

ABBREVIATIONS (AS APPLICABLE)		
(E) EXISTING	LAV LAVATORY	LAT LEAVING AIR TEMPERATURE
JCS THREE-COMPARTMENT SINK	LB # LBS. #	LAV LAVATORY
AMP AMPERE	LRA LOCKED ROTOR AMPS	LB # LBS. #
AIE ARCHITECT / ENGINEER	LTG LIGHTING	LRA LOCKED ROTOR AMPS
AAV AIR ADMITTANCE VALVE	LWT LEAVING WATER TEMPERATURE	LTG LIGHTING
ABV ABOVE	MA MIXED AIR	LWT LEAVING WATER TEMPERATURE
AC AIR CONDITIONER, AIR CONDITIONING	MAT MIXED AIR TEMPERATURE	MA MIXED AIR
ADJ ACCESS DOOR	MAX MAXIMUM	MAT MIXED AIR TEMPERATURE
ADJUSTABLE	MBH 1000 BTUH	MAX MAXIMUM
AFD ABOVE FINISHED FLOOR	MC MECHANICAL CONTRACTOR	MBH 1000 BTUH
AFMD AIR FLOW MEASURING DEVICE	MCA MINIMUM BRANCH CIRCUIT AMPACITY	MC MECHANICAL CONTRACTOR
AFG ABOVE FINISHED GRADE	MCB MAIN CIRCUIT BREAKER	MCA MINIMUM BRANCH CIRCUIT AMPACITY
AHJ AUTHORITY HAVING JURISDICTION	MCC MOTOR CONTROL CENTER	MCB MAIN CIRCUIT BREAKER
AHJ AIR HANDLING UNIT	MECH MECHANICAL	MCC MOTOR CONTROL CENTER
ANSI AMERICAN NAT'L STANDARDS INSTITUTE	MERV MINIMUM EFFICIENCY REPORTING VALUE	MECH MECHANICAL
AL ALUMINUM	MFR MANUFACTURER	MERV MINIMUM EFFICIENCY REPORTING VALUE
AP ACCESS PANEL	MHB MIXING HOSE BIBB	MFR MANUFACTURER
ARCH ARCHITECT, ARCHITECTURAL	MIN MINIMUM	MHB MIXING HOSE BIBB
ARI AMERICAN SOCIETY OF HEATING, REFRIGERATION, & AIR	MLO MAIN LUG ONLY	MIN MINIMUM
ASHRAE CONDITIONING ENGINEERS	MM MILLIMETER	MLO MAIN LUG ONLY
ASME AMERICAN SOCIETY OF MECHANICAL ENGINEERS	MOCP MAXIMUM OVERCURRENT PROTECTION	MM MILLIMETER
ASTM AMERICAN SOCIETY OF TESTING & MATERIALS	MS MOP SINK	MOCP MAXIMUM OVERCURRENT PROTECTION
ATC AUTOMATIC TEMP CONTROLS	MUA MAKE-UP AIR	MS MOP SINK
AUX AUXILIARY	MZ MULTIZONE	MUA MAKE-UP AIR
AWG AMERICAN WIRE GAUGE	NC NOT APPLICABLE	MZ MULTIZONE
AWS AMERICAN WELDING SOCIETY	N.C. NORMALLY CLOSED	NC NOT APPLICABLE
AWWA AMERICAN WATER WORKS ASSOCIATION	NEC NOISE CRITERIA	N.C. NORMALLY CLOSED
BAS BUILDING AUTOMATION SYSTEM	NEMA NATIONAL ELECTRIC CODE	NEC NOISE CRITERIA
BDD BACKDRAFT DAMPER	NFPA NATIONAL FIRE PROTECTION ASSOCIATION	NEMA NATIONAL ELECTRIC CODE
BFF BELOW FINISHED FLOOR	NIC NOT IN CONTRACT	NFPA NATIONAL FIRE PROTECTION ASSOCIATION
BFP BACKFLOW PREVENTER	NIL NIGHT LIGHT	NIC NOT IN CONTRACT
BHP BRAKE HORSEPOWER	N.O. NORMALLY OPEN	NIL NIGHT LIGHT
BLDG BUILDING	NOM NOMINAL	N.O. NORMALLY OPEN
BT BATHTUB	NPSH NET POSITIVE SUCTION HEAD	NOM NOMINAL
BTU BRITISH THERMAL UNIT	NTS NOT TO SCALE	NPSH NET POSITIVE SUCTION HEAD
BTUH BTU PER HOUR	OA OUTSIDE AIR	NTS NOT TO SCALE
BV BALANCING VALVE	OBD OPPOSED BLADE DAMPER	OA OUTSIDE AIR
BWV BACKWATER VALVE	OC ON CENTER	OBD OPPOSED BLADE DAMPER
C COMMON	OI OIL INTERCEPTOR	OC ON CENTER
CA COMBUSTION AIR	OS&Y OUTSIDE STEM AND YOKE	OI OIL INTERCEPTOR
CD CEILING DRAIN	OSHA OCCUPATIONAL SAFETY & HEALTH ADMIN.	OS&Y OUTSIDE STEM AND YOKE
CF CEILING FAN	PB PUSH BUTTON	OSHA OCCUPATIONAL SAFETY & HEALTH ADMIN.
