

ABBREVIATIONS	
(AS APPLICABLE)	
(E) EXISTING 3CS THREE-COMPARTMENT SINK A AMP, AMPERE A/E ARCHITECT/ENGINEER AAV AIR ADMITTANCE VALVE ABV ABOVE AC AIR CONDITIONER, AIR CONDITIONING AD ACCESS DOOR ADJ ADJUSTABLE AFF ABOVE FINISHED FLOOR AFMD AIR FLOW MEASURING DEVICE AFG ABOVE FINISHED GRADE AHJ AUTHORITY HAVING JURISDICTION AHU AIR HANDLING UNIT ANSI AMERICAN NAT'L STANDARDS INSTITUTE AL ALUMINUM AP ACCESS PANEL ARCH ARCHITECT, ARCHITECTURAL ARI AIR CONDITIONING & REFRIG INSTITUTE ASHRAE AMERICAN SOCIETY OF HEATING, REFRIGERATION, & AIR CONDITIONING ENGINEERS ASME AMERICAN SOCIETY OF MECHANICAL ENGINEERS ASTM AMERICAN SOCIETY OF TESTING & MATERIALS ATC AUTOMATIC TEMP CONTROLS AUX AUXILIARY AWG AMERICAN WIRE GAUGE AWS AMERICAN WELDING SOCIETY AWWA AMERICAN WATER WORKS ASSOCIATION BAS BUILDING AUTOMATION SYSTEM BDD BACKDRAFT DAMPER BFF BELOW FINISHED FLOOR BFP BACKFLOW PREVENTER BHP BRAKE HORSEPOWER BLDG BUILDING BT BATHTUB BTU BRITISH THERMAL UNIT BTUH BTU PER HOUR BV BALANCING VALVE BWV BACKWATER VALVE C COMMON CA COMBUSTION AIR CD CEILING SUPPLY AIR DIFFUSER CD CONDENSATE DRAIN CF CEILING FAN CF CUBIC FEET CFH CUBIC FEET PER HOUR CFM CUBIC FEET PER MINUTE CI CAST IRON CKT CIRCUIT CLG CEILING CO CARBON MONOXIDE CO CLEANOUT CO2 CARBON DIOXIDE CONF CONFIGURATION COP COEFFICIENT OF PERFORMANCE CU CONDENSING UNIT CU COPPER CV CIRCUIT VENT CV CONSTANT VOLUME CWF COMBINATION WASTE & VENT DB DRY-BULB TEMPERATURE DDC DIRECT DIGITAL CONTROL DEG DEGREES DF DRINKING FOUNTAIN DH DUCT HEATER DI DEIONIZED WATER DIA. Ø DIAMETER DISC DISCONNECT DN DOWN DN DOWNSPOUT NOZZLE DOM DOMESTIC DP DEW POINT DPS DIFFERENTIAL PRESSURE SENSOR DWG DRAWING DX DIRECT EXPANSION EA EACH EA EXHAUST AIR EAT ENTERING AIR TEMPERATURE EC ELECTRICAL CONTRACTOR EER ENERGY EFFICIENCY RATIO EF EXHAUST FAN EFF EFFICIENCY EG EXHAUST GRILLE ELEC ELECTRICAL EM EMERGENCY LIGHTING ENT ENTERING EQUIP EQUIPMENT ESP EXTERNAL STATIC PRESSURE ETR EXISTING TO REMAIN EW EYE WASH EWC ELECTRIC WATER COOLER EWT ENTERING WATER TEMPERATURE F FAHRENHEIT FACP FIRE ALARM CONTROL PANEL FCO FLOOR CLEANOUT FCU FAN COIL UNIT FD FLOOR DRAIN FD FIRE DAMPER FDC FIRE DEPARTMENT CONNECTION FFE FINISHED FLOOR ELEVATION FLA FULL LOAD AMPS FM FLOW METER FP FIRE PROTECTION FPC FIRE PROTECTION CONTRACTOR FPM FEET PER MINUTE FPS FEET PER SECOND FPMH FREEZE PROOF WALL HYDRANT FS FLOOR SINK FS FLOW SWITCH FT FEET