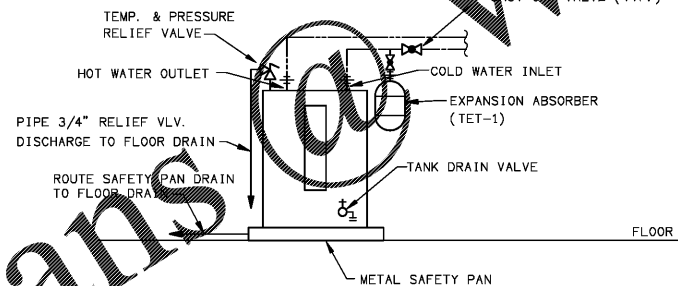


**PLUMBING GENERAL NOTES**

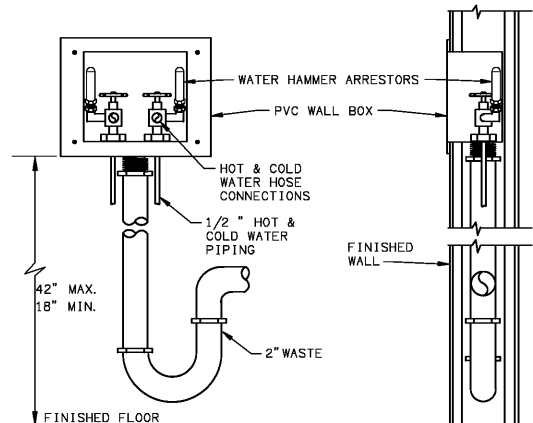
- A. FURNISH, PROVIDE AND INSTALL MATERIALS, EQUIPMENT, AND SYSTEMS IN COMPLIANCE WITH THE 2013 KENTUCKY STATE PLUMBING LAW, REGULATIONS, AND CODE, 815 KAR CHAPTER 20, OTHERWISE KNOWN AS THE KENTUCKY STATE PLUMBING CODE.
- B. SUPPORT PIPING AND EQUIPMENT AT THE INTERVALS AND WITH METHODS NOTED IN THE KENTUCKY STATE PLUMBING CODE.
- C. INSPECTIONS MUST BE REQUESTED BEFORE ANY PART OF THE PLUMBING IS COVERED UNDER THE FLOOR OR CONCEALED IN THE WALLS.
- D. A FINAL INSPECTION AND AIR TEST MUST BE REQUESTED AFTER ALL PLUMBING FIXTURES HAVE BEEN SET.
- E. WATER PIPING AND SYSTEM SHALL BE IN COMPLIANCE WITH THE REDUCTION OF LEAD IN THE DRINKING WATER ACT AS REQUIRED BY SAFE DRINKING WATER ACT (SDWA). PIPES, FITTINGS, JOINTS AND VALVES USED FOR SUPPLYING WATER FOR DRINKING OR COOKING SHALL COMPLY WITH NSF 372 AND SHALL HAVE A WEIGHTED AVERAGE LEAD CONTENT OF 0.25% OR LESS.
- F. ALL WATER SUPPLY AND DRAINAGE PIPING SHALL BE MARKED WITH THE SEAL OF APPROVAL OF THE NATIONAL SANITATION FOUNDATION.
- G. READ JOB SPECIFICATIONS AND OTHER DISCIPLINE DRAWINGS FOR ADDITIONAL INFORMATION.
- H. COORDINATE WORK WITH OTHER TRADES.
- I. PIPE ROUTING SHOWN IS SCHEMATIC AND IS INTENDED TO INDICATE GENERAL ROUTING. PROVIDE ANY ADDITIONAL OFFSETS AND FITTINGS REQUIRED FOR PROPER INSTALLATION IN ORDER TO MAINTAIN CLEARANCES AS ENCOUNTERED IN THE FIELD.
- J. INSTALL WATER AND DRAINAGE PIPING AS CLOSE TO PLANS AS POSSIBLE WITH NO UNAPPROVED CHANGES IN SIZING.
- K. SUBMIT SHOP DRAWINGS (INCLUDING ALTERNATE PIPE ROUTING AND EQUIPMENT LOCATION) TO ARCHITECT/ENGINEER FOR REVIEW PRIOR TO PURCHASE OR INSTALLATION.
- L. DO NOT ROUTE PLUMBING PIPING OVER ELECTRICAL PANELS.
