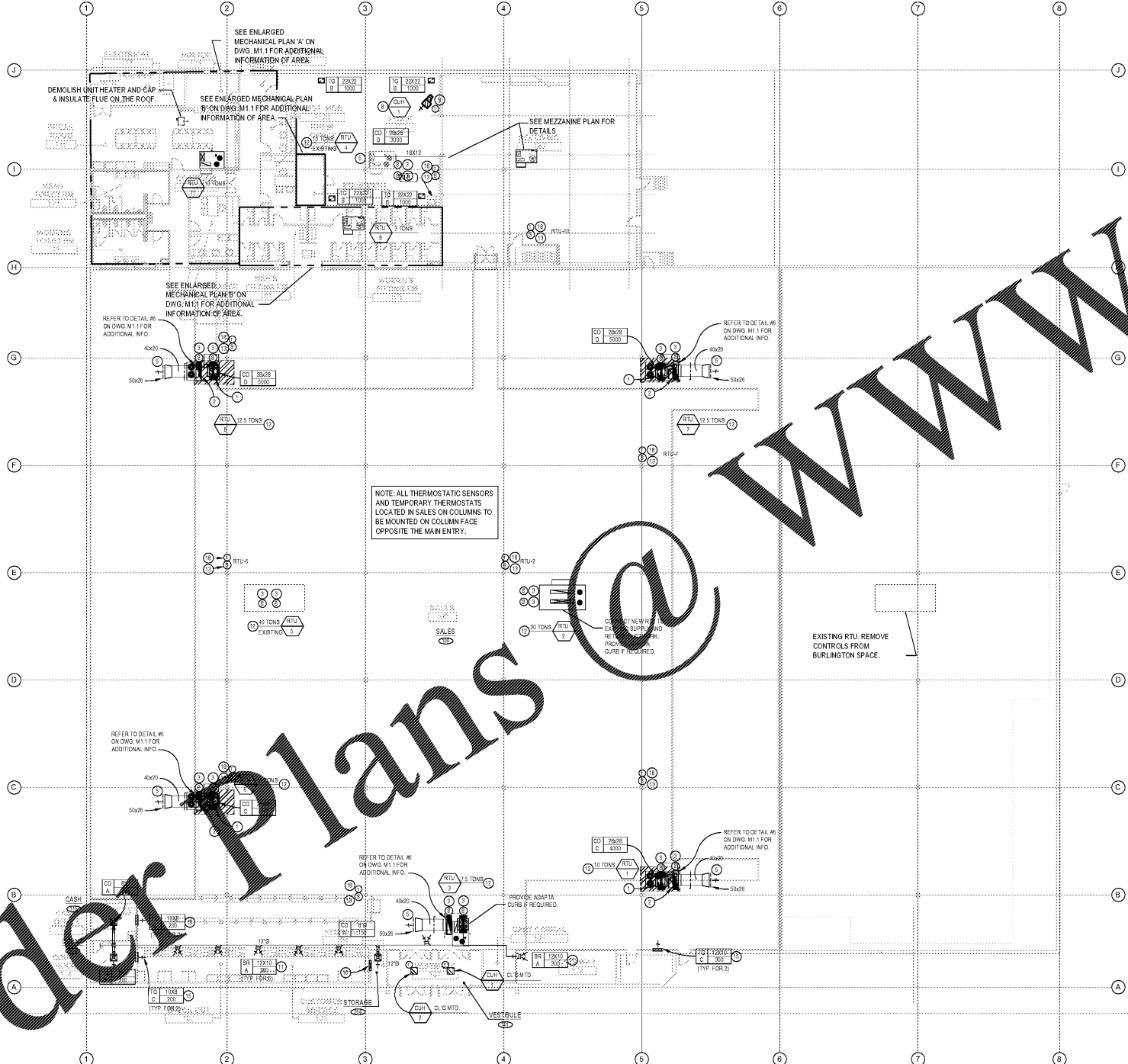


TONNAGE BREAKDOWN		
TOTAL TONNAGE		155.5 TONS
TOTAL SQUARE FOOTAGE		5362
SQUARE FOOT/TON		342

MECHANICAL LEGEND	
SYMBOL	DESCRIPTION
SA	SUPPLY AIR
SF	SUPPLY FAN
SR	SUPPLY REGISTER
EA	EXHAUST AIR
EF	EXHAUST FAN
ER	EXHAUST REGISTER
CD	CEILING DIFFUSER
CA	OUTSIDE AIR
RA	RETURN AIR
RD	RETURN GRILLE
TA	TRANSFER AIR
TG	TRANSFER GRILLE
QH	GAS UNIT HEATER
RTU	ROOF TOP UNIT
CUH	CABINET UNIT HEATER
FC	FAN COIL UNIT
CU	CONDENSING UNIT
PC	PLUMBING CONTRACTOR
EC	ELECTRICAL CONTRACTOR
MC	MECHANICAL CONTRACTOR
GC	GENERAL CONTRACTOR
○	THERMIST
⊙	TEMPERATURE SENSOR
□	WALL MOUNTED COIL
▭	CEILING DRAIN
—	FLEXIBLE DUCT (5'-0" MAX LENGTH)
—	CEILING DUCT CONNECTOR
—	MANUAL VOLUME DAMPER
—	1" UNDERCUT DOOR BY GC
—	ELBOW W/ DBL THICKNESS TURNING VANES
—	FRESH RETURN EXHAUST AIR DUCT
—	SUPPLY AIR DUCT
—	CHANGE IN ELEVATION RISE (R) OR DROP (D)
+	AIR PATTERN
B.D.D.	BOTTOM OF DUCT
⊙	DUCT MOUNTED SMOKE DETECTOR
⊖	CONDENSATE DRAIN
—	HORIZONTAL CLEANOUT
BA.S.	BUILDING AUTOMATION SYSTEM