GA GAUGE GAL GALLONS GALV GALVANIZED GC GENERAL CONTRACTOR GFCI/GFI GROUND FAULT CIRCUIT INTERRUPTER GI GREASE INTERCEPTOR GPD GALLONS PER DAY GPM GALLONS PER MINUTE GR GRAINS GR GROUND HB HOSE BIBB HD HEAD HD HUB DRAIN HOA HAND / OFF / AUTOMATIC HP HEAT PUMP HP HORSEPOWER HS HAND SWITCH HS HAND SWITCH HZ HERTZ HVAC HEATING, VENTILATION, AND AIR CONDITIONING IO INPUT / OUTPUT IE INVERT ELEVATION IG ISOLATED GROUND IN INCHES IN WC INCHES OF WATER COLUMN IND INDIRECT KV KILOVOLT KW KILOWATT	LAT LAVATORY LB, # POUNDS LRA LOCKED ROTOR AMPS LGT LIGHTING LWT LEAVING WATER TEMPERATURE MA MIXED AIR MAT MIXED AIR TEMPERATURE MAX MAXIMUM MBH 1000 BTUH MC MECHANICAL CONTRACTOR MCA MINIMUM BRANCH CIRCUIT AMPACITY MCB MAIN CIRCUIT BREAKER MCC MOTOR CONTROL CENTER MECH MECHANICAL MERV MINIMUM EFFICIENCY REPORTING VALUE MFR MANUFACTURER MHB MIXING HOSE BIBB MIN MINIMUM MLC MAIN LUG ONLY MM MILLIMETER MOCP MAXIMUM OVERCURRENT PROTECTION MOP SINK MUA MAKE-UP AIR MZ MULTI-ZONE NA NOT APPLICABLE NC NORMALLY CLOSED NC NOISE CRITERIA NEC NATIONAL ELECTRIC CODE NEMA NATIONAL ELECTRICAL MFR'S ASSOCIATION NFC NOT FOR CONSTRUCTION NFPA NATIONAL FIRE PROTECTION ASSOCIATION NIC NOT IN CONTRACT NL NIGHT LIGHT N.O. NORMALLY OPEN NOM NOMINAL NPSH NET POSITIVE SUCTION HEAD NTS NOT TO SCALE OA OUTSIDE AIR OBD OPPOSED BLADE DAMPER OC ON CENTER OI OIL INTERCEPTOR OSAY OUTSIDE STEM AND YOKE OSHA OCCUPATIONAL SAFETY & HEALTH ADMIN. PB PUSH BUTTON PC PLUMBING CONTRACTOR PD PRESSURE DROP PD PHASE PLBG PLUMBING PNLBD PANELBOARD PPM PARTS PER MILLION PRV PRESSURE REGULATING VALVE PSI POUNDS PER SQUARE INCH PSIA POUNDS PER SQUARE INCH - ABSOLUTE PSIG POUNDS PER SQUARE INCH - GAUGE QTY QUANTITY RA RETURN AIR RAT RETURN AIR TEMPERATURE RAW RETURN AIR WALL GRILLE RC REFRIGERATOR CONTRACTOR RCPTS RECEPTACLES RD RADIATION DAMPER RD ROOF DRAIN REBAL REBALANCE RECIRC RECIRCULATE REF REFERENCE REL RELOCATED REQ REQUIRED REV REVISION, REVISE RG RETURN GRILLE RH RADIANT HEATER RH RELATIVE HUMIDITY RLA RUNNING LOAD AMPS RO REVERSE OSMOSIS ROD ROOF OVERFLOW DRAIN RPM REVOLUTIONS PER MINUTE RPZ REDUCED PRESSURE ZONE RTU ROOF TOP UNIT SA SUPPLY AIR SAT SUPPLY AIR TEMPERATURE SAW SUPPLY AIR WALL REGISTER SC SECURITY CAMERA SC SENSIBLE CAPACITY SD SMOKE DETECTOR SEER SEASONAL ENERGY EFFICIENCY RATIO SF SQUARE FEET SF SUPPLY FAN SH SHOWER SK SINK SM SHEET METAL SMACNA SHEET METAL & A/C CONT