

## PLUMBING NOTES

- THESE DRAWINGS ARE SCHEMATIC IN NATURE AND ARE NOT INTENDED TO SHOW ALL POSSIBLE CONDITIONS. IT IS INTENDED THAT A COMPLETE PLUMBING SYSTEM BE PROVIDED WITH ALL NECESSARY EQUIPMENT, ACCESSORIES, AND CONTROLS COMPLETELY COORDINATED WITH ALL TRADES. ALL REQUIREMENTS GIVEN IN THESE DOCUMENTS SHALL BE STRICTLY CONFORMED TO. ANY ITEMS AND LABOR REQUIRED FOR A COMPLETE PLUMBING SYSTEM IN ACCORDANCE WITH ALL APPLICABLE CODES, STANDARDS, LOCAL AUTHORITIES, AND THESE CONTRACT DOCUMENTS SHALL BE FURNISHED WITHOUT INCURRING ANY ADDITIONAL COST TO THE OWNER. CAREFULLY REVIEW ALL CONTRACT DOCUMENTS AND THE DESIGN OF OTHER TRADES BEFORE PREPARING SHOP DRAWINGS.
- COORDINATE ALL WORK WITH ARCHITECTURAL, STRUCTURAL, HVAC, AND ELECTRICAL TRADES. PIPE ROUTING SHOWN IS DIAGRAMMATIC. PROVIDE ALL OFFSETS, ETC., TO AVOID INTERFERENCES WITH EQUIPMENT, PIPING, DUCTWORK, LIGHTS, CONDUIT, ETC.
- FIELD VERIFY EXACT SIZE, MATERIAL, AND LOCATION OF ALL EXISTING UTILITIES BEFORE BEGINNING WORK.
- VERIFY LOCATION OF ALL FIXTURES WITH ARCHITECTURAL PLANS.
- VERIFY ALL FIXTURE MOUNTING HEIGHTS WITH ENGINEER AND ARCHITECT.
- VERIFY ORIENTATION OF FLUSHING MECHANISM ON TOILET/URINAL WITH ARCHITECT/ENGINEER PRIOR TO ROUGH-IN.
- COORDINATE ALL FLOOR PENETRATIONS WITH STRUCTURAL DRAWINGS. SET SLEEVES IN FLOORS/WALLS AND ATTACHMENTS FOR HANGERS AS CONSTRUCTION PROGRESSES. ALL PENETRATIONS MUST BE SEALED AND HELD AS TIGHT TO COLUMNS OR WALLS AS POSSIBLE.
- PROVIDE 12"x12" ACCESS PANEL FOR SHOCK ABSORBERS, TRAP PRIMERS, AND ALL VALVES LOCATED ABOVE NON-ACCESSIBLE CEILINGS AND INSIDE PIPE CHASES. EXACT LOCATION MUST BE COORDINATED WITH ARCHITECTURAL AND APPROVED BY ARCHITECT PRIOR TO INSTALLATION.
- ALL PIPING SHALL BE CONCEALED INSIDE WALLS, WITHIN PIPE CHASES, OR ABOVE CEILINGS. HOLD ALL PIPING ABOVE CEILING AS HIGH AS POSSIBLE.
- COORDINATE ALL UNDERGROUND PIPING WITH GRADE BEAMS, WALL FOOTINGS, AND OTHER STRUCTURAL CONDITIONS.
- PLUMBING CONTRACTOR SHALL MAKE FINAL CONNECTIONS TO ALL EQUIPMENT INDICATED ON DRAWINGS. FINAL CONNECTION SHALL INCLUDE ANY ADAPTORS, NIPPLES, SHUT-OFF VALVES, PRV'S, SHOCK ABSORBERS, BACKFLOW PREVENTION DEVICES, REGULATORS, ETC.
