

**PLUMBING NOTES:**

ALL PLUMBING WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE STANDARD PLUMBING AND BUILDING CODES, AND LOCAL REGULATIONS.

ALL WORK SHALL BE PERFORMED BY A LICENSED PLUMBING CONTRACTOR WITH FIRST-CLASS WORKMANSHIP. THE COMPLETED SYSTEM SHALL BE FULLY OPERATIVE.

PRIOR TO EXCAVATION, THE PLUMBING CONTRACTOR SHALL VERIFY THE EXISTENCE OF ALL UNDERGROUND SERVICE BY CALLING 811 OR VERIFYING WITH GENERAL CONTRACTOR.

PLUMBING CONTRACTOR SHALL VERIFY THE LOCATION AND SIZE OF INVERTS PRIOR TO CONSTRUCTION.

ALL JOINTS & CONNECTIONS SHALL BE MADE AS REQUIRED BY THE FLORIDA BUILDING CODE, PLUMBING.

THE PLUMBING CONTRACTOR SHALL FURNISH ALL REQUIRED FLASHING COMPONENTS FOR PIPES TO THE ROOFING CONTRACTOR.

UNLESS NOTED OTHERWISE, ALL DRAIN PIPING SHALL BE MINIMUM SCHEDULE 40 PVC (POLYVINYL CHLORIDE), & SHALL BEAR NSF APPROVAL.

ALL VALVES SHALL BE MADE OF MATERIALS THAT ARE APPROVED IN THE FLORIDA BUILDING CODE, PLUMBING. ALL VALVES SHALL BE LOCATED WHERE THEY WILL BE READILY ACCESSIBLE FOR MAINTENANCE & REMOVAL.

PROVIDE CLEAN-OUTS FOR ALL UNDERGROUND SANITARY PIPING EVERY 15 FEET FOR 4" PIPE OR LARGER, AND EVERY 50 FEET FOR PIPES SMALLER THAN 4" PIPE.

THE MINIMUM SLOPE OF HORIZONTAL DRAINAGE PIPES SHALL BE (TABLE 704.1 OF 2017 FBC, 6TH EDITION, PLUMBING):

SIZE	MINIMUM SLOPE
UP TO 2"	1/4" PER LF
3" TO 6"	1/8" PER LF

AIR ADMITTANCE VALVES SHALL BE REDI-VENT BY STUDOR OR APPROVED EQUAL.

UNLESS NOTED OTHERWISE, ALL WATER SERVICE PIPING DOWNSTREAM OF METER SHALL BE COPPER PIPE, TYPE "K" FOR INTERIOR & ABOVE GROUND; TYPE "L" SHALL BE USED FOR ALL UNDERGROUND PIPING AND THROUGH PENETRATIONS.

ALL COPPER FITTINGS SHALL BE CONSTRUCTED WITH SOLDERED JOINTS, AND QUALIFIED BY A LICENSED PLUMBING CONTRACTOR.

INDIVIDUAL SHOWER AND TUB-SHOWER COMBINATION VALVES SHALL BE BALANCED-PRESSURE/THERMOSTATIC VALVES THAT CONFORM TO THE REQUIREMENTS OF ASSE 1016/ASME A112.1016/CSA B125.16 OR ASME A112.18/CSA B125.1 AND SHALL BE INSTALLED AT THE POINT USE. SHOWER AND TUB-SHOWER COMBINATION VALVES REQUIRED BY THIS SECTION SHALL BE EQUIPPED WITH A MEANS TO LIMITS THE MAXIMUM SETTING OF THE VALVES TO 120°F (49°C), WHICH SHALL BE FIELD ADJUSTED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. IN-LINE THERMOSTATIC VALVES SHALL NOT BE UTILIZED FOR COMPLIANCE WITH THIS SECTION.

THE HOT WATER SUPPLIED TO BATHTUBS AND WHIRLPOOL BATHTUBS SHALL BE LIMITED TO A MAXIMUM TEMPERATURE OF 120°F (49°F) BY A WATER-TEMPERATURE LIMITING DEVICE THAT CONFORMS TO ASSE 1070 OR CSA B125.3, EXCEPT WHERE SUCH PROTECTION IS OTHERWISE PROVIDED BY COMBINATION TUB/SHOWER VALVE IN ACCORDANCE WITH SECTION 412.3.

ALL ANGLE STOPS SHALL BE 1/4-TURN, BALL / GLOBE VALVES.

ALL UNDERGROUND PIPE & PENETRATIONS SHALL BE SLEEVED AND/OR PROTECTED AGAINST GALVANIC CORROSION. THE SLEEVE SHOULD BE LAPPED CONTINUOUSLY AT ENDS, AND TERMINATE AT A MINIMUM ELEVATION OF 6" ABOVE FINISHED FLOOR.