CF CUBIC FEET	PC PLUMBING CONTRACTOR	PB PUSH BUTTON
CFH CUBIC FEET PER HOUR	PD PRESSURE DROP	PC PLUMBING CONTRACTOR
CFM CUBIC FEET PER MINUTE	PH PHASE	PD PRESSURE DROP
CI CAST IRON	PLBG PLUMBING	PH PHASE
CKT CIRCUIT	PNLBD PANELBOARD	PLBG PLUMBING
CLG CEILING	PPM PARTS PER MILLION	PNLBD PANELBOARD
CO CARBON MONOXIDE	PRV PRESSURE REGULATING VALVE	PPM PARTS PER MILLION
CO CLEANOUT	PSI POUNDS PER SQUARE INCH	PRV PRESSURE REGULATING VALVE
CO2 CARBON DIOXIDE	PSIA POUNDS PER SQUARE INCH - ABSOLUTE	PSI POUNDS PER SQUARE INCH
CONFIG CONFIGURATION	PSIG POUNDS PER SQUARE INCH - GAUGE	PSIA POUNDS PER SQUARE INCH - ABSOLUTE
COP COEFFICIENT OF PERFORMANCE	QTY QUANTITY	PSIG POUNDS PER SQUARE INCH - GAUGE
CO CONDENSING UNIT	RA RETURN AIR	QTY QUANTITY
CU COPPER	RAT RETURN AIR TEMPERATURE	RA RETURN AIR
CV CIRCUIT VENT	RAW RETURN AIR WALL REGISTER	RAT RETURN AIR TEMPERATURE
CWV COMBINATION WASTE & VENT	RCPT REFRIGERATION CONTRACTOR	RAW RETURN AIR WALL REGISTER
DB DRY-BULB TEMPERATURE	RCPTS RECEPTACLES	RCPT REFRIGERATION CONTRACTOR
DDC DIRECT DIGITAL CONTROL	RD RADIATION DAMPER	RCPTS RECEPTACLES
DEG DEGREES	RO ROOF DRAIN	RD RADIATION DAMPER
DF DRINKING FOUNTAIN	REBAL REBALANCE	RO ROOF DRAIN
DH DUCT HEATER	RECIRC RECIRCULATE	REBAL REBALANCE
DI DEIONIZED WATER	REF REFERENCE	RECIRC RECIRCULATE
DIA, Ø DIAMETER	REL RELOCATED	REF REFERENCE
DISC DISCONNECT	REQ REQUIRED	REL RELOCATED
DN DOWN	REV REVISION, REVISE	REQ REQUIRED
DN DOWNSPROUT NOZZLE	RG RETURN GRILLE	REV REVISION, REVISE
DOM DOMESTIC	RH RADIANT HEATER	RG RETURN GRILLE
DP DEW POINT	RH RELATIVE HUMIDITY	RH RADIANT HEATER
DPS DIFFERENTIAL PRESSURE SENSOR	RLA RUNNING LOAD AMPS	RH RELATIVE HUMIDITY
DWG DRAWING	RO REVERSE OSMOSIS	RLA RUNNING LOAD AMPS
DW DIRECT EXPANSION	RCD ROOF OVERFLOW DRAIN	RO REVERSE OSMOSIS
EA EACH	RP REVOLUTIONS PER MINUTE	RCD ROOF OVERFLOW DRAIN
EAT EXHAUST AIR	RPZ REDUCED PRESSURE ZONE	RP REVOLUTIONS PER MINUTE
EAT ENTERING AIR TEMPERATURE	RTU ROOF TOP UNIT	RPZ REDUCED PRESSURE ZONE
EC ELECTRICAL CONTRACTOR	SA SUPPLY AIR	RTU ROOF TOP UNIT
EER ENERGY EFFICIENCY RATIO	SAT SUPPLY AIR TEMPERATURE	SA SUPPLY AIR
EF EXHAUST FAN	SAW SUPPLY AIR WALL REGISTER	SAT SUPPLY AIR TEMPERATURE
EFF EFFICIENCY	SC SECURITY CAMERA	SAW SUPPLY AIR WALL REGISTER
EG EXHAUST GRILLE	SC SENSIBLE CAPACITY	SC SECURITY CAMERA
ELEC ELECTRICAL	SD SMOKE DETECTOR	SC SENSIBLE CAPACITY
EM EMERGENCY LIGHTING	SEER SEASONAL ENERGY EFFICIENCY RATIO	SD SMOKE DETECTOR
ENT ENTERING	SF SQUARE FEET	SEER SEASONAL ENERGY EFFICIENCY RATIO
EQUIP EQUIPMENT	SF SUPPLY FAN	SF SQUARE FEET
ESP EXTERNAL STATIC PRESSURE	SH SHOWER	SF SUPPLY FAN
ETR EXISTING TO REMAIN	SK SINK	SH SHOWER
EW EYE WASH	SM SHEET METAL	SK SINK
EW ELECTRIC WATER COOLER	SMACNA SHEET METAL & A/C CONT NAT'L ASSOC.	SM SHEET METAL
EWT ENTERING WATER TEMPERATURE	SHV SHUT-OFF VALVE	SMACNA SHEET METAL & A/C CONT NAT'L ASSOC.