- ALL STRUCTURAL PENETRATIONS (SLEEVES, BLOCK OUTS, ETC.) ARE TO BE LOCATED AND COORDINATED IN THE FIELD BY THE CONTRACTOR IN RELATION TO THE REQUIREMENTS OF FINAL EQUIPMENT AND FIXTURES SELECTED.
- CONTRACTOR SHALL MAKE FINAL CONNECTIONS TO ALL DOMESTIC WATER AND SANITARY SEWERS, UNLESS OTHERWISE NOTED.
- ALL PLUMBING COMPONENTS TO BE LEAD-FREE.
- ENCASE ALL WASTE/WATER PIPING, VALVES, WATER HEATER, OR ANY OTHER ASSOCIATED PLUMBING EQUIPMENT BELOW WALL HUNG LAVATORY, WITH TRUEBRO LAV-SHIELD (OR APPROVED EQUAL). THIS APPLIES TO ALL ADA LAVS, LAVS WITH MIXING VALVES MOUNTED BELOW LAV, AND ALL LAVS THAT INCLUDE INSTANTANEOUS ELECTRIC WATER HEATERS MOUNTED BELOW LAVS. LAV GUARD SHALL INCLUDE STAINLESS STEEL TAMPER RESISTANT SCREWS.
- HORIZONTAL DRAINAGE PIPING OF 2-1/2" DIAMETER OR LESS SHALL BE INSTALLED WITH A FALL OF NOT LESS THAN 1/4" PER FOOT. PIPING 3" AND LARGER SHALL BE INSTALLED WITH A FALL OF NOT LESS THAN 1/8" PER FOOT.
- ALL TRAP ARMS, P-TRAPS, ETC. EXPOSED UNDER LAVATORIES SHALL BE 18 GA. CHROME PLATED.
- PROVIDE REDUCED PRESSURE BACKFLOW PREVENTER AT ALL CONNECTIONS TO MECHANICAL EQUIPMENT. KITCHEN AND LAUNDRY EQUIPMENT, ETC., AS REQUIRED BY CODE AND BY LOCAL AUTHORITY. CONTRACTOR IS TO VERIFY WITH THE LOCAL AUTHORITY THE TYPE OF BACKFLOW PREVENTION DEVICE REQUIRED FOR ALL APPLICATIONS PRIOR TO INSTALLATION.
- ALL OVERHEAD WATER PIPING SHALL BE INSTALLED BELOW CEILING INSULATION.
- CONTRACTOR SHALL INSTALL WATER HAMMER ARRESTOR EQUAL TO ZURN SERIES 1700 AT EACH PLUMBING GROUP.
- CONTRACTOR TO FURNISH AND INSTALL ANTI-SIPHON VALVE ON EACH WATER HEATER.
- CONTRACTOR SHALL FURNISH AND INSTALL BALL VALVES FOR WATER SHUT-OFF AT FIXTURE GROUPINGS.
- ALL STOPS/SUPPLIES SHALL BE CHROME PLATED BRASS.
- ALL GAS PIPING SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH NFPA 54, INTERNATIONAL FUEL GAS CODE.
- ALL EXPOSED INTERIOR OR EXTERIOR GAS LINES ARE TO BE PAINTED BY THE PLUMBING CONTRACTOR WITH ONE COAT OF LATEX PAINT. INTERIOR COLOR TO MATCH WALL. EXTERIOR COLOR TO BE SELECTED BY ARCHITECT.
- FURNISH AND INSTALL GAS PRESSURE REGULATING/REDUCING VALVES WITH LEAK LIMITING DEVICE AT EACH APPLIANCE. WHERE REGULATORS ARE NOT SELF-LIMITING TYPE, VENTS SHALL BE EXTENDED TO THE BUILDING EXTERIOR.

