

PLUMBING GENERAL NOTES		PLUMBING LEGEND		PLUMBING ABBREVIATIONS	
		SYMBOL	DESCRIPTION	ABBREV	ABBREVIATION
1.	ANCHOR EXPOSED VERTICAL WATER PIPES TO WALLS WITH HOT DIPPED GALVANIZED UN-STRUT CHANNELS AND CUSHIONED BOLT CLAMPS.		CUT EXISTING SLAB FOR NEW BELOW SLAB PIPING	AC	ABOVE CEILING
2.	INSTALL HORIZONTAL EXPOSED PIPES AS CLOSE TO CEILING AS POSSIBLE.		EXISTING PIPING	AD	AREA DRAIN
3.	LAVATORY WASTE PIPE MUST BE INSTALLED AS HIGH AS POSSIBLE, AS CLOSE TO THE WALL AS POSSIBLE, ANCHORED TO WALL AND BE CHROME PLATED.		EXISTING PIPING TO BE REMOVED OR ABANDON	AFF	ABOVE FINISHED FLOOR
4.	INSTALL COLD WATER SUPPLY, VALVE BOX W/ SHUTOFF TO ALL NEW REFRIGERATORS AND ICE MAKERS.		DOMESTIC COLD WATER	A/S	ABOVE SLAB
5.	SHOCK ABSORBERS HAMMER ARRESTORS SHALL BE INSTALLED BEFORE LAST FLUSH VALVE FIXTURE AND/OR AS SHOWN ON PLANS AND SHALL BE PISTON TYPE.		EMERGENCY TEMPERED WATER (105°F)	B/G	BELOW GRADE
6.	VENT ALL URINALS SEPARATELY AS SHOWN ON DRAWINGS.		HOT WATER (120°F)	B/S	BELOW FINISHED SLAB
7.	FLOOR DRAINS SHALL BE INSTALLED W/ TRAP PRIMERS AS NOTED ON DRAWINGS & W/ DEEP SEAL TRAPS.		HOT WATER (140°F)	CA	COMPRESSED AIR
8.	SANITARY SEWER, WASTE PIPING 3 INCHES AND LARGER, SHALL BE INSTALLED AT A 1% SLOPE (1/8"=1'-0").		NATURAL GAS PIPING	CO	CLEANOUT
9.	INSTALL PLUMBING PIPING AS HIGH AS POSSIBLE AND COORDINATE WITH OTHER TRADES BEFORE INSTALLATION.		VENT	CV	CHECK VALVE
10.	VERIFY LOCATIONS OF EXISTING UTILITIES BEFORE COMMENCING WORK.		KITCHEN WASTE PIPE (BELOW SLAB)	DBP	DOMESTIC BOOSTER PUMP
11.	PROVIDE HOT WATER MIXING VALVES AT EACH NEW DOMESTIC WATER HEATER.		SANITARY SEWER PIPE (ABOVE SLAB)	DHX	DOMESTIC HEAT EXCHANGER
12.	OFFSET SANITARY VENTS THROUGH ROOF TO BE A MINIMUM OF 10'-0" FROM HVAC FRESH AIR INTAKE.		SANITARY SEWER PIPE (BELOW SLAB)	DN	PIPE DOWN
13.	PAINT EXPOSED PIPING TO MATCH SURROUNDINGS AND PER SPECIFICATIONS AND COORDINATE W/ ARCHITECT.		STORM SEWER PIPE (ABOVE SLAB)	DF	ELECTRIC WATER COOLER
14.	MANUFACTURER'S AND THEIR MODEL NUMBERS FOR PLUMBING EQUIPMENT AND FIXTURES ARE BASIS OF DESIGN. APPROVED EQUAL PRODUCTS ARE PERMITTED AS SPECIFIED.		STORM SEWER PIPE (BELOW SLAB)	DW	DISHWASHER
15.	ROUTE NEW DOMESTIC WATER PIPING NOTED AS ABOVE CEILING AND PROTECT FROM FREEZING CONDITIONS.		STORM EMERGENCY OVERFLOW (ABOVE SLAB)	EOF	EMERGENCY OVERFLOW DRAIN (STORM)
16.	SANITARY SEWER INVERT ELEVATIONS ARE FROM BELOW BUILDINGS FINISHED FLOOR SLAB.		WASTE PIPE (BELOW SLAB)	EW	ELECTRIC WATER HEATER
17.	THE PLUMBING DRAWINGS ARE GENERALLY INDICATIVE OF THE WORK TO BE INSTALLED AND DO NOT INDICATE ALL PIPE OFFSETS, FITTINGS, AND SIMILAR DETAILS WHICH MAY BE REQUIRED. THE CONTRACTOR SHALL CAREFULLY INVESTIGATE THE SITE, STRUCTURE AND FINISHED CONDITIONS AFFECTING ALL PLUMBING WORK AND ARRANGE ALL HIS WORK ACCORDINGLY. FINISHING SUCH OFFSETS, VALVES, DEMOLITION AND OTHER SIMILAR DETAILS AS MAY BE REQUIRED TO MEET SUCH CONDITIONS.		OZONE WATER (LAUNDRY)	FCO	FLOOR CLEANOUT