NAT'L ASSOC. SOV SHUT-OFF VALVE SP STATIC PRESSURE SPEC SPECIFICATION STD STANDARD SZ SINGLE-ZONE TAB TESTING, ADJUSTING, BALANCE TC TOTAL CAPACITY TD TEMPERATURE DIFFERENCE TD TRENCH DRAIN TDH TOTAL DYNAMIC HEAD TFD TO FLOOR DRAIN TG TRANSFER GRILLE THRU THROUGH TMV THERMOSTATIC MIXING VALVE TP TOTAL PRESSURE TP TRAP PRIMER TSP TOTAL STATIC PRESSURE TSTAT THERMOSTAT TYP TYPICAL UF UNDER FLOOR UG UNDER GROUND US UNDER SLAB UC UNDERCUT DOOR UH UNIT HEATER UL UNDERWRITERS LABORATORIES, INC. UR URINAL UNO UNLESS NOTED OTHERWISE V VENT V VOLT VA VOLT-AMPERE VAC VACUUM VAV VARIABLE AIR VOLUME VBF VENT BELOW FLOOR VBG VENT BELOW GRADE VFD VARIABLE FREQUENCY DRIVE VRF VARIABLE REFRIGERANT FLOW VTR VENT THRU ROOF W WATTS w/ WITH w/o WITHOUT WB WASHER BOX WC WATER CLOSET WC WATER COLUMN WG WATER GAUGE WH WATER HEATER WV WET VENT

PIPING SYMBOLS	
(AS APPLICABLE)	
SYMBOL	DESCRIPTION
	CHS CHILLED WATER SUPPLY
	CHR CHILLED WATER SUPPLY
	HWS HEATING WATER SUPPLY
	HWR HEATING WATER RETURN
	TWS SUPPLY FROM TOWER
	TWR RETURN TO TOWER
	S# STEAM AT # PSI
	SR STEAM CONDENSATE RETURN
	R REFRIGERATION (SUCTION & LIQUID)
	CD CONDENSATE DRAIN
	PIPE: RISE / FALL / TEE DOWN
	SHUT-OFF VALVE
	BALANCING VALVE
	PRESSURE REDUCING VALVE
	EMERGENCY SHUT-OFF VALVE W/ FUSIBLE LINK
	2-WAY CONTROL VALVE (ELECTRIC/ELECTRONIC)
	3-WAY CONTROL VALVE (ELECTRIC/ELECTRONIC)
	2-WAY CONTROL VALVE (PNEUMATIC)
	3-WAY CONTROL VALVE (PNEUMATIC)
	ASME RELIEF VALVE
	CHECK VALVE
	REDUCED PRESSURE ZONE (RPZ)
	STRAINER w/ DRAIN VALVE
	AIR VENT (A-AUTO, H-HAND)
	PRESSURE AND TEMPERATURE TAP
	PRESSURE GAUGE W/ INSERTION WELL
	THERMOMETER W/ INSERTION WELL
	GPM FLUID FLOW METER
	ANCHOR
	PIPE GUIDE
	FLANGE
	UNION
	FLEXIBLE PIPE CONNECTOR
	CAPPED PIPE
	CONCENTRIC REDUCER
	ECCENTRIC REDUCER

DUCTWORK SYMBOLS	
(AS APPLICABLE)	
SYMBOL	DESCRIPTION
	12"Ø 12"Ø DIAMETER ROUND DUCT (INSIDE CLEAR DIMENSIONS)
	18"x12" RECTANGULAR DUCT 18" WIDE BY 12" DEEP (INSIDE CLEAR DIMENSIONS)
	18"x12"Ø FLAT OVAL DUCT 18" WIDE BY 12" DEEP (INSIDE CLEAR DIMENSIONS)
	MEDIUM / HIGH PRESSURE DUCTWORK (REFER TO SPECIFICATIONS)
	SPIRAL DUCTWORK (REFER TO SPECIFICATIONS)
	SUPPLY DUCT IN SECTION
	RETURN DUCT IN SECTION
	EXHAUST DUCT IN SECTION
	ELBOW WITH TURNING VANES (GREATER THAN 45° ANGLE ONLY)
	SUPPLY AIR DIFFUSER
	RETURN AIR GRILLE
	EXHAUST AIR GRILLE
	VOLUME/BALANCE DAMPER
	MOTORIZED DAMPER
	FIRE DAMPER (FD)
