

ABBREVIATIONS

A.F.F. = ABOVE FINISHED FLOOR
 AHU = AIR HANDLING UNIT
 ANSI = AMERICAN NATIONAL STANDARDS INSTITUTE
 ASJ = ALL SERVICE JACKET
 ATM = ATMOSPHERE
 ATC = AUTOMATIC TEMPERATURE CONTROL
 AVG = AVERAGE
 BHP = BRAKE HORSE POWER
 B = BOILER
 BOD = BOTTOM OF DUCT
 BOJ = BOTTOM OF JOIST
 BOP = BOTTOM OF PIPE
 BOS = BOTTOM OF STEEL
 BOT = BOTTOM
 BTU = BRITISH THERMAL UNIT
 MBH = BRITISH THERMAL UNIT (THOUSAND)
 C = CENTERLINE
 CWR = CHILLED WATER RETURN
 CWS = CHILLED WATER SUPPLY
 CH = CHILLER
 CP = CIRCULATION PUMP OR RE-CIRCULATION PUMP
 CO = CLEAN OUT
 CW = COLD WATER, DOMESTIC
 CT = COOLING TOWER
 CD = CONDENSATE DRAIN
 CU = CONDENSING UNIT
 CU FT = CUBIC FEET
 CU IN = CUBIC INCHES
 CFM = CUBIC FEET PER MINUTE
 Ø = DIAMETER
 I.D. = DIAMETER, INSIDE
 O.D. = DIAMETER, OUTSIDE
 DX = DIRECT EXPANSION
 DN = DOWN
 D.S. = DOWN SPOUT
 DWG = DRAWING
 DB = DRY BULB
 EFF = EFFICIENCY
 EBB = ELECTRIC BASEBOARD
 EWC = ELECTRIC WATER COOLER
 EWH = ELECTRIC WALL HEATER
 EUH = ELECTRIC UNIT HEATER
 E.C. = ELECTRICAL CONTRACTOR
 EAT = ENTERING AIR TEMPERATURE
 EWT = ENTERING WATER TEMPERATURE
 EA = EXHAUST AIR
 EF = EXHAUST FAN
 EV = EXHAUST VENT OR RELIEF VENT
 °F = FAHRENHEIT, DEGREES
 FP = FAN POWERED BOX
 FT = FEET
 FPM = FEET PER MINUTE
 FPS = FEET PER SECOND
 F.D. = FIRE DAMPER
 FOT = FLAT ON TOP
 FLOOR = FLOOR PER HOUR
 FD = FLOOR DRAIN
 FS = FLOOR SINK
 F = FURNACE
 GA. = GAUGE OR GAGE
 GAL. = GALLON
 GPD = GALLON PER DAY
 GPH = GALLON PER HOUR
 GPM = GALLON PER MINUTE
 GTM = GREASE TRAP
 HB = HOSE BIBB OR WALL HYDRANT
 HDA = HAND-OFF-AUTOMATIC SWITCH
 HS = HAND SINK
 HPS = HIGH PRESSURE STEAM
 HP = HORSE POWER
 HG = HOT GAS
 HW = HOT WATER, DOMESTIC
 HWR = HOT WATER RETURN, DOMESTIC
 HR = HOUR
 RH = HUMIDITY, RELATIVE
 IN = INCH OR INCHES
 INFR = INFRARED HEATER
 IV = INTAKE VENT
 INV. = INVERT ELEVATION
 KW = KILOWATT
 LS = LAUNDRY SINK
 LT = LAUNDRY TUB
 LAV = LAVATORY
 LAT = LEAVING AIR TEMPERATURE
 LWT = LEAVING WATER TEMPERATURE
 LF = LINEAR FEET
 LPS = LOW PRESSURE STEAM
 L = LOUVER
 MAU = MAKE-UP AIR UNIT
 MAX. = MAXIMUM
 MIN. = MINIMUM
 MB = MOB BASIN
 NC = NOISE CRITERIA
 NO = NORMALLY OPEN
 NC = NORMALLY CLOSED
 N.A. = NOT APPLICABLE
 N.I.C. = NOT IN CONTRACT
 N.T.S. = NOT TO SCALE
 OA = OUTSIDE AIR
 O.H. = OVERHEAD
 PPM = PARTS PER MILLION
 PSF = POUNDS PER SQUARE FOOT
 PSI = POUNDS PER SQUARE INCH
 PD = PRESSURE DROP
 PSIA = PSI ABSOLUTE
 PSIG = PSI GAGE
 P = PUMP
 PC = PUMPED CONDENSATE
 RL = REFRIGERANT LIQUID
 RS = REFRIGERANT SUCTION
 RA = RETURN AIR
 RPM = REVOLUTIONS PER MINUTE
 R.O. = ROOF DRAIN
 R.D. = ROOF OPENING
 RD = ROUND
 S = SANITARY LINE
 SS = SERVICE SINK
 SK = SINK
 ST = STORM LINE
 SA = SUPPLY AIR
 TOD = TOP OF DUCT
 TD = TRENCH DRAIN
 TB = TRIPLE BASIN
 U.F. = UNDER FLOOR
 U.G. = UNDER GROUND
 UR = URINAL
 VAV = VARIABLE AIR VOLUME
 VVT = VARIABLE AIR, VARIABLE VOLUME, TEMPERATURE
 V = VENT
 WC = WATER CLOSET
 WH = WATER HEATER
 WB = WET BULB
 YH = YARD HYDRANT

