINGS AND BRAZED JOINTS.

C. PIPING INSTALLED WITHIN STUD WALLS WILL REQUIRE SHIELD PLATES PER CODE. REFRIGERANT PIPING PENETRATING TWO OR MORE FLOOR CEILING ASSEMBLIES WILL

REQUIRE A RATED AND VENTILATED CHASE. 4. DRAINAGE PIPING (CONDENSATE):

> A. SHALL BE SCHEDULE 40 PVC PIPE WITH SOLVENT JOINTS. DRAINS ROUTED WITHIN PLENUM SPACES SHALL BE CPVC OR COPPER.

B. CONDENSATE DRAINS SHALL BE ROUTED TO SPILL ONTO GRADE, DRAIN INDIRECTLY INTO THE SANITARY SEWER SYSTEM, OR SPILL ONTO ROOF. WHERE APPLICABLE, DRAINS SHALL BE ROUTED A MINIMUM 6 FEET AWAY FROM ROOFTOP AIR HANDLERS.

2.6 INSULATION

1. ALL SUPPLY, RETURN, & OUTSIDE AIR DUCTS SHALL BE EXTERNALLY INSULATED AS FOLLOWS:

PER THE 2015 IECC A. EXTERIOR OR VENTILATED ATTIC: R-8

UNCONDITIONED SPACE: R-6 INDIRECTLY CONDITIONED SPACE: R-4.2, SEE NOTE (2) BELOW.

ALL DUCTS ROUTED EXPOSED IN OCCUPIED SPACE SHALL BE DOUBLE WALL SPIRAL TYPE DUCT WITH 1" THICK (R-4.2) INTERNAL INSULATION UNLESS OTHERWISE NOTED.

ALL INSULATION SHALL HAVE A FLAME SPREAD RATING OF 25 OR LESS AND A SMOKE DEVELOPED RATING OF 50 OR LESS IN ACCORDANCE WITH ASTM E84 AND NFPA 90A.

INTERIOR DUCTS SHALL BE INSULATED WITH FIBERGLASS INSULATING BLANKET WITH ALUMINUM FOIL FACING. SECURE WITH ADHESIVE APPLIED DIRECTLY TO THE DUCT IN 4 INCH WIDE STRIPS AROUND THE DUCT ON 12 INCH CENTERS AND TAPE ALL JOINTS. A CONTINUOUS VAPOR BARRIER MUST BE MAINTAINED. NO OPEN ENDS, RIPS, OR TEARS IN THE FOIL FACING ARE

4. ALL SUPPLY AND RETURN DUCT DOWNSTREAM OF AN HVAC UNIT SHALL BE INTERNALLY LINED FOR THE FIRST 15 FEET WITH A 1" THICK, 3# DENSITY ACOUSTICAL DUCT LINER. ACOUSTICAL DUCT LINING SHALL BE OWENS-CORNING AEROFLEX TYPE 300 OR EQUAL / CLOSED CELL ELASTOMERIC TYPE INSULATION EQUAL TO ARMAFLEX COMPLYING WITH FIRE CLASSIFICATION REQUIREMENTS OF NFPA 90A AND 90B. ADHERE LINER TO DUCT WITH FIRE RESISTANT ADHESIVE AND WELDED PIN TYPE MECHANICAL FASTENERS AS INDICATED IN SMACNA STANDARDS ACOUSTICALLY LINED DUCT DIMENSIONS SHOWN ON DRAWINGS ARE INSIDE CLEAR DIMENSIONS. SHEET METAL DIMENSIONS SHALL BE INCREASED TO ACCOMMODATE LINING THICKNESS. ACOUSTICALLY LINED DUCTS MUST STILL BE EXTERNALLY INSULATED.

REFRIGERATION SUCTION AND HOT GAS BY-PASS PIPING SHALL BE INSULATED WITH 1 INCH THICK ARMSTRONG "ARMAFLEX" OR EQUAL. EXTERIOR INSULATION SHALL BE COATED WITH ULTRAVIOLET RESISTANT MATERIAL IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. DO NOT INSULATE THE LIQUID LINE.

CONDENSATE DRAIN PIPING SHALL BE INSULATED WITH 3/4 INCH THICK ARMSTRONG "ARMAFLEX" OR EQUAL. EXTERIOR INSULATION SHALL BE COATED WITH ULTRAVIOLET RESISTANT MATERIAL IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

EXPOSED EXTERIOR DUCT SHALL BE INSULATED WITH 2" THICK RIGID FIBERGLASS BOARD INSULATION. THE INSULATED DUCT SHALL BE WRAPPED WITH:

A CANVASS JACKET AND THE JACKET SHALL BE COVERED WITH A WEATHER RESISTANT

B. VENTURECLAD ZERO PERMEABILITY JACKETING SYSTEM.

HORIZONTAL ELBOW.