- M. SLEEVE AND FIRE STOP PENETRATIONS OF RATED AND BEARING WALLS, FLOORS AND CEILINGS IN ACCORDANCE WITH APPLICABLE UL STANDARDS AND LOCAL CODES TO MAINTAIN RATINGS. MAINTAIN FIRE RATINGS WHEN PENETRATING RATED ASSEMBLIES USING UL LISTED THRU FIRE-STOP PENETRATION ASSEMBLIES. REFER TO SPECIFICATIONS AND ARCHITECTURAL DRAWINGS FOR RATED WALLS, CEILINGS AND FLOORS INFORMATION.
- N. PENETRATE FOOTINGS ONLY WHEN NECESSARY, AND USE SLEEVING AS SHOWN ON THE STRUCTURAL DRAWINGS, WITH LOCATIONS APPROVED BY STRUCTURAL ENGINEER. COORDINATE WITH GENERAL CONTRACTOR TO DROP FOOTINGS AS REQUIRED TO CLEAR PLUMBING SERVICES WHERE ABSOLUTELY NECESSARY.
- O. INSULATE AND OTHERWISE PROTECT ANY PIPING INSTALLED IN UNCONDITIONED SPACES FROM FREEZING TEMPERATURES.
- P. INSTALL SHOCK ABSORBERS WHERE NECESSARY IN THE DOMESTIC WATER SYSTEM (COLD AND HOT WATER) EVEN IF NOT SHOWN IN PLAN. SIZE & LOCATION OF SHOCK ABSORBERS CONFORM TO PDI WH-201.
- Q. PROVIDE ACCESS PANELS/DOORS AS REQUIRED SUCH THAT ALL VALVES ARE ACCESSIBLE.
- R. ALL FIXTURES DESIGNATED FOR USE BY INDIVIDUALS WITH PHYSICAL IMPAIRMENTS SHALL HAVE INSULATION ON ALL EXPOSED PIPING. SUCH INSULATION SHALL BE 1/2" THICK ARMAFLEX, TRUEBRO-HANDI-LAV GUARD KIT OR APPROVED EQUAL.
- S. UNLESS OTHERWISE NOTED, ROUTE HORIZONTAL SANITARY, WATER, AND STORM PIPING AS HIGH AS POSSIBLE TO ALLOW DUCTS TO PASS BELOW.
- T. SEE ARCHITECTURAL DRAWINGS FOR EXACT PLUMBING FIXTURE LOCATIONS, MOUNTING HEIGHTS, AND DIMENSIONS.
- U. FURNISH AND INSTALL HOSE BIBBS AND/OR WALL HYDRANTS 24" ABOVE FINISHED GRADE/FLOOR AND PROVIDE VACUUM BREAKERS.
- V. PROVIDE VALVES AND FITTINGS AS SAME SIZE OF LINE ON WHICH THEY ARE LOCATED, UNLESS OTHERWISE INDICATED ON DRAWINGS.
- W. FIELD VERIFY MEASUREMENTS AND LOCATION OF PLUMBING FIXTURES AND CONNECTIONS OF DRAINAGE AND WATER PIPING AND NOTIFY ARCHITECT OF ANY DISCREPANCIES.
- X. INSTALL DIELECTRIC COUPLINGS AND UNIONS AT CONNECTIONS OF DISIMILAR METALS.
- Y. PROVIDE IMB'S AND WB'S IN FIRE RATED AND BEARING WALLS AS FIRE RATED.
- Z. MAINTAIN WEATHER INTEGRITY OF BUILDING WHEN PENETRATING THE BUILDING ENVELOPE. SEE ARCHITECTURAL DETAILING FOR SPECIFIC REQUIREMENTS.
- AA. INSTALL WATER DISTRIBUTION PIPING BELOW GRADE OR SLAB WITH MAXIMUM COVER FOR FREEZING AND NO FITTINGS AS REQUIRED BY CODE AND BUILDING DEPARTMENT.
- AB. INSULATE HORIZONTAL PORTIONS OF COLD CONDENSATE LINES, INCLUDING ABOVE GRADE STORM AND SANITARY LINES WHICH ACCEPT COLD CONDENSATE, WITH 1/2" THICK CLOSED CELL INSULATION.
- AC. PROVIDE PIPING AND MATERIALS IN PLENUM RATED ROOMS AS PLENUM RATED. THIS INCLUDES PIPING AND DRAIN PANS IN THE MECHANICAL CLOSETS OF THE LIVING UNITS.
- AD. INSTALL WATER PIPING ON THE HEATED SIDE OF THE INSULATION. WHERE IN THE ATTIC, INSTALL INSULATION OVER THE PIPING WITH MINIMUM 6" OVERLAP AND NO GAPS.