ALL ABBREVIATIONS, SYMBOLS, AND LEGENDS SHOWN ON THIS DRAWING ARE NOT NECESSARILY USED.

LINETYPE SYMBOLS

CHILLED WATER RETURN
 CHILLED WATER SUPPLY
 COMPRESSED AIR
 CONDENSATE DRAIN
 CONDENSOR WATER RETURN
 CONDENSOR WATER SUPPLY
 DEMO
 DOMESTIC COLD WATER
 DOMESTIC HOT WATER
 DOMESTIC HOT WATER RETURN
 DRAIN TILE
 GAS (NATURAL OR LIQUID PROPANE)
 HEATING-COOLING WATER RETURN
 HEATING-COOLING WATER SUPPLY
 HEATING WATER RETURN
 HEATING WATER SUPPLY
 HOT GAS
 LOW PRESSURE CONDENSATE
 CONDENSATE RETURN
 LOW PRESSURE STEAM
 MEDICAL GAS
 OVERHEAD SANITARY
 OVERHEAD STORM
 OXYGEN
 PUMPED CONDENSATE DRAIN
 REFRIGERANT DISCHARGE
 REFRIGERANT LIQUID
 REFRIGERANT RELIEF
 REFRIGERANT SUCTION
 UNDERGROUND SANITARY
 UNDERGROUND STORM
 VACUUM