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2 MEZZANINE MECHANICAL PLAN
SCALE: 1/16" = 1'-0"



1 MECHANICAL PLAN
SCALE: 1/16" = 1'-0"

MECHANICAL GENERAL NOTES:

- EQUIPMENT SHALL BE INSTALLED PER THE STATE CODE AND THE EQUIPMENT MANUFACTURER'S INSTALLATION INSTRUCTIONS. THE MORE STRICT REQUIREMENT SHALL APPLY.
- HANGERS, ANCHORS AND SUPPORTS SHALL SUPPORT THE PIPING AND THE CONTENT OF THE PIPING. HANGERS AND STRAPPING MATERIALS SHALL BE OF APPROVED MATERIALS THAT WILL NOT PROMOTE GALVANIC ACTION.
- MECHANICAL VENTILATION WILL BE PROVIDED AS INDICATED ON THE VENTILATION SCHEDULE.
- THE MECHANICAL VENTILATION SHALL OCCUR DURING OCCUPIED TIMES AND WILL BE BALANCED BY A CERTIFIED AIR BALANCING COMPANY TO ENSURE AIRFLOW RATES DESIGNED.
- SUPPLY AIR DUCTWORK SHALL BE CLASSIFIED FOR 2" WC.
- FLEXIBLE AIR DUCT SHALL BE TESTED IN ACCORDANCE WITH UL 181. FLEXIBLE DUCT SHALL NOT EXCEED 5 FEET IN LENGTH.
- ALL DUCTWORK JOINTS SHALL BE SECURELY FASTENED AND SEALED WITH MASTICS.
- DUCTWORK SHALL BE SUPPORTED AT MAXIMUM 8 FEET ON CENTERS. FLEXIBLE DUCTS SHALL BE SUPPORTED PER MANUFACTURER'S INSTALLATION MANUAL.
- REGISTERS, GRILLES AND DIFFUSERS SHALL BE INSTALLED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. MECHANICAL CONTRACTOR TO FURNISH AND INSTALL BALANCING DAMPERS AT BOTH THE DIFFUSER AND AT THE BRANCH DUCT.
- DUCT INSULATION SHALL HAVE FLAME INDEX OF 25 OR LESS AND SMOKE INDEX OF 50 OR LESS. EXTERNAL DUCT INSULATION FACTORY INSULATED FLEXIBLE DUCT SHALL HAVE IDENTIFIED THE MANUFACTURER, R-VALUE, FLAME AND SMOKE INDEX.
- THESE DRAWINGS ARE DIAGRAMMATIC IN NATURE. THE MECHANICAL CONTRACTOR SHALL INCLUDE ALL NEEDED OFFSETS, CHANGES IN DIRECTION, TRANSITIONS, ETC. NEEDED FOR COMPLETE AND OPERATIONAL SYSTEMS.
- PERFORM ALL WORK IN ACCORDANCE WITH THE RULES & REGULATIONS OF THE APPROPRIATE STATE AND LOCAL BUILDING CODES AND SUBTITLES.
- QUESTIONS REGARDING THESE DRAWINGS SHALL BE ADDRESSED TO THE ENGINEER PRIOR TO THE AWARDING OF THE CONTRACT. OTHERWISE THE ENGINEER'S INTERPRETATION OF THE MEANING AND INTENT OF THE DRAWINGS SHALL BE FINAL.
- IF CONFLICTS EXIST, PRIORITY OF LOCATION IN REFLECTED CEILING GRID SHALL BE AS FOLLOWS FROM HIGH TO LOW: LIGHTS, SPRINKLER, MECHANICAL, FIRE ALARM DEVICES.
- THE MECHANICAL CONTRACTOR SHALL ACCURATELY COORDINATE THE SIZES AND LOCATION OF ALL DUCTWORK, PIPING, AND EQUIPMENT WITH THE LOCATION OF LIGHTING FIXTURES, STRUCTURAL MEMBERS, AND THE WORK OF ALL OTHERS TRADES TO PREVENT CONFLICT. DUCTWORK CONFLICTING WITH LIGHTING FIXTURE LOCATIONS SHALL BE MOVED AT THIS CONTRACTOR'S EXPENSE.
- ALL DUCTWORK DIMENSIONS NOTED ON PLANS REFER TO THE CLEAR INSIDE OPENING REQUIRED.
- MECHANICAL CONTRACTOR SHALL INSTALL BURGLAR BARS ON ALL RTU'S, REFER TO BURGLAR BAR DETAIL 3M1.1 FOR ADDITIONAL INFORMATION.
- OUTSIDE SENSING DEVICE ON ROOF TOP UNIT (1) WITH LIGHT SENSOR FACING NORTH SHALL BE FURNISHED, INSTALLED, AND WIRED BY B.A.S. CONTRACTOR.
- MECHANICAL CONTRACTOR SHALL COORDINATE WITH GENERAL CONTRACTOR, ELECTRICAL CONTRACTOR AND B.A.S. CONTRACTOR FOR FINAL EQUIPMENT BALANCING AND TESTING OF CONTROLS.
- AIR BALANCE REPORT AND HVAC AUTOMATIC SHUTOFF TEST REPORT REQUIRED TO BE SUBMITTED TO INSPECTOR BY CONTRACTOR.

