GENERAL PIPING ABBREVIATIONS:

AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AP	ACCESS PANEL
BFP	BACKFLOW PREVENTER
BOP	BOTTOM OF PIPE
BTUH	BTU PER HOUR
BOS	BOTTOM OF STRUT
CFM	CUBIC FEET PER MINUTE
CI	CAST IRON
CL	CENTERLINE
CONN	CONNECT
CONT	CONTINUATION
CTE	CONNECT TO EXISTING
CC	CENTER TO CENTER
CUP	CENTRAL UTILITY PLANT
DIA	DIAMETER
DN	DOWN
DWG	DRAWING
DV	DRAIN VALVE
ELEV	ELEVATION
ELEC	ELECTRIC
ETBA	EXISTING TO BE ABANDONED
ETR	EXISTING TO REMAIN
ETBR	EXISTING TO BE REMOVED
GAL	GALLONS
GPM	GALLONS PER MINUTE
HVAC	HEATING, VENTILATION AND AIR CONDITIONING
HEX	HEAT EXCHANGER
IN	INCHES
MAX	MAXIMUM
MIN	MINIMUM
MBH	THOUSAND BTU PER HOUR
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
No.	NUMBER
OC	ON CENTER
PRV	PRESSURE REDUCING VALVE
RED	REDUCER
RV	RELIEF VALVE
RO	ROTOMETER
SCH	SCHEDULE
SS	STAINLESS STEEL
TYP	TYPICAL
TOS	TOP OF STRUT
W/	WITH
WTS	WATER TIGHT SEAL

PLUMBING SYMBOLS:

Symbol	Abbrev.	Description
	W&T	WASTE AND TRAP
	SA	SHOCK ABSORBER
	HB	HOSE BIBB
	WH	WALL HYDRANT
	MV	MIXING VALVE
		GAS COCK
RPBP	RPBP	REDUCED PRESSURE BACKFLOW PREVENTER
	FD	FLOOR DRAIN
	RD	ROOF DRAIN
	ES/EW	EMERGENCY SHOWER/ EYEWASH STANCHION
	ES/EW	RECESSED EMERGENCY SHOWER/EYEWASH
	EW	EMERGENCY EYE/ FACE WASH
A 1 P6.2		RISER DIAGRAM DESIGNATION (sanitary riser, water riser, drawing where risers occur)

Special Linetypes	Service
	BURIED PIPING
	BURIED VENT PIPING
	VENT PIPING
	DOMESTIC COLD WATER PIPING
	DOMESTIC HOT WATER PIPING
	DOMESTIC HOT WATER RETURN PIPING
G	GAS PIPING
	EXISTING SANITARY TO REMAIN

PLUMBING ABBREVIATIONS:

AW	ACID WASTE
AWS	ACID WASTE STACK
AV	ACID VENT
AVS	ACID VENT STACK
AVTR	ACID VENT THROUGH ROOF
AC	AIR CHAMBER
ACM	AIR COMPRESSOR
BT	BATH TUB
BWV	BACKWATER VALVE
CA	COMPRESSED AIR
CO	CLEANOUT
CO2	CARBON DIOXIDE
CW	DOMESTIC COLD WATER
DCO	DANDY CLEANOUT
DF	DRINKING FOUNTAIN
DFU	DRAINAGE FIXTURE UNITS
ES	EMERGENCY SHOWER
EW	EMERGENCY EYEWASH
ES/EW	EMERGENCY SHOWER & EYEWASH
EWC	ELECTRIC WATER COOLER
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FFE	FINISHED FLOOR ELEVATION
FU	(SUPPLY) FIXTURE UNITS
GAS	NATURAL GAS
GV	NATURAL GAS VENT
GTV	BOILER GAS TRAIN VENT
HB	HOSE BIBB
HW	DOMESTIC HOT WATER
HWR	DOMESTIC HOT WATER RECIRCULATION
INV.EL.	INVERT ELEVATION
IW	INDIRECT WASTE
KW	KITCHEN WASTE
LAV	LAVATORY
LIPC	LIMIT OF PLUMBING CONTRACT
LN2	LIQUID NITROGEN
MAV	MANUAL AIR VENT
MR	MOP RECEPTOR
NP	NON-POTABLE WATER (HVAC MAKE-UP)
OFD	OVERFLOW DRAIN (ROOF DRAINAGE)
PCW	PROTECTED COLD WATER
PHW	PROTECTED HOT WATER
PHWR	PROTECTED HOT WATER RECIRCULATION
RO	REVERSE OSMOSIS
ROS	REVERSE OSMOSIS WATER SUPPLY
ROR	REVERSE OSMOSIS WATER RETURN
RPBP	REDUCED PRESSURE BACKFLOW PREVENTER
RD	ROOF DRAIN
RE	REMOVE EXISTING
SH	SHOWER
SS	SERVICE SINK
SK	SINK
SAN	SANITARY WASTE
ST	STORM WATER
SC	SILL COCK
S	SANITARY OR SOIL
SS	SANITARY STACK
TW	TEMPERED WATER
TP	TRAP PRIMER
UR	URINAL
VAC	VACUUM
V	SANITARY VENT
VS	VENT STACK
VTR	VENT THROUGH ROOF
W	SANITARY WASTE
WCO	WALL CLEANOUT
WC	WATER CLOSET
WHS	WASH HOSE STATION
WS	WASTE STACK
140HW	140° HOT WATER
140HWR	140° HOT WATER RECIRCULATION
180HW	180° HOT WATER

