

MIXING VALVE SCHEDULE									
UNIT NO	LOCATION	SERVES	INLETS	OUTLET	SUPPLY TEMP °F	DESIGN GPM	MIN GPM	PRESSURE DROP (PSIG)	BASIS OF DESIGN
TMV-1	BOILER RM A33	DOMESTIC HOT WATER	1"	1-1/2"	120°	55	1	10	LEONARD TM-920
EMV-1	MAKER SPACE B10	EM-1 MAKER SPACE B10	1"	1-1/4"	80°	20	3	5	GUARDIAN G 3802LF
EMV-2	NURSE A11	EM-2 NURSE A11	1/2"	1/2"	80°	0.5	2		GUARDIAN G 3802LF
EMV-3	CUST C08	EM-3 CUST C08	1/2"	1/2"	80°	3.0	0.5	7	GUARDIAN G 3802LF
NOTES:									

HW TEMPERATURE MAINTENANCE SCHEDULE									
ZONE	SERVES	CIRCUIT START LOCATION	MAINTAINED TEMP °F	CIRCUIT LENGTH (FT)	MAX CIRCUIT LENGTH (FT)	VOLTS/PHASE	BREAKER SIZE	BASIS OF DESIGN	NOTES
T1	KITCHEN AREAS	BOILER RM A33	140	80	250	208/1Ø	15	RAYCHEM HWAT-R2	1
T2	"A" WING WEST	BOILER RM A33	115	320	330	208/1Ø	20	RAYCHEM HWAT-R2	1
T3	"A" WING EAST	BOILER RM A33	115	315	330	208/1Ø	20	RAYCHEM HWAT-R2	1
T4	"B" WING WEST	CORR B13	115	260	330	208/1Ø	20	RAYCHEM HWAT-R2	1
T5	"B" WING EAST	CORR B13	115	280	330	208/1Ø	20	RAYCHEM HWAT-R2	1
T6	"C" WING EAST	CORR C06	115	280	330	208/1Ø	20	RAYCHEM HWAT-R2	1
T7	"C" WING WEST	CORR C017	115	235	350	208/1Ø	15	RAYCHEM HWAT-R2	1
NOTES: 1. CIRCUIT LENGTH AND BREAKER SIZE SCHEDULED IS APPROXIMATE BASED UPON PIPING LAYOUT SHOWN ON PLANS, AND IS PROVIDED ONLY AS A GUIDE FOR DETERMINING ELECTRICAL REQUIREMENTS. ADDITIONAL ZONES SHALL BE PROVIDED IF ACTUAL INSTALLATION EXCEEDS MANUFACTURER'S RECOMMENDED SIZING.									

EXPANSION TANK SCHEDULE							
UNIT NO	LOCATION	SERVES	MIN TANK VOLUME (GAL)	ACCEPTANCE VOLUME	DIMENSIONS	BASIS OF DESIGN	NOTES
EXT-P1	BOILER RM A33	DOMESTIC WATER	22	12 GAL	16" Ø x 40"	TACO PAX-84	POTABLE WATER
NOTES:							

DRAIN SCHEDULE							
UNIT NO	TYPE	DESCRIPTION	PIPE SIZE	STRAINER DIMENSIONS	BASIS OF DESIGN	NOTES	
FD-1	FLOOR DRAIN	SQ DRAIN FOR FINISHED SPACES	3"	6" X 6"	ZURN ZN415-S-P	1	
FD-2	FLOOR DRAIN	ROUND DRAIN WITH IW FUNNEL	3"	7Ø	ZURN ZN415-B-4-Y-P	1,2	
FD-3	FLOOR DRAIN	ROUND DRAIN FOR UNFINISHED SPACES	3"	7Ø	ZURN ZN415-B-Y-P	1,2	
FD-4	FLOOR DRAIN	SQ DRAIN FOR FINISHED SPACES	2"	6" X 6"	ZURN ZN415-S-P	1	
SH-1	SHOWER DRAIN	ROUND DRAIN	2"	5Ø	ZURN ZN415-B-Y-P	1	
SH-2	SHOWER DRAIN	ROUND DRAIN	2"	5Ø	ZURN ZN415-B-Y-P	1	
FS-1	FLOOR SINK	1/2 GRATE, 8-INCH DEEP SUMP	3"	12" X 12"	ZURN ZN1901-P-2-23-33	1,2	
FS-2	FLOOR SINK	1/2 GRATE, 6-INCH DEEP SUMP	3"	8" X 8"	ZURN ZN1901-P-2-23-33	1,2	
RD-1	ROOF DRAIN	COMBINATION ROOF DRAIN & OVERFLOW DRAIN	SEE PLANS	15Ø DOME	ZURN ZC163-EAE		
RD-2	ROOF DRAIN	STANDARD ROOF DRAIN	SEE PLANS	15Ø DOME	ZURN Z100		
ODN	OVERFLOW DOWNSPOUT NOZZLE	FOR OVERFLOW DRAIN DISCHARGE	SEE PLANS	N/A	ZURN Z199-SS		
NOTES: 1. PROVIDE TRAP PRIMER CONNECTION TO FLOOR DRAIN, SHOWER DRAIN, OR FLOOR SINK. 2. PROVIDE WITH SEDIMENT BUCKET.							

