

GENERAL NOTES

- WORK TO BE ACCOMPLISHED ON THESE DRAWINGS AND THE ACCOMPANYING SPECIFICATIONS INCLUDES THE FURNISHING OF ALL LABOR, MATERIALS, EQUIPMENT, AND SERVICES NECESSARY FOR THE PROPER COMPLETION OF ALL MECHANICAL WORK.
- BEFORE SUBMITTING A PROPOSAL ON THE WORK CONTEMPLATED ON THESE DRAWINGS AND ACCOMPANYING SPECIFICATIONS, EACH BIDDER SHALL EXAMINE THE SITE, CHECK AS TO THE MEANS OF MAKING CONNECTIONS TO SERVICES, AND SHALL BECOME FAMILIAR WITH ALL THE EXISTING CONDITIONS AND LIMITATIONS. MECHANICAL EQUIPMENT AND SYSTEMS SHOWN AS EXISTING ON THE PLANS HAVE BEEN BASED ON EXISTING DRAWINGS. NO EXTRAS WILL BE ALLOWED BECAUSE OF THE CONTRACTOR'S MISUNDERSTANDING AS TO THE AMOUNT OF WORK INVOLVED OR HIS LACK OF KNOWLEDGE OF ANY SITE CONDITIONS WHICH MAY AFFECT HIS WORK. ANY APPARENT VARIANCE OF THE PLAN OR SPECIFICATION FROM EXISTING CONDITIONS AT THE SITE SHALL BE CALLED TO THE ATTENTION OF THE ENGINEER DURING THE BID PERIOD SO CLARIFICATION CAN BE MADE BY ADDENDUM.
- EXISTENCE OF ANY WIRES, CONDUITS, PIPES, DUCTS, OR OTHER FACILITIES ARE SHOWN IN A GENERAL WAY ONLY. IT WILL BE THE DUTY OF THE CONTRACTOR TO VISIT THE SITE AND MAKE EXACT DETERMINATION OF THE EXISTENCE OF ANY SUCH FACILITIES PRIOR TO THE SUBMISSION OF HIS BID. IT IS UNDERSTOOD THAT HE WILL BE RESPONSIBLE FOR MAKING THE EXACT DETERMINATION OF THE LOCATION AND CONDITION OF SUCH FACILITIES.
- ALL REQUIRED FEES, PERMITS, AND INSPECTIONS SHALL BE OBTAINED AND/OR ARRANGED FOR BY THE CONTRACTOR UNDER THE SECTION OF THE SPECIFICATIONS FOR WHICH THEY ARE REQUIRED.
- REGULAR INSPECTIONS SHALL BE ARRANGED BY THE CONTRACTOR AS REQUIRED BY ANY AND ALL REGULATIONS. ALL CHARGES FROM REGULATING AGENCIES FOR INSPECTIONS OF INSTALLATIONS OR REVIEW OF PLANS AND SPECIFICATIONS SHALL BE PAID BY THE CONTRACTOR.
- CERTIFICATE OF FINAL INSPECTION. UNDER EACH APPLICABLE SECTION OF THE SPECIFICATIONS, CONTRACTOR SHALL, UPON COMPLETION OF THE WORK UNDER THAT SECTION, FURNISH A CERTIFICATE OF FINAL INSPECTION TO THE ENGINEER FROM THE INSPECTION DEPARTMENT HAVING JURISDICTION.
- ALL MATERIALS AND WORKMANSHIP SHALL COMPLY WITH ALL CURRENT AND APPLICABLE CODES, SPECIFICATIONS, ORDINANCES, LAWS, REGULATIONS, INDUSTRY STANDARDS, AND UTILITY COMPANY REGULATIONS.
- IN CASE OF DIFFERENCE AMONG BUILDING CODES, SPECIFICATIONS, STATE LAWS, LOCAL ORDINANCES, INDUSTRY STANDARDS, AND UTILITY COMPANY REGULATIONS AND THE CONTRACT DOCUMENTS, THE MOST STRINGENT SHALL GOVERN. CONTRACTOR SHALL PROMPTLY NOTIFY THE ENGINEER IN WRITING OF ANY SUCH DIFFERENCE.