18.	THE CONTRACTOR SHALL BE RESPONSIBLE UNDER THESE DRAWINGS AND SPECIFICATIONS FOR THE PROPER COORDINATION OF ALL WORK WITH THE RELATED WORK OF OTHERS TRADES, CRAFTS CONTRACTORS, SUB- CONTRACTORS, ETC. EMPLOYED ON THE PROJECT, TO INSURE A COMPLETE, NEAT AND WORKMANLIKE INSTALLATION.		PIPE TURNING DOWN	FD	FLOOR DRAIN
19.	CONCEAL PLUMBING PIPES WHERE POSSIBLE. EXPOSED PIPES SHALL BE ROUTED AS HIGH AS POSSIBLE, TIGHT TO WALLS OR CEILING AND IN A NEAT PERPENDICULAR FASHION.		PIPE TURNING UP	FS	FLOOR SINK
20.	NEW PLUMBING FIXTURES SHALL BE ENERGY EFFICIENT, LOW FLOW, WATER CONSERVING TYPE FIXTURES.		GATE or GLOBE VALVE	GCO	GRADE CLEANOUT
21.	PLUMBING DRAWINGS ARE DIAGRAMMATIC ONLY, AND DO NOT REPRESENT ALL OFFSETS AND EXACT ROUTING OF PLUMBING PIPING. COORDINATE ALL UNDERGROUND SEWER AND WATER PIPING WITH FOUNDATION AND THE STRUCTURAL DRAWINGS. COORDINATE UNDERGROUND PIPING WITH GRADE BEAMS, FOOTINGS AND PILE CAPS.		BALANCING VALVE	GV	GATE VALVE
22.	INSTALL TRAP PRIMERS ON ALL FLOOR DRAINS, THAT ARE SUBJECT TO LOSING WATER SEAL.		CHECK VALVE	HB	HOSE BIB
23.	SANITARY AND VENT PIPING SHALL BE SLOPED PER THE INTERNATIONAL PLUMBING CODE REQUIREMENTS.		GAS SOLENOID SHUT-OFF VALVE	HCI/ADA	BARRIER-FREE
24.	REFER TO CIVIL DRAWINGS FOR PLUMBING WORK LOCATED FIVE FEET OUTSIDE THE BUILDING OR AS NOTED OTHERWISE.		FLOOR DRAIN W/ TRAP PRIMER	HD	HUB DRAIN
25.	PLUMBING PIPING INSTALLED TO 5'-0" OUTSIDE OF BUILDING, UNLESS NOTED OTHERWISE.		FLOOR DRAIN	HWRP	HW RECIRCULATION PUMP
26.	COORDINATE UNDER SLAB PLUMBING PIPING WITH THE STRUCTURAL FOUNDATIONS AND FOOTINGS BEFORE STARTING WORK.		FLOOR DRAIN WITH TRAP PRIMER	HW	HOT WATER
27.	DO NOT INSTALL PVC/PLASTIC PIPING IN AREAS DESIGNATED AS A RETURN AIR PLENUM.		GRADE CLEANOUT	JC	JANITOR'S CLOSET
28.	REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATION OF FLOOR DRAIN.		FLOOR CLEANOUT	KW	KILOWATT
29.	INSTALL TRAP PRIMERS ON ALL FLOOR AND SHOWER DRAINS.		WALL CLEANOUT/END OF LINE CLEANOUT	LAV	LAVATORY
30.	MARK CEILING TILES OR PROVIDE SIGNAGE NOTING SHUT-OFF WATER VALVES ABOVE CEILING. COORDINATE EXACT SIGNAGE WORDING WITH THE ARCHITECT.		H.W. RECIRCULATION PUMP WITH BY-PASS	NFWH	NON-FREEZE WALL HYDRANT
31.	INSTALL MIXING VALVES AT ALL HAND SINKS WITH AUTOMATED SENSORS.		SHOCK ABSORBER WATER HAMMER ARRESTOR	#	FIXTURE NUMBER
32.	FIRE RATED WALLS PENETRATED BY PLUMBING PIPING SHALL PROVIDED WITH AN APPROVED FIRE CAULK/SEAL AROUND THE PIPE.		DIRECTION OF FLOW (WATER)	RD	ROOF DRAIN
			DIRECTION OF SLOPE (SEWER)	REFRIG	REFRIGERATOR
			PLUMBING FIXTURE NUMBER	SA	SHOCK ARRESTER
			BACKFLOW PREVENTER (BFP)	SAN	SANITARY SEWER
			PRESSURE REDUCING VALVE (PRV) WITH BY-PASS	ST	STORM SEWER
			PRIMARY ROOF DRAIN	TP	TRAP PRIMER
			MILD CLIMATE WALL HYDRANT	UR	URINAL
			CAP EXISTING PIPE	V	VENT
			CAP FOR FUTURE USE	VTR	VENT THRU ROOF
			HOT WATER MIXING VALVE ASSEMBLY	W	WASTE
			GAS COCK	WC	WATER CLOSET
			CONNECT TO EXISTING	WCO	WALL CLEANOUT
			GAS REGULATOR	ACC	AIR CONDITIONING

(NOT ALL SYMBOLS AND ABBREVIATIONS ARE USED ON THIS PROJECT)

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PLUMBING -  
GENERAL NOTES

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