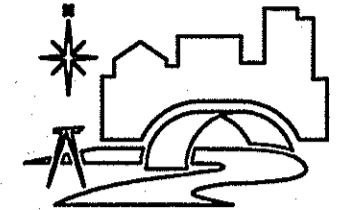


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MECHANICAL ABBREVIATIONS

A	AF AF ADJ AC AFMS AHU ALT ALUM ANGL APPROX ARR ARCH AUTO	ABOVE FINISHED FLOOR ACCESS PANEL ADJUSTABLE AIR CONDITIONER AIR FLOW MEASURING STATION AIR HANDLING UNIT ALTERNATE ALUMINUM ANGLE APPROXIMATELY ARRANGEMENT ARCHITECTURAL/ARCHITECT AUTOMATIC	F	FCU FPM FPS FWTR FLOR F & T FLR FD FDMP	FAHRENHEIT FAN COIL UNIT FEET FEET PER MINUTE FEET PER SECOND FILTERED WATER FLOOR FLOAT & THERMOSTATIC TRAP FLOOR DRAIN FIRE DAMPER	N	NAT NOM NO NO or #	NATURAL NOMINAL NORMALLY CLOSED NORMALLY OPEN NUMBER	N	TA TC TCC TD TSTAT THRU TYP	TRANSFER AIR TEMPERATURE TEMPERATURE CONTROL TEMPERATURE CONTROL CONTRACTOR TEMPERATURE DIFFERENCE THERMOSTAT THROUGH TYPICAL
B	BDD BFP BTU BTUH BLDG	BACKDRAFT DAMPER BACKFLOW PREVENTER BRITISH THERMAL UNIT BTU PER HOUR BUILDING	G	GPH GPM GALV GA GNL GR	GALLON GALLONS PER HOUR GALLONS PER MINUTE GALVANIZED GAUGE GENERAL GRILLE	P	PIV PLBC PRLUM PVC LB or # PSI PSIG PRV	POST INDICATOR VALVE PLUMBING PRELUMINATED POLYVINYL CHLORIDE POUND POUNDS/SQUARE INCH ABSOLUTE POUNDS/SQUARE INCH GAUGE PRESSURE REDUCING VALVE or POWER ROOF VENTILATION	U	UL ULNEX UR UH	UNDERWRITERS LAB UNEAVACATED URINAL UNIT HEATER
C	CAB CUH CAP C CLG CFU CD CMB CMPR CONC CND CONN CONT CONTR CU Ft or Ft ³ CFM	CABINET CABINET UNIT HEATER CAPACITY CAST IRON CENTER LINE CEILING COLD WATER FIXTURE UNITS CLEANOUT COLD WATER COMBINATION COMPRESSOR CONCRETE CONDENSATE CONNECTION CONTINUOUS/CONTINUATION CONTRACTOR CUBIC FEET CUBIC FEET PER MINUTE	H	HD HVAC HST HP HOR HB HW HFU	HEAD HEIGHT HIGH PRESSURE OR HORSE POWER HORIZONTAL HOSE BIBB HOT WATER HOT WATER FIXTURE UNITS M	Q			V	VAC VAV VFD V-VT VEL V VTR VERT VIB VCP VOL	VACUUM VARIABLE AIR VOLUME VARIABLE FREQUENCY DRIVE VARIABLE VOLUME AND TEMPERATURE VELOCITY VENT VENT THROUGH ROOF VERTICAL VIBRATOR/VIBRATION VITRIFIED CLAY PIPE VOLUME
D	DMP DEPT DIA. or Ø DIFF DIM DDC DX DISCHG DS DFU DF DB	DAMPER DEPARTMENT DIAMETER DIFFUSER DIMENSION DIRECT DIGITAL CONTROL DIRECT EXPANSION DISCHARGE DOWNSPOUT DRAINAGE FIXTURE UNITS DRAINING FOUNTAIN DRY BULB	I	IN or INT ID INSUL INVERT	INCH INTERIOR INSIDE DIAMETER INSULATION INVERT ELEVATION	R	RAD RML RFG RFG RFR RCP REL REQ'D RA REV RFM RF RD RM	RADIATOR or RADIATION RAIN WATER LEADER RECESSED REDUCED PRESSURE ZONE BACKFLOW PREVENTOR REFRIGERANT REGISTER REINFORCED CONCRETE PIPE RELIEF REQUIRED RETURN RETURNED AIR REVISIONS REVOLUTIONS PER MINUTE ROOF ROOF DRAIN ROOM	W	WH W WFU WTR WC WT WB WTH W/O	WALL HYDRANT WASTE WASTE FIXTURE UNITS WATER WATER CLOSET WEIGHT WET BULB WITH WITHOUT
E	EA ELEC EWC EL EAT EWT EPT E EXH EXIST EXP EXT	EACH ELECTRICAL ELECTRIC WATER COOLER ELEVATION ENTERING AIR TEMPERATURE ENTERING WATER TEMPERATURE EQUIPMENT EXHAUST FAN EXHAUST EXISTING EXPANSION EXTERIOR	J			S	SAN SCHED SEN SS SHT SHR SHTW SFWTR SPEC SQ FT SS or FT ² STD SP STM STRM STRUC SUCT SA SUSP SW or \$	SANITARY SCHEDULE SENSOR SERVICE SINK SHELF SHOWER SHOWER SOFT WATER SPECIFICATION SQUARE FOOT STAINLESS STEEL STANDARD STATIC PRESSURE STEAM STORM STRUCTURAL SUCTION SUPPLY AIR SUSPEND SWITCH	X		
			K	KW	KILOWATT				Y		
			L	LAV LV LAT LWT LS LF LQD	LAVATORY LEAVING LEAVING AIR TEMPERATURE LEAVING WATER TEMPERATURE LENGTH LINEAR FOOT LIQUID				Z		
			M	MH MBH MFR MAX MECH MIN MISC MTR	MANHOLE THOUSAND BTU'S PER HOUR MANUFACTURER MAXIMUM MECHANICAL MINIMUM MISCELLANEOUS MOTORIZED						