- ALL APPLICABLE FEDERAL, STATE, AND LOCAL LAWS AND ORDINANCES SHALL BE ADHERED TO THROUGHOUT THE CONSTRUCTION PROJECT.
- NON-COMPLIANCE. SHOULD THE CONTRACTOR PERFORM ANY WORK THAT DOES NOT COMPLY WITH THE REQUIREMENTS OF THE APPLICABLE BUILDING CODES, STATE LAWS, LOCAL ORDINANCES, INDUSTRY STANDARDS, AND UTILITY COMPANY REGULATIONS, HE SHALL BEAR ALL COSTS ARISING TO CORRECT THE DEFICIENCIES.
- CONTRACTOR SHALL INITIATE, MAINTAIN, AND SUPERVISE ALL SAFETY PRECAUTIONS REQUIRED FOR HIS WORK, INCLUDING REGULATIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA).
- DRAWINGS ARE TO SCALE AS NOTED, BUT THE CONTRACTOR SHALL REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR EXACT LOCATION OF PARTITIONS, WALLS, BEAMS, SHAFTS, EQUIPMENT, ETC.
- EACH TRADE SHALL OBTAIN DRAWINGS AND SPECIFICATIONS OF ALL OTHER TRADES AND COORDINATE HIS WORK WITH ALL OTHER TRADES.
- DRAWINGS SHOW THE GENERAL ARRANGEMENT OF DUCTWORK, PIPING, EQUIPMENT, AND APPURTENANCES AND SHALL BE FOLLOWED AS CLOSELY AS ACTUAL BUILDING CONSTRUCTION AND WORK OF OTHER TRADES WILL PERMIT. MECHANICAL WORK SHALL CONFORM TO THE REQUIREMENTS SHOWN ON ALL OF THE DRAWINGS. ARCHITECTURAL AND STRUCTURAL DRAWINGS SHALL TAKE PRECEDENCE OVER MECHANICAL DRAWINGS. BECAUSE OF THE SMALL SCALE OF THE MECHANICAL DRAWINGS, IT IS NOT POSSIBLE TO INDICATE ALL OFFSETS, FITTINGS, AND ACCESSORIES THAT MAY BE REQUIRED.
- DISCREPANCIES DISCOVERED BEFORE OR AFTER WORK HAS STARTED SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY, AND THE ENGINEER RESERVES THE RIGHT TO REQUIRE MINOR CHANGES IN THE WORK OF ANY CONTRACTOR TO ELIMINATE SUCH DISCREPANCIES WITH NO CHANGE IN CONTRACT COST.
- PLANS AND SPECIFICATIONS ARE COMPLEMENTARY, AND WHAT IS CALLED FOR IN EITHER ONE SHALL BE AS BINDING AS IT CALLED FOR IN BOTH.
- WHERE A DISAGREEMENT EXISTS BETWEEN THE PLANS AND SPECIFICATIONS, THE ITEM OR ARRANGEMENT OF BETTER QUALITY, GREATER QUALITY, OR HIGHER COST SHALL BE INCLUDED IN THE BID.
- ACCESS PANELS SHALL BE FURNISHED BY THE TRADE REQUIRING THEM AND DELIVERED TO THE GENERAL CONTRACTOR FOR INSTALLATION.
- ALL MATERIALS AND EQUIPMENT SHALL BE STORED IN SUCH A PLACE AND IN SUCH A MANNER THAT A MINIMUM OF CONGESTION WILL RESULT. THE PLACING OF SUCH MATERIALS AND EQUIPMENT SHALL BE SUBJECT TO THE APPROVAL OF THE TENANT.
- EACH CONTRACTOR SHALL COORDINATE WORK WITH OTHER TRADES IN THE INSTALLATION OF EQUIPMENT, PIPING, CONDUIT, AND DUCTWORK.
