

**GENERAL NOTES**

- COORDINATE THE LOCATION OF RIGS, THERMOSTATS, GAS OUTLETS, ETC. WITH ALL CASework EQUIPMENT, MECHANICAL ROOM EQUIPMENT, ETC. PRIOR TO CASework INSTALLATION. WORK NOT SO COORDINATED SHALL BE FINISHED AND PROTECTED INSTALLED AT THE EXPENSE OF THE CONTRACTOR.
- THE CONTRACTOR SHALL EXERCISE EXTREME CARE IN THE COURSE OF THEIR WORK SO AS TO INSURE THAT THEY DO NOT INTERRUPT ANY EXISTING SERVICE. FOR SAFETY PURPOSES, PAY PARTICULAR ATTENTION TO THIS NOTE. ALL WORK SHALL BE PERFORMED IN ACCORD WITH ALL FEDERAL, STATE AND/OR LOCAL RULES, REGULATIONS, STANDARDS AND SAFETY REQUIREMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPLICABLE MUNICIPALITY OR UTILITY COMPANY STANDARDS. IN ALL CASES, THE MOST STRINGENT REQUIREMENT SHALL APPLY.
- WHERE WORK IS REQUIRED ABOVE EXISTING LAY-IN PLASTER OR GYPSUM BOARD CEILINGS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL NEW TILE AND GIRD SHALL MATCH THE SURROUNDING AREAS. ALL PATCHING WORK SHALL MATCH ADJACENT SURFACES.
- ALL NEW WORK SHALL BE AWAY FROM STRUCTURE, NOT FROM THE WORK OF OTHER TRADES, WHETHER EXISTING OR NEW.
- PATCH, REPAIR AND PAINT OR FINISH WALL CEILING FOR (TO OWNERS' STANDARD) EXISTING WALLS, CEILINGS, ETC. THAT ARE TO REMAIN IF DAMAGED DURING CONSTRUCTION. REPAIRS SHALL MATCH EXISTING SURFACES TO THE SATISFACTION OF THE ARCHITECT AND OWNER'S REPRESENTATIVE.
- RESERVE ALL APPLICABLE CODES, RULES AND REGULATIONS THAT MAY APPLY TO THIS PROJECT (INCLUDING FEDERAL, STATE, COUNTY, CITY, FEDERAL, MUNICIPALITY, UTILITY COMPANY, COMMONWEALTH OF KENTUCKY, ETC.)
- CONTRACTOR SHALL BE AWARE OF UNSEEN PLUMBING, HVAC AND ELECTRICAL WORK DURING DEMOLITION. ITEMS ARE UNCOVERED AND DURING ALTIMATE ROUTE TO RUN THESE ITEMS, THEN CONTACT THE ENGINEERS TO REVIEW THE ROOMS.
- WHERE FIRE PROOFING IS SPRAWN ON EXISTING STRUCTURE, ALL EXISTING CONDUITS, WATER, HYDRONIC, STEAM, CHILLED WATER, FIRE PROTECTION LINES, MED GAS, ETC. SHALL BE LOWERED TO BE BELOW FLOOR FINISHNESS OF THE ROOMING WITH NO INTERFERENCE.
- ALL PENETRATIONS OF FIRE AND SMOKE RATED ASSEMBLIES SHALL BE APPROVED BY THE STAFF PER APPROVED UL LISTED FIRE RATED PENETRATIONS. PENETRATIONS SHALL BE INSTALLED PER PENETRATIONS.
- ALL DUCTWORK, PIPING, CONDENSERS, ETC. IN ROOMS WITH CEILINGS SHALL BE ABOVE CEILING EXCEPT AS NOTED.
- INSTALL AIR VENTS AT HIGH POINTS IN PIPING AND DRAINS IN LOW POINTS. USE CARE TO AVOID FREEZING OF EXTERIOR VENTS.
- LOCATIONS OF PIPING, DUCTS AND EQUIPMENT ARE APPROXIMATE AND SUBJECT TO CHANGE AND FIELD ADJUSTMENTS IN THE FIELD. DO NOT SCALE THE DRAWINGS.
- ALL GYPSUM IN PARTS AND PIPING ARE NOT NECESSARILY SHOWN. PROVIDE ADDITIONAL GYPSUM WHERE NECESSARY.
- COORDINATE ALL HVAC WORK WITH ELECTRICAL, PLUMBING AND OTHER TRADES. PROVIDE PROTECTION WITH PIPING, DUCTS, SPRINKLER AND OTHER EQUIPMENT.
