MECHANICAL ABBREVIATION LIST

ABBREVIATION	DESCRIPTION
A	AMP, AMPERES
A/C & VENT	AIR CONDITIONING & VENTILATING
A/C UNIT	AIR CONDITIONING UNIT
A/E	ARCHITECT-ENGINEER
AAV	AUTOMATIC AIR VENT
ABS	ABSOLUTE
AC	ALTERNATING CURRENT
ACS DR	ACCESS DOOR
ACS PNL	ACCESS PANEL
ACST	ACOUSTIC
ACT	ACTUATOR
ACV	AUTOMATIC CONTROL VALVE
ADDL	ADDITIONAL
ADDM	ADDENDUM
ADDN	ADDITION
ADJS	ADJUSTABLE
AF	AIR FOIL
AFF	ABOVE FINISHED FLOOR
AFS	AIR FLOW SWITCH
AH	ALARM HORN
AHU	AIR HANDLING UNIT
AHR	ANCHOR
AI	ANALOG INPUT
AIR COMPR	AIR COMPRESSOR
ALM	ALARM
ALT	ALTERNATE
ALT	ALTITUDE
ALUM	ALUMINUM
AMS	AIR MEASURING STATION
ANNUN	ANNUNCIATION
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
AO	ANALOG OUTPUT
APD	AIR PRESSURE DROP
APPROX	APPROXIMATE
AQST	AQUASTAT
AR	ARGON
ARCH	ARCHITECTURAL
ARRG	ARRANGEMENT
AS	AUTOMATIC SPRINKLER
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS
ASPH	ASPHALT
ASR	AUTOMATIC SPRINKLER RISER
ASTM	AMERICAN SOCIETY FOR TESTING MATERIALS
AT	AIR TRAP
ATF	AUTOMATIC TRANSMISSION FLUID
ATM	ATMOSPHERE
ATT	ATTENUATOR
AUTO	AUTOMATIC
AUX	AUXILIARY
AVG	AVERAGE
AW	ACID WASTE
BC	BOTTOM CHORD
BDD	BACKDRAFT DAMPER
BF	BARRIER FREE
BF	BRAKE FLUID (LINE)
BFP	BACKFLOW PREVENTOR
BFVA	BUTTERFLY VALVE
BFW	BOILER FEED WATER (LINE)
BHP	BRAKE HORSEPOWER
BI	BACKWARDLY INCLINED
BITUM	BITUMINOUS
BJ	BALL JOINT
BLDG	BUILDING
BLR	BOILER
BLR HP	BOILER HORSEPOWER
BM	BENCHMARK
BMS	BUILDING MANAGEMENT SYSTEM
BOD	BOTTOM OF DUCT
BOP	BOTTOM OF PIPE
BOT	BOTTOM
BSMT	BASEMENT
Btu	BRITISH THERMAL UNIT
Btu/H	BRITISH THERMAL UNIT PER HOUR
BTWN	BETWEEN
BULLN	BULLETIN
BVA	BALL VALVE
BWG	BIRMINGHAM WIRE GAGE
C	COMMON
C TO C	CENTER TO CENTER
CA	COMPRESSED AIR
CAB	CABINET
CAP	CAPACITY
CAR	CARGON
CAV	CONSTANT AIR VOLUME
CB	CATCH BASIN
CC	COOLING COIL
CCW	COUNTERCLOCKWISE
CF/CI	CONTRACTOR FURNISHED / CONTRACTOR INSTALLED
CF/OI	CONTRACTOR FURNISHED / OWNER INSTALLED
CFH	CUBIC FEET PER HOUR
CFM	CUBIC FEET PER MINUTE
CFS	CUBIC FEET PER SECOND
CH	CHILLER
CHKV	CHECK VALVE
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CI	CAST IRON
CIR	CIRCLE, CIRCULAR, CIRCULATION
CISP	CAST IRON SOIL PIPE
CIWP	CAST IRON WATER PIPE
CL	CENTERLINE
CLG	CEILING
CLO	CLOSET