SUPPORT ALL DUCT, PIPING, AND EQUIPMENT FROM STRUCTURE. DO NOT SUPPORT FROM

OTHER DUCT, PIPING, CONDUIT, ETC. ALL DUCT, PIPING, AND EQUIPMENT SHALL BE SUPPORTED WITH HANGERS DESIGNED FOR THAT PURPOSE. THE USE OF WIRE, METAL STRAP, OR OTHER IMPROVISED ITEMS IS NOT PERMITTED.

"C" CLAMPS SHALL NOT BE USED UNLESS TACK WELDED OR STRAPPED TO STRUCTURAL STEEL

USE MATERIALS WHICH AVOID ELECTROLYTIC ACTION AND CONFORM TO ANSI/ASME B31, NFPA, MSS SP-58, 69, 89.

SUPPORT ALL DUCT WITH HANGERS, SUPPORTS, AND ANCHORS PER SMACNA. SUPPORT ALL PIPING WITH HANGERS, SUPPORTS, ANCHORS PER ANSI CODE FOR PRESSURE

PIPING, ANSI B31.1 WITH ADDENDA 31.1 OA-69. PIPE HANGERS SHALL BE SPACED SO AS TO PREVENT SAG AND PERMIT PROPER DRAINAGE AND SHALL NOT BE SPACED MORE THAN EIGHT FEET APART (FOUR FEET FOR PLASTIC PIPE) UNLESS NOTED OTHERWISE ON THE DRAWINGS. A HANGER SHALL BE PLACED WITHIN (1) FOOT OF EACH

2.8 EQUIPMENT

1. THESE PLANS ARE DIAGRAMMATIC AND ARE BASED ON ONE MANUFACTURER'S EQUIPMENT. THE PLANS ARE NOT INTENDED TO SHOW EVERY ITEM IN ITS EXACT LOCATION, THE EXACT DIMENSIONS, CONNECTION POINTS, OR ALL THE DETAILS OF THE EQUIPMENT. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, CLEARANCES, AND CONNECTION POINTS FOR THE ACTUAL EQUIPMENT INTENDED TO BE INSTALLED.

2. ALL EQUIPMENT SHALL BE INSTALLED PER THE MANUFACTURER'S WRITTEN INSTALLATION

PROVIDE ALL HANGERS AND SUPPORTS AS REQUIRED FOR A COMPLETE INSTALLATION.

4. PROVIDE PRE-FILTER MEDIA FOR ALL AIR HANDLING EQUIPMENT PRIOR TO START OF WORK. UPON COMPLETION OF THE PROJECT AND AFTER THE SITE HAS BEEN CLEANED, THE CONTRACTOR SHALL PROVIDE ALL HVAC EQUIPMENT WITH CLEAN FILTERS.

2.9 CONTROLS

CONTRACTOR SHALL PROVIDE ALL SENSORS, CONTROLLERS, CONTROL PANELS, VALVES, DAMPERS, ACTUATORS, WIRING, TUBING, STEP-DOWN TRANSFORMERS & ANY OTHER ACCESSORIES AS REQUIRED TO MEET THE INTENT OF THESE DOCUMENTS.

ALL THERMOSTATS AND OTHER WALL MOUNTED SENSORS SHALL BE MOUNTED AT 60"AFF EXCEPT WHERE MANUFACTURER'S INSTALLATION INSTRUCTIONS ARE EXPLICIT OR WHERE ADA RESTRICTIONS REQUIRE MOUNTING HEIGHTS OF 48"AFF.

3. PROVIDE AN INSULATED STANDOFF WALL PLATE FOR TEMPERATURE SENSING DEVICES INSTALLED ON EXTERIOR WALLS.

3.1 MECHANICAL EQUIPMENT AND PIPING IDENTIFICATION

PROVIDE IDENTIFICATION OF ALL PIPES, VALVES, AND EQUIPMENT. INCLUDE THE FOLLOWING: A. PLASTIC PIPE MARKERS B. VALVE TAGS AND EQUIPMENT TAGS

C. VALVE SCHEDULE

CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR BEFORE ORDERING EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL

EQUIPMENT AT THE PROPER VOLTAGE AND PHASE. 3.3 FIRE PROTECTION

WHERE CONDUIT, CABLES, DUCT OR PIPING PASSES THROUGH FIRE RATED FLOORS OR WALLS, THE SLEEVES SHALL BE COMPLETELY SEALED WITH A FIRE STOP MATERIAL THAT IS UL LISTED AND ACCEPTED BY THE BUILDING DEPARTMENT AND FIRE DEPARTMENT AS BEING SUITABLE FOR THIS SERVICE SUCH AS DOW CORNING CORP., SILICONE ELASTOMER, DOW CORNING 3-6548 SILICONE RTV FOAM, OR APPROVED EQUAL, THIS MATERIAL SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE MANUFACTURER TO MAINTAIN THE FIRE RATING OF THE PENETRATED WALL OR FLOOR.

