

PLUMBING NOTES

1. ALL WORK AND MATERIALS SHALL COMPLY WITH THE 2014 FLORIDA PLUMBING CODE AND ANY LOCAL CODES HAVING JURISDICTION.
2. FIELD VERIFY AND CONFIRM THE ACTUAL SIZE, LOCATION, AND ELEVATION OF EXISTING UTILITIES AND PLUMBING PIPING PRIOR TO INSTALLATION OR CONNECTION OF ANY NEW PIPING. ANY DISCREPANCIES OR POSSIBLE CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND ARCHITECT.
3. DRAWINGS ARE DIAGRAMMATIC IN NATURE AND AS SUCH ALL FITTINGS AND OFFSETS MAY NOT BE INDICATED. PROVIDE FITTINGS AND OFFSETS AS REQUIRED TO PROVIDE A COMPLETE AND PROPERLY INSTALLED PLUMBING SYSTEM.
4. CONFIRM LOCATIONS AND ELEVATIONS OF ALL CROSSING LINES PRIOR TO INSTALLATION OF NEW PIPING. GRAVITY DRAIN PIPING ROUTING SHALL TAKE PRECEDENCE OVER PRESSURIZED PIPE SYSTEMS. PROVIDE OFFSETS AS REQUIRED. ANY DISCREPANCIES OR POSSIBLE CONFLICTS SHALL BE BROUGHT TO THE ENGINEER AND ARCHITECT.
5. COORDINATE PLUMBING SYSTEMS INSTALLATION WITH ALL OTHER INVOLVED TRADES, SUCH AS FIRE PROTECTION, MECHANICAL DUCTWORK AND PIPING, AND ELECTRICAL SYSTEMS. THIS CONTRACTOR SHALL OBTAIN COPIES OF THE LATEST PLANS, SPECIFICATIONS, AND ADDENDUMS OF ALL OTHER TRADES TO COORDINATE THESE SYSTEMS WITH OTHER INSTALLATIONS.
6. PROVIDE SHUT OFF VALVES IN HOT AND COLD WATER LINES SERVING EACH GROUP TOILET ROOM AND EACH SINGLE TOILET ROOM. LOCATE THE VALVES IN AN ACCESSIBLE LOCATION. WHEN INSTALLED ABOVE CEILINGS, LOCATE ABOVE A LAY-IN CEILING TILE, OR IN HARD CEILINGS PROVIDE A HINGED ACCESS PANEL SIZED TO ALLOW FULL ACCESS TO THE VALVES (MINIMUM SIZE 18" X 18"). PROVIDE A LABEL ON THE CEILING TILE GRID OR ON THE ACCESS PANEL INDICATING "HOT AND COLD WATER SHUT OFF VALVES".
7. THE POTABLE WATER SYSTEMS IN THIS FACILITY SHALL BE DISINFECTED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE AND APPLICABLE SPECIFICATION SECTIONS INCLUDED IN THE DESIGN PACKAGE. DISINFECT ALL NEW PORTIONS OF PIPING AND ALSO ANY EXISTING PIPING THAT HAS LOST PRESSURE DURING CONSTRUCTION.
8. PIPE HANGERS FOR COPPER PIPING SHALL BE COPPER TYPE OR VINYL COATED. HANGERS FOR OTHER TYPES OF PIPING SHALL BE GALVANIZED OR ZINC PLATED. PROVIDE MISCELLANEOUS STRUCTURAL STEEL CROSSMEMBER TO SPAN ACROSS BEAMS, JOIST, OR PURLINS WHERE REQUIRED FOR INTERMEDIATE SUPPORT.
9. PROVIDE A 2" HIGH GALVANIZED SAFETY PAN BELOW ALL WATER HEATERS. PROVIDE A 3/4" DRAIN LINE FROM THE SAFETY PAN AND TERMINATE OVER NEAREST FLOOR DRAIN OR SERVICE SINK. ROUTE COPPER DISCHARGE LINE FROM WATER HEATER PRESSURE TEMPERATURE RELIEF VALVE AND TERMINATE OVER SAFETY PAN.
10. PRESSURE TEST PLUMBING PIPING SYSTEMS PRIOR TO CONCEALMENT IN ACCORDANCE WITH THE SPECIFICATIONS.
 - A. WATER PIPING SHALL BE TESTED AT 100 PSI MINIMUM FOR A PERIOD OF 8 HOURS.
 - B. SANITARY AND STORM SYSTEMS SHALL BE TESTED AT 10 FEET OF HEAD PRESSURE FOR A PERIOD OF 8 HOURS.
11. PROVIDE WATER HAMMER ARRESTERS THROUGHOUT THE WATER PIPING SYSTEM LOCATED TO PREVENT ANY WATER HAMMER VIBRATIONS AND NOISE. PROVIDE WATER HAMMER ARRESTERS IN HOT WATER AND COLD WATER PIPES. LOCATE AT ALL GROUP RESTROOMS, SINGLE RESTROOMS, IN PIPING SERVING FLUSH VALVES, AND IN PIPING SERVING OTHER FIXTURES OR EQUIPMENT THAT HAS QUICK CLOSING VALVES OR ACTUATORS THAT WOULD CAUSE POTENTIAL WATER HAMMER. DO NOT PROVIDE PIPE AIR CHAMBERS AT PLUMBING FIXTURES AS THESE ARE NOT AN ACCEPTABLE ALTERNATE TO WATER HAMMER ARRESTERS.