cm	CENTIMETER
CMP	CORRUGATED METAL PIPE
CO	CLEANOUT
CO	CARBON MONOXIDE
CO2	CARBON DIOXIDE
COL	COLUMN
COMPR	COMPRESSOR
CONC	CONCRETE
COND	CONDENSATE, CONDENSER, CONDENSING
CONDR	CONDENSER WATER RETURN
CONDS	CONDENSER WATER SUPPLY
CONF	CONFERENCE
CONN	CONNECTION
CONSTR	CONSTRUCTION
CONT	CONTINUATION, CONTINUE, CONTINUOUS
CONTR	CONTRACTOR
COORD	COORDINATE
CORR	CORRIDOR
CP	CONTROL PANEL
CPD	CONDENSATE PUMP DISCHARGE
CPRS	COMPRESSIBLE, COMPRESSED
CPS	CYCLES PER SECOND
CPVC	CHLORINATED POLYVINYL CHLORIDE
CRCMF	CIRCUMFERENCE
CRU	COMPUTER ROOM UNIT
CSK	CUP SINK
CSR	CURRENT SENSING RELAY
CSS	CLINIC SERVICE SINK
CT	COOLING TOWER
CTRD	CENTERED
CTRL	CONTROL
CU	CUBIC
CUH	CABINET UNIT HEATER
CULV	CULVERT
CV	CAPACITY INDEX
CW	COLD WATER
CWFT	COOLING WATER FROM TOWER
CWR	COOLING WATER RETURN
CWS	COOLING WATER SUPPLY
CWTT	COOLING WATER TO TOWER
D & T	DRIP & TAP
dB	DECIBEL
DB	DRY BULB
DCW	DOMESTIC COLD WATER
DDC	DIRECT DIGITAL CONTROL
DEG	DEGREE
DEG C	DEGREE CELSIUS
DEG F	DEGREE FAHRENHEIT
DEMO	DEMOLISH, DEMOLITION
DEPT	DEPARTMENT
DET	DETAIL
DF	DRINKING FOUNTAIN
DF	DIESEL FUEL (LINE)
DFG	DIRECT FIRED GAS
DGP	DATA GATHERING PANEL
DHW	DOMESTIC HOT WATER
DHWR	DOMESTIC HOT WATER RETURN
DIA	DIAMETER
DI	DIGITAL INPUT
DIFF	DIFFUSER
DIM	DIMENSION
DIP	DUCTILE IRON PIPE
DIR	DEIONIZED WATER RETURN
DISC	DISCONNECT
DISCH	DISCHARGE
DISCH CONT	DISCHARGE CONTROLLER
DIV	DIVISION
DIW	DEIONIZED WATER
DMPF	DAMPPROOFING
DMPR	DAMPER
DN	DOWN
DO	DIGITAL OUTPUT
DOM	DOMESTIC
DPS	DIFFERENTIAL PRESSURE SENSOR
DPT	DIFFERENTIAL PRESSURE TRANSMITTER
DR	DRAIN
DS	DOWNSPOUT
DSD	DUCT SMOKE DETECTOR
DT	DRAIN TILE
DW	DISTILLED WATER
DW	DOMESTIC WATER
DWG	DRAWING
DX	DIRECTION EXPANSION
E	EAST
EA	EACH
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EC	ELECTRIC COIL
ECC	ECCENTRIC
ECON	ECONOMIZER
EDP	ELECTRONIC DATA PROCESSING
EF	EXHAUST FAN
EFF	EFFICIENCY
EHC	ELECTRIC HEATING COIL
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRICAL, ELECTRONIC
ELEV	ELEVATOR
ELIM	ELIMINATOR
ELL	ELBOW
EMER	EMERGENCY
EMER SHR	EMERGENCY SHOWER
EMER SHR/EWS	EMERGENCY SHOWER/EYE WASH
EMS	ENERGY MANAGEMENT SYSTEM
ENCL	ENCLOSURE, ENCLOSED
ENT	ENTERING
ENTR	ENTRANCE
EP	ELECTRIC PNEUMATIC