MECHANICAL TAG NOTES:

- DROP FULL SIZE SUPPLY AIR DUCT THRU ROOF FROM RTU AND CONNECT INTO TOP OF CEILING DIFFUSER DUCT CAP CONNECTION.
- DROP FULL SIZE RETURN AIR DUCT THRU ROOF FROM RTU AND TRANSITION TO 40x20 RETURN AIR DUCT IN DROP.
- DUCT MOUNTED SMOKE DETECTOR TO BE INSTALLED IN BOTH SUPPLY & RETURN AIR DUCT BY MECHANICAL CONTRACTOR. ELECTRICAL CONTRACTOR TO FURNISH & WIRE DUCT MOUNTED SMOKE DETECTORS.
- DROP FULL SIZE SUPPLY AIR DUCT THRU ROOF FROM RTU AND TRANSITION TO 20x20 SUPPLY AIR DUCT IN DROP BELOW ROOF DECK.
- COVER RETURN AIR DUCT OPENING WITH 1"x1" WIRE MESH SCREEN.
- NOT USED.
- HEATING THERMOSTAT AT CABINET UNIT HEATER: SET TO OPERATE WHEN ROOM TEMPERATURE IS BELOW 70° F.
- GAS UNIT HEATER WITH ALL THREADED RODS AND NEOPRENE VIBRATION ISOLATORS FROM STRUCTURE FRAMING. MOUNT AT 14'-0" A.F.F. REFER TO GAS UNIT HEATER DETAIL 7M1.1.
- HEATING THERMOSTAT: SET TO OPERATE WHEN ROOM TEMPERATURE IS BELOW 60° F. MOUNT ON WALL 4'-0" A.F.F. ON INSULATED BACK PLATE.
- GENERAL CONTRACTOR SHALL UNDERCUT DOOR BY 1".
- SUPPLY REGISTER TO BE ANGLED AT 30° BELOW HORIZONTAL CENTER LINE OF DUCT TOWARDS GROUND.
- DUCT MOUNTED TEMPERATURE SENSOR TO BE FURNISHED AND WIRED BY ELECTRICAL CONTRACTOR AND INSTALLED BY MECHANICAL CONTRACTOR IN SUPPLY AIR DUCT DROP FROM RTU.
- THERMOSTATIC SENSOR TO BE FURNISHED BY MECHANICAL CONTRACTOR AND INSTALLED AND WIRED BY B.A.S. PROVIDER ON COLUMN OR WALL 7'-0" A.F.F. B.A.S. PROVIDER SHALL LABEL SENSOR WITH RTU #.
- NOT USED.
- MOUNTED AS HIGH AS POSSIBLE BELOW ROOF DECK ON EACH SIDE OF WALL.
- MOUNTED ON WALL AS HIGH AS POSSIBLE BELOW ROOF DECK.
- NOT USED.
- LOCATION OF TEMPORARY THERMOSTAT ON COLUMN OR WALL 7'-0" A.F.F. BY MECHANICAL CONTRACTOR. MECHANICAL CONTRACTOR SHALL LABEL THERMOSTAT WITH RTU #.
- NOT USED.
- NOT USED.
- COVER 80x20 RETURN AIR DUCT OPENING WITH 1"x1" WIRE MESH SCREEN.
- EXTEND AND CONNECT 14"Ø SUPPLY AIR DUCT INTO SUPPLY AIR DROP FROM RTU UPSTREAM OF MANUAL VOLUME DAMPER IN DROP. (CONNECT INTO SUPPLY AIR DROP AS HIGH AS POSSIBLE TO UNDERSIDE OF ROOF DECK).
- RUN 1" COOLING CONDENSATE DRAIN (GRAVITY) AS HIGH AS POSSIBLE BELOW ROOF DECK IN JOIST SPACE AT 1/8" PER 1'-0" SLOPE COMPLETE WITH 1" THICK ARMAFLEX INSULATION. (TYPICAL)

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PROFESSIONAL ENGINEER
VA BUSINESS ENTITY PERMIT NO. 427095483
VA LICENSE NUMBER 420226541
EXP: 11/30/2019

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MECHANICAL PLAN
M1.0