12. PROVIDE TRAP PRIMERS FOR ALL FLOOR DRAINS. TRAP PRIMER LINE SHALL CONNECT FROM THE DISCHARGE SIDE OF A WATER CLOSET FLUSH VALVE. IF A FLUSH VALVE IS NOT READILY AVAILABLE, CONNECT TRAP PRIMER LINE FROM THE TAILPIECE OF A LAVATORY. OTHERWISE, PROVIDE AN AUTOMATIC TRAP PRIMER VALVE AND DISTRIBUTION UNIT FROM AN AVAILABLE COLD WATER LINE. IN FINISHED SPACES SUCH AS RESTROOMS, ROUTE THE TRAP PRIMER LINE BACK INTO THE WALL AND PROVIDE A CHROME PLATED ESCUTCHEON PLATE, THEN DROP TO BELOW FLOOR TO THE FLOOR DRAIN. IN UNFINISHED SPACES SUCH AS MECHANICAL ROOMS, ROUTE THE TRAP PRIMER LINE DOWN ALONG THE WALL SURFACE TO BELOW FLOOR TO THE FLOOR DRAIN. ALL TRAP PRIMER LINES IN WALLS AND BELOW FLOORS SHALL BE WRAPPED WITH PROTECTIVE INSULATING TAPE TO PREVENT CONTACT BETWEEN THE PIPE AND CONCRETE OR BELOW FLOOR SOIL.
13. PROVIDE CLEAN-OUT PLUGS AT THE BASE OF ALL SOIL, WASTE, AND STORM RISER STACKS. CLEAN-OUT SHALL BE FULL PIPE SIZE UP TO 4" DIAMETER PIPE SIZE. FOR PIPE RISERS LARGER THAN 4" DIAMETER, CLEAN-OUT SHALL BE 4" OR LARGER. FOR PIPE RISERS LOCATED CONCEALED IN A CHASE, PROVIDE AN ACCESS COVER PLATE OR A HINGED ACCESS PANEL.
14. ROOF DRAIN AND OVERFLOW ROOF DRAIN BODY, ANY HORIZONTALLY ROUTED STORM PIPING ABOVE GRADE, AND PIPE AND ELBOW BETWEEN DRAIN BODY AND HORIZONTAL RUNS SHALL BE INSULATED WITH 1" THICK PREFORMED SECTIONAL HEAVY DENSITY FIBERGLASS INSULATION WITH FACTORY APPLIED VAPOR BARRIER AND ALL SERVICE JACKET WITH SELF SEALING LONGITUDINAL LAPS AND BUTT-STRIPS. FITTINGS SHALL BE INSULATED SAME AS PIPE WITH ONE PIECE PVC FITTING COVERS.
15. ALL DOMESTIC HOT WATER PIPING SHALL BE INSULATED, INCLUDING HOT WATER SUPPLY, TEMPERED (MIXED TEMPERATURE) SUPPLY, AND HOT WATER RECIRCULATING PIPING. INSULATION SHALL BE 1" THICK PREFORMED SECTIONAL HEAVY DENSITY FIBERGLASS INSULATION WITH FACTORY APPLIED VAPOR BARRIER AND ALL SERVICE JACKET WITH SELF SEALING LONGITUDINAL LAPS AND BUTT-STRIPS AND SHALL BE CONTINUOUS UNBROKEN THROUGH HANGERS AND SUPPORT CLAMPS. FITTINGS SHALL BE INSULATED SAME AS PIPE WITH ONE PIECE PVC FITTING COVERS. COLD WATER PIPING ROUTED IN ATTICS OR OTHER SPACES OUTSIDE OF THE BUILDING THERMAL ENVELOPE SHALL BE INSULATED THE SAME AS HOT WATER PIPING.
16. ALL HOSE BIBBS AND WALL HYDRANTS SHALL BE EQUIPPED WITH AN INTEGRAL VACUUM BREAKER. PROVIDE A SHUT OFF VALVE IN THE WATER SUPPLY PIPE SERVING EACH HOSE BIBB AND WALL HYDRANT. INTERIOR BIBBS SHALL BE MOUNTED 12" ABOVE FLOOR. EXTERIOR BIBBS SHALL BE LOCATED 12" ABOVE GRADE.
17. THIS CONTRACTOR SHALL COORDINATE EXACT LOCATION AND QUANTITY OF FLOOR DRAINS WITH THE ARCHITECTURAL PLANS. COORDINATE LOCATIONS OF MECHANICAL ROOMS, FLOOR DRAINS AND HUB DRAINS FOR HVAC EQUIPMENT CONDENSATE DISCHARGE WITH MECHANICAL CONTRACTOR AND THE EXACT LOCATION OF ALL HVAC EQUIPMENT AND CONCRETE PADS.
18. ALL HANDICAP ACCESSIBLE PLUMBING FIXTURES SHALL COMPLY WITH THE AMERICANS WITH DISABILITIES ACT (ADA). COORDINATE HANDICAP ACCESSIBLE FEATURE WITH THE ARCHITECTURAL DRAWINGS AND PLAN REQUIREMENTS FROM ORDERING PLUMBING FIXTURES. BRING ANY DISCREPANCIES TO THE ATTENTION OF THE ENGINEER AND ARCHITECT.
19. ALL PIPES, PIPE FITTINGS, PLUMBING FIXTURES AND PLUMBING FIXTURES SHALL MEET THE REDUCTION OF LEAD IN DRINKING WATER ACT. ALL COMPONENTS SHALL MEET THE REQUIREMENT OF NO MORE THAN 0.25 PERCENT LEAD ON ALL POTABLE WETTED SURFACES.