- INSTALL ALL PIPING, DUCTWORK AND EQUIPMENT IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS. IF IN CONFLICT WITH THE DESIGN INDICATED IN CONTRACT DOCUMENTS, ADVISE THE ENGINEERS PRIOR TO INSTALLATION FOR CLARIFICATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPLICABLE MUNICIPALITY OR UTILITY COMPANY STANDARDS FOR ALL EQUIPMENT.
- SEAL AIRIGHT AROUND ALL DUCTS AND PIPING PENETRATIONS THROUGH WALLS, CEILING AND FLOOR. PROVIDE THE STRAPPING IN THE FURNISH, SEAL AROUND ALL DUCTS AND PIPING PENETRATIONS THROUGH WALLS, CEILING AND FLOOR. PROVIDE THE STRAPPING IN THE FURNISH, SEAL ALL NEW DUCTWORK JOINTS WITH UNITED WOODL, RONGER 601 OR EQUAL, WATER BREED SOLVENT.
- ALL MOTOR DRIVEN EQUIPMENT SHALL BE INSTALLED WITH FLEXIBLE CONNECTIONS TO DUCTWORK, PIPING, ETC., UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL RELOCATE OR AVOID ANY EXISTING EQUIPMENT APPEARANCES, ETC., THAT CONFLICT WITH NEW WORK.
- WHERE MOUNTING HEIGHTS ARE NOT INDICATED OR ARE IN CONFLICT WITH ANY OTHER BUILDING SYSTEM, CONTACT THE ENGINEERS BEFORE INSTALLATION. REVISIONS OF ALL MECHANICAL WALL, FURNISH AND ELECTRICAL DRAWINGS, CEILING HEIGHTS AND OTHER DETAILS OF THESE DOCUMENTS.
- DOUBLE WIPER TURNING VANES SHALL BE INSTALLED IN ALL SUPPLY, RETURN, AND EXHAUST DUCTWORK ELBOWS, TURNING VANES NOT REQUIRED FOR KITCHEN EXHAUSTS.
- ANY VIBRATING, OSCILLATING OR OTHER NOISE OR VIBRATION PRODUCING EQUIPMENT SHALL BE ISOLATED FROM SURROUNDING SYSTEMS IN AN APPROPRIATE MANNER. NOISE OR VIBRATION PRODUCING SYSTEMS IN ANY SPACE WHERE APPLIED TO CEILING SHALL BE ISOLATED FROM THE CEILING CONTRACTOR'S EXPENSE. THE FINAL DECISION ON THE SIMILARITY OF A PARTICULAR INSTALLATION'S ACCEPTABILITY SHALL BE THAT OF THE DESIGNER.
- DEVIATIONS IN SIZE, CHARACTER, FIT, FINISH, ETC. FOR EQUIPMENT FROM THE LISTED AS BASIS OF DESIGN SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROVISIONS REQUIRED TO ACCOMMODATE A DEVIATION, WHETHER PROVIDED BY THE ENGINEERS OR NOT. SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- VALVES, BALANCING DAMPERS OR ANY MECHANICAL/ELECTRICAL ITEM REQUIRING ACCESS SHALL NOT BE LOCATED ABOVE A HANDY REACHED ACCESS DOOR. ACCESS DOORS SHALL BE PLACED UNDER THE HEAD TO ALLOW EASY MAINTENANCE AND ADJUSTMENT. ADJUSTMENT AT SUCH ITEMS SHALL BE ACCOMMODATED BY THE CONTRACTOR. PROVIDE ACCESS TO THE CEILING IN GENERAL. ALL SUCH ITEMS UNLESS INDICATED OTHERWISE SHALL BE MOUNTED SIX TO TWELVE INCHES ABOVE THE CEILING. IF IN DOUBT, CONTACT ENGINEER PRIOR TO INSTALLATION.
- ALL WALLS, VALVES AND SIMILAR UNDERGROUND STRUCTURES SHALL HAVE THE TOP ELEVATION SET FLUSH WITH FINISHED GRADE UNLESS SPECIFICALLY NOTED OTHERWISE.
- WHEN RUNNING ANY TYPE OF PIPING BELOW A CEILING, OR IN THE ZONE OF THE CEILING, THE PIPING SHALL BE BACKFILLED WITH COMMERCIAL FLOWABLE FILL PER SPECIFICATIONS. WHENEVER POSSIBLE, LOCATE PIPING OUTSIDE OF THE ZONE OF ANY UNDERGROUND STRUCTURE. IN THE AREA UNDER THE CEILING, PROVIDE ACCESS TO THE CEILING THROUGH ACCESS DOORS TO THE EDGE OF THE FLOOR OF ALL SIZES OF THE FLOOR. ADDITIONALLY, GYPSUM BOARD, WALLS AND OTHER UNDERGROUND STRUCTURES SHALL BE ZONE OF INFLUENCE.