SYMBOLS

BY-PASS DAMPER
 CARBON MONOXIDE SENSOR (CO)
 CARBON DIOXIDE SENSOR (CO2)
 CONTROL SENSOR
 DAMPER
 HUMIDISTAT
 LEAK DETECTOR
 NEW CONNECTION
 REMOTE SENSOR
 SMOKE DETECTOR
 THERMOSTAT
 THERMOSTAT - ZONE DAMPER
 TIMECLOCK
 ZONE DAMPER
 ZONE SENSOR
 MVO
 MOTOR OPERATED DAMPER (CONTROL VOLTAGE AS NOTED ON DRAWINGS)
 SPIN-IN W/ DAMPER (SIZE AS NOTED ON DRAWINGS)
 SUPPLY AIR DIFFUSER (NECK & SIZE AS NOTED ON DRAWINGS)
 RETURN AIR DIFFUSER (NECK & SIZE AS NOTED ON DRAWINGS)
 EXHAUST AIR DIFFUSER (NECK & SIZE AS NOTED ON DRAWINGS)
 SUPPLY AIR REGISTER (NECK & SIZE AS NOTED ON DRAWINGS)
 RETURN AIR GRILLE (NECK & SIZE AS NOTED ON DRAWINGS)
 EXHAUST AIR REGISTER (NECK & SIZE AS NOTED ON DRAWINGS)
 SIDE WALL REGISTER OR GRILLE (SUPPLY, RETURN, OR EXHAUST)
 RETURN OR EXHAUST AIR FLOW
 SUPPLY AIR FLOW
 SUPPLY OR RETURN SLOT DIFFUSER (NECK & SIZE AS NOTED ON DRAWINGS)
 SUPPLY OR RETURN LINEAR BAR GRILLE (NECK & SIZE AS NOTED ON DRAWINGS)
 ROUND SUPPLY DIFFUSER (NECK & SIZE AS NOTED ON DRAWINGS)
 FLEX DUCT CONNECTION (SIZE AS NOTED ON DRAWINGS)
 FLEX DUCT CONNECTION (SIZE AS NOTED ON DRAWINGS)
 CONTINUATION

INDICATES RECTANGULAR DUCT WORK
 INDICATES ROUND DUCT WORK
 INDICATES OVAL DUCT WORK

ALL ABBREVIATIONS, SYMBOLS, AND LEGENDS SHOWN ON THIS DRAWING ARE NOT NECESSARILY USED. REFER TO MECHANICAL AND PLUMBING SHEETS FOR ADDITIONAL SYMBOLS, EQUIPMENT, AND LEGENDS.

APPLICABLE CODES

FLORIDA BUILDING CODE 2004
 NATIONAL ELECTRICAL CODE 2005
 FLORIDA MECHANICAL CODE 2004
 FLORIDA PLUMBING CODE 2004

GLOSSARY

FURNISH: PURCHASE AND DELIVER (EQUIPMENT) TO THE JOBSITE ONLY
 INSTALL: PROVIDE ALL MISCELLANEOUS MATERIALS AND SERVICES (LABOR AND MATERIAL) REQUIRED TO MAKE EQUIPMENT OPERATIONAL
 PROVIDE: FURNISH AND INSTALL
 REMARKS OR NOTES: INFORMATION PERTAINING TO OR INDICATED ITEMS ON A SCHEDULE

SYMBOLS

RECTANGULAR TO ROUND TRANSITION
 REDUCER (DUCTWORK)
 TURNING VANES IN ELBOW FOR DUCT
 ELBOW - 45°
 ELBOW - 90°
 BALL VALVE
 CAP
 CHECK VALVE
 CIRCUIT SETTER
 COMBINATION TEE w/ DOWN ELBOW
 COMBINATION TEE w/ UP ELBOW
 DOUBLE ELBOW
 ELBOW DOWN
 ELBOW UP
 GATE VALVE
 GLOBE VALVE
 MOTORIZED VALVE
 PRESSURE REDUCTING VALVE
 PUMP
 PURGING VLVE
 REDUCER
 STRAINER
 TEE
 THREE-WAY VALVE
 UNION
 WEIGHT CHECK VALVE
 WYE
 EQUIPMENT TAG (REFER TO MECHANICAL & PLUMBING SCHEDULES FOR EXACT EQUIPMENT ABBREVIATIONS)
 REVISION TAG
 KEY NOTE OR DRAWING NOTE TAG