EPO	EMERGENCY POWER OFF
EQ	EQUAL
EQUIP	EQUIPMENT
ERH	ELECTRIC REHEAT COIL
ES	END SWITCH
ESTOP	EMERGENCY STOP SWITCH
EVAC	EVACUATION
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
EWS	EYE WASH STATION
EWT	ENTERING WATER TEMPERATURE
EXC	EXCAVATE, EXCAVATION
EXH	EXHAUST
EXIST	EXISTING
EXIST GR	EXISTING GRADE
EXP	EXPANSION
EXPS	EXPOSED
EXT	EXTERIOR, EXTERNAL
F & BYP	FACE & BYPASS
F & T	FLOAT & THERMOSTATIC
F/F	FACE TO FACE
FAIL	FAILURE
FC	FORWARD CURVED
FD	FLOOR DRAIN
FDMPR	FIRE DAMPER
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FH	FUME HOOD
FHC	FIRE HOSE CABINET
FHH	FIRE HOSE HOLDER
FHR	FIRE HOSE RACK / REEL
FHSP	FIRE HOSE STAND PIPE
FIN	FINISH, FINISHED
FL	FIRE LINE
FLA	FULL LOAD AMPS
FLEX	FLEXIBLE
FLG	FLANGE
FLR	FLOOR
FM	FACTORY MUTUAL
FNDN	FOUNDATION
FOR	FUEL OIL RETURN
FOS	FUEL OIL SUPPLY
FP	FIRE PROTECTION
FPM	FEET PER MINUTE
FRP	FIBERGLASS REINFORCED PLASTIC
FS	FLOW SWITCH
FSTAT	FREEZESTAT
FT	FOOT, FEET
FUT	FUTURE
GA	GAGE
GAL	GALLON
GALV	GALVANIZED
GAS	GASOLINE
GEN	GENERAL
GEN	GENERATOR
GH	GRAVITY HOOD
GI	GALVANIZED IRON
GLVA	GLOBE VALVE
GLY	GLYCOL
GPD	GALLONS PER DAY
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GPP	GRAINS PER POUND
GR	GRADE
GRAV	GRAVITY
GVA	GATE VALVE
HB	HOSE BIBB
HC	HEATING COIL
HC	HYDROCARBON
HD	HEAT DETECTOR
HE	HELIUM
HEDV	HOSE END DRAIN VALVE
HEX	HEAT EXCHANGER
HHL	HUMIDITY HIGH LIMIT
HHWR	HEATING HOT WATER (PRIMARY) RETURN
HHWRAR	HEATING HOT WATER (RADIATION) RETURN
HHWRAS	HEATING HOT WATER (RADIATION) SUPPLY
HHWRR	HEATING HOT WATER (REHEAT) RETURN
HHWRS	HEATING HOT WATER (REHEAT) SUPPLY
HHWS	HEATING HOT WATER (PRIMARY) SUPPLY
HHWSR	HEATING HOT WATER (SECONDARY) RETURN
HHWSS	HEATING HOT WATER (SECONDARY) SUPPLY
HO	HUB OUTLET
HOA	HAND-OFF-AUTO
HORIZ	HORIZONTAL, HORIZONTALLY
HOSP	HOSPITAL
HP	HORSEPOWER
HPD	HIGH PRESSURE DRIP
HPO2	HIGH PRESSURE OXYGEN
HPR	HIGH PRESSURE RETURN
HPS	HIGH PRESSURE SUPPLY
HRU	HEAT RECOVERY UNIT
HSTAT	HUMIDISTAT
HT	HEIGHT
HTG	HEATING
HTR	HEATER
HUM	HUMIDITY, HUMIDIFIER
HV CAB	HOSE VALVE CABINET
HVAC	HEATING, VENTILATION & AIR CONDITIONING
HVY	HEAVY
HW	HOT WATER
HWB	HOT WATER BOILER
HWR	HOT WATER RECIRCULATION
HWY	HIGHWAY
