

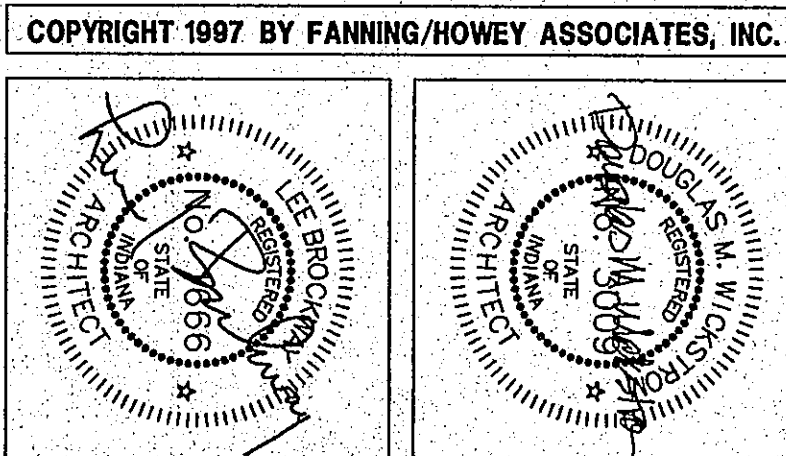
MECHANICAL ABBREVIATIONS

ABBREVIATIONS LISTED ON DRAWINGS IN GENERAL ARE LISTED BELOW. REFER TO CSI DOCUMENT TD 3-4 DATED NOVEMBER 1986 FOR ANY ABBREVIATION USED ON THE DRAWINGS BUT ARE NOT LISTED BELOW.

