PIPE MATERIAL

1. SANITARY SEWER , VENT AND STORM DRAIN PIPING BELOW GROUND :	NO-HUB CAST IRON PIPE & FITTINGS WITH STAINLESS STEEL NO-HUB COUPLINGS. WRAP ALL UNDERGROUND PIPE AS SPECIFIED.
2. SANITARY SEWER, VENT & STORM DRAIN PIPING ABOVE GROUND :	SERVICE WEIGHT NO-HUB CAST IRON PIPE & FITTINGS CONFORMING TO THE REQUIREMENTS OF CISPI STANDARD 301, ASTM A888 OR ASTM A74 WITH TYPE 304 STAINLESS STEEL STANDARD DUTY NO-HUB COUPLINGS.
3. DOMESTIC, WATER BELOW GROUND :	TYPE 'K' COPPER WITH BRAZED JOINTS.
4. DOMESTIC, WATER ABOVE GROUND : OUTSIDE OF TYPICAL UNITS	TYPE "L" COPPER TUBING WITH SOLDERED JOINTS. DOMESTIC WATER PIPING SHALL UTILIZE LEAD-FREE MATERIAL AND SOLDER.
5. DOMESTIC, WATER ABOVE GROUND : INSIDE OF TYPICAL UNITS	PEX TUBING
6. CONDENSATE AND INDIRECT DRAIN PIPING :	TYPE "M" COPPER PIPE & FITTINGS WITH SOLDERED JOINTS. CONDENSATE DRAIN PIPING ABOVE CEILINGS SHALL BE INSULATED WITH "AP ARMAFLEX" CLOSED-CELL ELASTOMERIC PLENUM RATED FOAM INSULATION. FLAME-SPREAD INDEX OF 25 OR LESS & SMOKE-DEVELOPED INDEX OF 50 OR LESS. 1/2" THICK FOR PIPING UP TO 1". AND 1" THICK FOR PIPING 1¼" AND LARGER.
7. NATURAL GAS PIPING ABOVE GROUND:	SCHEDULE 40 BLACK STEEL PIPE WITH IRON SCREWED FITTING.
8. NATURAL GAS PIPING BELOW GROUND :	APPROVED POLYETHYLENE (PE) PIPE WITH FUSION JOINTS. SPIRAL WRAP ALL UNDERGROUND PIPE W/AWG 14 ELECTRIC TRACER WIRE.
9. INSULATION OF HOT WATER SUPPLY & RETURN PIPING :	GLASS FIBER PIPE INSULATION WITH FACTORY APPLIED WHITE JACKET; "J-M" MICRO-LOK 750AP. HOT WATER PIPE INSULATION SHALL HAVE A MINIMUM WALL THICKNESS OF NOT LESS THAN 1" FOR 3/4 IN. PIPE, 1½ IN. FOR 1 IN. THRU 1¼ IN. PIPE AND NOT LESS THAN 2 IN. FOR PIPE 2" DIA. AND LARGER.
10. ALL OF THE ABOVE SHALL COMPLY WITH THE SPECIFICATIONS.	

LEAD-FREE NOTE:

ALL PIPE, FITTINGS, FIXTURES, ETC. THAT CONTACT POTABLE WATER FOR HUMAN CONSUMPTION SHALL SHOW APPROVAL TO NSF 61, ANNEX "G". EFFECTIVE JANUARY 1, 2010, THE LEAD CONTENT OF THE WETTED SURFACE AREA OF THE PIPES, FITTINGS AND FIXTURES CONVEYING POTABLE WATER FOR HUMAN CONSUMPTION, OF NOT MORE THAN 0.25%, SHALL BE DETERMINED PURSUANT TO A PRESCRIBED FORMULA AS DETERMINED BY THIRD PARTY CERTIFIERS TO NSF STANDARD 61, ANNEX "G". FOR SOLDER AND FLUX, THE LEAD CONTENT SHALL BE NOT MORE THAN 0.2 PERCENT WHERE USED IN PIPING SYSTEMS THAT CONVEY OR DISPENSE WATER FOR HUMAN CONSUMPTION.

