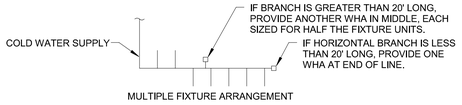
WATER HAMMER ARRESTOR SIZING



FIXTURE	CW FIXTURE UNITS	HW FIXTURE UNITS
VALVE WATER CLOSET	10	-
TANK WATER CLOSET	5	-
URINAL	5	-
LAVATORY/SINK	1.5	1.5
JANITOR SINK	3	3
SHOWER BATH TUB	2	2

TAG	PDI SIZE	PIPE SIZE	MAX FIXTURE UNITS
WHA	A	1/2"	1 - 11
WHA, SIZE "B"	B	3/4"	12 - 32
WHA, SIZE "C"	C	1"	33 - 60
WHA, SIZE "D"	D	1 1/4"	61 - 113
WHA, SIZE "E"	E	1 1/2"	114 - 154
WHA, SIZE "F"	F	2"	154 - 330

PLUMBING FIXTURE SCHEDULE

MARK	FIXTURE	COLD	HOT	WASTE	VENT	DESCRIPTION	NOTES
MSK-1	MOP BASIN	3/4"	3/4"	3"	2"	BUILT IN, PROVIDE CAST IRON P-TRAP WITH CLEANOUT & STRAINER. FAUCET SHALL HAVE INTEGRAL CHECK STOPS TO PREVENT CROSS-FLOW; NO SUBSTITUTIONS.	1
RH-1	ROOF HYDRANT	3/4"	---	---	---	WOODFORD MODEL RHY2-MS FREEZELESS ROOF HYDRANT WITH BACKFLOW PREVENTER - FIELD TESTABLE WITH NO SPRAYBACK	
SK-1	SINK BY OWNER	1/2"	1/2"	2"	1-1/2"	HAND SINK PROVIDED BY OWNER. PLUMBING CONTRACTOR TO PROVIDE ASSE 1070 MIXING VALVE.	1, ADA ACCESSIBLE
SK-2	SINK BY OWNER	1/2"	1/2"	---	---	SINK AND FAUCET BY OWNER FOR INSTALLATION BY PLUMBING CONTRACTOR.	1
SK-3	SINK BY OWNER	3/4"	3/4"	---	---	SINK AND FAUCET BY OWNER FOR INSTALLATION BY PLUMBING CONTRACTOR.	1
SK-4	SINK BY OWNER	1/2"	1/2"	2"	1-1/2"	HAND SINK PROVIDED BY OWNER. PLUMBING CONTRACTOR TO PROVIDE ASSE 1070 MIXING VALVE.	1
WH-1	WALL HYDRANT	3/4"	1/2"	---	---	WOODFORD MODEL B67 SERIES AUTOMATIC DRAINING FREEZELESS WALL HYDRANT WITH BACKFLOW PREVENTER - FIELD TESTABLE WITH NO SPRAYBACK	

NOTES:
1. FIXTURE SHALL BE PROVIDED BY LOVES, CONTRACTOR INSTALLED. CONTRACTOR TO PROVIDE ALL ACCESSORIES THAT ARE REQUIRED FOR FULL INSTALLATION OF THESE PLUMBING FIXTURES (SUCH AS: INSULATION, ANGLE VALVES, P-TRAPS, ETC.)