- HVAC/SHEET-METAL CONTRACTOR SHALL INITIATE THE COORDINATION PROCESS BY PROVIDING REPRODUCIBLE PLAN DRAWINGS SHOWING DUCTWORK AND EQUIPMENT.
- DRAWINGS WILL BE FORWARDED TO THE PIPING CONTRACTOR AND ELECTRICAL CONTRACTOR FOR INCLUSION OF THEIR SYSTEMS WORK.
- CONTRACTORS SHALL SOLVE ALL COORDINATION CONFLICTS AMONG THEMSELVES WHEN POSSIBLE. ENGINEER WILL ARBITRATE WHEN NECESSARY, AND HIS JUDGMENT WILL STAND, WITH NO ADDITIONAL COST TO THE TENANT.
- NORMAL USE OF THE FACILITY SHALL NOT BE DISTURBED, EXCEPT WITHIN THE IMMEDIATE CONSTRUCTION AREA. ALL WALKS, DRIVEWAYS, AND ENTRANCES SHALL BE KEPT CLEAR AND FREE OF ALL CONTRACTOR'S EQUIPMENT, MATERIAL, AND DEBRIS AT ALL TIMES.
- ACCESS PANELS SHALL BE AS MANUFACTURED BY MILCOR, OR APPROVED EQUAL, AND OF THE TYPE THE IS COMPATIBLE WITH CONSTRUCTION AND FINISH OF THE WALL AND/OR CEILING.
- EACH TRADE SHALL PERFORM ALL CUTTING AND PATCHING NECESSARY IN ORDER TO PERFORM THE WORK, UNLESS SUCH WORK HAS BEEN DELEGATED TO THE GENERAL CONTRACTOR/ANOTHER TRADE. HOWEVER, SPECIAL PERMITS SHALL BE OBTAINED FROM THE ENGINEER BEFORE CUTTING STRUCTURAL MEMBERS OR FINISHED MATERIALS. ALL PATCHING SHALL BE PERFORMED IN SUCH MANNER AS TO LEAVE NO VISIBLE TRACE AND TO RETURN THE PART AFFECTED TO THE CONDITION OF UNDISTURBED WORK. PATCHING WORK SHALL BE PERFORMED BY PERSONS EXPERIENCED, SKILLED, AND LICENSED FOR THE PARTICULAR TYPE OF WORK INVOLVED. INTERIOR WORK WILL NOT BE ACCEPTED. ALL HOLES IN MASONRY SHALL BE DRILLED WITH ROTARY DRILLS. IMPACT TOOLS SHALL NOT BE USED.
- EACH TRADE SHALL BEAR THE EXPENSE OF ALL CUTTING, PATCHING, REPAIRING, OR REPLACING OF THE WORK OF OTHER TRADES REQUIRED BECAUSE OF HIS FAULT, ERROR, OR LACK OF CARE BECAUSE OF ANY DAMAGE DONE BY HIM.
- EACH TRADE SHALL PROVIDE ALL HOLES AND OPENINGS REQUIRED FOR HIS WORK, UNLESS SUCH HOLES AND OPENINGS ARE SHOWN TO BE PROVIDED ON THE ARCHITECTURAL OR STRUCTURAL DRAWINGS.
- EACH TRADE SHALL REMOVE EXISTING WORK THAT IS SHOWN, SPECIFIED, OR OBVIOUSLY NECESSARY FOR COMPLETION OF HIS WORK. TENANT SHALL HAVE THE OPTION OF RETAINING ANY ITEM OR MATERIAL REMOVED UNDER THIS CONTRACT. ITEMS OR MATERIALS NOT RETAINED BY TENANT SHALL BECOME THE PROPERTY OF THE TRADE AND SHALL BE REMOVED FROM THE PREMISES.
- EACH TRADE SHALL PERIODICALLY CLEAR AWAY ALL DEBRIS, SURPLUS MATERIALS, ETC., RESULTING FROM HIS WORK OR OPERATIONS, LEAVING THE JOB AND THE EQUIPMENT FURNISHED UNDER ANY OR ALL CONTRACTS IN A CLEAN CONDITION.