LIST OF DRAWINGS	
SHEET NUMBER	SHEET NAME
MP0.1	MECHANICAL COVER SHEET
MP0.2	MECHANICAL SPECIFICATIONS AND SEQUENCE OF OPERATIONS
M1.1	MAIN FLOOR HVAC PLAN
M1.2	MAIN FLOOR GAS PIPING PLAN
M1.3	ROOF HVAC PLAN
M5.1	MECHANICAL DETAILS AND SCHEDULES
P1.1	MAIN FLOOR PLUMBING PLAN
P4.1	ENLARGED PLUMBING PLANS
P5.1	PLUMBING SECTIONS & DETAILS
P6.1	PLUMBING SCHEDULES
P9.1	PLUMBING RISERS
FD.1	FIRE PROTECTION SPECIFICATIONS
FD.2	FIRE PROTECTION SPECIFICATIONS
FT.1	FIRE PROTECTION PLAN

MECHANICAL LEGEND

HYDRONIC PIPING SYMBOLS:	HVAC DUCT SYMBOLS:	CONTROL SYMBOLS:	FIRE PROTECTION SYMBOLS:	PLUMBING PIPING SYMBOLS:	PLUMBING SYMBOLS:
CHILLED WATER RETURN CHILLED WATER SUPPLY CONDENSER WATER RETURN CONDENSER WATER SUPPLY FUEL OIL VENT FUEL OIL RETURN FUEL OIL SUPPLY HEATING WATER RETURN HEATING WATER SUPPLY HIGH PRESSURE STEAM RETURN HIGH PRESSURE STEAM SUPPLY LIQUID PROPANE LOW PRESSURE STEAM RETURN LOW PRESSURE STEAM SUPPLY NATURAL GAS PUMPED CONDENSATE RETURN REFRIGERANT LIQUID REFRIGERANT SUCTION	FIRE SMOKE DAMPER FIRE DAMPER VOLUME DAMPER BACK DRAFT DAMPER MOTORIZED DAMPER FLEXIBLE DUCT SUPPLY DIFFUSER LINEAR SUPPLY DIFFUSER RETURN GRILLE EXHAUST GRILLE TYPICAL DUCT SIZING SUPPLY/OUTDOOR AIR DUCT UP SUPPLY/OUTDOOR AIR DUCT DOWN RETURN AIR DUCT UP RETURN AIR DUCT DOWN EXHAUST AIR DUCT UP EXHAUST AIR DUCT DOWN VARIABLE AIR VOLUME BOX (VAV) AIR FLOW DIRECTION POINT OF CONNECTION TO EXISTING	THERMOSTAT REVERSE ACTING THERMOSTAT HUMIDISTAT SENSOR PRESSURE GAUGE	UPRIGHT SPRINKLER PENDANT SPRINKLER CONCEALED PENDANT SPRINKLER SIDE WALL SPRINKLER EXTENDED COVERAGE SIDE WALL SPRINKLER FLOW SWITCH FIRE DEPARTMENT SIAMSE CONNECTION	SANITARY PIPE SANITARY VENT PIPE STORM DRAIN PIPE DOMESTIC COLD WATER DOMESTIC HOT WATER DOMESTIC SOFT WATER DOMESTIC FILTERED WATER DOMESTIC HOT WATER RETURN COMPRESSED AIR FLOW DIRECTION PIPE DOWN PIPE UP PIPE CAP FLOW FITTING	PIPE UP PIPE DOWN FLOOR DRAIN TELL-TALE FLOOR DRAIN FLOOR SINK (FULL GRATE) FLOOR SINK (HALF GRATE) FLOOR SINK (PARTIAL GRATE) FLOOR CLEAN-OUT WALL CLEAN-OUT WATER METER GAS METER HOSE BIBB/WALL HYDRANT RECIRCULATING PUMP BACKFLOW PREVENTER RPZ BALL VALVE CONTROL VALVE GATE VALVE ANGLE GATE VALVE GLOBE VALVE ANGLE GLOBE VALVE HOSE GATE VALVE MOTORIZED GATE VALVE NEEDLE VALVE PLUG VALVE PRESSURE REDUCING VALVE PRESSURE RELIEF VALVE SPRING CHECK VALVE SWING GATE CHECK VALVE SOLENOID VALVE STRAINER w/BLOW-OFF VALVE UNION

REVISION _____ DATE _____

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Engineer under the laws of the state of Minnesota.

Perry R. Nether, P.E.
Perry R. Nether, P.E.
Date: 2-09-07 License No. 22468

MECHANICAL COVER SHEET

PROJECT NO.:	06752
SCALE:	NO SCALE
DATE:	2-09-07
DRAWN BY:	KLHURM
DRAWN BY:	PRN

MP0.1