	SMOKE DAMPER (SD)
	COMBINATION FIRE/SMOKE DAMPER (FSD)
	DEVICE MARK (THROW PATTERN (IF SHOWN) NECK SIZE OR LENGTH OF LINEAR DIFFUSER CFM)
	T THERMOSTAT
	S TEMPERATURE SENSOR
	C CO2 SENSOR
	H HUMIDISTAT
	D SMOKE DETECTOR
	SP STATIC PRESSURE SENSOR
	P PULL STATION

ANNOTATION SYMBOLS	
(AS APPLICABLE)	
SYMBOL	DESCRIPTION
	PLAN NOTE (PER SHEET)
	XXXX KITCHEN EQUIPMENT REFERENCE NUMBER
	POINT OF CONNECTION TO EXISTING
	TERMINATION OF DEMOLITION
	CONTINUATION
	1 M1 DETAIL NUMBER
	1 M1 SHEET NUMBER
	1 M1 SECTION CUT DESIGNATION

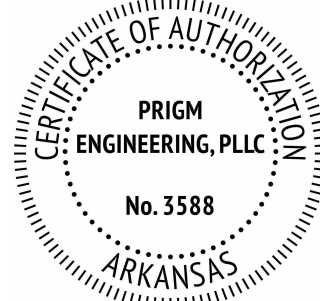
APPLICABLE CODES	
2021 ARKANSAS FIRE PREVENTION CODE, VOLUME I - FIRE 2021 ARKANSAS FIRE PREVENTION CODE, VOLUME II - BUILDING 2021 ARKANSAS MECHANICAL CODE (AMC) 2020 NFPA 70 - NATIONAL ELECTRICAL CODE (NEC) 2018 ARKANSAS PLUMBING CODE (APC) 2018 ARKANSAS FUEL GAS CODE (AFGC) 2009 INTERNATIONAL ENERGY CONSERVATION CODE (IECC)	

DESIGN CONDITIONS	
WEATHER STATION (2021 ASHRAE HANDBOOK): ROGERS MUNICIPAL, AR, USA (WMO: 723449) ELEVATION: 1353 FT.	
OUTDOOR DESIGN CONDITIONS: COOLING (0.4%): 94.7°F DB / 74.0°F WB DEHUMIDIFICATION (0.4%): 74.5°F DP / 84.0°F DB ENTHALPY (0.4%): 42.1 BTULB / 88.6°F DB HEATING (99.6%): 10.0°F DB HUMIDIFICATION (99.6%): 0.1°F DP / 13.6°F DB	
INDOOR DESIGN CONDITIONS: (UNLESS SPECIFIED BY ROOM ELSEWHERE) SUMMER: 72°F DB / 50% RH WINTER: 70°F DB	

MECHANICAL GENERAL NOTES	
(AS APPLICABLE)	
1.	NOTES APPLY TO ALL MECHANICAL SHEETS.
2.	EACH CONTRACTOR IS RESPONSIBLE FOR HAVING THOROUGH KNOWLEDGE OF ALL DRAWINGS AND SPECIFICATIONS AS THEY RELATE TO THIS WORK. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED DUE TO LACK OF THIS KNOWLEDGE.
3.	PROVIDE ALL MATERIALS FOR A COMPLETE INSTALLATION IN ALL RESPECTS READY FOR INTENDED USE AND IN STRICT ACCORDANCE WITH STATE AND LOCAL CODES AND MANUFACTURER'S RECOMMENDATIONS. PLANS AND SPECIFICATIONS GOVERN WHERE THEY EXCEED CODE MINIMUM REQUIREMENTS.
4.	ALL MECHANICAL EQUIPMENT SHOWN ON THE MECHANICAL PLANS SHALL BE PROVIDED BY THE MECHANICAL CONTRACTOR UNLESS NOTED OTHERWISE. UNLESS NOTED OTHERWISE, THE INDICATION AND/OR DESCRIPTION OF ANY ITEM, IN THE DRAWINGS OR SPECIFICATIONS CARRIES WITH IT THE INSTRUCTION TO FURNISH AND INSTALL THE ITEM. ALL EQUIPMENT AND MATERIALS PROVIDED BY THE CONTRACTOR WILL BE NEW; THERE WILL BE NO ALLOWANCE FOR REUSED MATERIAL UNLESS EXPLICITLY INDICATED OTHERWISE BY THE ENGINEER OR OWNER.