PUMP SCHEDULE										
UNIT NO	SERVES	TYPE	GPM	TOTAL HEAD	MOTOR DATA		SUCTION/DISCHARGE (IN)	BASIS OF DESIGN	NOTES	
					HP	RPM	VOLTS/PHASE			
SP-1	ELEVATOR SUMP PIT	SUMP	50	20	1/2	3450	115V/1Ø	-J2	ZOELLER N153 OIL GUARD SYSTEM	1
NOTES: 1. PROVIDE PACKAGED PUMP SYSTEM WITH OIL SWITCH; NEMA 4X ALARM AND CONTROL PANEL WITH H-O-A SWITCH, AUDIO AND VISUAL ALARM DEVICES, AND DRY ALARM, CONTACTS FOR DDC SYSTEM INTERFACE; FLOAT SWITCH.										

PLUMBING FIXTURE ROUGH-IN SCHEDULE											
UNIT NO	DESCRIPTION	WASTE	VENT	HW	CW	REMARKS	NOTES				
WC-1	WATER CLOSET	4"	2"	-	1"	WALL HUNG, ADA, MANUAL FLUSH VALVE					
WC-2	WATER CLOSET	4"	2"	-	1"	WALL HUNG, STANDARD HEIGHT, MANUAL FLUSH VALVE					
WC-3	WATER CLOSET	4"	2"	-	1"	WALL HUNG, ADA, CHILD HEIGHT, MANUAL FLUSH VALVE					
U-1	URINAL	2"	1-1/2"	-	3/4"	WALL HUNG, ADA, MANUAL FLUSH VALVE					
U-2	URINAL	2"	1-1/2"	-	3/4"	WALL HUNG, STANDARD HEIGHT, MANUAL FLUSH VALVE					
S-1L	CLASSROOM SINK	1-1/2"	1-1/2"	1/2"	1/2"	SS, SINGLE BOWL, COUNTERTOP, ADA, WITH BUBBLER ON LEFT, MANUAL FAUCET					
S-1R	CLASSROOM SINK	1-1/2"	1-1/2"	1/2"	1/2"	SS, SINGLE BOWL, COUNTERTOP, ADA, WITH BUBBLER ON RIGHT, MANUAL FAUCET					
S-2	SINK	1-1/2"	1-1/2"	1/2"	1/2"	SS, SINGLE BOWL, COUNTERTOP, ADA, MANUAL FAUCET					
S-3	SINK	1-1/2"	1-1/2"	1/2"	1/2"	SS, FLOOR MOUNTED, SINGLE BOWL, MANUAL FAUCET, LEVER HANDLE DRAIN					
S-4	ART ROOM SINK	1-1/2"	1-1/2"	1/2"	1/2"	SS, SINGLE BOWL, COUNTERTOP, DEEP BOWL, PLASTER TRAP, MANUAL FAUCET, LEVER HANDLE DRAIN					
S-5	ART ROOM SINK	1-1/2"	1-1/2"	2@1/2"	2@1/2"	SS, TWO STATION, WALL HUNG DEEP BOWL, DUAL MANUAL FAUCET, PLASTER TRAP, LEVER HANDLE DRAIN					
WF-1	WASH FOUNTAIN	1-1/2"	1-1/2"	1/2"	1/2"	TRIPLE BAY WALL HUNG LAVATORY, SOLID SURFACE, ADA, AUTOMATIC BATTERY OPERATED FAUCETS					
L-1	LAVATORY	1-1/2"	1-1/2"	1/2"	1/2"	SOLID SURFACE INTEGRAL WITH COUNTERTOP, ADA, MANUAL FAUCET					