FAHRENHEIT	SOV STATIC PRESSURE	SHV SHUT-OFF VALVE
FACP FIRE ALARM CONTROL PANEL	SPEC SPECIFICATION	SOV STATIC PRESSURE
FCO FLOOR CLEANOUT	STD STANDARD	SPEC SPECIFICATION
FCU FAN COIL UNIT	SZ SINGLE-ZONE	STD STANDARD
FD FLOOR DRAIN	TAB TESTING, ADJUSTING, BALANCE	SZ SINGLE-ZONE
FD FIRE DAMPER	TC TOTAL CAPACITY	TAB TESTING, ADJUSTING, BALANCE
FDC FIRE DEPARTMENT CONNECTION	TD TEMPERATURE DIFFERENCE	TC TOTAL CAPACITY
FFE FINISHED FLOOR ELEVATION	TD TRENCH DRAIN	TD TEMPERATURE DIFFERENCE
FLA FULL LOAD AMPS	TDH TOTAL DYNAMIC HEAD	TD TRENCH DRAIN
FM FLOW METER	TFD TO FLOOR DRAIN	TDH TOTAL DYNAMIC HEAD
FP FIRE PROTECTION	TG TRANSFER GRILLE	TFD TO FLOOR DRAIN
FPD FIRE PROTECTION CONTRACTOR	THRU THROUGH	TG TRANSFER GRILLE
FPM FEET PER MINUTE	TMV THERMOSTATIC MIXING VALVE	THRU THROUGH
FPS FEET PER SECOND	TP TOTAL PRESSURE	TMV THERMOSTATIC MIXING VALVE
FPWH FREEZE PROOF WALL HYDRANT	TP TRAP PRIMER	TP TOTAL PRESSURE
FS FLOOR SINK	TSP TOTAL STATIC PRESSURE	TP TRAP PRIMER
FT FEET	TSTAT THERMOSTAT	TSP TOTAL STATIC PRESSURE
GAL GALLONS	TYP TYPICAL	TSTAT THERMOSTAT
GALV GALVANIZED	UIF UNDER FLOOR	TYP TYPICAL
GC GENERAL CONTRACTOR	UIG UNDER GROUND	UIF UNDER FLOOR
GFI/GFCI GROUND FAULT CIRCUIT INTERRUPTER	UIS UNDER SLAB	UIG UNDER GROUND
GI GREASE INTERCEPTOR	UC UNDERCUT DOOR	UIS UNDER SLAB
GPD GALLONS PER DAY	UH UNIT HEATER	UC UNDERCUT DOOR
GPM GALLONS PER MINUTE	UL UNDERWRITERS LABORATORIES, INC.	UH UNIT HEATER
GR GRAINS	UR URINAL	UL UNDERWRITERS LABORATORIES, INC.
GR GROUND	UNO UNLESS NOTED OTHERWISE	UR URINAL
HB HOSE BIBB	V VENT	UNO UNLESS NOTED OTHERWISE
HD HEAD	V VOLT	V VENT
HD HUB DRAIN	VA VOLT-AMPERE	V VOLT
HOA HAND / OFF / AUTOMATIC	VAC VACUUM	VA VOLT-AMPERE
HP HEAT PUMP	VAV VARIABLE AIR VOLUME	VAC VACUUM
HP HORSEPOWER	VBF VENT BELOW FLOOR	VAV VARIABLE AIR VOLUME
HS HAND SINK	VBG VENT BELOW GRADE	VBF VENT BELOW FLOOR
HS HAND SWITCH	VFD VARIABLE FREQUENCY DRIVE	VBG VENT BELOW GRADE
HZ HERTZ	VRF VARIABLE REFRIGERANT FLOW	VFD VARIABLE FREQUENCY DRIVE
HVAC HEATING, VENTILATION, AND AIR CONDITIONING	VTR VENT THRU ROOF	VRF VARIABLE REFRIGERANT FLOW
IO INPUT / OUTPUT	W WATTS	VTR VENT THRU ROOF
IE INVERT ELEVATION	w/ WITH	W WATTS
IG ISOLATED GROUND	w/o WITHOUT	w/ WITH
IN INCHES	WB WASHER BOX	w/o WITHOUT
IN WC INCHES OF WATER COLUMN	WC WATER CLOSET	WB WASHER BOX
IND INDIRECT	WC WATER COLUMN	WC WATER CLOSET
KV KILOVOLT	WG WATER GAUGE	WC WATER COLUMN
KW KILOWATT	WH WATER HEATER	WG WATER GAUGE
	WV WET VENT	WH WATER HEATER

PLUMBING SYMBOLS (AS APPLICABLE)	
SYMBOL	DESCRIPTION
-----	DOMESTIC COLD WATER (CW)
-----	DOMESTIC HOT WATER (HW)
-----	DOMESTIC HOT WATER RETURN (HWR)
---SW---	SOFT WATER (SW)
---PWS---	PURE WATER SUPPLY (PWS)
---PWR---	PURE WATER RETURN (PWR)
---G---	NATURAL GAS (G) - LOW PRESSURE
---G#---	NATURAL GAS (G) - # PSI