- EACH TRADE SHALL TEST THE EQUIPMENT PROVIDED AND/OR INSTALLED UNDER THE SPECIFICATION AND SHALL DEMONSTRATE ITS PROPER OPERATION TO THE TENANT'S OPERATING ENGINEER.
- EACH TRADE SHALL FURNISH, WITHOUT ADDITIONAL EXPENSE TO THE OWNER, THE SERVICES OF COMPETENT INSTRUCTORS, WHO WILL GIVE FULL INSTRUCTION IN THE CARE, ADJUSTMENT, AND OPERATION AND MAINTENANCE OF ALL PARTS OF THE EQUIPMENT TO THE TENANT'S PERMANENT EMPLOYEES WHO ARE TO HAVE CHARGE OF THE EQUIPMENT.
- EACH SUBCONTRACTOR SHALL BE RESPONSIBLE FOR TESTED & RATED FIRE STOP SYSTEMS FOR ALL THRU-PENETRATION OF WALLS, FLOORS & ROOF ASSEMBLIES RESULTING FROM PIPING & OTHER WORK UNDER HIS CONTRACT. REFER TO SPECIFICATION SECTION FOR FIRE STOPPING FOR REQUIREMENTS.
- ALL WOOD NAILERS AND OTHER LUMBER WHICH IS INSTALLED IN CONTACT WITH METAL, CONCRETE, OR MASONRY SHALL BE "PRESSURE TREATED AGAINST DECAY (UNLESS OTHERWISE NOTED).
- PROVIDE ONLY PRODUCTS FROM MANUFACTURERS WITH LOCAL REPRESENTATION THAT CAN PROVIDE COMPLETE COVERAGE, SERVICE, PARTS AND LABOR OF THEIR PRODUCTS IN A TIMELY MANNER.
- MATERIAL EXPOSED WITHIN RETURN AIR PLENUM CEILING SHALL COMPLY WITH IMC SECTION 602.2.1.
- HVAC CONTRACTOR SHALL LINE THE INSIDE OF ALL RETURN/RELIEF/EXHAUST PLENUM BOXES PER SPECIFICATIONS. IF NO LINING IS REQUIRED, HVAC CONTRACTOR SHALL PAINT THE INSIDE FLAT BLACK.
- ALL DUCT SIZES ARE INTERNAL DIMENSIONS. CONTRACTOR SHALL INCREASE SHEET METAL SIZE IF DUCT RECEIVES INTERNAL LINER. SEE SPECIFICATIONS FOR INSULATION REQUIREMENTS.
- DUCT ROOF PENETRATION SIZES TO ROOF TOP UNITS ARE SAME AS DUCT MAIN, UNLESS NOTED OTHERWISE. TRANSITION TO UNIT CONNECTION SIZES WITHIN ROOF CURBS.
- LOCATIONS OF ORIFICES/L-VENTS FOR FABRIC DUCTS ARE ORIENTED WHEN FACING THE DIRECTION OF AIRFLOW.
- HVAC EQUIPMENT SHALL BE NO CLOSER TO ROOF EDGE THAN 10'-6" AT ALL TIMES.
- MAINTAIN A MINIMUM OF 15'-0" HORIZONTAL DISTANCE FROM ANY INTAKE TO EXHAUST OUTLET.
- COORDINATE UNDERGROUND PIPING WITH GENERAL CONTRACTOR TO ENSURE PROPER FOOTING DEPTH CLEARANCE.
- PLANS DO NOT INCLUDE ALL OFFSETS FOR COORDINATION WITH DUCT, LIGHTING, AND STRUCTURAL SYSTEMS. PROVIDE ALLOWANCES FOR REQUIRED OFFSETS.
- PROVIDE ALL MATERIALS AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERABLE PLUMBING SYSTEM AS INDICATED ON THE DRAWINGS, AS SPECIFIED, AND AS REQUIRED BY CODE.
