PLUMBING GENERAL NOTES

1 ALL PLUMBING WORK SHALL BE IN ACCORDANCE WITH INTERNATIONAL PLUMBING CODE (IPC) CURRENTLY ADOPTED BY THE AUTHORITY HAVING JURISDICTION.

2 PLUMBING VENT PIPING SHOWN IS ONLY FOR DIAGRAMMATIC PURPOSES. COORDINATE VENT THROUGH ROOF LOCATION WITH HVAC AIR INTAKES.

3 ALL VALVES ABOVE CEILINGS AND IN CONCEALED SPACES SHALL BE LABELED AT CEILING TILE WITH METAL CEILING TAGS INDICATING VALVE # AND TYPE OF WATER. (i.e.; BLUE–COLD WATER, LETTERING CW VLV1-001).

4 PROVIDE WATER HAMMER ARRESTORS IN ALL HW AND CW SUPPLY PIPING AS SHOWN ON WATER RISERS. INSTALL IN ACCORDANCE WITH PDI-WH201 STANDARDS. AIR CHAMBERS ARE NOT ACCEPTABLE SUBSTITUTIONS.

5 PROVIDE THERMAL INSULATION FOR HOT WATER, HOT WATER RETURN AND COLD WATER PIPING IN ACCORDANCE WITH THE ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION AND PER SPECIFICATIONS.

6 PROVIDE CLEANOUTS AT THE BASE OF EACH SANITARY STACK IN ACCORDANCE WITH INTERNATIONAL PLUMBING CODE (IPC) CURRENTLY ADOPTED BY THE AUTHORITY HAVING JURISDICTION. CLEANOUTS SHALL BE SIZED TO MATCH THE PIPING BEING SERVED. FLOOR CLEANOUTS SHALL BE SPACED AT 75'-0" MAX. ALSO PROVIDE CLEANOUTS IN HORIZONTAL CHANGE OF DIRECTIONS >45°.

7 THE MANUFACTURERS OF ALL EQUIPMENT SHOWN ARE THE BASIS OF DESIGN. SEE SPECIFICATIONS FOR OTHER ACCEPTABLE MANUFACTURERS.

8 FIRE CAULK AND SLEEVE ALL PENETRATIONS THROUGH FIRE RATED ASSEMBLIES. REFER TO LIFE SAFETY PLANS FOR RATED ASSEMBLY LOCATIONS. REFER TO THE ARCHITECTURAL SHEET FOR WALL DETAILS AND UL ASSEMBLY NUMBERS.

9 COORDINATE UNDERGROUND PIPING INVERT ELEVATIONS WITH STRUCTURAL FOOTING ELEVATIONS AND CIVIL INVERT CONNECTIONS PRIOR TO ANY UNDERGROUND PIPING INSTALLATIONS. IF FOOTINGS ARE IN CONFLICT AND WHERE A PIPING ROLL DOWN IS NOT POSSIBLE, COORDINATE WITH GENERAL CONTRACTOR FOR DROPS IN FOOTINGS AS REQUIRED.

10 VALVES AND FITTINGS SHALL BE THE SAME SIZE AS THE PIPING WHERE THEY ARE LOCATED UNLESS NOTED OTHERWISE.

11 THE CONTRACTOR SHALL ROUGH-IN ALL WASTES AND WATER SUPPLIES FOR FIXTURES AND PERFORM FINAL CONNECTIONS AS NEEDED.

12 ALL FLOOR DRAINS SHALL BE PROVIDED WITH TRAP PRIMER CONNECTIONS. UNLESS NOTED OTHERWISE.

13 ALL FLOOR DRAINS AND FLOOR SINKS SHALL BE PROVIDED WITH A TRAP GUARD UNLESS NOTED OTHERWISE.

14 ALL FLOOR/ROOF DRAINS SHALL BE PROTECTED FOR THE DURATION OF THE PROJECT. IF ANY DRAINS ARE FOUND TO CONTAIN DEBRIS THE CONTRACTOR SHALL CLEAN AND SCOPE THE DRAIN SYSTEM AT NO ADDITIONAL CHARGE TO THE OWNER.