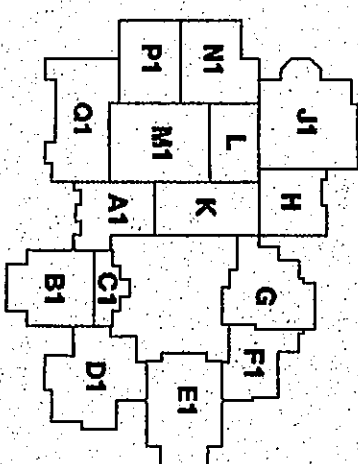
AC	AIR CONDITIONING	UP	UNIT HEATER
ACCU	AIR COOLED CONDENSING UNIT	UON	UNLESS OTHERWISE NOTED
ACU	AIR COOLING UNIT	UV	UNIT VENTILATION
AFF	ABOVE FINISHED FLOOR		
AHU	AIR FLOW MEASURING STATION		
AMS	AIR HANDLING UNIT		
AL	ALUMINUM	V	VENT
ALT	ALTERNATE	VAC	VACUUM
AMB	AMBIENT	VAV	VARIABLE AIR VOLUME
AP	ACCESS PANEL	VB	VOLUME BREAKER
APPROX	APPROXIMATE	VD	VOLUME DAMPER
AR	ACID RESISTANT	VEL	VELOCITY
ARCH	ARCHITECTURAL	VF	VERIFY IN FIELD
ARY	AIR RELIEF VALVE	VWF	VARIABLE VOLUME-REHEAT
AT	AIR TRANSFER		
ATM	AIR TIGHTNESS		
AUTO	AUTOMATIC		
AVE	AIR VOLUME EXTRACTOR		
BD	BAROMETRIC DAMPER	W	WIDE
BDD	BACKDRAFT DAMPER	W/O	WITHOUT
BHP	BREAK HORSEPOWER	WB	WET BULB TEMPERATURE
BLOG	BUILDING	WOO	WALL CLEANOUT
BOD	BOTTOM OF DUCT		
BOT	BOTTOM		
C	CONNECTOR		
CAB	CABINET		
CAN	CANAL		
CH	CANAL EFFECT PER MINUTE		
CHNG	CHILLED WATER RETURN		
CHWS	CHILLED WATER SUPPLY		
CHWP	CHILLED WATER PUMP		
CL	CENTRIFUGAL		
CLG	CEILING		
CMP	CORRUGATED METAL PIPE		
COL	COLUMN		
CONC	CONCRETE		
COND	CONDENSER		
CONSTR	CONSTRUCTION		
CONTR	CONTRACTOR		
CPD	CONDENSATE PUMP DISCHARGE		
CRSR	COMPRESSOR		
CW	COLD WATER (DOMESTIC)		
CWP	CONDENSER WATER PUMP		
CR	CONDENSER WATER RETURN		
CNS	CONDENSER WATER SUPPLY		
D	DEPTH/DEEP		
DB	DRY BULB TEMPERATURE		
DA/4	DIAMETER		
DIF	DIFFUSER		
DISCH	DISCHARGE		
DLR	DOUBLE LOWER REGISTER		
DWG	DRAWING		
DUC	DOOR UNDER CUT		
E	EXHAUST FAN		
EFF	EFFICIENCY		
EG	EXHAUST GRILLE		
ELEC	ELECTRIC		
ELEV	ELEVATOR		
END	END OF MAIN DRIP		
EMER	EMERGENCY		
EP	ELECTRIC/PNEUMATIC		
EQUIP	EQUIPMENT		
EXH	EXHAUST		
EXST	EXISTING		
EXP	EXPANSION		
EXT	EXTENSION		
F	FLOAT AND THERMOSTATIC TRAP		
FC	FAN COIL UNIT		
F/SD	COMBINATION FIRE/SMOKE DAMPER		
FD	FLOOR DRAIN		
FDI	FIRE DAMPER TYPE		
FN FL/FF	FINISH FLOOR		
FLR	FLOOR		
FOR	FUEL OIL RETURN		
FOS	FUEL OIL SUPPLY		
FOV	FUEL OIL VENT		
FP	FIRE PROTECTION		
FT	FEET PER MINUTE		
FT	FEET		
FUR	FURNACE		
G	GAS (NATURAL)		
GA	GALVE		
GAL	GALLON		
GALV	GALVANIZED		
GPM	GALLONS PER MINUTE		
H	HEIGHT/HIGH		
HOS	HEAVY DUTY GRILLE		
HDE	HADWARE		
HHR	HEATING HOT WATER RETURN		
HHS	HEATING HOT WATER SUPPLY		
HHP	HEATING HOT WATER PUMP		
HP	HORSEPOWER		
HRS	HIGH PRESSURE STEAM RETURN		
HTR	HEATER		
HVAC	HEATING/VENTILATING/AIR CONDITIONING		
HW	HOT WATER (DOMESTIC)		
ID	INSIDE DIAMETER		
INCIN	INCINERATOR		
INSUL	INSULATION/INSULATE		
INTR	INTERIOR		
INV	INVERT		
KIT	KITCHEN		
KW	KILOWATT		
L	LENGTH/LONG		
LAV	LAVATORY		
LP	LIQUID PETROLEUM		
LPS	LOW PRESSURE STEAM RETURN		
LPS	LOW PRESSURE STEAM SUPPLY		
LVR	LOUVER		
MAX	MAXIMUM		
MACH	MECHANICAL		
MFR	MANUFACTURER		
MN	MINIMUM		
MISC	MISCELLANEOUS		
MRS	MEDIUM PRESSURE STEAM RETURN		
MPS	MEDIUM PRESSURE STEAM SUPPLY		
MD	MOUNTED		
NIC	NOT IN CONTRACT		
NO/#	NUMBER		
NOM	NOMINAL		
NIS	NOT TO SCALE		
OA	OUTSIDE AIR		
OC	ON CENTER		
OD	OUTSIDE DIAMETER		
OPNG	OPENING		
OR	OIL RETURN		
OS	OIL SUPPLY		
OSD	OPEN SITE DRAIN		
PE	PNEUMATIC/ELECTRIC		
PREFAB	PRECAST		
PRV	PRESSURIZED		
PSF	POUNDS PER SQUARE FOOT		
PSI	POUNDS PER SQUARE INCH		
PTAC	PACKAGE TERMINAL AIR CONDITIONING UNIT		
PVC	POLYVINYL CHLORIDE		
R/RAD	RADIUS		
RACU	RETURN AIR		
RADU	RADIATION		
RG	RETURN AIR GRILLE		
RGP	REINFORCED CONCRETE PIPE		
RO	ROOF DRAIN		
REG	REGISTER		
RECD	REQUIRED		
RHW	REGULATED HOT WATER (DOMESTIC)		
RL	REFRIGERANT LIQUID		
RL48	RETURN LINEAR SLOT DIFFUSER (48" LONG)		
RM	ROOM		
RP	RADIANT PANEL		
RPM	REVOLUTIONS PER MINUTE		
RS	REFRIGERANT SUCTON		
RSD	ROUND SUPPLY DIFFUSER		
SA	SUPPLY AIR		
SCHED	SCHEDULE		
SD	SUPPLY DIFFUSER		
SG	SUPPLY AIR GRILLE		
SHIT	SHEET		
SHM	SIMILAR		
SL48	SUPPLY LINEAR SLOT DIFFUSER (48" LONG)		
SP	STATIC PRESSURE		
STC(S)	STANDARD		
STD	STANDARD		
TC	TEMPERATURE CONTROL		
TD	TEMPERATURE DIFFERENCE		
TXV	TEMPERATURE VALVE		
TYP	TYPICAL		