- RUN 3" AND LARGER SANITARY WASTE, STORM DRAIN, AND ALL VENT PIPING AT 1/8" PER FOOT SLOPE UNLESS NOTED OTHERWISE, AND LESS THAN 3" WAS PIPING AT 1/4" PER FOOT SLOPE. HORIZONTAL VENT PIPING SHALL BE GRADED TO DRAIN BACK TO THE WASTE PIPE BY GRAVITY.
- ELEVATIONS SHOWN ARE TO THE INVERT OF ALL PIPING BASED ON ARCHITECTURAL FINISHED FLOOR ELEVATION (FFE) OF 100'-0", UNLESS NOTED OTHERWISE.
- ADJUST SEWER INVERTS TO KEEP BOTTOM OF PIPES IN LINE WHERE PIPE SIZES CHANGE.
- PROVIDE SHUTOFF VALVES IN ALL WATER PIPING SYSTEM BRANCHES IN WHICH BRANCH PIPING SERVES TWO OR MORE FIXTURES (NOT SHOWN FOR CLARITY) AND WHERE SHOWN ON PLAN AND RISERS.
- INSTALL PIPING SO THAT ALL VALVES, STRAINERS, UNIONS, TRAPS, FLANGES, AND OTHER ACCESSORIES REQUIRING ACCESS ARE ACCESSIBLE.
- UNIONS AND/OR FLANGES SHALL BE INSTALLED AT EACH PIECE OF EQUIPMENT, IN BY-PASSES, AND IN LONG RUNS (OVER 100') TO PERMIT DISASSEMBLY FOR ALTERATION AND REPAIRS.
- ALL VALVES SHALL BE ADJUSTED FOR SMOOTH AND EASY OPERATION.
- ALL VALVES (EXCEPT CONTROL VALVES) AND STRAINERS SHALL BE FULL SIZE OF PIPE BEFORE REDUCING SIZE TO MAKE CONNECTIONS TO EQUIPMENT AND CONTROLS.
- PROVIDE CLEANOUTS IN SANITARY AND STORM DRAINAGE SYSTEMS AT THE ENDS OF RUNS, AT CHANGES IN DIRECTION, NEAR THE BASE OF STACKS, EVERY 100' IN 4" AND LARGER HORIZONTAL RUNS, EVERY 50' IN 3" AND SMALLER HORIZONTAL RUNS, WHERE NOTED ON PLANS, AND WHERE REQUIRED BY CODE.
- ALL VALVES SHALL BE INSTALLED SO THAT THE VALVE REMAINS IN SERVICE WHEN EQUIPMENT OR PIPING ON EQUIPMENT SIDE OF VALVE IS REMOVED.
- ALL PIPING WORK SHALL BE COORDINATED WITH ALL TRADES INVOLVED. OFFSETS IN PIPING AROUND OBSTRUCTIONS SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.
- SEE PLUMBING RISERS FOR SIZING NOT SHOWN ON PLAN SHEETS (FOR CLARITY) AND SEE PLUMBING FIXTURE SCHEDULE FOR FIXTURE CONNECTIONS AND RUNOUT SIZES.
- CONTRACTOR TO ENSURE THAT CLEANOUTS (FCO, WCO, CO) LOCATIONS DO NOT REST BEHIND OR BEHIND CASEWORK. MAINTAIN ACCESSIBILITY FOR SERVICES.
- PLUMBING CONTRACTOR IS RESPONSIBLE FOR ALL REMOVING, CUTTING, PATCHING, AND REPLACING OF EXISTING BUILDING STRUCTURE, SURFACES, AND FINISHES REQUIRED BY COMPLETE WORK STATED IN THE PROJECT DOCUMENTS.
- PLUMBING CONTRACTOR TO COORDINATE COUNTER TOP OPENINGS FOR SINKS/LAVS WITH GENERAL CONTRACTOR PRIOR TO ORDERING MATERIALS.