15 THE CONTRACTOR SHALL ROUGH-IN ALL WASTES AND WATER SUPPLIES FOR FIXTURES AND PERFORM FINAL CONNECTIONS AS NEEDED.

16 ALL FLUSH VALVE WATER CLOSETS SHALL BE ROUGHED IN SO THAT THE FLUSH VALVE HANDLE IS TO THE WIDE SIDE OF THE ROOM/STALL.

17 THIS FACILITY SHALL COMPLY WITH THE AMERICANS WITH DISABILITIES ACT (ADA) ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES.

18 WHERE WATER PRESSURE WITHIN THE BUILDING EXCEEDS 80 PSI STATIC, THE CONTRACTOR SHALL INSTALL AN APPROVED WATER PRESSURE REDUCING VALVE CONFORMING TO ASSE 1003 WITH STRAINER. CONTRACTOR SHALL SET PRESSURE AT 60 PSI.

19 REGARDLESS OF HOW PIPING IS PRESENTED ON THE DRAWINGS, PROVIDE ECCENTRIC (FLAT ON TOP) REDUCERS IN HOT AND COLD DOMESTIC WATER PIPING.

20 CONDENSATE PIPING FROM THE DOWN STREAM OF THE HUB DRAIN SHALL BE A HUBLESS CAST IRON SYSTEM.

21 ALL DEVICES, EQUIPMENT, VALVES, ETC. THAT REQUIRE ACCESS SHALL NOT BE LOCATED ABOVE WOOD OR GYPSUM CEILINGS. COORDINATE WITH THE ARCHITECTURAL REFLECTED CEILING PLAN FOR ACCESSIBLE CEILING LOCATIONS OR ACCESS PANELS. PROVIDE ACCESS DOORS IN INACCESSIBLE CEILINGS TO ACCESS MEP DEVICES ABOVE CEILINGS NOT OTHERWISE ACCESSIBLE.

PLUMBING SYMBOLS

RISER DIAGRAM COMPONENTS AND SPECIALTIES

SYMBOL	DESCRIPTION
	BACKFLOW PREVENTER
	EMERGENCY EYE WASH STATION
	EMERGENCY SHOWER
	SHOCK ARRESTER
	VACUUM BREAKER
	VENT THROUGH ROOF
	TRAP ARM
	URINAL / WATER CLOSET (WALL MOUNTED)
	URINAL / WATER CLOSET (FLOOR MOUNTED)
	FLOOR / ROOF DRAIN
CO	CLEAN OUT (WALL / PIPE)
CO	CLEAN OUT (FLOOR)

PIPING SYMBOLS

SYMBOL	DESCRIPTION
	NATURAL GAS PIPING

COMPONENTS AND SPECIALTIES

SYMBOL	DESCRIPTION
	BACKWATER VALVE
	BACKFLOW PREVENTER (DUAL CHECK TYPE)
	BACKFLOW PREVENTER (REDUCED PRESSURE TYPE)
CO	CLEAN OUT (WALL / PIPE)
CO	CLEAN OUT (FLOOR)
HB	COLD WATER INTERIOR HOSE BIB
WH	EXTERIOR WALL HYDRANT (FREEZE PROOF)
HED	HOSE END DRAIN VALVE
	AREA DRAIN
	FLOOR DRAIN
	FLOOR DRAIN WITH TRAP PRIMING LINE
	FLOOR SINK
	ROOF DRAIN
	ROOF OVERFLOW DRAIN
RO/DI	RO / DI WATER OUTLET
EW	EMERGENCY EYEWASH (HANDHELD)
	SHOCK ARRESTER WITH ACCESS DOOR
	TEMPERING VALVE
M	WATER METER