- AE. ISOLATE BOTH HORIZONTAL AND VERTICAL METALLIC SANITARY AND STORM MAINS FROM STRUCTURE WITH HANGERS AND CLAMPS WHICH HAVE RUBBER ISOLATION COMPONENTS TO MINIMIZE THE AMPLIFICATION OF WATER BORN NOISE THROUGH THE BUILDING STRUCTURE.
- AF. LOCATE ALL SECTIONAL OR MAIN CONTROL VALVES WITHIN 1'-0" FROM ACCESS PANELS, CEILING TILES OR OTHER POINT OF ACCESS.
- AG. PROVIDE MANUFACTURED EXPANSION DEVICE OR FABRICATED EXPANSION JOINT FOR PIPING SYSTEMS CROSSING BUILDING EXPANSION JOINTS.
- AH. PROVIDE REDUCED PRESSURE BACKFLOW PREVENTORS AT DRINKING WATER CONNECTIONS TO MECHANICAL EQUIPMENT, POOL AND IRRIGATION CONNECTIONS, AND LAUNDRY, AND VENDING EQUIPMENT CONNECTIONS AS REQUIRED BY LOCAL CODES AND AUTHORITIES.
- AI. ROUTE VENT THRU ROOF PENETRATIONS TO TERMINATE AT THE LEAST VISIBLE LOCATION FROM THE ENTRY VIEW.
- AJ. PROVIDE A BASE CLEANOUT AT THE LOWEST LEVEL OF SANITARY AND WASTE STACKS.
- AK. PROVIDE TRAP PRIMERS ON FLOOR DRAINS AND HUB DRAINS WHICH DO NOT RECEIVE A CONTINUOUS DISCHARGE. PROVIDE TYPE "L" LAVATORY WASTE TRAP PRIMERS ON DRAINS IN PUBLIC RESTROOMS AND OTHER AREAS WITH DRAINS ADJACENT TO LAVATORIES. PROVIDE TYPE "A" AUTOMATIC TRAP PRIMERS IN ALL OTHER REQUIRED LOCATIONS.
- AL. SET TOPS OF ALL FLOOR DRAINS AND CLEANOUTS FLUSH WITH FINISHED FLOOR.
- AM. PROVIDE FLOOR DRAINS AND SIMILAR TRAPS DIRECTLY CONNECTED TO THE DRAINAGE SYSTEM AND SUBJECT TO INFREQUENT USE WITH AN APPROVED AUTOMATIC MEANS OF MAINTAINING THEIR WATER SEALS.
- AN. DOMESTIC WATER PRESSURE TO FIXTURES SHALL NOT EXCEED 80 PSI. OBTAIN READOUT OF AVAILABLE PRESSURE FOR THE PROJECT PRIOR TO THE WATER METER CONNECTION, AND NOTIFY THE ENGINEER OF EXCESSIVE PRESSURE ABOVE 80 PSI. WHEREVER THE SUPPLY PRESSURE EXCEEDS 80 PSI, PROVIDE A PRESSURE REDUCING VALVE TO MAINTAIN SUCH PRESSURE BELOW 80 PSI.

**PLUMBING SYMBOL/LEGEND**

SYMBOL	DESCRIPTION
SP	STREET PRESSURE MAIN
PM	PRESSURED MAIN
---	COLD WATER PIPING (CW)
---	HOT WATER PIPING (HW)
SS	SANITARY OR WASTE PIPING ABOVE SLAB
SS	SANITARY OR WASTE PIPING BELOW SLAB
CD	CONDENSATE DRAIN/SAFETY PAN WASTE PIPING ABOVE SLAB
CD	CONDENSATE DRAIN/SAFETY PAN WASTE PIPING BELOW SLAB
140'	HYDRONIC PIPING TO AND FROM AHJ
WC	WALL CLEANOUT
FCO	FLUSH FLOOR CLEANOUT
ECO	GRADE/EXTERIOR CLEANOUT
CO	CLEANOUT (ACCESSIBLE AT CEILING HEIGHT)
HB-1	HOSE BIBB
Ball Valve	BALL-TYPE SHUT-OFF VALVE
Turn Up	PIPING TURNING UP
Turn Down	PIPING TURNING DOWN
Branch	BRANCH - SIDE CONNECTION
Branch	BRANCH - TOP CONNECTION
Branch	BRANCH - BOTTOM CONNECTION
WH-1	WALL HYDRANT
Trench	TRENCH DRAIN
WHA	WATER HAMMER ARRESTOR(WHA)
Floor Drain	FLOOR DRAIN
X	PLUMBING PLAN NOTE
X	INDICATES CONDENSATE AND/OR SAFETY PAN RISER
SX	INDICATES SANITARY WASTE AND VENT RISER
WX	INDICATES DOMESTIC WATER RISER
GX	INDICATES NATURAL GAS RISER
AHJ	AUTHORITY HAVING JURISDICTION
Vent	VENT THRU ROOF



**ELECTRIC WATER HEATER DETAIL**  
SCALE: NTS



**WASHING MACHINE CONNECTION DETAIL**  
SCALE: NTS

**PLUMBING FIXTURE SCHEDULE**

MARK	DESCRIPTION	WASTE	VENT	CW	HW	REMARKS
WC-1	WATER CLOSET 1.6 GPF UNITS ONLY	3"	2"	1/2"	---	RIM +16 1/2" AMERICAN STANDARD CADET SUITE #215AA. 104.020. TWO-PIECE VITREOUS CHINA BOWL, SIPHON ACTION BOWL & TANK, FLOOR OUTLET W/ BOLT CAPS, ELONGATED BOWL, CHROMIUM PLATED TRIP LEVER, SUPPLIES AND STOP VALVE.  SEAT: BEMIS #1900SS, ELONGATED CLOSED FRONT, WHITE PLASTIC SEAT WITH COVER.