ALL HVAC SYSTEMS SUPPLYING 2000 CFM OR MORE SHALL HAVE A SMOKE DETECTOR LOCATED IN THE SUPPLY AIR DUCT. IF RE-USING EXISTING EQUIPMENT. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LOCATION AND CONDITION OF THE EXISTING SMOKE DETECTOR AND REPORT ISSUES TO THE ENGINEER BEFORE BEGINNING WORK.

3.4 PENETRATIONS

<u>5.5 TESTING AND BALANCING</u>

ALL PIPING PENETRATIONS OF BUILDING FOUNDATIONS OR FOOTINGS SHALL BE SLEEVED.

2 ALL EXTERIOR PENETRATIONS TO BE FLASHED, CAULKED, AND SEALED TO PREVENT INFILTRATION OF AIR AND WATER.

CONTRACTOR SHALL COORDINATE ALL ROOF WORK WITH THE ROOFER.

CONTRACTOR SHALL BE RESPONSIBLE FOR ALL BEAM OR FOOTING PENETRATIONS AS IT RELATES TO HIS WORK. CONTRACTOR SHALL SUBMIT SIZE AND LOCATION TO THE STRUCTURAL ENGINEER FOR REVIEW AND DETAIL, PRIOR TO COMMENCING WORK AND ORDERING MATERIALS AND EQUIPMENT.

CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CORING AND STRUCTURAL PENETRATIONS AS IT RELATES TO HIS WORK. CONTRACTOR SHALL COORDINATE ALL SUCH PENETRATIONS WITH THE STRUCTURAL ENGINEER PRIOR TO COMMENCING WORK OR ORDERING MATERIALS AND EQUIPMENT.

THE HVAC SYSTEM SHALL BE TESTED, ADJUSTED, AND BALANCED BY A TESTING FIRM INDEPENDENT FROM THE INSTALLING CONTRACTOR. THE TAB FIRM AND ALL TECHNICIANS ON THIS PROJECT SHALL BE CERTIFIED BY AABC. NEBB. OR TABB. INDUSTRY STANDARD AABC NEBB, TABB, OR SMACNA GUIDELINES AND REPORTS SHALL BE FOLLOWED. A SEALED TYPE WRITTEN REPORT SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER FOR REVIEW AND

THE CONTRACTOR SHALL PROVIDE ALL LABOR AND EQUIPMENT REQUIRED TO BALANCE ALL AIR AND HYDRONIC SYSTEMS IN ACCORDANCE WITH QUANTITIES SHOWN. ALL EQUIPMENT THAT AFFECTS TEMPERATURE OR FLOW SHALL BE INCLUDED IN THE REPORT.

SUCCESSFULLY PRESSURE TEST ALL NEW OR MODIFIED PIPING SYSTEMS, TEST SHALL BE PERFORMED AT NORMAL SYSTEM OPERATING PRESSURES. REPAIR AND RETEST AS REQUIRED UNTIL SYSTEMS PROVE TIGHT.

TEST & BALANCE CONTRACTOR TO NOTIFY THE ENGINEER OF FIELD CONDITIONS WHICH MAY NOT ALLOW INDICATED AIRFLOWS TO BE ACHIEVED OR WHICH MAY CAUSE A PROBLEM IF THE INDICATED AIRFLOWS ARE ACHIEVED.

3.6 GUARANTEE

1. ALL MATERIALS, EQUIPMENT, AND INSTALLATION SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR FROM DATE OF ACCEPTANCE. DEFECTS WHICH APPEAR DURING THAT PERIOD SHALL

FOR THE SAME PERIOD, THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ANY

DAMAGE TO PREMISES CAUSED BY DEFECTS IN WORKMANSHIP OR IN THE WORK OR EQUIPMENT

BE CORRECTED AT CONTRACTOR'S EXPENSE.

FURNISHED AND/OR INSTALLED BY HIM.