HYD	HYDRANT
HYDR	HYDRAULIC
Hz	HERTZ
HZW	HAZARD WASTE
I/O	INPUT/OUTPUT
IBC	INTERNATIONAL BUILDING CODE
ID	INSIDE DIAMETER
IN.	INCH, INCHES
INC	INCREASE, INCREASER
INCL	INCLUDED, INCLUDING, INCLUSIVE
IND W	INDUSTRIAL WASTE
INSUL	INSULATION, INSULATED
INT	INTERIOR, INTERNAL
INTCP	INTERCEPTOR
INTLK	INTERLOCK
INV EL	INVERT ELEVATION
IPS	IRON PIPE SIZE
ISD	IONIZATION SMOKE DETECTOR
ISO	ISOLATOR
IV	INTRAVENOUS
JC	JANITOR'S CLOSET
K	KIP (1000 POUNDS)
kg	KILOGRAM
KIT	KITCHEN
kV	KILOVOLT
kVA	KILOVOLT AMPERE
kVAR	KILOVOLT AMPERE REACTIVE
kW	KILOWATT
kWh	KILOWATT HOUR
L	LENGTH
LAB	LABORATORY
LAT	LEAVING AIR TEMPERATURE
LAV	LAVATORY
LBS	POUNDS
LCA	LABORATORY COMPRESSED AIR
LEV	LEVEL
LG	LONG
LH	LEFT HAND
LIN	LINEAR
LL	LOW LIMIT
LLC	LOW LIMIT CONTROLLER
LPD	LOW PRESSURE DRIP
LPR	LOW PRESSURE RETURN
LPS	LOW PRESSURE STEAM
LR	LONG RADIUS
LT WT	LIGHTWEIGHT
LTG	LIGHTING
LVAC	LABORATORY VACUUM
LWT	LEAVING WATER TEMPERATURE
m	METER
M	MOTOR, MOTORIZED
mA	MILLIAMPERE
MACH	MACHINE
MAN	MANUAL
MATL	MATERIAL
MAV	MANUAL AIR VENT
MAX	MAXIMUM
MBC	MICHIGAN BUILDING CODE
MBH	THOUSAND BRITISH THERMAL UNITS PER HOUR
MCA	MEDICAL COMPRESSED AIR
MCC	MOTOR CONTROL CENTER
MCO2	MEDICAL CARBON DIOXIDE
MECH	MECHANICAL
MED	MEDICINE, MEDICAL, MEDICATION
MEZZ	MEZZANINE
MFG	MANUFACTURING
MFR	MANUFACTURER
MG	MOTOR GENERATOR
MH	MANHOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
mm	MILLIMETER
MO	MOTOR OIL (LINE)
MOT DMPR	MOTORIZED DAMPER
MOT OPR	MOTOR OPERATED
MPD	MEDIUM PRESSURE DRIP
MPR	MEDIUM PRESSURE RETURN
MPS	MEDIUM PRESSURE STEAM
MR	MANUAL RELEASE
MS	MANUAL SWITCH
MVAC	MEDICAL VACUUM
N	NORTH
N2	NITROGEN
N2O	NITROUS OXIDE
NATL	NATIONAL
NC	NOISE CRITERIA
NC	NORMALLY CLOSED
NE	NORTHEAST
NEC	NATIONAL ELECTRIC CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NG	NATURAL GAS
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NO.	NUMBER, NUMBERS
NOM	NOMINAL
NOX	NITROUS OXIDES
NPSH	NET POSITIVE SUCTION HEAD
NPW	NON-POTABLE WATER
NRC	NOISE REDUCTION COEFFICIENT
NRS	NON-RISING STEAM
NS	NURSE STATION
NSF	NATIONAL SANITATION FOUNDATION
NTS	NOT TO SCALE
NW	NORTHWEST
O2	OXYGEN
O/O	OUT TO OUT
OA	OUTSIDE AIR
OC	ON CENTER
OD	OUTSIDE DIAMETER