## PLUMBING EQUIPMENT SCHEDULE

MARK NO.	FIXTURE TYPE	MANUFACTURER'S MODEL NO.	MOUNT	MOUNT HEIGHT	WASTE SIZE	VENT SIZE	C.W. SIZE	H.W. SIZE	NOTES
WC-1A	WATER CLOSET FLUSH VALVE ADA, WALL HUNG	ZURN MODEL NO. Z5615.258.00.00.00 OR APPROVED EQUAL	WALL	16-1/8" TO RIM	4"	2"	1 1/4"	-	WHITE ELONGATED VITREOUS CHINA, Z6000AV-HET FLUSH VALVE, WHITE OPEN FRONT TOILET SEAT LESS COVER W/ S.S. CHECK HINGE, ZURN Z1204-N WALL HANGER
L-1A	LAVATORY, ADA 20"x18"	ZURN MODEL NO. Z5344 OR APPROVED EQUAL	WALL	34" TO LIP	1-1/4"	1-1/4"	1/2"	1/2"	WHITE VITREOUS CHINA, OPEN GRID STRAINER, 4" CENTERSET MODEL Z81104-XL FAUCET W/ 0.5 GPM AERATOR, P-TRAP W/ CLEANOUT; CONCEALED ARM CARRIER, SUPPLIES W/ STOPS
S-1A	STAINLESS SINK TWO COMPARTMENT A.D.A.	JUST MODEL NO. DL-ADA-2233-A-GR OR APPROVED EQUAL	CABINET	-	1-1/2"	1-1/4"	1/2"	1/2"	ELKAY MODEL NO. LK-335 STRAINER, DELTA MODEL NO. 100LF-HDF (1.5 GPM) FAUCET, SUPPLIES WITH STOPS, P-TRAP WITH CLEANOUT, 4-1/2" BOWL DEPTH

EQUALS BY ELJER, KOHLER, TOTO, AND AMERICAN STANDARD WILL BE ACCEPTED.

## PLUMBING SPECIALITY SCHEDULE

MARK NO.	FIXTURE TYPE	MANUFACTURER'S MODEL NO.	MOUNT	MOUNT HEIGHT	WASTE SIZE	VENT SIZE	C.W. SIZE	H.W. SIZE	MIXED WATER SIZE	NOTES
WB-1	ICEMAKER WALLBOX	QATEY MODEL NO. 38574 OR APPROVED EQUAL	WALL	36" A.F.F.	-	-	1/2"	-	-	1/4 TURN BRASS BALL VALVE - COPPER SWEAT - STANDARD PACK WITH 6" STAINLESS STEEL HOSE
W.H.A.	WATER HAMMER ARRESTOR	ZURN SERIES 1700 OR APPROVED EQUAL	-	-	-	-	VARIES	VARIES	-	-

EQUALS BY SMITH OR JONES WILL BE ACCEPTED

## ELECTRIC WATER COOLER SCHEDULE

MARK NO.	FIXTURE TYPE	MANUFACTURER'S MODEL NO.	MOUNT	MOUNT HEIGHT	WASTE SIZE	VENT SIZE	C.W. SIZE	H.W. SIZE	NOTES
EW-1	ELECTRIC WATER COOLER, ADA SPLIT LEVEL	ELKAY MODEL NO. EZSTLWLSLK OR APPROVED EQUAL	WALL	34-1/2" TO NOZ CENTER	1-1/4"	1-1/4"	1/2"	-	ADA MOUNTED AT 48" AFF TO NOZLE CENTERLINE, STAINLESS STEEL W/ TRIM BEZEL WITH BOILING STATION, FILTER, MOUNTING KIT

## OUTDOOR GAS WATER HEATER SCHEDULE

MARK NO.	MODEL NO.	BTU INPUT	RECOVERY GPH @ 45°/77° RISE	GAS CONN. SIZE	WIDTH SIZE	DEPTH SIZE	HEIGHT SIZE	WATER CONN. SIZE	APPROX. WEIGHT	VOLTAGE
GWH-1	RHEEM NO RTGH-95XLN OR APP'V EQUAL	199,000	8.4/4.9	3/4"	18-1/2"	13-3/4"	37-1/2"	3/4"	82	120-1-60
GWH-2	RHEEM NO RTGH-95XLN OR APP'V EQUAL	199,000	8.4/4.9	3/4"	18-1/2"	9-3/4"	37-1/2"	3/4"	82	120-1-60