GENERAL NOTES

- ALL WORK SHALL BE COORDINATED WITH ALL TRADES INVOLVED. OFFSETS AND TRANSITIONS IN DUCTWORK AROUND OBSTRUCTIONS SHALL BE PROVIDED AT NO ADDITIONAL COST. FIELD MODIFY DUCTWORK AS REQUIRED TO FIT BETWEEN STRUCTURAL MEMBERS.
- COORDINATE SUPPLY, RETURN, AND EXHAUST DIFFUSERS/REGISTERS/GRILLES AND OTHER MECHANICAL DEVICES WITH LIGHT FIXTURES.
- HORSEPOWER RATINGS ON MOTORS ARE BASED ON SCHEDULED EQUIPMENT AND DESIGN CONDITIONS. ACTUAL FIELD CONDITIONS OR SUBSTITUTIONS FROM SCHEDULED EQUIPMENT MAY REQUIRE DIFFERENT HORSEPOWER. IF LARGER MOTOR SIZES ARE REQUIRED OR CHANGES OCCUR IN VOLTAGES, COORDINATE ELECTRICAL SERVICE TO ENSURE PROPER WIRE SIZES AND DEVICES AT NO ADDITIONAL COMPENSATION (DUE TO THESE CHANGES) ASKED FOR OR REQUESTED BY ANOTHER CONTRACTOR OR TRADE. ADDITIONAL COMPENSATION RESULTING FROM EQUIPMENT SUBMITTED FOR REASONS OF CONTRACTOR PREFERENCE OR AVAILABILITY SHALL BE PAID BY THIS CONTRACTOR WITH NO ADDITIONAL EXPENSE TO THE OWNER.
- CONTRACT DRAWINGS ARE BASED ON THE EQUIPMENT SPECIFIED. MAKE ADJUSTMENTS, MODIFICATIONS OR CHANGES REQUIRED BY DUE TO USE OF OTHER EQUIPMENT, WITH NO ADDITIONAL COMPENSATION EXPECTED FOR OR DEMANDED BY THIS CONTRACTOR OR ANY OTHER CONTRACTOR OR TRADE. ANY ADDITIONAL COMPENSATION AS A RESULT OF CHANGES IN THIS EQUIPMENT, STRUCTURAL FRAMING, CONCRETE FOUNDATION, OR OTHER PHYSICAL CHANGES SHALL BE BORE BY THIS CONTRACTOR WITH NO ADDITIONAL EXPENSE TO THE OWNER.
- THE MECHANICAL CONTRACTOR SHALL PROVIDE A MINIMUM OF EIGHT (8) HOURS TRAINING TO THE OWNER/OWNER'S REPRESENTATIVE PRIOR TO JOB CLOSE-OUT. THIS TRAINING SHALL COVER SUCH AREAS AS (BUT NOT LIMITED TO) HVAC CONTROLS, EQUIPMENT OPERATIONAL PROCEDURES AND GENERAL MAINTENANCE RECOMMENDATIONS. UPON COMPLETION OF THESE TRAINING SESSION(S), A SIGNED AFFIDAVIT SHALL BE SUBMITTED TO THE ENGINEER THAT THIS TRAINING SESSION WAS SATISFACTORILY ACCOMPLISHED.
- PROVIDE THERMOSTATS (IF REQUIRED, REMOTE SENSORS, OR ANY OTHER TYPE OF CONTROL SENSORS) FOR ALL EQUIPMENT (AIR HANDLING UNITS, HEAT PUMPS, FURNACES, ROOF TOP UNITS, ETC.) WHETHER SHOWN OR NOT. IF LOCATION IS NOT SHOWN ON DRAWINGS, VERIFY WITH ENGINEER AND ARCHITECT FOR LOCATION. MOUNT THERMOSTATS 60" ABOVE FINISHED FLOOR.
- PROVIDE SMOKE DETECTORS IN SUPPLY AIR DUCT FOR ALL EQUIPMENT HAVING A DESIGN CAPACITY GREATER THAN 2,000 CFM.