OF/CI	OWNER FURNISHED / CONTRACTOR INSTALLED
OF/OI	OWNER FURNISHED / OWNER INSTALLED
OPP	OPPOSITE
OPR	OPERATOR, OPERATED
OR	OPERATING ROOM
ORD	OVERFLOW ROOF DRAIN
ORIG	ORIGINAL
OS & Y	OUTSIDE SCREW & YOKE
OSHA	OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION
OV	OUTLET VELOCITY
OZ	OUNCE
P	PUMP
PB	PUSHBUTTON
PBD	PLANTING BED DRAIN
PCOND	PUMPED CONDENSATE
PC	PREHEAT COIL
PCWR	PROCESS COOLING WATER RETURN
PCWS	PROCESS COOLING WATER SUPPLY
PE	PNEUMATIC ELECTRIC
PEND	PENDENT
PERF	PERFORATED
PERM	PERMANENT
PH	PHASE
PHC	PREHEAT COIL
PIV	POST INDICATOR VALVE
PIW	PUMPED INDUSTRIAL WASTE
PLBG	PLUMBING
PLC	PROGRAMMABLE LOGIC CONTROLLER
PNEU	PNEUMATIC
PO	PLUGGED OUTLET
PORT	PORTABLE
POS	POSITION
PPH	POUNDS PER HOUR
PPM	PARTS PER MILLION
PREFAB	PREFABRICATED
PREP	PREPARATION
PRES	PRESENT
PRESS	PRESSURE
PROC	PROCESS, PROCESSING
PROP	PROPANE
PRV	PRESSURE REDUCING VALVE
PRW	PROCESS WASTE
PS	PRESSURE SENSOR
PSAN	PUMPED SANITARY
PSF	POUNDS PER SQUARE FOOT
PSF	POWER STEERING FLUID
PSH	PIPE SPRING HANGER
PSI	POUNDS PER SQUARE INCH
PSIA	POUNDS PER SQUARE INCH ABSOLUTE
PSIG	POUNDS PER SQUARE INCH GAGE
PSR	PIPE SPRING RISER SUPPORT
PT	PRESSURE TRANSMITTER
PTAC	PACKAGED TERMINAL AIR CONDITIONER
PVA	PLUG VALVE
PVC	POLYVINYL CHLORIDE
RA	RETURN AIR
RAD	RADIATOR, RADIATION
RC	ROOF CONDUCTOR
RCP	REINFORCED CONCRETE PIPE
RD	ROOF DRAIN
REC	RECESS, RECESSED
RECIRC	RECIRCULATE, RECIRCULATION
RECR	RECEIVER
RED	REDUCER
REF	REFERENCE
REF-L	REFRIGERANT LIQUID LINE
REF-S	REFRIGERANT SUCTION LINE
REG	REGISTER
REQD	REQUIRED
RET	RETURN
REV	REVISION
RF	RETURN AIR FAN
RFGT	REFRIGERANT
RH	RELATIVE HUMIDITY
RH	RIGHT HAND
RHB	ROOF HOSE BOX
RHC	REHEAT COIL
RM	REFRIGERATION MACHINE
RM	ROOM
ROR	REVERSE OSMOSIS WATER RETURN
ROS	REVERSE OSMOSIS WATER SUPPLY
RPM	REVOLUTIONS PER MINUTE
RPZ	REDUCED PRESSURE ZONE
RR	RETURN RISER
RV	ROOF VENTILATOR
RV	RELIEF VENT
RVA	RELIEF VALVE
S	SOUTH
SA	SUPPLY AIR
SAN	SANITARY SEWER
SAN-V	SANITARY (VENT LINE)
SCFH	STANDARD CUBIC FEET PER HOUR
SCFM	STANDARD CUBIC FEET PER MINUTE
SCHED	SCHEDULE
SCV	SECTIONAL CONTROL VALVE
SCW	SOFT COLD WATER
SD	SMOKE DAMPER
SE	SOUTHEAST
SE	STATIC FAN EFFICIENCY
SECT	SECTION
SEL	SELECTOR
SENS	SENSIBLE