PLUMBING GENERAL NOTES

1. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF ALL PLUMBING FIXTURES, DRAINS AND EQUIPMENT.
2. COORDINATE ALL LOCATIONS, SIZES AND ELEVATIONS OF ALL SLEEVES THROUGH BEAMS, SLABS AND FOOTINGS WITH STRUCTURAL AND ARCHITECTURAL DRAWINGS.
3. ALL HORIZONTAL WASTE LINES SHALL BE RUN AT A MINIMUM SLOPE OF 1/4" PER FOOT UNLESS OTHERWISE NOTED ON PLAN.
4. ALL HORIZONTAL STORM DRAINS AND OVERFLOW DRAIN LINES SHALL BE RUN AT A SLOPE OF 1/8" PER FOOT UNLESS OTHERWISE NOTED ON PLAN.
5. COORDINATE AND VERIFY EXACT LOCATION, SIZE, POINTS OF CONNECTION AND INVERT ELEVATIONS OF UTILITY SERVICE PIPING BEFORE TRENCHING OR INSTALLATION.
6. COORDINATE WITH ARCHITECTURAL DRAWINGS FOR WALL AND PARTITION CONSTRUCTION AND THICKNESS WHERE PLUMBING PIPING OR EQUIPMENT IS INDICATED.
7. THE LOCATION AND ELEVATION OF ALL PLUMBING PIPING SHALL BE VERIFIED AND COORDINATED WITH ALL OTHER TRADES, STRUCTURAL CONDITIONS AND BUILDING CONSTRUCTION PRIOR TO START OF INSTALLATION.
8. ALL VALVES AND COCKS SHALL BE LOCATED TO BE READILY ACCESSIBLE. WHERE VALVES ARE INSTALLED WITHIN OR BEHIND WALLS, PARTITIONS OR CEILINGS, AN ACCESS PANEL SHALL BE INSTALLED.
9. ALL OUTLETS FOR FUTURE CONNECTIONS SHALL BE INSTALLED SO AS TO PERMIT EASY CONNECTION - COORDINATE WITH DUCT WORK, STRUCTURAL CONDITIONS AND ARCHITECTURAL LAYOUT.
10. ALL PLUGGED OR CAPPED WASTE OUTLETS FOR FUTURE CONNECTIONS SHALL BE INSTALLED ABOVE CEILING WITH PIPE INVERT + 4 INCHES ABOVE THE CEILING.
11. ALL PLUGGED OR CAPPED VENT OUTLETS FOR FUTURE CONNECTIONS SHALL BE INSTALLED ABOVE CEILING WITH PIPE INVERT 12" FROM BOTTOM OF SLAB.
12. SEE RISER DIAGRAMS FOR ALL PIPE SIZING FOR ALL PLUMBING SYSTEMS.
13. FIRE PROTECTION PIPING AND EQUIPMENT SHOWN IS FOR REFERENCE ONLY. FOR FIRE PROTECTION PIPING SEE FIRE SPRINKLER SHOP DRAWINGS. FIRE SPRINKLER DESIGN/BUILD CONTRACTOR SHALL COORDINATE HIS WORK DURING SHOP DRAWING PHASE, WITH ROOF DRAINS AND LINES AS SHOWN AND SHALL MAKE PROVISIONS FOR FUTURE DUCTWORK AND FINISHED CEILINGS.
14. FIRE RISERS SUBJECT TO FIRE AUTHORITY APPROVAL.
15. ALL WALL MOUNTED ACCESS PANELS AND WALL CLEANOUTS SHALL BE MOUNTED AS LOW AS POSSIBLE UNLESS NOTED OTHERWISE OR AS INDICATED IN ARCHITECTURAL PLANS OR AS REQUIRED. CONTRACTOR SHALL GET ARCHITECT AND ENGINEER APPROVAL FOR ALL LOCATIONS PRIOR TO INSTALLATION OF WALL GYPSUM BOARD.
16. THESE DRAWINGS ARE DIAGRAMMATIC . THE LOCATION & ELEVATION OF ALL PLUMBING PIPING IS APPROXIMATE AND SHALL BE VERIFIED AND COORDINATED WITH ALL OTHER TRADES, STRUCTURAL CONDITIONS AND BUILDING CONSTRUCTION PRIOR TO START OF INSTALLATION.
17. PENETRATIONS OF PIPES, ETC. IN WALLS REQUIRING PROTECTED OPENINGS SHALL BE FIRE STOPPED. FIRE STOP MATERIAL SHALL BE A TESTED ASSEMBLY APPROVED BY THE STATE FIRE MARSHAL.
18. ALL HOT AND COLD WATER PIPE SHALL BE INSULATED INCLUDING PIPING IN THE WALLS.
19. ALL REQUIRED CLEANOUTS SHALL BE INSTALLED AS PER SECTION 707.0 OF THE PLUMBING CODE.
20. ROOF DRAIN AND OVERFLOW PIPING WITHIN THE BUILDING SHALL UTILIZE APPROVED DRAINAGE FITTINGS.
21. CLEANOUTS FOR BUILDING STORM DRAINS SHALL COMPLY WITH THE REQUIREMENTS OF SECTION 719.0 OF THE PLUMBING CODE.
22. NEW BUILDING STORM DRAINAGE SYSTEM AND PARTS OF EXISTING SYSTEMS THAT HAVE BEEN ALTERED, EXTENDED OR REPAIRED SHALL BE TESTED AS DESCRIBED IN SECTION 1109.0 OF THE PLUMBING CODE.
23. DIELECTRIC UNIONS SHALL BE USED AT ALL POINTS OF CONNECTION WHERE THERE IS A DISSIMILARITY OF METALS.
24. ALL VENTS THROUGH ROOF SHALL MAINTAIN A MINIMUM OF 25 FT. CLEARANCE AND 3 FEET ABOVE OF ANY WINDOW, DOOR, OPENING, AIR INTAKE OR VENT SHAFT.