**SYMBOLS AND ABBREVIATIONS**

NOTE: NOT ALL SYMBOLS AND ABBREVIATIONS NECESSARILY USED ON THIS PROJECT.

	SUPPLY DIFFUSER		
	RETURN GRILLE		
	EXHAUST GRILLE		
	SLOT DIFFUSER		
	COMPRESSED AIR SUPPLY AIR DUCT	AFR	HANDOUT
	RETURN AIR DUCT	CAV	PRESSURE GAGE & COOK ABOVE FINISHED FLOOR
	OUTSIDE AIR DUCT	CD	ABOVE FINISHED FLOOR
	EXHAUST AIR DUCT	CL	CONSTANT AIR VOLUME RETURN BOX
	VOLUME DUMPER	CL	CONSTANT AIR VOLUME RETURN BOX
	EXHAUST AIR DUCT TURNING TEE (SQUARE FOR OTHER DUCT TYPES) (SQUARE FOR OTHER DUCT TYPES)	CA	COST IRON
	WAGONIZED DAMPER	DA	DOWN
	FLEXIBLE DUCT	FD	FIRE DAMPER
	THERMOSTAT, TEMPERATURE SENSOR	ID	INFER DIMENSION
	STEAM TRAP	NC	NOMINALLY CLOSED
	LOW PRESSURE STEAM SUPPLY (I)	NO	NOT IN CONTACT
	HIGH PRESSURE STEAM SUPPLY (I)	NS	NOMINALLY OPEN
	MEDIUM PRESSURE STEAM CONDENSATE (I)	OD	OUTSIDE DIMENSION
	LOW PRESSURE STEAM CONDENSATE (I)	OFD	CONTRACTOR FINISHED, CONTRACTOR INSTALLED
	STEAM CONDENSATE PUMP DISCHARGE RETURN/EVENT	OFI	OWNER FINISHED, CONTRACTOR INSTALLED
	COOLING TOWER (CONDENSER WATER) SUPPLY	OR	OWNER FINISHED, OWNER INSTALLED
	COOLING TOWER (CONDENSER WATER) RETURN	FRS	PRESSURE REDUCING STATION
	CONDENSATE DRAIN	FRV	PRESSURE REDUCING VALVE (STEAM, WATER, OR GAS)
	HOT WATER RETURN	FR	POUNDS PER SQUARE INCH
	HOT WATER SUPPLY	SO	SMOKE DAMPER
	CHILLED WATER RETURN	TB	THIRTY BLOCK
	CHILLED WATER SUPPLY	TE	TOP ELEVATION
	FIRE/SMOKE DAMPER WITH ACCESS DOOR	TRP	TYPICAL
	FIRE DAMPER WITH ACCESS DOOR	UN	UNLESS OTHERWISE NOTED
	SMOKE DAMPER WITH ACCESS DOOR	VA	VARIABLE AIR VOLUME RETURN BOX
	PIPE ELBOW TURNING UP/TURNING DOWN	VP	VARIABLE FREQUENCY DRINKS
	AIR DISTRIBUTION DEVICE DESIGNATOR		
	XXX ROOMS ONLY		
	CONNECT TO EXISTING (VERIFY EXACT LOCATION)		
	BALANCING VALVE		
	TWO WAY CONTROL VALVE (CONTROL VALVE GENERAL)		
	CONTROL VALVE (S-WAY)		
	BATTERY VALVE		
	TRIPLE DUTY VALVE		
	LINEN		
	PET'S PLUG		
	CHECK VALVE		
	DOUBLE CHECK VALVE ASSEMBLY		
	STRAINER		
	O S & Y VALVE (GATE)		
	PRESSURE REDUCING VALVE (STEAM, GAS, WATER, ETC.)		
	BALL VALVE		
	SAFETY RELIEF VALVE		
	GLOBE VALVE		
	MANUAL AIR VENT (AUTOMATIC AIR VENT WITH CIRCLE)		
	PUMP STATION DIFFUSER		
	TRANSMITTER		
	PRESSURE SWITCH		
	TAMPER SWITCH		
	FLOW SWITCH		
	ACCESS DOOR IN BOTTOM OF DUCT		
	ACCESS DOOR IN SIDE OF DUCT		
	EXISTING PIPING OR DUCTWORK (THIN LINE)		
	ABANDONED EXISTING PIPING (THIN SOLID LINE)		
	PIPING TEE (TURNED UP/DOWN)		
	LIMIT OF RENOVATION		
	EXISTING DUCT OR PIPING TO BE REMOVED		
	MECHANICAL EQUIPMENT RESERVOIR		

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