\_ \_ \_ \_ EXIS1 EXISTING EQUIPMENT / DUCT EQUIPMENT / DUCT TO DEMOLISH \_ \_ \_ \_ \_ DEMO AIRFLOW QUANTITY SUPPLY DUCT **→**1 FORCED AIR FLOW RETURN DUCT **-**~-INDUCED AIR FLOW EXHAUST DUCT SWITCH WALL SWITCH MECHANICAL ABBREVIATIONS FAN COIL UNIT AIR CONDITIONER PHASE PREHEAT COIL ABOVE CEILING FIRE DAMPER ACCESS DOOR FULL LOAD AMPS POUNDS PER SQUARE INCH ADJ ADJUSTABLE FAN POWER BOX PSIA PSI ABSOLUTE ABOVE FINISHED FLOOR FIRE/SMOKE DAMPER PSIG PSI GAUGE REHEAT AIR HANDLING UNIT NATURAL GAS BACKDRAFT DAMPER RETURN AIR RETURN AIR DAMPER BOD BOTTOM OF DUCT GALLONS BTU BRITISH THERMAL UNIT GALLONS PER HOUR RETURN AIR FAN BTU PER HOUR GALLONS PER MINUTE RETURN AIR GRILLE COOLING COIL HEATING COIL RETURN AIR OPENING CONDENSATE DRAIN RELATIVE HUMIDITY HORSEPOWER CENTR HOT WATER CENTRIFUGAL REHEAT COIL CFM CUBIC FEET PER MINUTE HEAT EXCHANGER REVOLUTIONS PER MINUTE CHILLER INTERLOCK ROOF TOP UNIT CHILLED WATER PUMP INCHES SUPPLY AIR INTERGRATED PART-LOAD VALUE CHILLED WATER RETURN SUPPLY AIR GRILLE CHILLED WATER SUPPLY KITCHEN EXHAUST FAN SMOKE DAMPER CRD SEF CEILING RADIATION DAMPER KW KILOWATT SMOKE EXHAUST FAN CONDENSER WATER PUMP LEAVING AIR TEMPERATURE SMOKE DETECTOR CWR CONDENSER WATER RETURN LEAVING WATER TEMPERATURE SUPPLY FAN CWS CONDENSER WATER SUPPLY MIXED AIR STATIC PRESSURE STAIRWELL PRESSURIZATION FAN COOLING TOWER MAXIMUM TEMPERATURE DRY BULB MAKE-UP AIR UNIT DEG ONE THOUSAND BTUH DEGREE TRANSFER FAN MINIMUM CIRCUIT AMPS TRANSFER GRILLE DIRECT EXPANSION COOLING MINIMUM TSTAT THERMOSTAT EXHAUST AIR MOCP MINIMUM OVERCURRENT PROTECTION TYPICAL EAT MOD UNO UNLESS NOTED OTHERWISE ENTERING AIR TEMPERATURE MOTOR OPERATED DAMPER VOLTS ELECTRIC DUCT HEATER MANUAL VOLUME DAMPER EXHAUST FAN MAKE UP VARIABLE AIR VOLUME VFD EFFICIENCY NOT TO SCALE VARIBLE FREQUENCY DRIVE

OUTSIDE AIR

PUMP

OUTSIDE AIR DAMPER

PRESSURE DROP

OAD

EXTERNAL STATIC PRESSURE

EXISTING

**FAHRENHEIT** 

EXIST

ENTERING WATER TEMPERATURE

MECHANICAL LEGEND TSTAT SUPPLY DUCT UP THERMOSTAT REMOTE TEMPERATURE SENSOR RETURN DUCT UP SENSOR CARBON DIOXIDE SENSOR EXHAUST DUCT UP DUCT/PIPE UP HSTAT HUMIDITY SENSOR DUCT/PIPE DN 4-WAY SUPPLY DIFFUSER TRNS TRANSITION 3-WAY SUPPLY DIFFUSER SQUARE TO ROUND TRANSITION 2-WAY SUPPLY DIFFUSER 1-WAY SUPPLY DIFFUSER MANUAL VOLUME DAMPER RETURN GRILLE EXHAUST GRILLE FIRE DAMPER MOTOR OPERATED DAMPER CONT CONTINUATION BACKDRAFT DAMPER OPEN DUCT END \_\_\_\_ \_\_\_\_ZD-1 ZONE DAMPER ELBOW WITH TURNING VANES NEW TO EXISTING CONNECTION NEW HVAC EQUIPMENT چ ا FLEX DUCT DIFFUSER LABEL - TYPE, SIZE, AND

WITH

WSHP

WATER GAGE

WATER SOURCE HEAT PUMP

186 SOUTH BAY SHORE DRIVE EASTPOINT, FL

JOB NUMBER: 23019.3

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This item has been digitally signed and sealed by Anthony J. Salvatore Jr., PE on the date adjacent to the seal. Printed copies of this ocument are not considered signed and sealed and the signature must be verified on any electronic copies.

REVISIONS

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**

32328

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

**MECHANICAL** 

DISCONNECT PROVIDED BY ELECTRICAL

PROVIDE SINGLE POINT ELECTRICAL CONNECTION. REFER TO ELECTRICAL DRAWINGS FOR ELECTRICAL CHARACTERISTICS, INCLUDING VOLTAGE & PHASE.