- PROVIDE CONDENSATE DRAIN PIPING (PVC) FOR ALL EQUIPMENT, WHETHER SHOWN ON THE DRAWINGS OR NOT. INSULATE ALL CONDENSATE LINES LOCATED IN A CONDITIONED SPACE (OR ATTIC) USING 2" ARMAFLEX INSULATION. PROVIDE FLOAT SWITCH IN AUXILIARY DRAIN PAN TO SHUT OFF EQUIPMENT (24 VOLTS).
- DO NOT INSTALL TURNING VANES IN ELBOWS OR FITTINGS FOR EXHAUST DUCTWORK.
- PROVIDE INSULATION FOR ALL CONCEALED DUCTWORK AND OUTSIDE AIR (OA) DUCT. WHEN DUCTWORK IS IN A NON-CONDITIONED SPACE, PROVIDE 2" RIGID FIBERGLASS INSULATION FOR ALL DUCTWORK IN THAT SPACE.
- PROVIDE 2" RIGID FIBERGLASS INSULATION FOR ALL EXPOSED DUCTWORK.
- ALL SPIN-IN DAMPERS SHALL HAVE A 2" EXTENDED SHAFT OR HANDLE BEYOND INSULATION ON DUCTWORK.
- SUBMITTALS FOR ALL EQUIPMENT AND OTHER MECHANICAL DEVICES (NOT MATERIAL) SHALL BE SUBMITTED WITH A STATEMENT SIGNED BY THE MECHANICAL CONTRACTOR STATING THE FOLLOWING: ITEMS INCLUDED IN THIS SUBMITTAL HAVE BEEN REVIEWED FOR CAPACITY, SIZE, CONFIGURATION (LEFT, RIGHT, TOP, BOTTOM), UPFLOW/DOWNFLOW, PROPER COIL CONNECTION LOCATIONS AND ELECTRICAL DATA ARE CONSISTENT WITH THE ENGINEERING DOCUMENTS BOTH PLANS, SPECIFICATIONS AND SCHEDULES. MODEL NUMBERS SHOWN IN THE SCHEDULES SHALL BE VERIFIED BY THE SELECTED VENDORS WITH RESPECT TO PROPER CONFIGURATION ACCORDING TO THE ENGINEERING PLANS. UNDER NO CIRCUMSTANCES SHALL THE VENDORS SELECT EQUIPMENT STRICTLY FROM THE SCHEDULES AND DISREGARDING THE ENGINEERING PLANS.
- IF DUCTWORK SIZE(S) ARE NOT SHOWN, PROVIDE SIZING ACCORDING TO THE EQUAL FRICTION METHOD:
 LOW PRESSURE SUPPLY: 0.08" STATIC PRESSURE (S.P.) WATER GAUGE (W.G.) / 100 EQUIVALENT FEET
 LOW PRESSURE RETURN: 0.08" STATIC PRESSURE (S.P.) WATER GAUGE (W.G.) / 100 EQUIVALENT FEET AND VELOCITY < 1000 FEET PER MINUTE
- MECHANICAL CONTRACTOR MAY NOT CHANGE THE DUCTWORK FROM RECTANGULAR OR SQUARE TO ROUND DUCTWORK WITHOUT PRIOR APPROVAL FROM THE ENGINEER OF RECORD.
- DIVISION 15 SHALL PROVIDE ALL CONTROL WIRING, INCLUDING THERMOSTAT, REMOTE SENSORS, DAMPER INTERLOCKING, REMOTE SWITCHES, ETC.
- DUCTWORK DIMENSIONS ARE INTERNAL, FREE DIMENSIONS.
- FLEXIBLE METAL DUCTWORK CONNECTIONS ARE ONLY ALLOWED FROM THE AIR DEVICE TO THE SHEET METAL DUCTWORK. MAXIMUM LENGTH OF 5'-0".
- REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR EXACT LOCATION OF ROOF AND WALL OPENINGS FOR MECHANICAL EQUIPMENT.
- LOUVERS INSTALLED ON THE EXTERIOR OF THE BUILDING SHALL COMPLY WITH WIND LOAD REQUIREMENTS FOR COMPONENTS AND CLADDING AS REQUIRED BY CHAPTERS 16 AND 17 OF THE FLORIDA BUILDING CODE, BUILDING.
