FIXTURE/EQUIPMENT DESIGNATIONS:

Abbrev.	Description
BT–A	BATH TUB & TYPE
CW–A	CAN WASHER & TYPE
CP–A	CIRCULATOR PUMP & TYPE
DE–A	DRAINAGE EJECTOR & TYPE
DF–A	DRINKING FOUNTAIN & TYPE
ES/EW–A	EMERGENCY SHOWER/ EYEWASH UNIT & TYPE
EW–A	EMERGENCY EYEWASH UNIT & TYPE
EWC–A	ELECTRIC WATER COOLER & TYPE
HEX–A	HEAT EXCHANGER AND TYPE
HTR–A	HOT WATER HEATER & TYPE
JS–A	JANITORS SINK & TYPE
LAV–A	LAVATORY & TYPE
MR–A	MOP RECEPTOR & TYPE
SE–A	SEWAGE EJECTOR & TYPE
SH–A	SHOWER & TYPE
SK–A	SINK & TYPE
UR–A	URINAL & TYPE
WC–A	WATER CLOSET & TYPE
WHS–A	WASH HOSE STATION & TYPE

PLUMBING ABBREVIATIONS:

Abbrev.	Description
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AVTR	ACID VENT THROUGH ROOF
AVS	ACID VENT STACK
AWS	ACID WASTE STACK
BOP	BOTTOM OF PIPE
BTUH	BTU PER HOUR
CC	CENTER TO CENTER
CFH	CUBIC FEET PER HOUR
CFM	CUBIC FEET PER MINUTE
CI	CAST IRON
CL	CENTERLINE
CLDI	CEMENT LINED DUCTILE IRON
CONN	CONNECT
CONT	CONTINUATION
CONTR.	CONTRACTOR
CTE	CONNECT TO EXISTING
CWR	COLD WATER RISER
DFU	DRAINAGE FIXTURE UNITS
DIA	DIAMETER
DWG	DRAWING
EC	ELECTRICAL CONTRACTOR
EL	ELEVATION
ETR	EXISTING TO REMAIN
FFE	FINISHED FLOOR ELEVATION
FLR	FLOOR
GAL	GALLONS
GC	GENERAL CONTRACTOR
GCVTR	GAS CONDUIT VENT THROUGH ROOF
GPM	GALLONS PER MINUTE
GVTR	GARAGE VENT THROUGH ROOF
GTVTR	GAS TRAIN VENT THROUGH ROOF
GWS	GARAGE WASTE STACK
GVS	GARAGE VENT STACK
HVAC	HEATING, VENTILATION AND AIR CONDITIONING
HWCR	HOT WATER CIRCULATION RISER
HWR	HOT WATER RISER
KEC	KITCHEN EQUIPMENT CONTRACTOR
IN	INCHES
INV	INVERT ELEVATION
LPC	LIMIT OF PLUMBING CONTRACT
MIN	MINIMUM
MAV	MANUAL AIR VENT
MAX	MAXIMUM
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OC	ON CENTER
OFCI	OWNER FURNISHED & CONTRACTOR INSTALLED
OFI	OWNER FURNISHED & INSTALLED
PC	PLUMBING CONTRACTOR
PSI	POUNDS PER SQUARE INCH
RE	REMOVE EXISTING
SF	SQUARE FEET
SCH	SCHEDULE
S/S	STAINLESS STEEL
SS	SOIL STACK
SVS	SEPARATOR VENT STACK
SVTR	SEPARATOR VENT THROUGH ROOF
TYP	TYPICAL
VIF	VERIFY IN FIELD
VTR	VENT THROUGH ROOF
VS	VENT STACK
WS	WASTE STACK
W.C.	WATER COLUMN

PLUMBING LEGEND:

Symbol	Abbrev.	Description
	DN	PIPE DOWN THROUGH FLOOR
	UP	PIPE UP THROUGH FLOOR/ROOF ABOVE
		PIPE DROP
	WCO	WALL CLEANOUT
	CO	CLEANOUT
	GCO	GRADE CLEANOUT
	FCO	FLOOR CLEANOUT
	DCO	DANDY CLEANOUT
		CAP
		PIPE BREAK
		UNION
		FLEXIBLE CONNECTOR
		STRAINER
	WTS	WATERTIGHT PIPE SLEEVE
		GUIDE
		PIPE ANCHOR
		THERMOMETER
	PG	PRESSURE GAUGE
OR	SOV	SHUT–OFF VALVE (TYPE PER SPECS)
OR	BV	BALANCING VALVE
	VIV	VALVE IN VERTICAL
	T& P	TEMPERATURE & PRESSURE RELIEF VALVE
	PRV	PRESSURE REDUCING VALVE
	ESV	ELECTRIC SOLENOID VALVE
	MGV	MECHANICAL GAS SHUT–OFF VALVE (FURNISHED BY KITCHEN EQUIPMENT CONTRACTOR)
OR	CV	CHECK VALVE
	DV	DRAIN VALVE W/VACUUM BREAKER
		FLOW ARROW
WM		WATER METER
GM		GAS METER
1/8"		PIPE SLOPE INDICATOR (DN/FT)
	CTE	CONNECT TO EXISTING
	C&C	CUT & CAP
existing to be removed / existing to remain		LIMITS OF DEMOLITION
		PIPING EXPANSION LOOP
	BWV	BACKWATER VALVE
	BWV	BACKWATER VALVE W/FLOOR CLEANOUT
	TB	THRUST BLOCK
	AP	ACCESS PANEL
	EW–A	EMERGENCY EYEWASH UNIT & TYPE
	ES/EW–A	EMERGENCY SHOWER/EYEWASH UNIT & TYPE
	ES–A	EMERGENCY SHOWER UNIT & TYPE
	EW–A	RECESSED EMERGENCY EYEWASH UNIT & TYPE
	TP–A	TRAP PRIMER & TYPE
	GW&T	GARAGE WASTE AND TRAP
	AW&T	ACID WASTE AND TRAP
	KW&T	KITCHEN WASTE AND TRAP
	W&T	WASTE AND TRAP
	H/C HB–A	HOT & COLD WATER HOSE BIBB & TYPE
	SA–A	SHOCK ABSORBER & TYPE
	HB–A	HOSE BIBB & TYPE
	WH–A	WALL HYDRANT & TYPE
EGV	EGV	EMERGENCY GAS SHUT–OFF VALVE
		SHOWER HEAD

Symbol	Abbrev.	Description
	MV–A	MIXING VALVE & TYPE
	RPBP	REDUCED PRESSURE BACKFLOW PREVENTER
	BVS	HOT WATER BALANCING VALVE STATION
	AD–A	AREA DRAIN & TYPE
	FD–A	FLOOR DRAIN & TYPE
	FS–A	FLOOR SINK & TYPE
	OFD–A	OVERFLOW DRAIN & TYPE
	RD–A	ROOF DRAIN & TYPE
	GD–A	GARAGE DRAIN & TYPE
	PD–A	PLANTER DRAIN & TYPE
	TD–A	TRENCH DRAIN & TYPE
		EXISTING FIXTURE TO BE REMOVED
sanitary riser / water riser / drawing where risers occur — A 1 / P6.2		RISER DIAGRAM DESIGNATION
detail no. 5 / drawing where detail occurs P5.1		DETAIL REFERENCE
equip. type HTR 5 / equip. number		EQUIPMENT TAG
		LIGHT LINE INDICATES EXISTING PIPING
		HEAVY LINE INDICATES NEW PIPING
	AIP	ABANDON PIPING IN PLACE
	ETBR	EXISTING PIPING TO BE REMOVED
	ETR	EXISTING PIPING TO REMAIN
(S)	S	SANITARY PIPING BELOW FLOOR
S	S	SANITARY PIPING
(V)	V	VENT PIPING BELOW FLOOR
	V	VENT PIPING
(CW)	CW	DOMESTIC COLD WATER PIPING BELOW FLOOR
– –	CW	DOMESTIC COLD WATER PIPING
(HW)	HW	DOMESTIC HOT WATER PIPING BELOW FLOOR
– – –	HW	DOMESTIC HOT WATER PIPING
(HWC)	HWC	DOMESTIC HOT WATER CIRCULATION PIPING BELOW FLOOR
– – – –	HWC	DOMESTIC HOT WATER CIRCULATION PIPING
(G)	G	NATURAL GAS PIPING BELOW FLOOR
G	G	NATURAL GAS PIPING
GTV	GTV	GAS TRAIN VENT PIPING
GCV	GCV	GAS CONDUIT VENT
EG	EG	ELEVATED PRESSURE NATURAL GAS PIPING
(ST)	ST	STORM PIPING BELOW FLOOR
ST	ST	STORM PIPING
HW140	HW140	DOMESTIC HOT WATER 140° PIPING
HWC140	HWC140	DOMESTIC HOT WATER CIRCULATION 140° PIPING
HW180	HW180	DOMESTIC HOT WATER 180° PIPING
HWC180	HWC180	DOMESTIC HOT WATER CIRCULATION 180° PIPING
(PCW)	PCW	PROTECTED COLD WATER PIPING BELOW FLOOR
+	PCW	PROTECTED COLD WATER PIPING
(PHW)	PHW	PROTECTED HOT WATER PIPING BELOW FLOOR
++	PHW	PROTECTED HOT WATER PIPING
(PHWC)	PHWC	PROTECTED HOT WATER CIRCULATION BELOW FLOOR
+++	PHWC	PROTECTED HOT WATER CIRCULATION
(AW)	AW	ACID RESISTANT WASTE PIPING BELOW FLOOR
AW	AW	ACID RESISTANT WASTE PIPING
(AV)	AV	ACID RESISTANT VENT PIPING BELOW FLOOR
AV	AV	ACID RESISTANT VENT PIPING