LEGEND

LEGEND	ABBR.	DESCRIPTION
	S OR W	SOIL OR WASTE ABOVE FLOOR OR GRADE
	S OR W	SOIL OR WASTE BELOW FLOOR OR GRADE
—SD—	SD	STORM DRAIN ABOVE FLOOR OR GRADE
—SD—	SD	STORM DRAIN BELOW FLOOR OR GRADE
—OD—	OD	OVERFLOW DRAIN ABOVE FLOOR OR GRADE
—SPD—	SPD	SUMP PUMP DISCHARGE
—SED—	SED	SEWAGE EJECTOR DISCHARGE
— — –SEV– — —	SEV	SEWAGE EJECTOR VENT
— — — — — —	V	SANITARY VENT
— —	CW	DOMESTIC COLD WATER
—NPW—	NPW	NON-POTABLE WATER
— — — —	HW	DOMESTIC HOT WATER
— — — — — —	HWR	DOMESTIC HOT WATER RETURN
—F—	F	FIRE MAIN
—D—	D	INDIRECT DRAIN
—CD—	CD	CONDENSATE DRAIN
—PCD—	PCD	PUMPED CONDENSATE DRAIN
—MG—	MG	MEDIUM PRESSURE FUEL GAS
—G—	G	FUEL GAS
—TP—	TP	TRAP PRIMER
		DIRECTION OF FLOW
	P.G.	PRESSURE GAUGE W/PETE COCK
	G.C.	GAS COCK
	P.R.V.	PRESSURE REDUCING VALVE
	C.V.	CHECK VALVE
	L.B.V.	LOCKING BALL VALVE
	B.V.	BALL VALVE
	G.V.	GATE VALVE
	FCO	FLOOR CLEANOUT
	WCO	WALL CLEANOUT
		DOWN
		RISE
		UNION
		SLOPE IN DIRECTION OF FLOW
	WHA	WATER HAMMER ARRESTOR
	P.O.C.	POINT OF CONNECTION
	RPBP	REDUCED PRESSURE BACKFLOW PREVENTER
	ABV	ABOVE
	AFF	ABOVE FINISHED FLOOR
	AP	ACESS PANEL
	BEH	BEHIND
	BEL	BELOW
	CLG	CEILING
	CONT.	CONTINUATION
	CO.	CLEAN OUT
————(E)————	EXIST. (E)	EXISTING
	FDC	FIRE DEPT. CONNECTION
	FIN.	FINISHED
	F.F.E.	FINISHED FLOOR ELEVATION
	FLR.	FLOOR
	FR.	FROM
	G.P.F.	GALLONS PER FLUSH
	GR	GRADE
	HDR	HEADER
	I.E.	INVERT ELEVATION
	O.S. & Y.	OUTSIDE SCREW & YOKE
	PIV	POST INDICATOR VALVE
	VTR	VENT THROUGH ROOF