- MATERIALS, EQUIPMENT, APPLIANCES AND DEVICES SHALL NOT BE RE-USED UNLESS SUCH ELEMENTS HAVE BEEN RECONDITIONED, TESTED AND PLACED IN GOOD AND PROPER WORKING CONDITIONS AND APPROVED, PER FLORIDA BUILDING CODE, MECHANICAL (SECTION 301.4.4).
- EQUIPMENT AND APPLIANCES SHALL BE INSTALLED AS REQUIRED BY THE TERMS OF THEIR APPROVAL, IN ACCORDANCE WITH THE CONDITIONS OF THE LISTING, THE MANUFACTURER'S INSTALLATION INSTRUCTIONS AND THIS CODE. MANUFACTURER'S INSTALLATION INSTRUCTIONS SHALL BE AVAILABLE ON THE JOB SITE AT TIME OF INSPECTION, INCLUDING LISTING FOR OUTSIDE INSTALLATION WHEN APPLICABLE.
- ACCESS AND SERVICE SPACE AROUND NEW MECHANICAL EQUIPMENT SHALL BE SUFFICIENT TO ALLOW INSPECTIONS, SERVICE, REPAIR OR REPLACEMENT WITHOUT REMOVING ELEMENTS OF PERMANENT CONSTRUCTION OR DAMAGING A REQUIRED FIRE RESISTANCE-RATED ASSEMBLY.
- ALL WORK AND MATERIAL SHALL BE PERFORMED AND INSTALLED IN COMPLIANCE WITH ALL CODES AS ADOPTED AND AMENDED BY THE INSPECTING AUTHORITY. NOTHING IN THESE DRAWINGS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES.
- EXACT LOCATIONS AND MOUNTING HEIGHTS OF PLUMBING FIXTURES SHALL BE OBTAINED FROM THE ARCHITECTURAL DRAWINGS.
- ALL PLUMBING WORK SHALL BE INSTALLED TO AVOID INTERFERENCE WITH ELECTRICAL AND MECHANICAL EQUIPMENT AND STRUCTURAL FRAMING.
- BEFORE COMMENCEMENT OF WORK, PLUMBING CONTRACTOR SHALL VERIFY THE EXACT LOCATIONS, ELEVATIONS AND CHARACTERISTICS OF ALL UTILITIES AND PIPING. PLUMBING CONTRACTOR SHALL NOTIFY ENGINEER/ARCHITECT OF ANY DISCREPANCIES.
- ALL WASTE AND VENT PIPING SHALL SLOPE AT 1%, UNLESS NOTED OTHERWISE.
- PROVIDE WALL CARRIER(S) FOR ATTACHMENT TO THE WALL FOR ALL WALL MOUNTED FIXTURES.
- FLOOR CLEAN OUT(S) [FCO'S] SHALL BE INSTALLED FLUSH TO FINISHED FLOOR. NO DISHING PERMITTED.
- ALL VENT PIPING LOCATED IN RETURN AIR PLENUMS SHALL BE EITHER INSULATED WITH PLENUM APPROVED INSULATION OR SHALL BE OF THE FOLLOWING:
 2" OR LESS IN SIZE: TYPE M COPPER
 2 1/2" OR LARGER IN SIZE: CAST IRON
- ALL VENT PIPING SHALL BE FULL LINE SIZE IF A WALL CLEANOUT (WCO) IS SHOWN, OR AS DIRECTED BY LOCAL AUTHORITY HAVING JURISDICTION.
- UNDERGROUND SANITARY PIPING SHALL BE SIZED AND VENTED IN ACCORDANCE WITH FLORIDA PLUMBING CODE.