PLUMBING ABBREVIATIONS

A	COMPRESSED AIR
BCWR	BEARING COOLING WATER RETURN
BCWS	BEARING COOLING WATER SUPPLY
BO	BLOW OFF
BTU	BRITISH THERMAL UNIT
BTUH	BRITISH THERMAL UNITS PER HOUR
CA	CONTROL AIR
CBD	CONTINUOUS BLOWDOWN
CC	CAMPUS CONDENSATE
CF	CHEMICAL FEED
CFM	CUBIC FEET PER MINUTE
CHEL	CHELANT
CHR	CHILLED WATER RETURN
CHS	CHILLED WATER SUPPLY
CO	CLEANOUT
CW	COLD WATER, DOMESTIC CITY WATER
DHR	DISTRIBUTION HEATING WATER RETURN
DHS	DISTRIBUTION HEATING WATER SUPPLY
DIA	DIAMETER
DW	DISTILLED WATER
EA	EXHAUST AIR
ED	EQUIPMENT DRAIN
EJ	EXPANSION JOINT
#2FOR	NUMBER 2 FUEL OIL RETURN
#2FOS	NUMBER 2 FUEL OIL SUPPLY
#6FOR	NUMBER 6 FUEL OIL RETURN
#6FOS	NUMBER 6 FUEL OIL SUPPLY
F	FIRE LINE
FAT	FLOAT AND THERMOSTATIC
FD	FORCED DRAFT
FDV	FIRE DEPARTMENT VALVE
FF	FINISHED FLOOR
FFE	FINISHED FLOOR ELEVATION
FOF	FUEL OIL FILL
FOO	FUEL OIL OVERFLOW
FOSUCT	FUEL OIL SUCTION
FOT	FUEL OIL TRANSFER
FV	FUEL OIL VENT
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FW	FEED WATER
FWR	FEED WATER RECIRCULATION
FWS	FEED WATER SUPPLY
F°	DEGREES FAHRENHEIT
G	NATURAL GAS
GAL	GALLON, GALLONS
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
HPR	HIGH PRESSURE STEAM RETURN
HPS	HIGH PRESSURE STEAM SUPPLY
HR	HEATING WATER RETURN
HRR	HEAT RECOVERY RETURN
HRS	HEAT RECOVERY SUPPLY
HS	HEATING WATER SUPPLY
HTHW	HIGH TEMPERATURE HEATING WATER SUPPLY
HTWR	HIGH TEMPERATURE HEATING WATER RETURN
HW	HOT WATER
HWR	HOT WATER RECIRCULATION
IA	INSTRUMENT AIR
KW	KILOWATTS
LP	LIQUID PROPANE
LPG	LIQUID PETROLEUM GAS
LPR	LOW PRESSURE STEAM RETURN
LPS	LOW PRESSURE STEAM SUPPLY
MAV	MANUAL AIR VENT
MBH	THOUSAND BRITISH THERMAL UNITS PER HOUR
MCC	MOTOR CONTROL CENTER
MOD	MOTOR OPERATED DAMPER
MPR	MEDIUM PRESSURE STEAM RETURN
MPS	MEDIUM PRESSURE STEAM SUPPLY
N/A	NOT APPLICABLE
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
No	NUMBER
NPSH	NET POSITIVE SUCTION HEAD
OD	OVERFLOW DRAIN
PA	PLANT AIR
PC	PUMPED CONDENSATE
PCR	PUMP CONDENSATE RECIRCULATION
PPH	POUNDS PER HOUR
PSIG	POUNDS PER SQUARE INCH GAUGE
RA	RETURN AIR, RELIEF AIR
RDR	ROOF DRAIN
RPM	REVOLUTIONS PER MINUTE
RV	RELIEF VENT
RX	REMOVE EXISTING
SA	SUPPLY AIR
SAN	SANITARY
SS	STAINLESS STEEL
SSUL	SODIUM SULFITE
STDR	STORM DRAIN
SW	SOFT WATER
TW	TREATED WATER
TYP	TYPICAL
VD	VOLUME DAMPER
VFD	VARIABLE FREQUENCY DRIVE
VSD	VARIABLE SPEED DRIVE
VTR	VENT THROUGH ROOF

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DRAWING TITLE
PLUMBING NOTES, SYMBOLS AND ABBREVIATIONS

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