PLUMBING SHEET INDEX

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11/18/2022

PLUMBING LEGEND & ABBREVIATIONS

P0.01

PLUMBING DRAIN SCHEDULE

TYPE	DESCRIPTION	SIZE	MANUFACTURER	MODEL NUMBER	GRATE	NOTES
FD-1	FLOOR DRAIN	SEE DWGS.	JR SMITH	2005Y		ROUND TOP, NOTE 2
FD-2	FLOOR DRAIN	SEE DWGS.	JR SMITH	2140Y	CAST IRON	PROVIDE TRAP PRIMER CONNECTION
FS-1	FLOOR SINK	SEE DWGS.	JR SMITH	3100Y-21		WITH 4" FUNNEL & TRAP PRIMER CONNECTION
GD-1	GARAGE DRAIN	4"	JR SMITH	2450Y-M		
TD-1	TRENCH DRAIN	SEE DWGS.	JR SMITH	9930	9870-462-DGC	
LD-1	LINEAR DRAIN	2"	SCHLUTER KERDI			FOR SHOWERS, REFER TO ARCHITECTURAL
RD-1	ROOF DRAIN	SEE DWGS.	JR SMITH	1031Y	POLYETHYLENE DOME	IRMA ROOF, NOTE 1
ORD-1	OVERFLOW ROOF DRAIN	SEE DWGS.	JR SMITH	1037Y	POLYETHYLENE DOME	IRMA ROOF, NOTE 1
DN-1	DOWNSPOUT NOZZLE	SEE DWGS.	JR SMITH	1770	-	CAST BRONZE
HD-1	HUB DRAIN	SEE DWGS.				

NOTES:
1. OMIT DOME WHERE DRAIN IS USED BELOW PEDESTAL PAVERS.
2. PROVIDE TRAP PRIMER CONNECTION WHERE INDICATED ON DWGS. BY "TP" AT DRAIN SYMBOL.
3. 1" AIR GAP REQUIRED AT ALL INSTANCES OF AN INDIRECT DRAIN DISCHARGING TO A FLOOR DRAIN OR FLOOR SINK. PROVIDE UNISTRUT OR SIMILAR PIPE SUPPORT AS NECESSARY TO GUARANTEE REQUIRED AIR GAP.

PLUMBING GAS WATER HEATER SCHEDULE

MARK	SERVICE	LOCATION/ SERVICE	NATURAL GAS CHARACTERISTICS			ELECTRICAL CHARACTERISTICS					WATER CHARACTERISTICS				MANUFACTURER BASIS OF DESIGN	NOTES
			INPUT MBH	EFFICIENCY	PRESSURE IN-WC	AMPS	V	PH	HZ	AIC	TANK VOLUME GAL	RECOVERY CAPACITY GPH	EWT DEG F	LWT DEG F		
B-1	DOMESTIC HOT WATER	BLDG B, LVL P2, ROOM P239	1500	97%		5.00	120	1	60		120	4409 GPH	40	140	RAYPAK XTHERM 1505A	1, 2, 3, 4, 5, 6, 7, 8
B-2	DOMESTIC HOT WATER	BLDG B, LVL P2, ROOM P239	1500	97%		5.00	120	1	60		120	4409 GPH	40	140	RAYPAK XTHERM 1505A	1, 2, 3, 4, 5, 6, 7, 8

NOTES:
1. PROVIDE WITH P & T VALVE.
2. 3/4" DRAIN CONNECTION.
3. 2-1/2" WATER CONNECTION.
4. 1-1/4" GAS CONNECTION.
5. SIZE: 50" X 31-1/8" X 67-1/8" TALL, SHIPPING WEIGHT: 1234 LBS
6. 8" DIA. FLUE.
7. SEE INSTALLATION MANUAL FOR LOW VOLTAGE WIRING REQUIREMENTS.
8. FOR OPERATION AT 8400' ELEVATION.