5.	OBTAIN AND PAY FOR ALL PERMITS REQUIRED BY THIS WORK. PROVIDE TO THE ARCHITECT OR OWNER'S CONSTRUCTION MANAGER A COPY OF INSPECTION REPORTS AND APPROVAL CERTIFICATES FROM LOCAL AND STATE INSPECTIONS.
6.	DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENTS OR GEOMETRICAL RELATIONSHIPS OF EQUIPMENT AND SERVICES. THEY ARE NOT INTENDED TO SPECIFY OR SHOW EVERY OFFSET, SEQUENCE, DEVICE, OPTION, FITTING, OR COMPONENT. DO NOT SCALE FLOOR PLANS FOR EXACT LOCATION OF DUCT OR PIPE ROUTING. NOTIFY THE ARCHITECT OR OWNER'S CONSTRUCTION MANAGER OF ANY CONFLICTS OR DISCREPANCIES.
7.	INFORMATION AND COMPONENTS SHOWN ON DIAGRAMS OR DETAILS, BUT NOT SHOWN ON PLANS, AND VICE VERSA, SHALL BE PROVIDED AS IF EXPRESSLY REQUIRED BY BOTH.
8.	PROVIDE A CONSTRUCTION RECORD SET OF "AS-BUILT" DOCUMENTS TO THE ARCHITECT OR OWNER'S CONSTRUCTION MANAGER REFLECTING ANY VARIANCES OF INSTALLED EQUIPMENT, DUCT, OR PIPING LOCATIONS CONTRARY TO THE CONSTRUCTION DOCUMENTS.
9.	COORDINATE THE INSTALLATION OF THE MECHANICAL SYSTEMS WITH OTHER TRADES TO ENSURE A NEAT AND ORDERLY INSTALLATION. INSTALL DUCTWORK AND PIPING AS TIGHT TO STRUCTURE AS POSSIBLE. COORDINATE WITH OTHER TRADES TO AVOID CONFLICTS. COORDINATE INSTALLATION OF DUCTWORK AND PIPING TO AVOID CONFLICTS WITH ELECTRICAL PANELS, LIGHTING FIXTURES, ETC. ANY MODIFICATIONS REQUIRED DUE TO LACK OF COORDINATION WILL BE THE RESPONSIBILITY OF THE CONTRACTOR AT NO EXTRA COST TO THE OWNER.
10.	THESE DRAWINGS REFLECT SYSTEMS DESIGNED AROUND SPECIFIC REFERENCE PRODUCTS (BASIS OF DESIGN), THE SELECTION OF WHICH INFLUENCED THE DESIGNS OF OTHER TRADES. IF SUBSTITUTE MANUFACTURERS, SIZES, MODELS, ETC. ARE SUBMITTED, IT IS THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR TO COORDINATE ALL DIFFERENCES WITH OTHER TRADES. ALL COSTS OF ALL TRADES ASSOCIATED WITH THE SUBSTITUTION SHALL BE INCLUDED.
11.	MECHANICAL CONTRACTOR (MC) SHALL COORDINATE AND VERIFY THE FOLLOWING WITH THE ELECTRICAL CONTRACTOR (EC) PRIOR TO BID: - DISCONNECTS • WHERE NOT FURNISHED WITH EQUIPMENT: FURNISHED BY EC, INSTALLED BY EC. - WHERE FURNISHED WITH EQUIPMENT: FURNISHED BY MC, INSTALLED BY EC.
12.	NEW MECHANICAL EQUIPMENT, DUCTWORK AND PIPING ARE SHOWN AT APPROXIMATE LOCATIONS. FIELD MEASURE FINAL DUCTWORK AND PIPING LOCATIONS PRIOR TO FABRICATION AND MAKE ADJUSTMENTS AS REQUIRED TO FIT THE DUCTWORK AND PIPING WITHIN THE AVAILABLE SPACE. VERIFY THAT FINAL EQUIPMENT LOCATIONS MEET MANUFACTURER'S RECOMMENDATIONS REGARDING SERVICE CLEARANCE AND PROPER AIRFLOW CLEARANCE AROUND EQUIPMENT.