L-2	LAVATORY	1-1/2"	1-1/2"	1/2"	1/2"	WALL HUNG, ADA, MANUAL FAUCET					
EW-C-1	WATER COOLER	1-1/2"	1-1/2"	-	1/2"	ADA, DUAL HEIGHT, WALL HUNG, WITH BOTTLE FILLER					
MR-1	MOP RECEPTOR	3"	1-1/2"	1/2"	1/2"	FLOOR MOUNTED, SQUARE, TERRAZZO					
SH-1	SHOWER	2"	1-1/2"	1/2"	1/2"+1/2" TP	ONE-PIECE FIBERGLASS STALL SHOWER, ADA WITH INTEGRAL SEAT AND GRAB BARS, VALVE AND SLIDEBAR HEAD					
SH-2	SHOWER	2"	1-1/2"	1/2"	1/2"+1/2" TP	ONE-PIECE FIBERGLASS STALL SHOWER, VALVE AND ADJUSTABLE HEAD					
WOB	WASHER OUTLET BOX	2"	1-1/2"	1/2"	1/2"	RECESSED WITH INTEGRAL WHA					
IOB	ICE MAKER OUTLET BOX	-	-	-	1/2"	RECESSED VALVE BOX					
EM-1	EMERGENCY SHOWER/EYEWASH	-	-	1-1/4" TW	-	FREE-STANDING, ADA COMPLIANT					
EM-2	EMERGENCY EYEWASH	-	-	1/2" TW	-	SWING ACTION, COUNTER-MOUNTED					
EM-3	EMERGENCY EYE/FACEWASH	1-1/2" IW	-	1/2" TW	-	WALL MOUNTED					
NFWH	WALL HYDRANT	-	-	-	3/4"	NON-FREEZE, KEY OPERATED, RECESSED					
WH	WALL HYDRANT	-	-	1/2"	-	MILD CLIMATE, KEY OPERATED, SURFACE MOUNTED, NARROW WALL INSTALLATION					
HB	HOSE BIBB	-	-	-	1/2"	SURFACE MOUNTED, WHEEL OPERATOR					
FD-1	FLOOR DRAIN	3"	1-1/2"	-	1/2" TP	SEE DRAIN SCHEDULE					
FD-2	FLOOR DRAIN	3"	1-1/2"	-	1/2" TP	SEE DRAIN SCHEDULE					
FD-3	FLOOR DRAIN	3"	1-1/2"	-	1/2" TP	SEE DRAIN SCHEDULE					
FD-4	FLOOR DRAIN	2"	1-1/2"	-	1/2" TP	SEE DRAIN SCHEDULE					
FS-1	FLOOR SINK	3"	1-1/2"	-	1/2" TP	SEE DRAIN SCHEDULE					
FS-2	FLOOR SINK	3"	1-1/2"	-	1/2" TP	SEE DRAIN SCHEDULE					
NOTES: 1. REFER TO SHEET AE420 FOR FIXTURE INSTALLATION HEIGHTS. 2. PROVIDE TRAP PRIMER CONNECTION TO FLOOR DRAINS, SHOWER DRAINS, AND FLOOR SINKS WHERE INDICATED ON PLANS AND SCHEDULES. 3. REFER TO Q-104 FOR KITCHEN EQUIPMENT CONNECTION AND ROUGH-IN INFORMATION. 4. WHERE VENT CONNECTIONS TO FIXTURE ARE CALLED OUT ON PLANS AND DIAGRAMS TO BE LARGER THAN SCHEDULED ROUGH-IN, PROVIDE LARGER SIZE REQUIRED FOR LONG HORIZONTAL VENT LENGTHS OR COMBINATION WASTE AND VENT PIPING.											