WC-2	WATER CLOSET 1.6 GPF PUBLIC ONLY	3"	2"	1/2"	---	RIM +16 1/2" AMERICAN STANDARD CADET SUITE #215AA. 104.020. TWO-PIECE VITREOUS CHINA BOWL, SIPHON ACTION BOWL & TANK, FLOOR OUTLET W/ BOLT CAPS, ELONGATED BOWL, CHROMIUM PLATED TRIP LEVER, SUPPLIES AND STOP VALVE. PLACE TRIP LEVER ON WIDE SIDE OF ROOM FOR ADA COMPLIANCE.  SEAT: CHURCH #9400SSCT, ELONGATED OPEN FRONT WHITE PLASTIC SEAT.
WC-3	WATER CLOSET 1.6 GPF ADA	3"	2"	1/2"	---	RIM +16 1/2" AMERICAN STANDARD CADET SUITE #215AA. 104.020. TWO-PIECE VITREOUS CHINA BOWL, SIPHON ACTION BOWL & TANK, FLOOR OUTLET W/ BOLT CAPS, ELONGATED BOWL, CHROMIUM PLATED TRIP LEVER, SUPPLIES AND STOP VALVE. PLACE TRIP LEVER ON WIDE SIDE OF ROOM FOR ADA COMPLIANCE.  SEAT: CHURCH #9400SSCT, ELONGATED OPEN FRONT WHITE PLASTIC SEAT.
UR-1	URINAL	1 1/2"	1 1/2"	3/4"	---	WALL HUNG AMERICAN STANDARD DEBORUM #642.001EC. 125 GPF URINAL. WHITE VITREOUS CHINA, WASHOUBRUSH, 3/4" TOP SPUD OPERATED FLUSH VALVE, WALL HANGING BRACKET RISE 14" TO LIP FROM FINISHED FLOOR.
L-1	LAVATORY	1 1/2"	1 1/2"	1/2"	1/2"	STONE URSA UNIVERSE #SIS-1813. 15"X20" SQUARE, PREMIUM PORCELAIN FAUCET: MOEN RIZON #6900 CHROME.  PROVIDE AND INSTALL ANGLE VALVES, SUPPLIES AND P-TRAP.
L-2	LAVATORY	1 1/2"	1 1/2"	1/2"	1/2"	COUNTERTOP AMERICAN STANDARD TOWN SQUARE #0298008 17-3/8"X12" SQUARE, VITREOUS CHINA. SEE SPEC SHEET FOR ADA COMPLIANCE.  FAUCET: AMERICAN STANDARD BERWICK #7430. 801.  PROVIDE AND INSTALL ANGLE VALVES, SUPPLIES AND P-TRAP.
L-3	LAVATORY	1 1/2"	1 1/2"	1/2"	1/2"	WALL HUNG PROFLO #PF5414WH 19"X 17" 3 HOLE, 4" CENTERSET LAVATORY, WHITE. VITREOUS CHINA. SEE SPEC SHEET FOR ADA COMPLIANCE.  FAUCET: PROFLO #PFWSC1040P CHROME  PROVIDE AND INSTALL ANGLE VALVES, SUPPLIES AND P-TRAP.