13.	COORDINATE DUCTWORK AND PIPE ROUTING AWAY FROM ELECTRICAL PANELS. DO NOT INSTALL DUCTWORK OR PIPING OVER ELECTRICAL PANELS.
14.	SEAL PENETRATIONS THROUGH THE BUILDING COMPONENTS IN ACCORDANCE WITH THE CONTRACT SPECIFICATIONS. FIREPROOF PENETRATIONS THROUGH FIRE RATED COMPONENTS IN ACCORDANCE WITH U.L. REQUIREMENTS. REFER TO ARCHITECTURAL PLANS FOR WALL AND FLOOR TYPES.
15.	DUCTWORK IDENTIFICATION AND INSTALLATION SHALL ADHERE TO GOVERNING CODES.
16.	INSTALL DUCTWORK AND PIPING PARALLEL TO BUILDING COLUMN LINES UNLESS OTHERWISE SHOWN OR NOTED. ALL DUCTS SHALL BE MOUNTED HIGH AS POSSIBLE AGAINST BOTTOM OF STRUCTURE EXCEPT AS REQUIRED TO AVOID CONFLICTS WITH INTERSECTING DUCTS. DIAGONALLY OFFSET DUCTS IMMEDIATELY BEFORE AND AFTER PASSING UNDER INTERSECTING DUCTS OR LARGE STRUCTURAL MEMBERS TO MAINTAIN DUCT TIGHT TO STRUCTURE.
17.	NO OTHER TRADES, I.E., ELECTRICAL, CEILING, PLUMBING, ETC., SHALL BE SUSPENDED, HUNG, OR SUPPORTED FROM DUCTWORK OR PIPING.
18.	COORDINATE LOCATION OF EQUIPMENT SUPPORTS WITH LOCATION OF EQUIPMENT ACCESS PANELS/DOORS TO ENABLE SERVICE OF EQUIPMENT.
19.	COORDINATE THE EXACT MOUNTING SIZE AND FRAME TYPE OF DIFFUSERS, REGISTERS AND GRILLES WITH THE SUPPLIER TO MEET THE CEILING, WALL AND DUCT INSTALLATION REQUIREMENTS.
20.	SPRINKLER HEAD AND LIGHTING FIXTURE LOCATIONS TAKE PRECEDENCE OVER DIFFUSER LOCATIONS. ADJUST LOCATION OF CEILING DIFFUSERS, REGISTERS AND GRILLES AS REQUIRED TO ACCOMMODATE FINAL CEILING GRID AND LIGHTING LOCATIONS.
21.	ALL CEILING DIFFUSERS ARE 4-WAY PATTERN UNLESS NOTED OTHERWISE.
22.	LOCATE AND SET THERMOSTATS AT LOCATIONS SHOWN ON PLANS. VERIFY EXACT LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION. INSTALL WIRING IN CONDUIT PROVIDED BY ELECTRICAL CONTRACTOR. ANY THERMOSTAT THAT IS REQUIRED TO BE MOUNTED ON AN EXTERIOR WALL SHALL BE MOUNTED ON AN INSULATED PAD.
23.	PROVIDE A MANUAL BALANCING DAMPER IN EACH BRANCH DUCT TAKEOFF FROM MAIN SUPPLY, RETURN, OUTDOOR AND EXHAUST AIR DUCTS. LOCATE DAMPERS A MINIMUM 4'-0" AWAY FROM DIFFUSERS. PROVIDE REMOTE BALANCING DAMPER (POTTORFF MODEL RD-10 OR EQUAL) OR CABLE OPERATED DAMPER (POTTORFF MODEL RCS OR EQUAL) WHERE INSTALLED IN AN INACCESSIBLE LOCATION.
24.	PROVIDE A PREFABRICATED 45 DEGREE, HIGH EFFICIENCY, RECTANGULAR AROUND BRANCH DUCT TAKEOFF FITTING WITH MANUAL BALANCING DAMPER AND LOCKING QUADRANT FOR BRANCH DUCT CONNECTIONS AND TAKE-OFFS TO INDIVIDUAL DIFFUSERS, REGISTERS AND GRILLES. TYPICAL BRANCH DUCT FITTING DETAIL IS APPLICABLE THROUGHOUT.