- 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. 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 ARCHTIECTURAL CHASES ARE NOT PROVIDED, THE CONTRACTOR SHALL PROVIDE REFRIGERANT ENCLOSURES EQUIAL TO FLAMEBAR. PIPING INSTALLED WITHIN NORMAL STUD WALLS WILL REQUIRE SHIELD PLATES.
- PROVIDE THERMOSTAT WITH 7-DAY PROGRAMMABLE SCHEDULE, UNOCCUPIED SETBACK, AND THE ABILITY TO CONTROL FAN & TEMPERATURE SYSTEMS SEPARATELY.
- 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. PROVIDE CONTINUOUS FAN OPERATION DURING OCCUPIED HOURS.
- PROVIDE FILTERS FOR UNIT, MINIMUM MERV 12 EFFICIENCY, 2" DEPTH (500 FPM MAX VELOCITY). 4. EVAPORATOR, CONDENSER, AND REHEAT COILS TO HAVE CORROSION PROTECTION COATING, POLYMER E—COATING OR APPROVED EQUAL.
- 5. PROVIDE WITH CONDENSER HAIL GUARDS.
- S. PROVIDE COMPRESSOR CYCLE DELAY, CRANKCASE HEATER, HIGH PRESSURE SWITCH, AND LOW PRESSURE SWITCH. 7. PROVIDE WITH LOW AMBIENT AND HEAD PRESSURE CONTROL KIT.
- 8. PROVIDE 1½" 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.
- 9. COOLING CAPACITIES AT AMBIENT CONDENSING TEMP OF 95°F.
- O. ELECTRIC HEATER INPUT LISTED IS NOMINAL SIZING. THE HEATER OUTPUT SCHEDULED (MBH) IS REQUIRED REGARDLESS OF VOLTAGE SELECTED.
- . PROVIDE WITH TWO STAGE COMPRESSOR AND VARIABLE SPEED INDOOR FAN FOR PART LOAD OPERATION.
- . PROVIDE AUTOMATIC SHUTDOWN CONTROL UTILIZING SMOKE DETECTORS IN THE 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.
- 3. 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	MANUFACTURER	MODEL	NOTES
EF-3-1	RESTROOMS	ROOF	DOWNBLAST	650	0.5	1/8	10.0	GREENHECK	G-120-VG	1-8
HEF-3-1	H00D-1	ROOF	UPBLAST	2,376	0.86	1.0	20.0	ACCUREX	XCUE-160-VG	1-6, 9, 10, 11
HEF-3-2	H00D-2	ROOF	UPBLAST	2,376	0.86	1.0	20.0	ACCUREX	XCUE-160-VG	1-6, 9, 10, 11
HEF-3-2		ROOF		2,376	0.86	1.0	-			

- 2. REFER TO ELECTRICAL DRAWINGS FOR ELECTRICAL CHARACTERISTICS, INCLUDING VOLTAGE & PHASE. WHERE REQUIRED, STARTER TO BE PROVIDED BY ELECTRICAL.
- . FAN OUTLET TO BE A MINIMUM OF TEN FEET FROM ANY OUTSIDE AIR INTAKE OR OPERABLE OPENING INTO THE BUILDING.

. FAN TO INCLUDE BACKDRAFT DAMPER AND VIBRATION ISOLATION KIT.

- . PROVIDE ELECTRONIC SPEED CONTROL.
- . PROVIDE INSULATED FACTORY ROOF CURB MINIMUM OF 14" HIGH.
- B. FAN TO RUN CONTINUOUSLY WHILE THE BUILDING IS OCCUPIED.
- 9. HOOD EXHAUST FANS: PROVIDE VENTILATED 18" TALL NFPA 96 COMPLIANT ROOF CURB WITH HINGED FAN. FAN OUTLET SHALL BE INSTALLED ABOVE PARAPET EDGE 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). 1.INTERLOCK WITH HOOD CONTROLLER. FAN SHALL MODULATE AIRFLOW AS REQUIRED BY HOOD CONTROLLER.

				KITCH	EN HO	DD MAK	(E-UP	AIR FA	N				
							PER	FORMANCE	CRITERIA				
MARK	SERVES		FAN			G	AS HEATIN	G		WEIGHT	CLIT DAGIC OF DECICAL		
MAIN	SLIVES	CFM	ESP	HP	INPUT (MBH)	OUTPUT (MBH)	EFF. %	EAT (°F)	LAT (°F)	WEIGHT (LBS)	BASIS OF DESIGN (ACCUREX)	NOTES	
MAU-3-1	H00D-3-1	3,802	0.68	2.0							XID-16-VG	1 THRU 7	

- DOWNFLOW UNIT. UNIT MOUNTED DISCONNECT PROVIDED BY ELECTRICAL
- PROVIDE SINGLE POINT ELECTRICAL CONNECTION. REFER TO ELECTRICAL DRAWINGS FOR ELECTRICAL CHARACTERISTICS, INCLUDING VOLTAGE & PHASE.
- PROVIDE WITH INTEGRAL MOTOR STARTER. PROVIDE WITH VARIABLE SPEED FAN (VFD OR ECM).
- INTERLOCK WITH HOOD CONTROLLER. FAN SHALL MODULATE AIRFLOW AS REQUIRED BY HOOD CONTROLLER.