- ALL FLOOR DRAINS SHALL BE INSTALLED FLUSH WITH FINISHED FLOOR. PLUMBING CONTRACTORS SHALL EXAMINE ARCHITECTURAL AND STRUCTURAL DRAWINGS TO DETERMINE EXACTLY THE TYPE OF FLOOR FINISH AND MAKE ALLOWANCE DURING THE INSTALLATION. IF ANY FLOOR DRAIN IS FOUND TO BE NOT FLUSH WITH THE FINISHED FLOOR OR PARALLEL TO THE WALLS, THE PLUMBING CONTRACTOR WILL BE REQUIRED TO REMOVE SUCH DRAIN AND SHALL RE-INSTALL AT NO COST TO THE OWNER.
- ALL PLUMBING FIXTURES VENTS SHALL TERMINATE A MINIMUM OF 12" FROM ANY VERTICAL SURFACE AND 10'-0" FROM ANY OUTSIDE AIR (OA) INTAKES.
- PLUMBING FIXTURE DESCRIPTION SHALL TAKE PRECEDENCE WHEN THERE EXISTS A CONFLICT WITH THE DESCRIPTION AND MODEL NUMBER.
- PROVIDE FACTORY FORMED PVC JACKET COVERS FOR DRAIN AND WATER SUPPLIES UNDER ALL LAVATORIES (LAV'S).
- PROVIDE OFFSET DRAIN STRAINER FITTINGS FOR ALL HANDICAPPED LAVATORIES (LAV'S).
- PROVIDE TRAPEZE PIPE HANGERS FOR 3 OR MORE PIPES. DOUBLE NUT U-BOLTS EVERY THIRD HANGER. U-BOLT SHALL BE LOOSELY FASTENED. THE INTENT IS NOT TO BIND OR HOLD PIPE, BUT ONLY TO PROVIDE LATERAL SEPARATION.
- FASTEN ALL INSULATION PIPE SHIELDS TO PIPING INSULATION WITH ADHESIVE.
- PROVIDE ALL EXTERIOR HOSE BIBBS WITH SHUT-OFF GATE VALVES, LOCATED IMMEDIATELY INSIDE ABOVE THE CEILING OR OTHER ACCESSIBLE LOCATION.
- PRIME AND PAINT ALL EXTERIOR PIPE AND PIPING SUPPORTS IF THEY ARE NOT GALVANIZED.
- ALL PIPE AND PIPING SUPPORT SYSTEMS SHALL NOT CRUSH THE INSULATION WHEN RESTING UPON THE SUPPORT. THE USE OF WOODEN DOWELS IS NECESSARY WHEN THE WEIGHT OF THE PIPE EXCEEDS THE WEIGHT SUPPORT LIMIT OF THE INSULATION.
- PIPE SIZES MAY BE SHOWN FOR THE SAME PIPING ON MORE THAN ONE DRAWING. IN CASE OF PIPE SIZE DISCREPANCY, THE LARGER PIPE SIZE SHALL BE CONSIDERED CORRECT DURING THE BIDDING AND DURING CONSTRUCTION, UNLESS SPECIFICALLY APPROVED BY THE ARCHITECT/ENGINEER.
- MECHANICAL CONTRACTOR SHALL PROVIDE A WRITTEN CERTIFICATION TO ENGINEER-OF-RECORD OF SATISFACTORY OPERATION OF ALL INSTALLED EQUIPMENT.

REFER TO MECHANICAL AND PLUMBING SHEETS FOR ADDITIONAL DRAWING NOTES.

DESIGN CONDITIONS

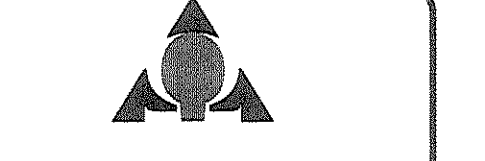
LOCATION	WINTER		SUMMER	
	OUTDOOR (°F DB)	INDOOR (°F DB)	OUTDOOR (°F DB)	INDOOR (°F DB)
JACKSONVILLE, FLORIDA	29	68	95	78



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MECHANICAL AND PLUMBING ABBREVIATIONS, LEGEND AND NOTES

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MP1.1
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