PLUMBING WATER SOFTENER SCHEDULE

MARK	SERVICE	LOCATION	EXCHANGE CAPACITY (GRAINS)	FLOW RATES (NOTE 3) CONTINUOUS (GPM)	PEAK (GPM)	BACKWASH (GPM)	PIPE SIZE (IN)	MANUFACTURER & MODEL NO.	NOTES
WS-1	DOMESTIC WATER	WATER ENTRY						CULLIGAN HCE-900-3	

NOTES:
1. ELECTRICAL: 120 V AC, 1 PH, 60 HZ.
2. LISTED EQUIPMENT MANUFACTURER IS THE BASIS OF DESIGN. OTHER MANUFACTURERS MEETING THE PERFORMANCE REQUIREMENTS ARE ACCEPTABLE.
3. MAX. PRESSURE LOSS 15 PSI AT CONTINUOUS FLOW. MAX PRESSURE LOSS 25 PSI AT PEAK FLOW.
4. PROVICE MODBUS/BACNET CONNECTION FOR INTEGRATION WITH BMS.

PLUMBING FIXTURE CONNECTION SCHEDULE

ITEM	FIXTURE	DESCRIPTION	CONNECTIONS S	V	CW	HW	REMARKS
WC-1	WATER CLOSET	FLOOR SET, TANK TYPE	4"	2"	1/2"	-	RESIDENTIAL UNITS, NOTE 1.
WC-2	WATER CLOSET	FLOOR SET, FLUSH VALVE	4"	2"	1-1/2"	-	AMENITY/PUBLIC, NOTE 1.
L-1	LAVATORY	COUNTERSET, ADA	1-1/2"	1-1/2"	1/2"	1/2"	PROVIDE THERMOSTATIC MIXING VALVE FOR FAUCET, NOTE 1
S-1	SINK	COUNTERSET	2"	1-1/2"	1/2"	1/2"	PROVIDE THERMOSTATIC MIXING VALVE FOR FAUCET, NOTE 1 AND 2.
SH-1	SHOWER	SHOWER VALVE WITH STOPS, SHOWER HEAD, HAND SHOWER SYSTEM (ADA)	2"	1-1/2"	1/2"	1/2"	NOTE 1.
SH-2	SHOWER/BATHTUB COMBO	SHOWER VALVE WITH STOPS, SHOWER HEAD, HAND SHOWER SYSTEM (ADA)	2"	1-1/2"	1/2"	1/2"	NOTE 1.
BT-1	BATHTUB	FREE STANDING TUB	1-1/2"	1-1/2"	1/2"	1/2"	NOTE 1.
EWC-1	ELECTRIC WATER COOLER		1-1/2"	1-1/2"	1/2"	-	NOTE 1.
MS-1	MOP SINK	CHICAGO 445-897SRXKCCP FAUCET, FIAT MSB2424 MOP BASIN W/E88AA24 BUMPER GUARDS	3"	1-1/2"	1/2"	1/2"	
HB-1	HOSE BIBB	CHICAGO 952-XKCP	-	-	1/2"	-	
WH-1	WALL HYDRANT	WOODFORD B67	-	-	3/4"	-	NON-FREEZE
WB-1	WALL BOX	GUY GRAY SSIB2AB	-	-	1/2"	-	FOR ICE MAKER OR COFFEE MAKER, WITH DCV-1 AT EACH CONNECTION.
WWB-1	WASHER WALL BOX	WATTS A2C-SC-WB	2"	1-1/2"	1/2"	1/2"	AUTOMATIC SHUT OFF WITH LEAK SENSOR.

NOTES:
1. REFERENCE OLSON KUNDIG SPECIFICATIONS APPENDIX A FOR MANUFACTURER AND MODEL OF FIXTURE AND TRIM AT EACH LOCATION.
2. PROVIDE 1/2" HW SHUT-OFF VALVE FOR EA. DISHWASHER CONNECTION AT LOCATIONS WITH DISHWASHER(S).