---LP---	LIQUID PROPANE (LP) - LOW PRESSURE
---LP#---	LIQUID PROPANE (LP) - # PSI
---A---	COMPRESSED AIR (A)
---SS---	SANITARY SEWER (SS)
---OW---	OIL WASTE (OW)
---GW---	GREASE WASTE (GW)
---ST---	STORM DRAIN (ST)
---CD---	CONDENSATE (CD)
---V---	VENT (V)
○→○→○	PIPE: RISE / FALL / TEE DOWN
○→○→○	SHUT-OFF VALVE (SOV)
○→○→○	BALANCING VALVE (BV)
○→○→○	PRESSURE REDUCING VALVE (PRV)
○→○→○	STRAINER w/ DRAIN VALVE
○→○→○	CHECK VALVE
○→○→○	REDUCED PRESSURE ZONE (RPZ)
○→○→○	PRESSURE GAUGE w/ INSERTION WELL
○→○→○	THERMOMETER w/ INSERTION WELL
○→○→○	VACUUM RELIEF VALVE
○→○→○	FLOOR CLEANOUT (FCO)
○→○→○	FLOOR DRAIN (FD), ROUND / RECTANGULAR
○→○→○	FLOOR SINK (FS), FULL / HALF GRATE
○→○→○	GAS PRESSURE REGULATOR
○→○→○	AUTOMATIC GAS VALVE
○→○→○	STORM DRAIN DOWNSPOUT NOZZLE (DN)
○→○→○	FREEZE PROOF WALL HYDRANT (FPWH)
○→○→○	HOSE BIBB (HB)
○→○→○	CLEANOUT - INLINE / WALL (CO / WCO)
○→○→○	FLANGE
○→○→○	UNION
○→○→○	FLEXIBLE PIPE CONNECTOR
○→○→○	CAPPED PIPE

ANNOTATION SYMBOLS (AS APPLICABLE)	
SYMBOL	DESCRIPTION
○	PLAN NOTE (PER SHEET)
XXXX	KITCHEN EQUIPMENT REFERENCE NUMBER
●	POINT OF CONNECTION TO EXISTING
◆	TERMINATION OF DEMOLITION
~	CONTINUATION
① M1	DETAIL NUMBER SHEET NUMBER
① M1	SECTION CUT DESIGNATION

APPLICABLE CODES	
2021 ARKANSAS FIRE PREVENTION CODE, VOLUME I - FIRE	
2021 ARKANSAS FIRE PREVENTION CODE, VOLUME II - BUILDING	
2021 ARKANSAS MECHANICAL CODE (AMC)	
2020 NFPA 70 - NATIONAL ELECTRICAL CODE (NEC)	
2018 ARKANSAS PLUMBING CODE (APC)	
2018 ARKANSAS FUEL GAS CODE (AFGC)	
2009 INTERNATIONAL ENERGY CONSERVATION CODE (IECC)	

ADA NOTES (AS APPLICABLE)	
THIS APPLIES TO HANDICAPPED ACCESSIBLE FIXTURES ONLY. REFER TO ARCHITECTURAL PLANS FOR PLUMBING FIXTURE ELEVATIONS.	
WATER CLOSETS: THE HEIGHT OF WATER CLOSETS SHALL BE 17" TO 19" MEASURED TO THE TOP OF THE TOILET SEAT. SEATS SHALL NOT BE SPRUNG TO RETURN TO A LIFTED POSITION. THE WATER CLOSET SHALL BE LOCATED 18" FROM THE SIDE WALL TO THE CENTER LINE OF THE BOWL. HAND OPERATED FLUSH CONTROLS SHALL BE MOUNTED ON THE WIDE SIDE OF TOILET AREAS NO MORE THAN 29" ABOVE THE FINISH FLOOR. SEE ARCHITECTURAL DRAWINGS FOR GRAB BAR LOCATIONS.	
LAVATORIES: LAVATORIES SHALL BE MOUNTED WITH THE RIM OR COUNTER SURFACE NO HIGHER 34" ABOVE THE FINISH FLOOR. PROVIDE A CLEARANCE OF AT LEAST 29" ABOVE THE FINISH FLOOR TO THE BOTTOM OF THE APRON. KNEE SPACE SHALL BE 8" FROM BOTTOM EDGE OF APRON TO THE LEADING EDGE OF THE BOTTOM OF THE BOWL. THE BOTTOM OF THE BOWL SHALL BE A MINIMUM OF 27" ABOVE THE FINISH FLOOR. ALL WATER AND DRAIN PIPING UNDER LAVATORIES SHALL BE INSULATED WITH A FOAM INSERT COVERED WITH A 1/8" VINYL OUTER SHELL. ANGLE STOPS SHALL HAVE A FLIP TOP ACCESS.	
FAUCETS / SHOWER CONTROLS: CONTROLS SHALL BE LEVER HANDLES OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO GREATER THAN 5 LBF.	