PLUMBING FIXTURE SCHEDULE

MARK	DESCRIPTION	MANUFACTURER	MODEL	FITTINGS OR VALVES	SUPPLIES	TRAP	CARRIER	ACCESSORIES	COLD	HOT	WASTE	VENT	REMARKS
WC-1	ADA WATER CLOSET: Floor mounted siphon jet, 1.6 gallon per flush, ADA height	American Standard	3043.52B	Sloan #8111 "G2 Optima" Battery Powered	N/A	N/A	N/A	Church #9400C	1-1/4"		4"	2"	
L-1	ADA LAVATORY: Tempered water only, wall mounted with floor mounted concealed arm carrier. 20 inch x 18 inch	American Standard	0356.421	Chicago #116.606.AB.1 Battery Powered	McGuire #158LK	McGuire #808B	JR Smith #700-M31	Offset Grid Drain McGuire #155-WC	1/2"	1/2"	1-1/4"	1-1/2"	Provide Truebro #101 LAV-GUARD Kit with #105 Accessory in white
LS-1,2,3 & 4	SCIENCE LAB SINK: Provided by science equipment supplier. Contractor to connect all faucet, drains and gas turrets.				McGuire #158LK	Acid P-Trap same material as acid waste pipe			1/2"	See Plans	1-1/2"	1-1/2"	
SS	MOP SINK: Basin: 24 inch x 24 inch x 10 inch one piece molded stone corner mop sink with 3" stainless steel drain body, dome strainer and lint basket.	Mustee	#63M	#63.000A	1/2" copper	2" DWV P-Trap	N/A	#65.700 Hose, #65.600 Mop Hanger #63.403 SS Rim Guards #67.2424 Wall Guards	1/2"	1/2"	1-1/4"	1-1/2"	
EWC	ELECTRIC WATER COOLER: Two station wall mounted, water cooler with stainless steel top, stainless steel heavy gauge steel body with stainless steel finish.	Elkay	LVRGRNTRL8WSK with bottle filler	N/A	McGuire #158LK	McGuire #8872			1/2"		1-1/2"	1-1/2"	
CB-1	CONDENSATE BOX: 20 Gauge watertight receptor with drain and enamel finish	Guy Grey	T200LV	N/A	N/A	2" DWV P-Trap standard pipe	N/A	Wall plate			2"	1-1/2"	
EES	EMERGENCY EYEWASH SHOWER:	Gaordian	#GBF1909	N/A	N/A	N/A	N/A		3/4"	3/4"			1" TEMPERED WATER OUTLET
S-1	UTILITY SINK: 16 GA, 300 Series stainless steel 24" X 24" X 14" deep with legs.	Elkay	14-1C24X24-0X	Chicago #305-VBRVPHCP	McGuire #158LK	Acid P-Trap same material as acid waste pipe.	N/A		1/2"		1-1/4"	1-1/2"	Connect CW to both faucet connections.