SEP	SEPARATOR
SF	SUPPLY FAN
SH	SHOWER
SHT	SHEET
SIL	SILENCER
SIM	SIMILAR
SM	SHEET METAL
SP	STATIC PRESSURE
SPEC	SPECIFICATION
SPKLR	SPRINKLER
SQ	SQUARE
SR	SUPPLY RISER
SS	SELECTOR SWITCH
SSK	SERVICE SINK
SST	STAINLESS STEEL
ST	STORM
ST-P	PUMPED STORM (LINE)
STA	STATION
STC	SOUND TRANSMISSION CLASS
STD	STANDARD
STL	STEEL
STM	STEAM
STM GEN	STEAM GENERATOR
STR	STRAINER
STRUCT	STRUCTURAL
SUP	SUPPLY
SUSP	SUSPENDED, SUSPENSION
SVA	SOLENOID VALVE
SW	SOUTHWEST
SW	SWITCH
SW	SOFT WATER (LINE)
SYM	SYMMETRICAL
SYS	SYSTEM
T & P VALVE	TEMPERATURE & PRESSURE VALVE
TCV	TEMPERATURE CONTROL VALVE
TDH	TOTAL DYNAMIC HEAD
TE	TEMPERATURE SENSING ELEMENT
TEMP	TEMPERATURE
THERMO	THERMOSTATIC
TOT	TOTAL
TSP	TOTAL STATIC PRESSURE
TSTAT	THERMOSTAT
TSW	TEMPERATURE SENSOR W/ WELL
TV	TELEVISION
TYP	TYPICAL
UFD	USED FIXER DRAIN
UG	UNDERGROUND
UH	UNIT HEATER
UL	UNDERWRITERS LABORATORIES
UNO	UNLESS NOTED OTHERWISE
UPS	UNINTERRUPTIBLE POWER SUPPLY
UR	URINAL
USGS	UNITED STATES GEOLOGICAL SURVEY
V	VENT
VA	VALVE
VAC	VACUUM
VACE	VACUUM (EVACUATION)
VAV	VARIABLE AIR VOLUME
VB	VACUUM BREAKER
VEL	VELOCITY
VENT	VENTILATING, VENTILATION
VERT	VERTICAL
VFD	VARIABLE FREQUENCY DRIVE
VIB	VIBRATION
VIF	VERIFY IN FIELD
VISC	VISCOSITY
VOL	VOLUME
VOLT	VOLTAGE
VSD	VARIABLE SPEED DRIVE
VTR	VENT THROUGH ROOF
VVR	VARIABLE VOLUME HEAT
W	WEST
W	WIDE, WIDTH
W & V	WASTE & VENT
W/	WITH
W/O	WITHOUT
WAGD	WASTE ANESTHETIC GAS DISPOSAL (LINE)
WB	WET BULB
WC	WATER CLOSET
WF	WASH FOUNTAIN
WFS	WATER FLOW SWITCH
WG	WATER GAGE
WH	WALL HYDRANT
WPD	WATER PRESSURE DROP
WST	WASTE STACK
WT	WEIGHT
WV	WALL VENT
WWF	WINDSHIELD WASHER FLUID
WWR	WELDER WATER RETURN
WWS	WELDER WATER SUPPLY
XFMR	TRANSFORMER
XH	EXTRA HEAVY
XP	EXPLOSION PROOF
YD	YARD
YH	YARD HYDRANT
ZVA	ZONE VALVE

MECHANICAL GENERAL NOTES

GENERAL NOTES:

1. VERIFY EXACT SIZE AND LOCATION OF EXISTING UTILITIES BEFORE START OF CONSTRUCTION.
2. CONNECTIONS TO AND SHUT-DOWNS OF EXISTING SYSTEM SHALL BE COORDINATED W/OWNER TO ALLOW MINIMUM INTERFERENCE WITH THE OWNER'S OPERATIONS AND DOWN TIME OF EXISTING SERVICES. CONTRACTOR SHALL SUBMIT TO OWNER FOR REVIEW AND APPROVAL THE PROPOSED PHASING PLAN FOR CONNECTING NEW SERVICES.