GAS WATER HEATER SCHEDULE											
UNIT NO	LOCATION	STORAGE GALLONS	CW INLET TEMP °F	HW STORAGE TEMP °F	MIN GPH RECOVERY @ 90° ΔT	GAS TYPE	GAS INPUT MBH	AIR CONNECTIONS OA/FLUE	EFFICIENCY	BASIS OF DESIGN	NOTES
WH-1	BOILER ROOM A33	119	40	140	120	NATURAL	100	2"/2"	96%	HTP PHEONIX PH100-119	1,2
WH-2	BOILER ROOM A33	119	40	140	120	NATURAL	100	2"/2"	96%	HTP PHEONIX PH100-119	1,2
NOTES: 1. PROVIDE MANUFACTURER'S CONDENSATE NEUTRALIZATION ASSEMBLY. 2. PROVIDE MANUFACTURER'S CONCENTRIC TYPE ROOF TERMINATION KIT.											

TRAP PRIMER ASSEMBLY SCHEDULE									
UNIT NO	LOCATION	MOUNTING	NO OF MANIFOLD OPENINGS	NO OF DESIGN CONNECTIONS	CONN SIZE	ELEC	BASIS OF DESIGN	NOTES	
TPA-1	BOILER ROOM A33	RECESSED	30	26	1/2"	120/1	PPP PT-2130	1	
TPA-2	CUST C25	RECESSED	10	9	1/2"	120/1	PPP PT-10	1	
TPA-3	TOILET B18A	RECESSED	10	9	1/2"	120/1	PPP PT-10	2	
TPA-4	CUST C08	RECESSED	12	12	1/2"	120/1	PPP PT-12	1	
TPV-5	2ND GRADE C16	UNDER SINK/COUNTER	4	3	1/2"	N/A	PPP PR01-500 W/ PPP DU-4		
TPA-6	MECH D13	SURFACE	8	7	1/2"	120/1	PPP PTS-8	3	
TPA-7	MECH D21	SURFACE	8	6	1/2"	120/1	PPP PTS-8	3	
NOTES: 1. PROVIDE CABINET WITH MANUFACTURER'S STAINLESS STEEL ACCESS DOOR. 2. PROVIDE CABINET WITH MANUFACTURER'S PRIMER COATED STEEL ACCESS DOOR. 3. PROVIDE CABINET WITH MANUFACTURER'S STEEL COVER PLATE.									

BACKFLOW PREVENTER SCHEDULE									
UNIT NO	LOCATION	SYSTEM SERVED	TYPE	SIZE	DESIGN FLOW (GPM)	MAX WPD @ DESIGN (PSI)	BASIS OF DESIGN	NOTES	
BFP-1	BOILER ROOM A33	DOMESTIC WATER SERVICE	RPZ	4"	165	12	WILKINS 375		
BFP-2	BOILER ROOM A33	HVAC MAKE-UP WATER	RPZ	1-1/4"	15	12	WILKINS 375		
BFP-3	MAKER SPACE B10	EXTERIOR BALL FIELD WATERING SYSTEM	RPZ	2"	50	12	WILKINS 375		
NOTES:									

**GENERAL SHEET NOTE**

**NOTE ON BASIS OF DESIGN**

PRODUCTS OF OTHER MANUFACTURERS ARE ACCEPTABLE IF THEY MEET THE OPERATIONAL REQUIREMENTS INDICATED. ANY ADJUSTMENTS TO DUCTING, PIPING, WIRING OR CONFIGURATION DUE TO THE SELECTION OF A MANUFACTURER OTHER THAN THAT LISTED AS THE BASIS OF DESIGN WILL BE ACCOMPLISHED BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO PORTLAND PUBLIC SCHOOLS.

		<b>STATE OF MAINE</b> <b>PUBLIC SCHOOL PROJECT</b>	
		TITLE: PORTLAND PUBLIC SCHOOLS NEW FRED P. HALL ELEMENTARY SCHOOL LOCATION: 23 ORONO ROAD, PORTLAND, ME TITLE THIS DWG: PLUMBING SCHEDULES	
DRAWN BY: RDA CHECK BY: MSA		<b>P-601</b> SHEET NO.	
NO. DATE	DESCRIPTION	BY	DATE
	REVISIONS		03/17/17