WATER HEATER SCHEDULE

DESIGNATION	MFG./MODEL	STORAGE CAP. (GAL.)	RECOVERY CAPACITY	GAS			ELECTRICAL KW	WATER CONN.	ACCESSORIES
				TYPE	PIPE CONN	INPUT MBTUH			
A	LOCHINVAR HCT12 080	80	37 G.P.H. @ 100' RISE				12	208/3	1-1/4" P & T RELIEF VALVE

- NOTES:
1. RECOVERY CAPACITIES ARE BASED ON 100% RECOVERY EFFICIENCY.
 2. EXPANSION TANK PRESSURE SETTING TO EQUAL SYSTEM PRESSURE.
 3. CIRCULATING PUMP FOR WATER HEATER 'A' SHALL BE A 1/2" MODEL #LR-15B WITH 3/4" FLANGES, 120V, 15 AMP.
 4. TEMPERATURE LIMIT AT 200" AND PRESSURE LIMIT TO BE 100 PSI.

ROOF AND FLOOR DRAIN SCHEDULE

MARK	SELECTION BASED ON		SIZE	PIPE CONNECTION	TOP MATERIAL	ACCESSORIES	REMARKS
	MAKE	MODEL					
FD	J.R. SMITH	2005-B	6"	3"	NICKLE BRONZE	PRIMER TAP	-
FD-1	J.R. SMITH	2130-B	12"	3"	CAST IRON	PRIMER TAP	-
HD	OPEN HUB DRAIN	-	3"	3"	-	-	INSTALL HUB 1" ABOVE FLOOR, VERIFY EXACT LOCATION OF HUB DRAIN WITH MECHANICAL BEFORE INSTALLATION
RD/ORD	J.R. SMITH	FIG. 1800	12"	4"	POLY DOME	-	-

LEGEND

RWL	RAIN WATER LEADER	P	ACCESS PANEL	---	COLD WATER (CW)
WH	WALL HYDRANT	HD	OPEN HUB DRAIN	---	HOT WATER (HW)
CO	CLEANOUT	ORD	OVERFLOW ROOF DRAIN	---	HOT WATER RECIRCULATED (HWR)
VTR	VENT THRU ROOF	HD	OPEN HUB DRAIN 1" ABOVE FLOOR	---	SOIL OR WASTE (AFF)
WC	WATER CLOSET	TD	TRENCH DRAIN	---	SOIL OR WASTE (BURIED)
UR	URINAL	TP	TRAP PRIMER	---C---	CONDENSATE (BURIED)
L	LAVATORY	HB	HOSE BIBB	---	VENT LINE
SS	SERVICE SINK	SOV	SHUT OFF VALVE	---S---	STORM SEWER
EWC	ELECTRIC WATER COOLER	WHA	WATER HAMMER ARRESTER	---C---	CONDENSATE LINE
EWH	ELECTRIC WATER HEATER	TS	TEMPERED WATER SUPPLY	---90---	TEMPERED WATER LINE
MS	MOP SINK	AP	ACCESS PANEL	---I---	UNION JOINT
S	SINK	DFU	DRAINAGE FIXTURE UNITS	---II---	FLANGE JOINT
FD	FLOOR DRAIN	WFU	WATER FIXTURE UNITS	---	"Y" STRAINER
CO	EXTERIOR CLEANOUT			---O---	TEE - UP, BRANCH OUT OF TOP
	WATER HAMMER ARRESTOR			---O---	TEE - DOWN, BRANCH OUT OF BOTTOM
	(SIZE)			FD	FLOOR DRAIN & TRAP (TYPE AS NOTED)
				---	GATE VALVE
				---	BALL VALVE
				---	CHECK VALVE

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Revisions		
No.	Date	Note