MECHANICAL SYMBOLS

	PIPE TURNED UP		ECCENTRIC REDUCER
	PIPE TURNED DOWN		FLOW CONTROL VALVE
	PIPE OUT TOP		THERMOMETER
	PIPE OUT BOTTOM		PRESSURE GAUGE
	INDICATES DIRECTION OF DOWNWARD PITCH		GAS SHUT-OFF COOK
	INDICATES EXPANSION LOOP		LUBRICATED PLUG VALVE
	PIPE ANCHOR		STEAM PRESSURE REDUCING VALVE
	PIPE ALIGNMENT GUIDE		SAFETY PRESSURE RELIEF VALVE
	PIPE EXPANSION JOINT		GAS PRESSURE REDUCING/REGULATING VALVE
	STRAINER		CHAIN OPERATED VALVE
	UNION		DOUBLE CHECK VALVE ASSEMBLY
	GATE (SHUT-OFF) VALVE		REDUCED PRESSURE BACKFLOW PREVENTER
	BALL VALVE		ATMOSPHERIC VACUUM BREAKER
	CHECK VALVE (ARROW TOWARD DIRECTION OF FREE FLOW)		PRESSURE VACUUM BREAKER
	BALANCING VALVE		STEAM TRAP
	MOTOR OPERATED VALVE		HEATING HOT WATER SUPPLY
	PNEUMATIC OPERATED VALVE		HEATING HOT WATER RETURN
	SOLENOID OPERATED VALVE		CHILLED WATER SUPPLY
	2-WAY TEMPERATURE CONTROL VALVE		CHILLED WATER RETURN
	3-WAY TEMPERATURE CONTROL VALVE		HIGH PRESSURE STEAM SUPPLY
	BUTTERFLY VALVE		HIGH PRESSURE STEAM RETURN
	NEEDLE VALVE		MEDIUM PRESSURE STEAM SUPPLY
	WATER PRESSURE REDUCING/REGULATING VALVE		MEDIUM PRESSURE STEAM RETURN
	WATER PRESSURE RELIEF VALVE		LOW PRESSURE STEAM SUPPLY
	AIR RELIEF VENT		LOW PRESSURE STEAM RETURN
	CONNECT NEW TO EXISTING, VERIFY SIZE AND LOCATION OF EXISTING ON SITE		FUEL OIL SUPPLY
	THERMOSTAT		FUEL OIL RETURN
	PILOT THERMOSTAT		CONDENSER WATER SUPPLY
	THERMOSTAT WITH GUARD		CONDENSER WATER RETURN
	HUMIDISTAT		REFRIGERANT LIQUID
	KEY NOTES		REFRIGERANT SUCTON
	EQUIPMENT SCHEDULE NUMBER		ICE LOOP WATER SUPPLY
	EQUIPMENT NOTES		ICE LOOP WATER RETURN
	POINT OF NEW CONNECTION		
	FLAT OVAL DUCT		
	ROUND SPIRAL DUCT		
	12X12 RETURN GRILLE ASSEMBLY UNLESS OTHERWISE NOTED		
	TRANSFER DUCT - REFER TO DWGS FOR SIZE		
			SUPPLY AIR ELBOW UP
			EXHAUST/RETURN AIR ELBOW DOWN
			EXHAUST/RETURN AIR ELBOW UP
			DOUBLE SIDE TRANSITION
			SINGLE SIDE TRANSITION
			TOP TRANSITION (SLOPE ON TOP)
			BOTTOM TRANSITION (SLOPE ON BOTTOM)
			ELBOW UP DIMENSION DESCRIPTION: 24/12 TO = FLAT OVAL DUCT
			ELBOW DOWN
			ELBOW - RADIUS (R) = 1.5 TIMES DIAMETER OF DUCT
			HIGH EFFICIENCY TAKEOFF W/DAMPER, TYPICAL FOR DUCT TAKEOFFS.
			SUPPLY LINEAR SLOT DIFFUSER
			FLEXIBLE DUCTWORK
			NOTE: ALL SYMBOLS MAY NOT BE USED ON THIS PROJECT.



THE NEW
CHESTERTON HIGH SCHOOL
FOR THE
DUNELAND SCHOOL CORPORATION
CHESTERTON, INDIANA



Fanning/Howey Associates, Inc.
Architects Engineers Consultants

MECHANICAL ABBREVIATIONS	
DRAWN BY: SCB	COMM. NO.: 95067.00
CHECKED BY: CAM	DATE: APRIL 21, 1997
REVISIONS NO. DATE	
M1.1	

CHESTERTON HIGH SCHOOL
50687.00