SHOWER: A SEAT SHALL BE PROVIDED IN SHOWER STALLS 36"x36". THE SEAT SHALL BE MOUNTED ON THE WALL OPPOSITE OF THE CONTROLS AND 17" TO 19" FROM THE BATHROOM FLOOR AND SHALL EXTEND THE FULL DEPTH OF THE STALL. SHOWER CONTROLS SHALL BE MOUNTED ON THE WALL OPPOSITE OF THE SEAT AND SHALL BE LOCATED ON THE SAME WALL AS THE SHOWER HEAD, AT MINIMUM HEIGHT OF 36" AND A MAXIMUM HEIGHT OF 48". IN ADDITION TO THE FIXED SHOWER HEAD PROVIDE A HAND HELD SHOWER SPRAY UNIT WITH A HOSE AT LEAST 60" LONG THAT CAN BE USED BOTH AS A FIXED SHOWER HEAD AND AS A HAND HELD SHOWER HEAD. IN A 30"x60" SHOWER UNIT A FIXED SEAT SHALL BE PROVIDED. IT SHALL BE A FOLDING TYPE AND SHALL BE MOUNTED ON THE WALL ADJACENT TO THE CONTROLS. SEE ARCHITECTURAL DRAWINGS FOR GRAB BAR LOCATIONS.	
SINKS: SINKS SHALL BE MOUNTED WITH THE RIM OR COUNTER SURFACE NO HIGHER 34" ABOVE THE FINISH FLOOR. PROVIDE A KNEE CLEARANCE OF AT LEAST 27" HIGH, 30" WIDE, AND 19" DEEP. SINKS SHALL BE A MAXIMUM OF 6 1/2" DEEP. ALL WATER AND DRAIN PIPING UNDER LAVATORIES SHALL BE INSULATED WITH A FOAM INSERT COVERED WITH A 1/8" VINYL OUTER SHELL. ANGLE STOPS SHALL HAVE A FLIP TOP ACCESS.	
DRINKING FOUNTAINS / WATER COOLERS: WHERE ONLY ONE DRINKING FOUNTAIN IS PROVIDED ON A FLOOR THERE SHALL BE A DRINKING FOUNTAIN WHICH IS ACCESSIBLE TO INDIVIDUALS WHO USE WHEEL CHAIRS AND ONE ACCESSIBLE TO THOSE HAVING DIFFICULTY BENDING OR STOOPING. THIS CAN BE ACCOMPLISHED BY USING A "H-L" FOUNTAIN. LOWEST SPOUT SHALL BE NO HIGHER THAN 36" ABOVE FINISHED FLOOR AND HIGHEST SPOUT SHALL BE MOUNTED AT 40" ABOVE FINISH FLOOR. SPOUTS SHALL BE AT FRONT OF THE UNIT AND SHALL DIRECT THE WATER FLOW IN A TRAJECTORY THAT IS PARALLEL OR NEARLY PARALLEL TO THE FRONT OF THE UNIT. THE SPOUT SHALL PROVIDE A FLOW OF WATER AT LEAST 4" HIGH. CONTROLS SHALL BE FRONT MOUNTED OR SIDE MOUNTED NEAR THE FRONT EDGE. CONTROLS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO GREATER THAN 5 LBF. WALL MOUNTED UNITS SHALL HAVE A CLEAR KNEE SPACE OF BETWEEN THE BOTTOM OF THE APRON AND THE FINISHED FLOOR AT LEAST 27" HIGH, 30" WIDE, AND 17" TO 19" DEEP. FOUNTAINS SHALL NOT PROTRUDE MORE THAN 4" OUT INTO WALKWAYS.	

GAS PIPING NOTES	
1. COORDINATE ALL DETAILS OF THE GAS PIPING SYSTEM WITH THE LOCAL GAS COMPANY. THIS INCLUDES, BUT IS NOT LIMITED TO, THE LOCATION OF THE GAS METER, GAS PRESSURE REQUIREMENTS, RELOCATION AND/OR UPSIZING OF EXISTING SERVICE PIPING IF REQUIRED. PAY ALL COSTS REQUIRED BY GAS COMPANY. CONTACT GAS COMPANY FOR SIZE AND TYPE OF PIPING AND VALVES REQUIRED FOR CONNECTION TO METER. GAS METER AND SERVICE REGULATOR TO BE PROVIDED BY UTILITY COMPANY. VERIFY CORRECT GAS PRESSURE DOWNSTREAM OF SERVICE REGULATOR AFTER GAS UTILITY COMPLETES INSTALLATION. THE NATURAL GAS DEMAND SHOWN IN MBH IS BASED ON A HEATING VALUE OF 1000 BTU (1 MBH) PER CUBIC FOOT AND A SPECIFIC GRAVITY OF 0.6. NEW GAS PIPING SIZES SHALL BE AS NOTED ON PLANS.	
2. ALL WORK SHALL BE IN ACCORDANCE WITH ALL APPLICABLE LOCAL CODE AND GAS COMPANY REQUIREMENTS.	
3. THE CONTRACTOR SHALL SUPPLY ALL PERMITS AND LICENSES REQUIRED FOR THE WORK, AND FOR ALL INSPECTIONS REQUIRED.	
4. PROVIDE NEW GAS SERVICE PIPING FOR NEW EQUIPMENT SIZED AS INDICATED IN ACCORDANCE WITH FUEL GAS CODE FOR PRESSURE AND DEVELOPED LENGTH AS NOTED ON PLANS. CONNECT TO GAS PIPING AS SHOWN ON PLANS AND PROVIDE METER (IF REQUIRED), PRESSURE REGULATOR (SET TO EQUIPMENT DELIVERY PRESSURE, IF REQUIRED), VALVES, AND ACCESSORIES PER THE SPECIFICATIONS & LOCAL CODES.	