- PIPES SHOWN SPREAD APART ON PLANS FOR CLARITY. CONTRACTOR TO INSTALL PIPES TIGHT TOGETHER.
- ALL UNDERSLAB DOMESTIC WATER PIPING SHALL BE CPVC OR PE-RT IF NOT ALLOWED BY LOCAL JURISDICTION, PROVIDE TYPE AND SCHEDULE PER LOCAL CODES.
- GAS PIPING SUPPORTS SHALL BE EVERY 5 FEET.
- REDUCED PRESSURE ZONE BACKFLOW PREVENTER (RPZ) SHALL BE INSTALLED AT AN ELEVATION BETWEEN 1" AFF AND 6'-0" AFF AND LABELED INDICATING EQUIPMENT SERVICE. RPZ'S SHALL BE INSPECTED AND TESTED ANNUALLY OR AT A RATE PER LOCAL CODES.
- PIPE SIZES FOR SANITARY WASTE, PLUMBING VENTS, AND STORM SEWER SHALL BE CAST IRON WHERE SPECIFIED THROUGH A RETURN-AIR PLENUM. REFERENCE 2015 IMC, SECTION 602, WITH LOCAL CODES/ORDINANCES.
- FIRE CAULK ALL FLOOR PENETRATIONS AND WHERE PIPING PENETRATES RATED WALLS.

MECHANICAL ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR	ISO	ISOLATOR (ISOLATION)
AP	ACCESS PANEL	LAT	LEAVING AIR TEMPERATURE
BFP	BACK FLOW PREVENTER	LF	LINEAR FEET
BHP	BRAKE HORSEPOWER	LVR	LOUVER
BLW	BELOW	LWT	LEAVING WATER TEMPERATURE
BWV	BACK WATER VALVE	MAU	MAKE-UP AIR UNIT
CD	CONDENSATE DRAIN	MEZZ	MEZZANINE
CHW	CIRCULATING HOT WATER	MXA	MIXED AIR
CLG	CEILING	N	NECK
CO	CLEANOUT	NC	NORMALLY CLOSED
CONN	CONNECTION	NO	NORMAL OPEN
CONSTR	CONSTRUCTION	OA	OUTSIDE AIR
CONT	CONTINUOUS OR CONTINUED	OPNG	OPENING
CU	CONDENSING UNIT	OPR	OPERATING
CW	COLD WATER	PG	PRESSURE DROP
DF	DRINKING FOUNTAIN	PG	PRESSURE GAUGE
DIFF	DIFFUSER	PLBG	PLUMBING
DMPR	DAMPEN	PRV	POWER ROOF VENTILATOR
DOWN	DOWN	RA	RETURN AIR
EA	EXHAUST AIR	RADN	RADIATION
EA	ENTERING AIR TEMPERATURE	RD	ROOF DRAIN
EF	EXHAUST FAN	RECIRC	RECIRCULATE
EHC	ELECTRIC HEATING COIL	RF	RETURN FAN
EL	ELEVATION	RHC	REHEAT COIL
ESP	EXTERNAL STATIC PRESSURE	RPZ-BFP	REDUCED PRESS. ZONE B.F. PREVENTER
EWH	ELECTRIC WATER HEATER	RWL	RAINWATER LEADER
EXH	EXHAUST	SA	SUPPLY AIR
FCO	FLOOR CLEANOUT	SAN	SANITARY
FCU	FAN COIL UNIT	SCW	SOFTENED COLD WATER
FD	FLOOR DRAIN	SD	STORM DRAIN
FDC	FIRE DEPARTMENT CONNECTION	SF	SUPPLY FAN
FHC	FIRE HOSE CABINET	SL	STORM LEADER
FILT	FILTER	SLV	SLEEVE
FIXT	FIXTURE	SP	STATIC PRESSURE
FP	FIRE PROTECTION	SP	SUMP PUMP
FPM	FEET PER MINUTE	SPKLR	SPRINKLER
FSV	FIRE SERVICE VALVE	STM	STEAM
FSW	FLOW SWITCH	STR	STORM
G	GAS	SU	SUPPLY UNIT
GPH	GALLONS PER HOUR	T	THERMOSTAT