PLUMBING GENERAL NOTES

1. THE PLUMBING CONTRACTOR SHALL BE FAMILIAR WITH ALL CONTRACT DOCUMENTS FOR ALL TRADES AND COORDINATE WITH OTHER CONTRACTORS.
2. DRAWINGS ARE DIAGRAMMATIC ONLY, FINAL ROUTING OF PIPING AND EQUIPMENT LOCATIONS SHALL BE DETERMINED IN THE FIELD. ADDITIONAL OFFSETS, ELBOWS, ETC., SHALL BE PROVIDED AND INSTALLED WITHOUT ADDITIONAL COST TO THE OWNER.
3. THE PLUMBING CONTRACTOR SHALL COORDINATE ALL ELECTRICAL, FIRE PROTECTION & HVAC REQUIREMENTS WITH THE ELECTRICAL, FIRE PROTECTION AND HVAC CONTRACTORS.
4. THE PLUMBING CONTRACTOR SHALL FURNISH AND INSTALL ALL INCIDENTAL ACCESSORIES NECESSARY TO MAKE THE PLUMBING WORK SYSTEMS IMSTALLATION COMPLETE AND READY FOR OPERATION.
5. ALL PLUMBING EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

GENERAL PIPING SYMBOLS:

Symbol	Abbrev.	Description
	DN	PIPE DOWN THROUGH FLOOR
	UP	PIPE UP THROUGH FLOOR ABOVE
		PIPE DROP
		PIPE DROP & RUN
		PIPE DROP & TURN
		BRANCH RISE
		BRANCH DROP
		ELBOW (pressure piping)
		TEE (pressure piping)
		BRANCH CONNECTION (gravity piping)
	CO	CLEANOUT
	FCO	FLOOR CLEANOUT
	DCO	DANDY CLEANOUT
		CAP
		PIPE BREAK
		CONCENTRIC REDUCER
		ECCENTRIC REDUCER
		SCREWED UNION
		FLANGED UNION
		FLEXIBLE CONNECTOR
		STRAINER
		SLEEVE/GUIDE
		THERMOMETER
		PRESSURE GAUGE
		SHUT-OFF VALVE (TYPE PER SPECS)
		BALANCING VALVE
		OS&Y VALVE
		VALVE WITH LOCKED HANDLE
	VIV	VALVE IN VERTICAL
		RELIEF VALVE
	PRV	PRESSURE REGULATING VALVE
		BALL VALVE
		BUTTERFLY VALVE
		3 WAY VALVE
		SOLENOID ACTUATOR
		PNEUMATIC or ELECTRIC ACTUATOR
		CHECK VALVE
		DIAPHRAGM VALVE
		FLOW ARROW
M		METER
1/8"/FT.		PIPE SLOPE INDICATOR
	RE	REMOVE EXISTING
1/2"CW		PIPE SERVICE AND SIZE LABEL
	CTE	CONNECT TO EXISTING
		EXPANSION LOOP
V-3		VALVE TAG
detail no. / drawing where detail occurs: S / P5.1		DETAIL REFERENCE
equip. type: HTR / equip. number: 5		EQUIPMENT TAG

SMMA
SYMMES MAINI & MCKEE ASSOCIATES
1000 Massachusetts Avenue
Cambridge, Massachusetts 02138
617.547.5400 Fax 617.354.5758

OWNER REVIEW

NAME DATE

NO.	DATE	DESCRIPTION
	06.21.06	ISSUED FOR CONSTRUCTION
.	05.03.06	SCOPE REVISIONS
C	03.22.06	100% QC REVIEW
B	03.16.06	PROGRESS PRINT
A	03.08.06	80% PROGRESS PRINT

ISSUE LOG

△ = CLOUDED CHANGE

UNIVERSITY OF SOUTHERN MAINE
70 FALMOUTH STREET
PORTLAND, MAINE

RESEARCH WING
PHASE III FIT-OUT

LEGEND
AND NOTES

SCALE	NTS
DRAWN BY	MVR
CHECKED BY	
PROJ. ARCH. / ENGR.	TGW
PROJ. MGR.	RCH
JOB NO.	03049.10

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