25.	BRANCH DUCTWORK TO AIR OUTLETS SHALL BE SAME SIZE AS OUTLET NECK SIZE UNLESS NOTED OTHERWISE.
26.	DUCT SIZES INDICATED ARE INSIDE CLEAR DIMENSIONS AND ARE REPRESENTATIVE OF THE INSIDE EQUIVALENT FREE AREA REQUIRED TO MAINTAIN THE AIR FLOW SPECIFIED. IF DUCT SIZES NEED TO BE ALTERED FOR SPACE REQUIREMENTS, ENSURE THE ORIGINAL INSIDE DUCT EQUIVALENT FREE AREA IS MAINTAINED.
27.	CONTRACTOR'S OPTION TO SUBSTITUTE ROUND DUCT OF EQUAL FREE AREA FOR RECTANGULAR DUCT AND VICE VERSA. DIMENSIONS OF RECTANGULAR DUCT MAY BE ADJUSTED AS NECESSARY TO INSTALL DUCT IN AVAILABLE SPACE AS LONG AS FREE AREA IS MAINTAINED.
28.	RIGID DUCTWORK INSULATION: PROVIDE 3/4 LB DENSITY, 2" R-6 THICK, INSULATION WRAP ON RIGID ROUND AND RECTANGULAR, CONCEALED SUPPLY, RETURN, AND OUTSIDE AIR DUCTS.
29.	PROVIDE THERMAFLEX TYPE G-KM, M-KE, FLEXMASTER TYPE 8, OR APPROVED EQUAL FLEXIBLE DUCTWORK. FLEXIBLE DUCTWORK SHALL BE LISTED UNDER UL 181 AS CLASS 1 AIR DUCT AND BE PROVIDED WITH INTEGRAL R-6, 3/4 LB DENSITY FIBERGLASS INSULATION. FLEXIBLE DUCTWORK SHALL NOT EXCEED 3'-0" IN LENGTH AND SHALL BE INSTALLED AND SUPPORTED TO AVOID SHARP BENDS AND SAGGING.
30.	FOR ALL EXPOSED DUCTWORK, PROVIDE DUCT THAT IS SUITABLE FOR PAINTING. ENSURE THAT ALL EXPOSED DUCTWORK IS PROPERLY PREPARED AND READY FOR PAINTING. COORDINATE COLOR WITH ARCHITECT.
31.	PROVIDE A NEW SET OF AIR FILTERS IN UNITS PRIOR TO TESTING, ADJUSTING AND BALANCING AND BEFORE TURNING SYSTEM(S) OVER TO OWNER.
32.	PROVIDE A COMPLETE TEST AND BALANCE FOR HVAC SYSTEM. AIR BALANCE SHALL BE WITHIN 5% OF SCHEDULED AIRFLOWS.
33.	INSTALL VTR'S AND EXHAUST FANS A MINIMUM OF 10 FT FROM OUTSIDE AIR INTAKE.
34.	PROVIDE SEISMIC BRACING FOR ALL COMPONENTS AS REQUIRED BASED ON APPROPRIATE SEISMIC DESIGN CATEGORY REQUIREMENTS PER LOCAL AND NATIONAL CODES. CONTRACTOR'S RESPONSIBILITY INCLUDES PROVIDING ALL REQUIRED DOCUMENTATION SEALED BY A REGISTERED PROFESSIONAL ENGINEER LICENSED IN THE STATE OF THE PROJECT LOCATION AND EMPLOYED BY THE MANUFACTURER OF THE SEISMIC RESTRAINT PRODUCTS.
35.	THE DESIGN OF ANY AND ALL STRUCTURAL SYSTEMS (INCLUDING MODIFICATIONS TO EXISTING STRUCTURES) THAT MAY BE REQUIRED FOR SUPPORT OF NEW MECHANICAL EQUIPMENT SHALL BE THE RESPONSIBILITY OF SEPARATE LICENSED STRUCTURAL ENGINEER.



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MECHANICAL NOTES
AND LEGENDS

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