5. PROVIDE GAS PIPING UP TO AND INCLUDING FINAL CONNECTION TO THE EQUIPMENT.	
6. PROVIDE START-UP ASSISTANCE FOR ALL GAS-FIRED EQUIPMENT. COORDINATE ADJUSTMENT OF REGULATORS WITH SET-UP PERSONNEL TO ENSURE CORRECT GAS FLOW PRESSURES FOR PROPER OPERATION OF ALL EQUIPMENT.	
7. ALL PIPING EXPOSED TO THE OUTDOORS OR LOCATED IN UNCONDITIONED SPACES SHALL BE PAINTED WITH TWO COATS OF ENAMEL.	
8. PIPE GAS REGULATOR VENTS LOCATED INDOORS TO EXTERIOR OR PROVIDE VENT LIMITING DEVICE.	

PLUMBING GENERAL NOTES (AS APPLICABLE)	
1. NOTES APPLY TO ALL PLUMBING SHEETS.	
2. EACH CONTRACTOR IS RESPONSIBLE FOR HAVING THOROUGH KNOWLEDGE OF ALL DRAWINGS AND SPECIFICATIONS AS THEY RELATE TO THIS WORK. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED DUE TO LACK OF THIS KNOWLEDGE.	
3. ALL WORK SHALL BE PERFORMED BY LICENSED CONTRACTORS AS REQUIRED BY LOCAL AND STATE CODES.	
4. PROVIDE ALL MATERIALS FOR A COMPLETE INSTALLATION IN ALL RESPECTS READY FOR INTENDED USE AND IN STRICT ACCORDANCE WITH STATE AND LOCAL CODES AND MANUFACTURER'S RECOMMENDATIONS. PLANS AND SPECIFICATIONS GOVERN WHERE THEY EXCEED CODE MINIMUM REQUIREMENTS.	
5. ALL PLUMBING EQUIPMENT SHOWN ON THE PLUMBING PLANS SHALL BE PROVIDED BY THE PLUMBING CONTRACTOR UNLESS NOTED OTHERWISE. UNLESS NOTED OTHERWISE, THE INDICATION AND/OR DESCRIPTION OF ANY ITEM, IN THE DRAWINGS OR SPECIFICATIONS CARRIES WITH IT THE INSTRUCTION TO FURNISH AND INSTALL THE ITEM. ALL EQUIPMENT AND MATERIALS PROVIDED BY THE CONTRACTOR WILL BE NEW; THERE WILL BE NO ALLOWANCE FOR REUSED MATERIAL UNLESS EXPLICITLY INDICATED OTHERWISE BY THE ENGINEER OR OWNER.	
6. OBTAIN AND PAY FOR ALL PERMITS REQUIRED BY THIS WORK. PROVIDE TO THE ARCHITECT OR OWNER'S CONSTRUCTION MANAGER A COPY OF INSPECTION REPORTS AND APPROVAL CERTIFICATES FROM LOCAL AND STATE INSPECTIONS.	
7. DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENTS OR GEOMETRICAL RELATIONSHIPS OF EQUIPMENT AND SERVICES. THEY ARE NOT INTENDED TO SPECIFY OR SHOW EVERY OFFSET, SEQUENCE, DEVICE, OPTION, FITTING, OR COMPONENT. DO NOT SCALE FLOOR PLANS FOR EXACT LOCATION OF PIPE ROUTING. EQUIPMENT SCHEDULES SHALL TAKE PRECEDENCE OVER CONFLICTING DRAWING INFORMATION. DRAWINGS SPECIFIC TO THIS DISCIPLINE DO NOT LIMIT THE REPORTED QUANTITY OF WORK REQUIRED BY CONTRACT DOCUMENTS. REFER TO ARCHITECTURAL, STRUCTURAL, ELECTRICAL, AND OTHER DRAWINGS FOR COMPLETE INFORMATION. NOTIFY THE ARCHITECT OR OWNER'S CONSTRUCTION MANAGER OF ANY CONFLICTS OR DISCREPANCIES.	
8. INFORMATION AND COMPONENTS SHOWN ON DIAGRAMS OR DETAILS, BUT NOT SHOWN ON PLANS, AND VICE VERSA, SHALL BE PROVIDED AS IF EXPRESSLY REQUIRED BY BOTH.	
9. PROVIDE A CONSTRUCTION RECORD SET OF "AS-BUILT" DOCUMENTS TO THE ARCHITECT OR OWNER'S CONSTRUCTION MANAGER REFLECTING ANY VARIANCES OF INSTALLED EQUIPMENT OR PIPING LOCATIONS CONTRARY TO THE CONSTRUCTION DOCUMENTS.	
10. COORDINATE THE INSTALLATION OF THE PLUMBING SYSTEMS WITH OTHER TRADES TO ENSURE A NEAT AND ORDERLY INSTALLATION. INSTALL PIPING AS TIGHT TO STRUCTURE AS POSSIBLE. COORDINATE WITH OTHER TRADES TO AVOID CONFLICTS. COORDINATE INSTALLATION OF PIPING TO AVOID CONFLICTS WITH ELECTRICAL PANELS, LIGHTING FIXTURES, ETC. ANY MODIFICATIONS REQUIRED DUE TO LACK OF COORDINATION WILL BE THE RESPONSIBILITY OF THE CONTRACTOR AT NO EXTRA COST TO THE OWNER.	