PLUMBING PUMP SCHEDULE

ITEM	DESCRIPTION	LOCATION/ SERVICE	CAP GPM	TDH	MOTOR HP	RPM	V	PH	MANUF. & MODEL NO.	REMARKS
ESP-1	ELEVATOR SUMP PUMP	TOWER A, ELEVATOR S1	50	22	0.50	3450	480	3	STANCOR SV50 OIL MINDER	NOTES 1, 2, 3, 4
ESP-2	ELEVATOR SUMP PUMP	TOWER A, ELEVATOR T1	50	22	0.50	3450	480	3	STANCOR SV50 OIL MINDER	NOTES 1, 2, 3, 4
ESP-3	ELEVATOR SUMP PUMP	TOWER A, ELEVATOR T2	50	22	0.50	3450	480	3	STANCOR SV50 OIL MINDER	NOTES 1, 2, 3, 4
ESP-4	ELEVATOR SUMP PUMP	TOWER B, ELEVATOR T3	50	22	0.50	3450	480	3	STANCOR SV50 OIL MINDER	NOTES 1, 2, 3, 4
ESP-5	ELEVATOR SUMP PUMP	TOWER B, ELEVATOR T4	50	22	0.50	3450	480	3	STANCOR SV50 OIL MINDER	NOTES 1, 2, 3, 4
ESP-6	ELEVATOR SUMP PUMP	TOWER C, ELEVATOR T5	50	22	0.50	3450	480	3	STANCOR SV50 OIL MINDER	NOTES 1, 2, 3, 4
BP-1	BOOSTER PUMP	TOWER B WATER ENTRY P239	380	261	15(4)	3599	480	3	GRUNDFOS HYDRO MPC-E 4CRE 20-6	(1) PUMP REDUNDANT
CP-1	CIRCULATING PUMP	TOWER B WATER ENTRY P239	31	35	1.00	-	208	1	BELL & GOSSET ECOCIRC XL B 65-130	LEAD-FREE, NOTE 2
CP-2	CIRCULATING PUMP	TOWER B WATER ENTRY P239	31	35	1.00	-	208	1	BELL & GOSSET ECOCIRC XL B 65-130	LEAD-FREE, NOTE 2
SEP-1	SEWAGE EJECTOR	TOWER A, LEVEL B	27	30	2.00	-	208	1	LIBERTY LSG202A	
SEP-2	SEWAGE EJECTOR	TOWER A, LEVEL B	27	30	2.00	-	208	1	LIBERTY LSG202A	
SEP-3	SEWAGE EJECTOR	TOWER A, MECHANICAL A017	27	30	2.00	-	208	1	LIBERTY LSG202A	
SEP-4	SEWAGE EJECTOR	TOWER A, MECHANICAL A017	27	30	2.00	-	208	1	LIBERTY LSG202A	
SEP-5	SEWAGE EJECTOR	TOWER B, DOMESTIC WATER SERVICE ROOM B013	50	40	1.50	-	208	1	LIBERTY XLE150	
SEP-6	SEWAGE EJECTOR	TOWER B, DOMESTIC WATER SERVICE ROOM B013	50	40	1.50	-	208	1	LIBERTY XLE150	

NOTES:
1. PROVIDE ISOLATION VALVES & CHECK VALVE
2. PROVIDE TIE-IN TO BAS.
3. PROVIDE VENDOR CONTROLS AS REQUIRED FOR COMPLETE OPERATION
4. PROVIDE WITH HIGH WATER ALARM.

PLUMBING SAND OIL INTERCEPTOR SCHEDULE

ITEM	DESCRIPTION	LOCATION & SERVICE	WATER CAPACITY GALLONS	CONNECTIONS INCHES INLET	OUTLET	VENT	MANUF. & MODEL NO.	REMARKS
SOI-1	SAND OIL INTERCEPTOR	TOWER A, LVL P2	396	4	4	2	MIFAB MI-20-4-C-HD	
SOI-2	SAND OIL INTERCEPTOR	TOWER B, LVL B	396	4	4	2	MIFAB MI-20-4	ABOVE FLOOR INSTALLATION
SOI-3	SAND OIL INTERCEPTOR	TOWER C, EXTERIOR	500	4	4	2	REFER TO CIVIL DRAWINGS	

NOTES:

PLUMBING BACK FLOW PREVENTOR SCHEDULE

ITEM	LOCATION	SERVICE	VALVE	PRESSURE - PSIG INLET	OUTLET	CAPACITY - GPM	SIZE - INCH	MANUFACTURER	REMARKS
RPBP-1	WATER ENTRY AND BOILER P239	DOMESTIC WATER	OS & Y	70.00	63		6"	WATTS 957-FS	LEAD-FREE, WITH INTEGRATED FLOOD SENSOR
RPBP-2	WATER ENTRY AND BOILER P239	POOL MAKE-UP WATER	BALL	80.00	68	50	1-1/2"	WATTS LF919-QT	LEAD-FREE
DCVA-1	AMENITY AREAS	DOMESTIC WATER	CHECK	50.00	46	1	1/2"	WATTS LF9D	LEAD-FREE