SPECIALTY PLUMBING FIXTURE SCHEDULE

MARK	FIXTURE	MANUFACTURER	MODEL	DESCRIPTION
FD-2	FLOOR DRAIN	WATTS	FD12-R-6R-GNB	ASME A112.21.1M, ON GRADE PVC TWO PIECE BODY WITH ADJUSTABLE 6" DIAMETER SATIN NICKEL BRONZE STRAINER WITH ROUND FUNNEL, AND 3" OUTLET.
FS-1	FLOOR SINK	WATTS	FS-740-1-150-FC	12"X12" SQUARE LACQUERED CAST IRON BODY, WITH INTEGRAL FLASHING FLANGE WITH CLAMPING COLLAR, EPOXY COATED INTERIOR, 8" DEEP SUMP, POLYPROPYLENE DOME STRAINER, CLAMP COLLAR, HALF GRATE, AND SATIN NICKEL-BRONZE STRAINER W / 4" OUTLET.
FS-2	FLOOR SINK	WATTS	FS-740-1-150-FC	12"X12" SQUARE LACQUERED CAST IRON BODY, WITH INTEGRAL FLASHING FLANGE WITH CLAMPING COLLAR, EPOXY COATED INTERIOR, 8" DEEP SUMP, POLYPROPYLENE DOME STRAINER, CLAMP COLLAR, HALF GRATE, AND SATIN NICKEL-BRONZE STRAINER W / 3" OUTLET.
CO-1	EXTERIOR CLEANOUT	JAY R. SMITH	4250	HEAVY DUTY DURACOAT CAST IRON BODY WITH DOUBLE FLANGE HOUSING AND SCORIATED CAST IRON COVER WITH LIFTING DEVICES SECURED WITH COUNTERSUNK SCREWS.
CO-3	INTERIOR CLEANOUT	JAY R. SMITH	4140	LACQUERED CAST IRON BODY WITH ANCHOR FLANGE, REVERSIBLE CLAMPING COLLAR, THREADED TOP ASSEMBLY AND ROUND GASKETED SCORED COVER IN SERVICE AREAS AND ROUND GASKETED DEPRESSED COVER TO ACCEPT FLOOR FINISH IN FINISHED FLOOR AREA.
CO-4	INTERIOR CLENOUT	JAY R. SMITH	4422	LINE TYPE WITH LACQUERED CAST IRON BODY AND ROUND EPOXY COATED GASKETED COVER, AND ROUND STAINLESS STEEL ACCESS COVER SECURED WITH MACHINE SCREW.
HD-1	HUB DRAIN	---	---	HUB DRAIN SAME AS SANITARY WASTE PIPING MATERIAL UNLESS NOTED OTHERWISE ON PLANS. END PIPE 2" AFF.
RD-1	ROOF DRAIN	WATTS	RD-300	COATED CAST IRON BODY, BOTTOM OUTLET, NO-HUB ROOF DRAIN WITH CAST OR DUCTILE IRON DOME, MEMBRANE CLAMP, ADJUSTABLE EXTENSION (OR EXTENSION SIZED FOR ROOF INSULATION), SUMP RECIEVER AND UNDERDECK CLAMP.
WHA	WATER HAMMER ARRESTER	PRECISION PLUMBING PRODUCTS		HARD DRAWN COPPER BODY WITH WROUGHT COPPER FITTINGS, PISTON TYPE WITH LUBRICATED EPDM "O" RING SEALS, MEETING ASSE 1010 OR PDI WH-201. PROVIDE PDI SIZES "A" THROUGH "F" AS SHOWN ON PLANS. PROVIDE SIZE "A" UNLESS SHOWN OTHERWISE ON THE PLANS.

NOTES:
1. NOT ALL FIXTURES LISTED MAY BE USED ON PLANS
2. ALL FLOOR DRAINS, FLOOR SINKS, AND ROOF DRAINS SHALL BE PROVIDED AND INSTALLED BY THE PLUMBING CONTRACTOR.
3. SEE SPECIFICATION SECTION 221006.

WATER HEATER SCHEDULE

MARK	MANUFACTURER	MODEL	LOCATION	TYPE	ELECTRICAL (AMP)	ELECTRICAL VOLT/PH	ELECTRICAL INPUT LOAD (KW)	ELECTRICAL EFF. %	PHYSICAL TANK SIZE (GAL)	RECOVERY RATE 100F DELTA T	NOTES
BDWH-1	BRADFORD WHITE	CEHD8045	MECH. CLOSET	ELEC STORAGE	125.0 A	208/3	45	98	80	186	1-6

1. PROVIDE WITH CONDENSATE NEUTRALIZER FOR EACH TANK.
2. PROVIDE WITH EXPANSION TANK (NAFET); WATTS MODEL DETA-12 (3.0 GAL. ACCEPTANCE VOLUME), CHARGE TANK WITH AIR TO IDENTICAL PRESSURE
3. AS STATIC DOMESTIC WATER PRESSURE,
   PROVIDE WITH RECIRCULATION VALVES; CIRCUIT SOLVER MODEL CS-1/2-105.
4. PROVIDE WITH CONCENTRIC VENT KIT.
5. OWNER PROVIDED FOR CONTRACTOR INSTALLATION.
6.. 100° TEMPERATURE RISE WITH 140°F OPERATING TEMPERATURE.

FIXTURE BRANCH CONNECTION SCHEDULE

FIXTURE	COLD WATER	HOT WATER	WASTE	VENT
FLOOR DRAIN, FLOOR SINK			3" (*)	2"
JANITOR SINK, 3 COMP SINK	3/4"	3/4"	3"	2"
LAVATORY, HAND SINK	1/2"	1/2"	2"	1 1/2"
SINK	1/2"	1/2"	2"	2"

NOTE: PIPE SIZES SHOWN ARE MINIMUM.
(*) REFER TO OUTLET SIZE OF FIXTURES

RECIRCULATION PUMP SCHEDULE

MARK	MANUFACTURER	MODEL	SERVICE	GPM	HEAD (FT.)	CONNECTION SIZE	ELECTRICAL DATA VOLTS	PH	HP	NOTES
BRP	TACO	009 BF5	BDWH-1	1	7	3/4"	120	1	1/8	A,B,C,D

NOTES:
A. ALL LEAD FREE CAST BRONZE BOOSTER.
B. PROVIDE WITH STRAINER UPSTREAM OF PUMP
C. PROVIDE ADJUSTABLE, SURFACE MOUNTED AQUASTAT - HONEYWELL L6006C
D. SET AQUASTAT TO SHUT OFF RECIRCULATION PUMP AT WATER HEATER SET POINT AND ON AT 10 DEGREES BELOW SET POINT.

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PLUMBING SCHEDULES

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