GW	GREASE WASTE	TRANS	TRANSFER
HB	HOSE BIBB	TSP	TOTAL STATIC PRESSURE
HDCP	HANDICAPPED	UG	UNDERGROUND
HSTAT	HUMIDISTAT	UH	UNIT HEATER
HTG	HEATING	V	VENT
HW	HOT WATER	VD	VOLUME DAMPER
ID	INDIRECT DRAIN	VTR	VENT THRU ROOF
INSUL	INSULATION	WG	WATER GAUGE
INV EL	INVERT ELEVATION	WH	WALL HYDRANT
IRR	IRRIGATION WATER	WPD	WATER PRESSURE DROP

MECHANICAL SYMBOL LEGEND

	DOMESTIC COLD WATER (CW)		WATER HAMMER ARRESTOR WITH CHECK VALVE		DRAIN VALVE		LINEAR DIFFUSER
	DOMESTIC HARD COLD WATER (CHW)		FLOOR REGISTER (PIPE)		CONNECT TO EXISTING		FLEX DUCT
	TEMPERED DOMESTIC HOT WATER (120° F)		FLOOR DRAIN (PIPE)		SIAMESE FIRE DEPT. CONNECTION		ROOF (PRV) EXHAUST FAN
	DOMESTIC HOT WATER (140° F)		UP		SUPPLY, RETURN AND EXHAUST AIR		CABINET UNIT HEATER
	RECIRCULATION HOT WATER (CHW)		TEE AT THE BOTTOM / DOWN		MOTORIZED DAMPER		VAV BOX WITH COIL
	SANITARY WASTE UNDERGROUND		CLEANOUT FLOOR / CEILING CLEANOUT		FIRE/SMOKE DAMPER		SUPPLY DUCT ELBOW WITH TURNING VANES
	GREASE WASTE UNDERGROUND		PIPE CAP		SMOKE DAMPER		STANDARD OR LINED DUCT (SUPPLY, RETURN, EXHAUST). DUCT IS LABELED TO INDICATE INTERNAL DUCT DIMENSION. SEE SPECIFICATION FOR INSULATION.
	SANITARY WASTE ABOVE GROUND		CHECK VALVE		FIRE DAMPER		STANDARD ROUND TAKEOFF (CONICAL BELL MOUTH) WITH VOLUME DAMPER
	VENT		STOP & WASTE VALVE		VOLUME DAMPER (MANUAL)		GAS PRESSURE REGULATOR
	VENT THRU ROOF		CIRCUIT BALANCING VALVE		EXHAUST REGISTER		WALL HYDRANT
	NATURAL GAS		PRESSURE REDUCING VALVE		CEILING SUPPLY DIFFUSER		HOSE BIBB
	CONDENSATE DRAIN PIPING		PRESSURE RELIEF VALVE		RETURN AIR GRILLE/REGISTER		THERMOMETER
	THERMOSTAT		BALL VALVE		RETURN AIR GRILLE/REGISTER WITH SOUND BOOT		FLOW SWITCH
	SPACE TEMPERATURE SENSOR		CONTROL VALVE (TWO-WAY)		SIDEWALL SUPPLY REGISTER		DOUBLE WALL (SUPPLY, RETURN, EXHAUST). DUCT IS LABELED TO INDICATE INTERNAL DUCT DIMENSION.
	HUMIDISTAT		FLOW DIRECTION		SIDEWALL RETURN OR EXHAUST GRILLE		
	CARBON DIOXIDE SENSOR		PIPE UNION		FLOOR REGISTER		
	TEMPERATURE GAUGE		IN-LINE PUMP				
	NORMALLY OPEN		FLOOR DRAIN				
	NORMALLY CLOSED		FLOOR SINK				
	VARIABLE FREQUENCY DRIVES		BREAK IN MATERIAL FOR VISUAL PURPOSES				

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MECHANICAL TITLE SHEET

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