NOTES:

PLUMBING TANK SCHEDULE

MARK	SERVICE	LOCATION	TYPE	TANK VOL. (GAL)	PRESSURE RATING (PSI)	MANUFACTURER & MODEL NO.	NOTES
BT-1	WATER SERVICE BREAK TANK	BLDG B, LVL P2, ROOM P239	VERTICAL	906	-	FLOWTHERM BT-906	10 GA. STAINLESS STEEL, NOTE 3
ET-1	WATER SERVICE EXPANSION TANK	BLDG B, LVL P2, ROOM P239	FULL ACCEPTANCE REPLACEABLE BLADDER	53	150	AMTROL ST-447C	
HT-1	HYDROPNEUMATIC TANK	BLDG B, LVL P2, ROOM P239	REPLACEABLE BLADDER	53	125	GRUNDFOS GFXA-200	24" DIA x 43"H
ST-1	DOMESTIC HOT WATER STORAGE	BLDG B, LVL P2, ROOM P239	VERTICAL	499	150	RAYPAK	GLASS LINING, 42" DIA x 92" H

NOTES:
1. ASME
2. LISTED EQUIPMENT MANUFACTURERS ARE THE BASIS OF DESIGN. OTHER MANUFACTURERS MEETING THE PERFORMANCE REQUIREMENTS ARE ACCEPTABLE.
3. 120V POWER FOR SOLENOID FILL VALVE AND LEVEL SENSING TRANSDUCER.

PLUMBING NATURAL GAS CONNECTION SCHEDULE

ITEM	QTY	LOCATION	SERVICE	MBH INPUT		CONN SIZE (NPS)	REQUIRED MIN. INLET PRESSURE	MBH TOTALS	REMARKS
RESIDENTIAL FIREPLACE	104			47.5			7" W.C.	3,026	4% DERATE FOR EACH 1000 FT ABV SEA LEVEL
RESIDENTIAL FIREPLACE, EXTERIOR	1			75.0					EST MBH
RESIDENTIAL FIRE PITS	14			69.0				966	
RESIDENTIAL BBQ	5	PENTHOUSE		103.0			7" W.C.	515	
RESIDENTIAL BBQ	48	FUTURE		75.0			7" W.C.	3,600	
RESIDENTIAL STOVE	53	ALL UNITS EXCEPT ADU		97.0				5,141	
RESIDENTIAL STOVE	4	ADU UNITS		63.5				254	
LANDSCAPE FIREPITS									
POOL HEATER	1	TOWER B, PARKING LEVEL 2		1,900.0				1,900	
MECHANICAL BOILERS	1	TOWER A, LEVEL P2	TOWER A HEATING	3,600.0				3,600	
MECHANICAL BOILERS	1	TOWER B, LEVEL P1	TOWER B HEATING	3,600.0				3,600	
MECHANICAL BOILERS	1	TOWER C, LEVEL 1	TOWER C HEATING	3,600.0				3,600	
MECHANICAL BOILERS	1	TOWER B, LEVEL P1	SNOWMELT	14,400.0				14,400	
MECHANICAL UNIT HEATER	1	GARAGE ENTRANCE	TOWER A	437.0				437	
MECHANICAL UNIT HEATER	1	GARAGE ENTRANCE	TOWER B	437.0				437	
MECHANICAL UNIT HEATERS	1	GARAGE ENTRANCES	TOWER C	557.0				557	
PLUMBING BOILERS	2	TOWER B, PARKING LEVEL 2	DOMESTIC HOT WATER	1,500.0				3,000	
KITCHEN EQUIPMENT	1	TOWER A, LEVEL 1	RESTAURANT					961	
GAS SERVICE								45,994	

NOTE: GAS SERVICE IS MEDIUM PRESSURE, 2 PSI. PROVIDE REGULATORS AND VENT PIPING FROM REGULATOR TO OUTDOORS FOR ALL GAS REGULATORS.

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