11. THE CONTRACTOR SHALL DO ALL CUTTING OF WALLS, FLOORS, AND CEILINGS AS REQUIRED FOR INSTALLATION OF PLUMBING WORK. ALL CUTTING SHALL BE HELD TO A MINIMUM. NO STRUCTURAL MEMBERS MAY BE CUT OR MODIFIED WITHOUT THE WRITTEN PERMISSION OF THE STRUCTURAL ENGINEER.	
12. CUTTING OF ROOF AND FLASHING OF PIPE CURBS, SANITARY VENTS THROUGH ROOF, ETC., SHALL BE COORDINATED WITH THE ROOFING CONTRACTOR, AT THIS CONTRACTOR'S EXPENSE, TO MAINTAIN THE ROOF WARRANTY.	
13. THESE DRAWINGS REFLECT SYSTEMS DESIGNED AROUND SPECIFIC REFERENCE PRODUCTS (BASIS OF DESIGN), THE SELECTION OF WHICH INFLUENCED THE DESIGNS OF OTHER TRADES. IF SUBSTITUTIONS, SIZES, MODELS, ETC. ARE SUBMITTED, IT IS THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR TO COORDINATE ALL DIFFERENCES WITH OTHER TRADES. ALL COSTS OF ALL TRADES ASSOCIATED WITH THE SUBSTITUTION SHALL BE INCURRED.	
14. PLUMBING CONTRACTOR (PC) SHALL COORDINATE AND VERIFY THE FOLLOWING WITH THE ELECTRICAL CONTRACTOR (EC) PRIOR TO BID: A. DISCONNECTS: • WHERE NOTE FURNISHED WITH EQUIPMENT: FURNISHED BY EC, INSTALLED BY EC. • WHERE FURNISHED WITH EQUIPMENT: FURNISHED BY PC, INSTALLED BY EC.	
15. NEW PLUMBING EQUIPMENT AND PIPING ARE SHOWN AT APPROXIMATE LOCATIONS. FIELD MEASURE FINAL PIPING LOCATIONS PRIOR TO FABRICATION AND MAKE ADJUSTMENTS AS REQUIRED TO FIT THE PIPING WITHIN THE AVAILABLE SPACE. VERIFY THAT FINAL EQUIPMENT LOCATIONS MEET MANUFACTURER'S RECOMMENDATIONS REGARDING SERVICE CLEARANCE AND PROPER AIRFLOW CLEARANCE AROUND EQUIPMENT.	
16. COORDINATE PIPE ROUTING AWAY FROM ELECTRICAL PANELS. IF PIPE ROUTING OVER ELECTRICAL PANELS IS UNAVOIDABLE, PROVIDE DRIP CATCH PANS UNDER THE ENTIRE LENGTH OF PIPE WHERE INSTALLED ABOVE ELECTRICAL EQUIPMENT. PANS SHALL BE MANUFACTURED, FIELD, OR SHOP FABRICATED OUT OF GALVANIZED SHEET METAL COMPLYING WITH ASTM A653/A653M. END CAP AND SEAMS SHALL BE WELDED OR SOLDERED AND SHALL BE TESTED TO BE LEAK PROOF. PANS SHALL BE CONSTRUCTED SO THAT THEY ARE LARGER THAN THE DRAIN LINE SERVING.	
17. SEAL PENETRATIONS THROUGH THE BUILDING COMPONENTS IN ACCORDANCE WITH THE CONTRACT SPECIFICATIONS. FIREPROOF PENETRATIONS THROUGH FIRE RATED COMPONENTS IN ACCORDANCE WITH U.L. REQUIREMENTS. REFER TO ARCHITECTURAL PLANS FOR WALL AND FLOOR TYPES.	
18. PROVIDE SLEEVE FOR ALL WATER PIPE FLOOR PENETRATIONS. MAKE SLEEVE LARGE ENOUGH FOR INSULATION. SEAL WITH MASTIC AND ENSURE OF NO WATER PENETRATIONS.	
19. COORDINATE PIPING INSTALLATION WITH STRUCTURAL GRADE BEAMS, FOOTINGS, COLUMN PIERS, ETC. SLEEVE PIPING THROUGH GRADE BEAMS, FOOTINGS, ETC. WHERE REQUIRED AND AS NOTED ON PLANS.	
20. COORDINATE PLUMBING CONNECTIONS EXTERIOR TO THE BUILDING WITH CIVIL AND AHJ. PROVIDE PRESSURE REDUCING VALVE AND BACKFLOW PREVENTER AS SHOWN OR REQUIRED BY AHJ. VERIFY INVERT AND SLOPE OF INCOMING SANITARY SEWER BEFORE TRENCHING. INVERT ELEVATIONS SHOWN ON THE PLUMBING PLANS ARE FOR CALCULATION PURPOSES ONLY. THE CONTRACTOR IS RESPONSIBLE FOR ACTUAL FIELD VERIFICATION OF THE CONNECTION ELEVATION.	