- NOTES:
- SINGLE COMMERCIAL WALL MOUNTED REMOTE CONTROL
  - STANDARD VENT DISCHARGE KIT
  - NATURAL GAS PRESSURE : 7" - 10.5" W.C.
  - INSTALLATION SHALL INCLUDE HEAT TRACING OF ALL WATER PIPING
  - INSTALLATION SHALL INCLUDE SURFACE MOUNTED WALL BOX WITH PIPE ENCLOSURE CHASE.
  - ELECTRICAL IS 120-1-60 . 90 WATT
  - INSTALLATION SHALL INCLUDE GAS PRESSURE REGULATOR TO REDUCE GAS PRESSURE FROM 2 PSIG TO 9 W.C.
  - WARRANTY: 12 YEAR LIMITED EXCHANGE, 1 YEAR LABOR

## MIXING VALVE SCHEDULE

MARK NO.	MANUFACTURER'S MODEL NO.	TEMPERATURE (°F)	INLET	OUTLET
MV-1	POWERS SERIES LFLM495 BELOW SINK	SET AT 90-110	1/2"	1/2"
MV-2	POWERS SERIES LFLM495 BELOW SINK	SET AT 90-110	1/2"	1/2"

NOTES:  
1. UNLESS OTHERWISE NOTED, MIXING VALVES SHALL CONFORM TO ASSE 1070 AND ASSE 1017

## CODES AND STANDARDS

- 2015 INTERNATIONAL PLUMBING CODE
- 2015 INTERNATIONAL FIRE CODE
- 2015 INTERNATIONAL MECHANICAL CODE
- 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN
- 2015 INTERNATIONAL FUEL GAS CODE
- ASHRAE 90.1-2013 ENERGY STANDARD

## PLUMBING LEGEND

SS	SANITARY SEWER	XCW	EXISTING COLD WATER
CD	CONDENSATE DRAIN	XHW	EXISTING HOT WATER
CW	COLD WATER	XNG	EXISTING NATURAL GAS
110°	110° HOT WATER	SV	HOT WATER RETURN PUMP
140°	140° HOT WATER	SV	BALL VALVE
V	VENT	RD	RISER DOWN (ELBOW)
XV	EXISTING VENT	RU	RISER UP (ELBOW)
NG	NATURAL GAS	90°	90° ELBOW
XNG	NATURAL GAS	TEE	TEE
HWR	HOT WATER RECIRCULATING PIPE	TEE	TEE
XSS	EXISTING SANITARY SEWER	CROSS	CROSS
EHWR	EXISTING HOT WATER RECIRCULATING PIPE	CONNECT	CONNECT TO EXISTING

## PLUMBING DRAWING INDEX

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P3.1	PLUMBING RENOVATION PLANS
P3.2	PLUMBING RISER DIAGRAMS - BASE BID
P4.1	PLUMBING RENOVATION - ALTERNATE PLAN

# PLUMBING SCHEDULES, LEGEND, AND NOTES

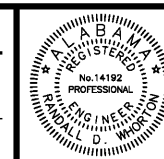
NOT TO SCALE

## WHORTON ENGINEERING, INC.

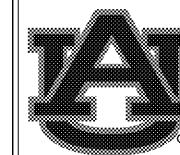
HVAC - PLUMBING - PROCESS CONTROL

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DATE: 01-20-2021  
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WHORTON ENGINEERING PROJECT NO. 19212



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Safety is our first priority.  
Think Safety. Act Safely.

No.	Revision	Date



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Drawn By: DT

Auburn University Building  
Ham Wilson Arena Renovations  
Project Number 19-451

SHEET TITLE:  
PLUMBING  
SCHEDULES,  
LEGEND, AND  
NOTES

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RDW  
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