			AIR DEVICE SCH	HEDULE					
MARK	TYPE	SERVICE	MANUFACTURER	MODEL	FACE SIZE	NECK SIZE	MAX NC	VOLUME DAMPER	NOTES
Α	CLG. DIFFUSER	SUPPLY	PRICE	SPD	24"x24"	VARIES	30	YES	1, 2
В	CLG. GRILLE	RETURN/EXHAUST	PRICE	PDDR	24"x24"	VARIES	30	NO	1, 2
С	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
Е	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. 4. SLOT TYPE AIR DEVICES SHALL BE 2 SLOTS EACH WITH 3/4 SLOT WIDTH, LENGTH OF EACH IS DEFINED ON PLANS. 5. 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

6. 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.

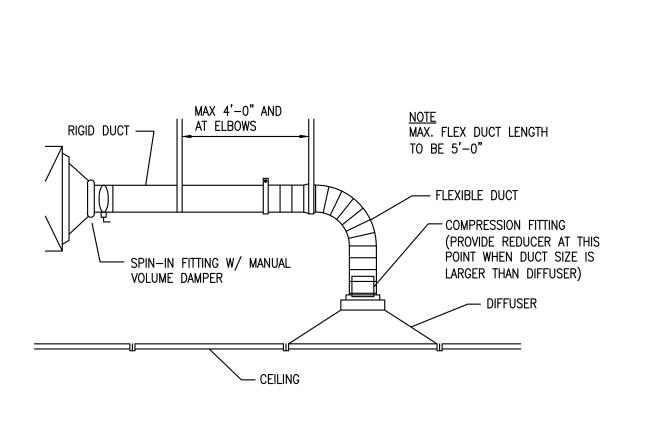
KITCHEN HOOD SCHEDULE								
MARK	CLASSIFICATION	PERFOR	RMANCE	MANUFACTURER	MODEL	REMARKS		
WIZINI	CLASSIFICATION	EXHAUST SUPPLY		MANOTACTORER	WODEL	NEMANIS		
H00D-3-1	TYPE I	2,376	1,991	ACCUREX	XBEW-121-S	1, 2		
H00D-3-2	TYPE I	2,376	1,811	ACCUREX	XBEW-121-S	1, 2		

. HOODS SPECIFIED BY OTHERS. SHOWN HERE FOR COORDINATION ONLY. 2. HOOD PROVIDED BY KITCHEN EQUIPMENT PROVIDER, INSTALLED BY MECHANICAL CONTRACTOR.

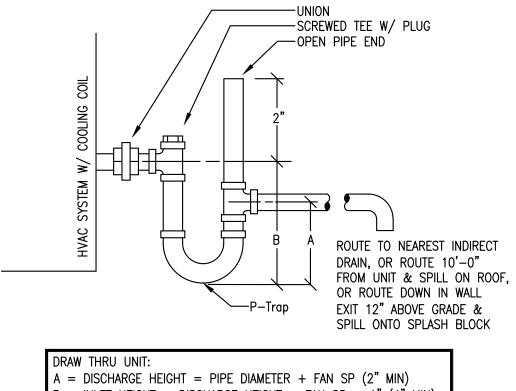
4. PROVIDE ALL NECESSARY ACCESSORIES FOR MOUNTING.

MARK	MANUFACTURER	MODEL	DUTY	LENGTH (IN)	WIDTH (IN)	THROAT AREA (SQ FT)	CFM	ΜΑΧ ΔΡ	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
RH-3-1	GREENHECK	FGR	RELIEF	20	36	5.00	4,000	0.089"	1, 2, 3, 4

			FAN	LICAT	MOUNTING	BASIS C		
MARK	SERVES	TYPE	FAN (CFM)	HEAT (KW)	HEIGHT (AFF)	MANUFACTURER	MODEL	NOTES
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

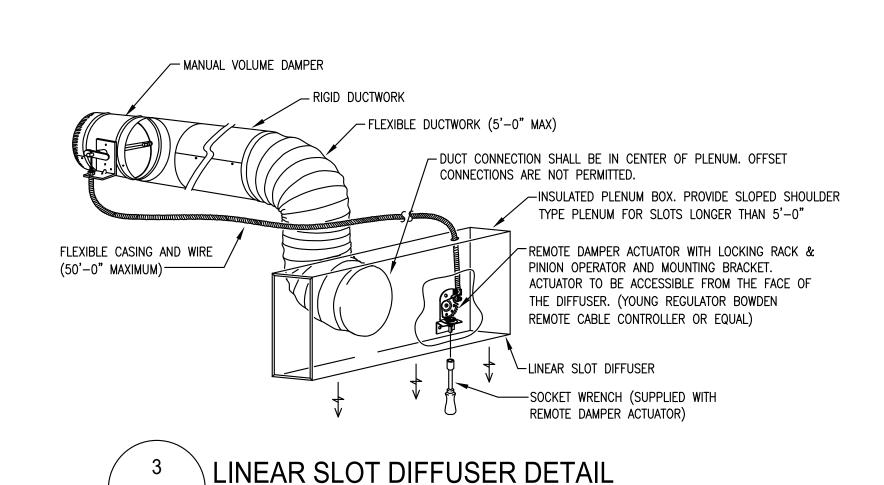






B = INLET HEIGHT = DISCHARGE HEIGHT + FAN SP + 1" (4" MIN) A = DISCHARGE HEIGHT = PIPE DIAMETER + FAN SP + 1" (4" MIN) B = INLET HEIGHT = DISCHARGE HEIGHT + FAN SP (2" MIN)