21. SANITARY AND STORM SEWER PIPING SHOWN IS BASED ON 1/4" PER FOOT FALL FOR ALL PIPE SMALLER THAN 3" DIAMETER AND 1/8" PER FOOT FALL FOR PIPE 3" DIAMETER AND LARGER, UNLESS NOTED OTHERWISE.	
22. ALL SEWER PIPING BELOW SLAB TO BE 2" DIAMETER MINIMUM.	
23. PROVIDE ACCESS PANELS TO ALL CONCEALED VALVES, CLEAN-OUTS, WATER HAMMER ARRESTORS, AND OTHER DEVICES BEHIND HARD SURFACES. LOCATE ITEMS ABOVE LAY-IN CEILINGS AND CLOSE TOGETHER WHERE POSSIBLE TO AVOID UNNECESSARY ADDITIONAL ACCESS PANELS. COORDINATE ALL ACCESS PANELS WITH ARCHITECT.	
24. ALL FLOOR DRAINS SHALL HAVE MINIMUM 4" DEEP SEAL TRAPS.	
25. PROVIDE TRAP GUARDS OR TRAP SEAL PRIMERS AND 1/2" COPPER TUBING CONNECTION TO ALL FLOOR DRAINS AS SHOWN OR AS REQUIRED BY AHJ. CONTRACTOR SHALL VERIFY REQUIREMENTS. PROVIDE SHUT-OFF VALVE UPSTREAM OF TRAP PRIMER VALVE. LOCATE TRAP PRIMER VALVES IN ACCESSIBLE LOCATION OR PROVIDE ACCESS PANEL. DO NOT LOCATE TRAP PRIMER VALVES OR PIPING IN PUBLIC ACCESSIBLE AREAS.	
26. LOCATION OF FLOOR DRAINS IN MECHANICAL ROOMS SHALL BE COORDINATED WITH THE MECHANICAL EQUIPMENT FOR PLACEMENT. DO NOT LOCATE DRAINS UNDER THE FOOTPRINT OF THE MECHANICAL EQUIPMENT.	
27. FLOOR CLEANOUTS SHALL HAVE TOPS DESIGNED FOR SPECIFIC FLOOR FINISHES (CARPET, TILE, ETC.) WHETHER SPECIFIED OR NOT. REFER TO ARCHITECTURAL SHEETS FOR FLOOR FINISHES.	
28. INSTALL VTR'S AND FLUES A MINIMUM 5'-0" FROM PARAPETS OR WALLS AND 10'-0" FROM EQUIPMENT WITH OUTSIDE AIR INTAKE.	
29. WATER PIPING SHALL BE SLOPED FOR DRAINAGE WITH DRAIN VALVES INSTALLED AT LOW POINTS.	
30. PROVIDE INSULATION ON ALL WATER PIPING ABOVE FLOOR, ROOF DRAIN BODIES, AND HORIZONTAL ROOF DRAIN PIPING.	
31. INSTALL WATER PIPE ON INSIDE OF EXTERIOR WALL INSULATION TO PREVENT FREEZING.	
32. VALVES SHALL BE LINE SIZE UNLESS NOTED OTHERWISE. ALL WATER SHUT-OFF VALVES SHALL BE "BALL LOCK" TYPE. PROVIDE SHUT-OFF VALVES AT EACH TERMINATION POINT OF ASSOCIATED EQUIPMENT.	
33. PROVIDE WATER HAMMER ARRESTORS AS REQUIRED BY MANUFACTURER, GOOD PRACTICE, AHJ AND/OR CODE. OR MINIMUM OF ONE ARRESTOR FOR EACH FIXTURE OR BANK OF FIXTURES. WATER HAMMER ARRESTORS SHALL BE THE SAME SIZE AS PIPE INSTALLED ON. MINIMUM AIR CHAMBERS SHALL NOT BE USED.	
34. REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATION AND MOUNTING HEIGHTS OF PLUMBING FIXTURES.	
35. PROVIDE AND INSTALL VACUUM BREAKER (WATTS 8A OR EQUAL) ON ANY THREADED EXTERIOR OR INTERIOR FAUCETS WITHOUT INTEGRAL VACUUM BREAKER.	
36. PROVIDE COMPLETE FIXTURES AND INCLUDE SUPPLIES, STOPS, VALVES, FAUCETS, DRAINS, TRAPS, TAILPIECES, ESCUTCHEONS, ETC. EXPOSED COPPER OR BRASS MATERIALS SHALL BE CHROME PLATED.	
37. ALL EXPOSED OR ACCESSIBLE P-TRAPS SHALL BE CHROME PLATED AND PROVIDED WITH BOTTOM CLEANOUT PLUGS.	
38. PROVIDE INSULATION AT ALL EXPOSED HOT WATER & DRAIN PIPING FOR HANDICAP FIXTURES PER ANSI A117.1 AND ADA REQUIREMENTS.	
39. CLEAN FAUCET AERATORS AND PIPE STRAINERS PRIOR TO TURNING BUILDING OVER TO THE OWNER.	
40. THE DESIGN OF ANY AND ALL STRUCTURAL SYSTEMS (INCLUDING MODIFICATIONS TO EXISTING STRUCTURES) THAT MAY BE REQUIRED FOR SUPPORT OF NEW PLUMBING EQUIPMENT SHALL BE THE RESPONSIBILITY OF SEPARATE LICENSED STRUCTURAL ENGINEER.	

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