ALL HOT WATER PIPING SHALL BE BE PROTECTED WITH MINIMUM R-5.7 INSULATION (ARMAFLEX OR SIM). FOR EXTERIOR INSULATED PIPE, THE CONTRACTOR SHALL APPLY A COAT OF UV-RESISTANT JACKETING, AS PER ASHRAE 90.1 (ARMAFLEX WB FINISH OR SIM).

WATER HAMMER ARRESTORS SHALL BE INSTALLED WHERE QUICK-CLOSING VALVES ARE UTILIZED. WATER-HAMMER ARRESTORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS, AS WELL AS CONFORM TO ASSE 10 (SIOUX CHIEF OR SIM).

PLUMBING TESTS - WATER SERVICE:

APPLY A WATER TEST TO ALL PARTS OF THE SANITARY DRAINAGE SYSTEM, BEFORE THE PIPES ARE CONCEALED OR FIXTURES SET IN PLACE. THESE TESTS MAY BE APPLIED IN SECTIONS.

ALL NEW WATER SERVICE SHALL BE SUBJECTED TO A HYDROSTATIC PRESSURE TEST OF 100 PSIG FOR A PERIOD OF TIME SUFFICIENT TO EXAMINE THE ENTIRE SYSTEM BUT NOT LESS THAN ONE HOUR.

PLUMBING TESTS - DRAINAGE SYSTEM:

THE NEW DRAINAGE SYSTEM SHALL BE CAPPED, AND THE LINES SHALL BE FILLED WITH WATER TO THE HIGHEST FIXTURE POINT AND ALLOWED TO STAND UNTIL INSPECTION IS MADE AND WATER LEVELS REMAIN CONSTANT.

THE NEW DRAIN LINES SHALL BE STERILIZED WITH A MIXTURE OF TWO (2) POUNDS OF CHLORINATED LIME FOR EACH 1000 GALLONS OF WATER (500 PPM CHLORINE), RETAIN MIXTURE IN PIPES FOR 24 HOURS AND FLUSH THOROUGHLY WITH POTABLE WATER BEFORE PLACING IN SERVICE.

ANY AND ALL DEFECTS IDENTIFIED DURING WATER TESTS SHALL BE CORRECTED BY THE PLUMBING CONTRACTOR.

AFTER COMPLETION OF THE INSTALLATION AND TESTS, THE SYSTEM FIXTURES AND EQUIPMENT SHALL BE GIVEN AN IN-SERVICE TEST.

PLUMBING SYMBOL LEGEND	
—	SANITARY
---	SANITARY (UNDERGROUND)
-----	DRY VENT
- - -	COLD WATER
- - - -	HOT WATER
⋈	ANGLE STOP
└	P-TRAP
⊕	SHOWER MIXER VALVE
⊕	4-WAY MIXER VALVE
⊔	SHOWER HEAD
⊕	CLEANOUT
⊕	WATER METER
⊕	WATER HAMMER ARRESTOR
∩	CHECK VALVE
⋈	GATE VALVE
⊕	GLOBE VALVE
⊕	TURN DOWN
⊕	TURN UP
└└	VENT TO ROOF
↑	AIR ADMITTANCE VALVE

APPLICABLE CODES:	
BUILDING :	2020 FL BUILDING CODE - 7TH EDITION
MECHANICAL:	2020 FL MECHANICAL CODE - 7TH EDITION
PLUMBING:	2020 FL PLUMBING CODE - 7TH EDITION
ELECTRICAL:	2020 NATIONAL ELECTRICAL CODE
FIRE:	2020 FIRE PREVENTION CODE
ENERGY:	2020 FL ENERGY CONSERVATION CODE - 7TH EDITION
ACCESSIBILITY:	2020 FL ACCESSIBILITY CODE - 7TH EDITION

PLUMBING ABBREVIATIONS	
AAV	AIR ADMITTANCE VALVE
AFF	ABOVE FINISHED FLOOR
BT	BATHTUB
BV	BOW VENT
CO	CLEANOUT
CV	CHECK VALVE
CW	COLD WATER SUPPLY
D	DRYER
DW	DISHWASHER
DV	DRY VENT
DFU	DRAINAGE FIXTURE UNITS
DSK	DOUBLE SINK
GV	GLOBE VALVE
HB	HOSE BIBB
HW	HOT WATER SUPPLY
FD	FLOOR DRAIN
LAV	LAVATORY
SH	SHOWER HEAD
KS	KITCHEN SINK
PRV	PRESSURE REDUCING VALVE
R	REFRIGERATOR
TS	TILED SHOWER
US	UTILITY SINK
VTR	VENT TO ROOF
W	WASHER
WCO	WALL CLEANOUT
WC	WATER CLOSET
WD	WASHER-DRYER COMBO
WH	WATER HEATER
WHA	WATER HAMMER ARRESTOR
WM	WATER METER
VTR	VENT TO ROOF

ISSUE	DATE	4. CITY OF MIAMI COMMENTS				
	01/27/2023					

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PROJECT:  
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PLUMBING  
NOTES



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DATE	08/15/2022
SHEET	P-00