CONDENSATE P-TRAP DETAIL SCALE: NOT TO SCALE M001



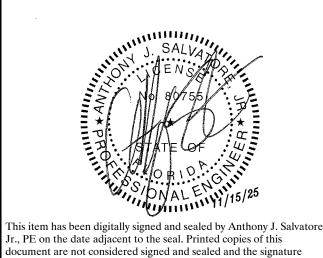
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ARCHITECT:

CONSULTANT:



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10/23/25 50% CONSTRUCTION DOCS

11/14/25 | PERMIT SET

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

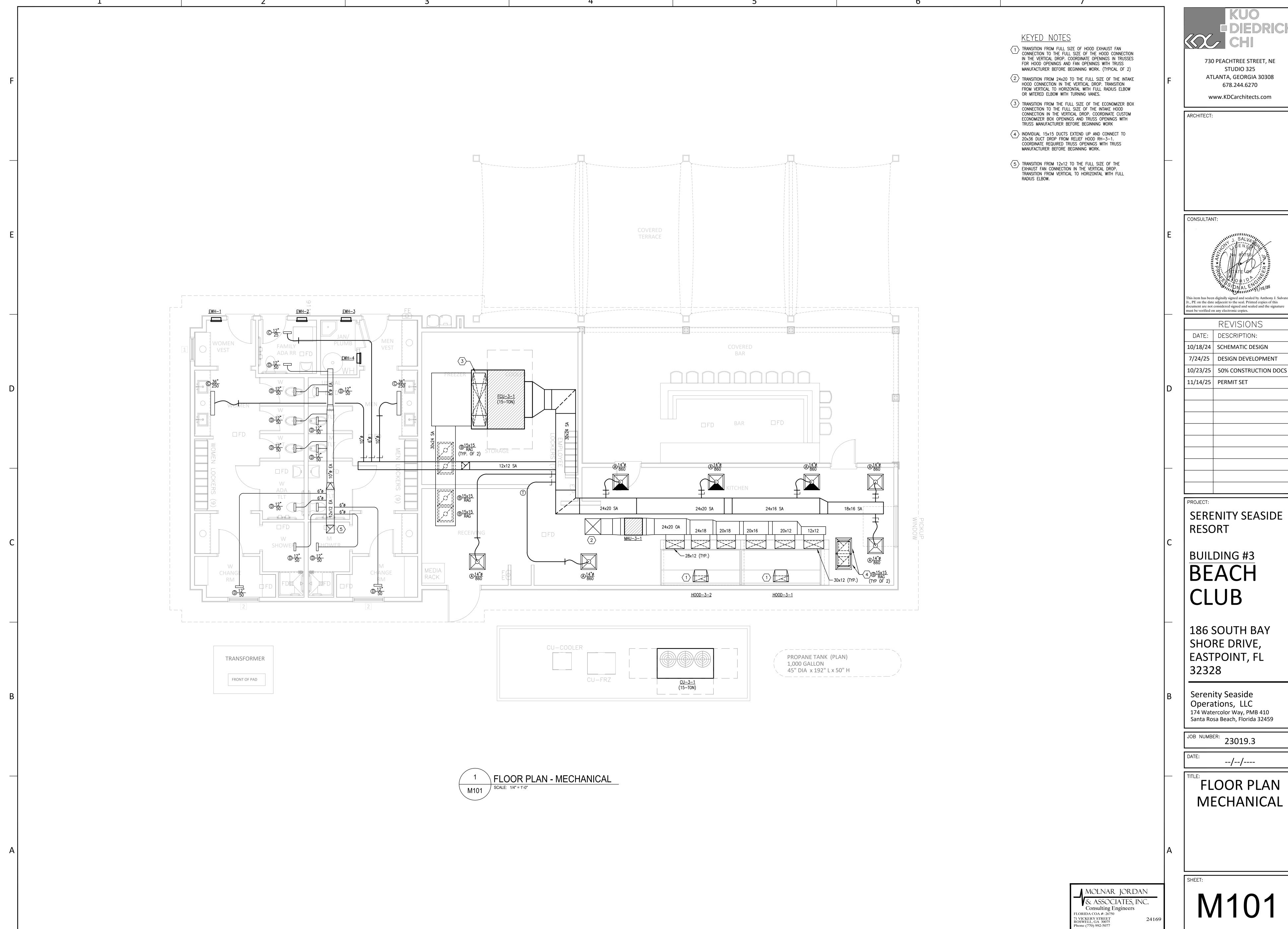
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**SCHEDULES** & DETAILS **MECHANICAL** 