3. IT IS MANDATORY FOR CONTRACTOR TO COORDINATE WITH ALL OTHER MECHANICAL AND ELECTRICAL TRADES IN REGARDS TO ROUTING OF PIPING IN MECHANICAL ROOMS, SHAFTS, ABOVE CEILINGS AND INTERSTITIAL SPACES.
4. IN PLUMBING PIPING AND HYDRONIC PIPING, INSTALL SHUT-OFF VALVES ON ALL BRANCH LINES TO FIXTURES OR EQUIPMENT. INSTALL THE VALVES AS CLOSE TO THE MAIN AS POSSIBLE. VALVES SHOULD BE INSTALLED IN INTERSTITIAL SPACES AS OPPOSED TO CEILING CAVITY. VERIFY THAT VALVES WILL BE ACCESSIBLE FOR MAINTENANCE AFTER THE PROJECT IS COMPLETED.
5. INSTALL WATER HAMMER ARRESTORS AS NEAR TO THE SOURCE OF SHOCK (QUICK CLOSING VALVE) AS POSSIBLE ON ALL HOT AND COLD WATER LINES TO FIXTURES AND EQUIPMENT.
6. ALL ITEMS THAT REQUIRE ACCESS, SUCH AS FOR OPERATING, CLEANING, SERVICING, MAINTENANCE, AND CALIBRATION, SHALL BE EASILY AND SAFELY ACCESSIBLE BY PERSONS STANDING AT FLOOR LEVEL, OR STANDING ON PERMANENT PLATFORMS, WITHOUT THE USE OF PORTABLE LADDERS. EXAMPLES OF THESE ITEMS INCLUDE, BUT ARE NOT LIMITED TO: ALL TYPES OF VALVES, FILTERS AND STRAINERS, TRANSMITTERS, CONTROL DEVICES. PRIOR TO COMMENCING INSTALLATION WORK, REFER CONFLICTS BETWEEN THIS REQUIREMENT AND CONTRACT DRAWINGS TO THE RESIDENT ENGINEER (RE)/CONTRACT OFFICER TECHNICAL REPRESENTATIVE (COTR) FOR RESOLUTION.

DEMOLITION NOTES:

1. REMOVE ALL ITEMS INDICATED FOR DEMOLITION. REMOVE ASSOCIATED SUPPORTS, ACCESSORIES, INSULATION, CONDUIT, WIRING AND CONTROLS. POWER AND CONTROL WIRING SHALL BE REMOVED BACK TO SOURCE. PIPING AND DUCTWORK SHALL BE CAPPED AT MAIN, UNLESS SHOWN OTHERWISE.
2. DURING DEMOLITION AND CONSTRUCTION, PROTECT EQUIPMENT, PIPING, DUCTWORK, ACCESSORIES, SUPPORTS, AND OTHER EXISTING SYSTEMS THAT ARE TO REMAIN.
3. PROTECT ALL EQUIPMENT, DUCT, AND PIPE ENDS WITH TEMPORARY CLOSURES DURING DEMOLITION WORK.
4. EXCEPT FOR ITEMS IDENTIFIED AS BEING TURNED OVER TO THE OWNER, ALL DEMOLISHED ITEMS SHALL BE COMPLETELY REMOVED FROM THE SITE AND PROPERLY DISPOSED.
5. SERVICES TO ADJACENT AREAS SHALL BE MAINTAINED DURING DEMOLITION AND CONSTRUCTION. PROVIDE MEANS FOR TEMPORARY SERVICES IF REQUIRED IN ORDER TO PROVIDE FOR CONTINUOUS OPERATIONS.

FULLY SPRINKLERED

Revisions:	Date
ISSUE 006 - CD BID	01.20.11
ISSUE 005 - CD OWNER REVIEW	12.17.10
ISSUE 004 - DESIGN DEVELOPMENT RECORD	11.12.10
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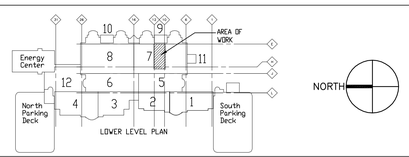
KEY PLAN



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Dwg. 24 of 50

Office of Construction and Facilities Management

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