Symbol	Abbrev.	Description
(KW)	KW	KITCHEN WASTE PIPING BELOW FLOOR
KW	KW	KITCHEN WASTE PIPING
IW	IW	INDIRECT WASTE PIPING
(TP)	TP	TRAP PRIMER WATER PIPING BELOW FLOOR
TP	TP	TRAP PRIMER WATER PIPING
TW	TW	TEMPERED WATER PIPING
FM	FM	(WASTE) FORCED MAIN PIPING
CAI	CAI	COMPRESSED AIR INTAKE PIPING
CA	CA	COMPRESSED AIR PIPING
V	VAC	VACUUM PIPING
VE	VE	VACUUM EXHAUST PIPING
(GW)	GW	GARAGE WASTE PIPING BELOW FLOOR
GW	GW	GARAGE WASTE PIPING
(GV)	GV	GARAGE VENT PIPING BELOW FLOOR
GV	GV	GARAGE VENT PIPING
(SW)	SW	SEPARATOR WASTE PIPING BELOW FLOOR
(SV)	SV	SEPARATOR VENT PIPING BELOW FLOOR
SV	SV	SEPARATOR VENT PIPING
DWS	DWS	CHILLED DRINKING WATER SUPPLY PIPING
DWR	DWR	CHILLED DRINKING WATER RECIRCULATION PIPING
(IR)	IR	IRRIGATION WATER PIPING BELOW FLOOR
IR	IR	IRRIGATION WATER PIPING
	HTI	HEAT TRACED & INSULATED PIPING (FREEZE PROTECTION)
	HWTM	HOT WATER PIPING W/TEMPERATURE MAINTENANCE CABLE
AW		DOUBLE CONTAINMENT PIPING

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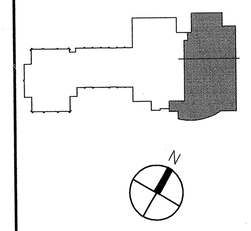

OWNER REVIEW

NAME DATE

NO.	DATE	DESCRIPTION
0	02.20.04	CONSTRUCTION

ISSUE LOG

△ = CLOUDED CHANGE

UNIVERSITY OF SOUTHERN MAINE
SCIENCE BUILDING RESEARCH WING EXPANSION
70 Falmouth Street
Portland, Maine

LEGEND AND NOTES

SCALE	N.T.S.
DRAWN BY	MVR
CHECKED BY	
PROJ. ARCH. / ENGR.	
PROJ. MGR.	RCH
JOB NO.	03049.00

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