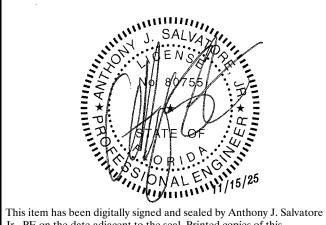
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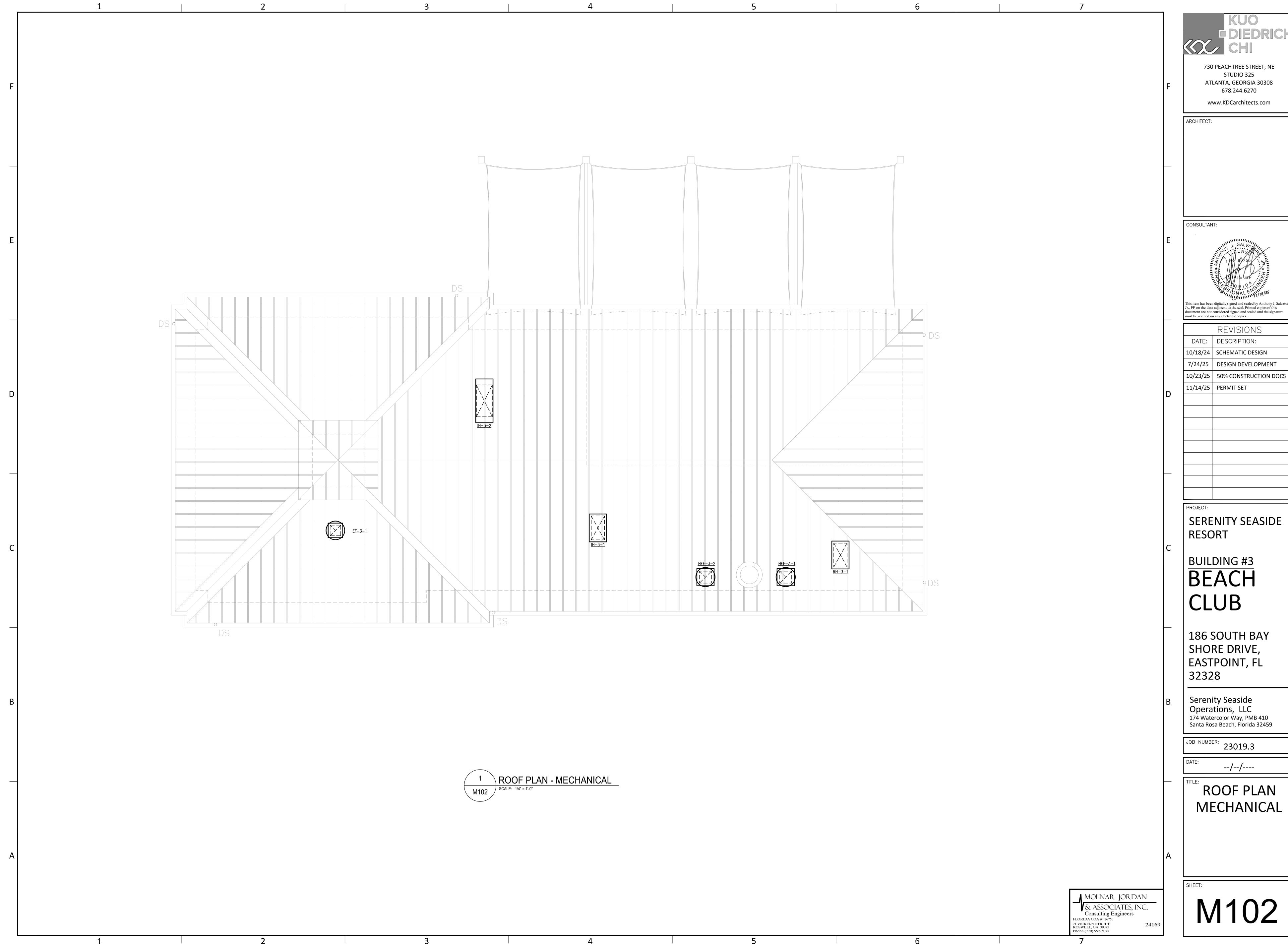


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10/18/24 | SCHEMATIC DESIGN 7/24/25 DESIGN DEVELOPMENT 10/23/25 50% CONSTRUCTION DOCS

FLOOR PLAN



This item has been digitally signed and sealed by Anthony J. Salvatore Jr., PE on the date adjacent to the seal. Printed copies of this

SERENITY SEASIDE

MECHANICAL