BATHUB	BATH TUB	2"	1 1/2"	1/2"	1/2"	HEAD +78" MODEL: AMERICAN STANDARD NEW SALEM #0255112.020 60"x30"x14-1/4" HIGH ENAMEL STEEL. SLIP RESISTANT BOTTOM. INTEGRAL APRON.  FAUCET & PRES. BALANCING VALVE: MOEN RIZON #T2813 OVERFLOW SINGLE LEVER HANDLE WITH INTEGRAL STOPS, LIFT & SPIN TYPE DRAIN AND WITH 2" P-TRAP. ALL EXPOSED TRIM TO BE BRUSHED/SATIN FINISH.
SH-1	SHOWER	2"	1 1/2"	1/2"	1/2"	HEAD +78" MODEL: KOHLER RELY #K-8649. 60"x34" SHOWER BASE. MOLDED-IN TEXTURED FLOOR. CENTER DRAIN.  FAUCET & PRES. BALANCING VALVE: MOEN RIZON #T2812 OVERFLOW SINGLE LEVER HANDLE WITH INTEGRAL STOPS, AND WITH 2" P-TRAP ALL EXPOSED TRIM TO BE BRUSHED/SATIN FINISH.
WB-1	LAUNDRY SUPPLY BOX	2"	1 1/2"	1/2"	1/2"	BOTTOM OF BOX +42" PROVIDE OATEY LAUNDRY SUPPLY BOX WITH WATER HAMMER ARRESTORS #38531, HIGH IMPACT PLASTIC BOX WITH DIMENSION OF 7 1/2" HIGH x 9" WIDE. PROVIDE 1" TURN BALL VALVES AND 2" DRAIN OUTLET CONNECTIONS. DRAIN FASTENS TO BOX WITH LOCK NUT AND SLIP NUT. (TOP OR BOTTOM WATER CONNECTION AS REQUIRED) PROVIDE OATEY FIRE-RATED WASHER BOX WITH WATER HAMMER ARRESTOR #38471 WHEN IN FIRE-RATED WALLS.
IMB-1	ICE MAKER BOX	---	---	1/2"	---	VALVE +24" PROVIDE OATEY ICE MAKER BOX WITH WATER HAMMER ARRESTOR #38602, HIGH IMPACT PLASTIC BOX W/ DIMENSION OF 6" HIGH x 6" WIDE. PROVIDE 1/2" FIP INLET x 1/2" OOD OUTLET COMPRESSION ANGLE VALVE. SUPPLY CONNECTION SIZE SHALL BE 1/2" OOD. PROVIDE OATEY FIRE-RATED ICE MAKER BOX WITH WATER HAMMER ARRESTOR #39122 WHEN IN FIRE-RATED WALLS.
S-1	SINK	1 1/2"	1 1/2"	1/2"	1/2"	STONE URSA UNIVERSE #SIS-105 URSA. UNDERMOUNT, 1 1/2" CHROME NICKEL CONTENT. SINGLE COMPARTMENT SINK WITH SS CUP STRAINER AND TAILPIECE. 3/8" DRAIN OPENING. PROVIDE P-TRAP AND ARM TO WALL WITH ESCUTCHEON. ANGLE VALVES WITH WHEEL HANDLE STOPS AND EXTENSIONS TO FAUCET. FAUCET: MOEN ALIGN #5965, SINGLE HANDLE KITCHEN FAUCET. HIGH ARC SPOUT. BRUSHED/SATIN FINISH.
S-2	SINK	1 1/2"	1 1/2"	1/2"	1/2"	US-ADA #1830-A URSA. UNDERMOUNT, 18-8 STAINLESS STEEL. SINGLE COMPARTMENT SINK WITH SS CUP STRAINER AND TAILPIECE. 18 GAUGE. PROVIDE P-TRAP AND ARM TO WALL WITH ESCUTCHEON. ANGLE VALVES WITH WHEEL HANDLE STOPS AND EXTENSIONS TO FAUCET. FAUCET: MOEN ALIGN #5965, SINGLE HANDLE KITCHEN FAUCET. HIGH ARC SPOUT. BRUSHED/SATIN FINISH.
TPV-1	TRAP PRIMER	---	---	1/2"	---	PROVIDE PRECISION PLUMBING PRODUCTS MODEL NO. P-2 TRAP PRIMER. MACHINED CORROSION RESISTANT BRASS, NO SPRINGS, DIAPHRAGMS, ADJUSTABLE FOR HIGH OR LOW PRESSURE. INSTALL AT LEAST 12" ABOVE DRAIN. PROVIDE TRAP DISTRIBUTION UNITS REQUIRED FOR QUANTITY OF FLOOR DRAINS SHOWN ON DWGS. PROVIDE ACCESS PANEL. WHERE ALLOWED BY THE AHJ, ALTERNATIVE TRAP SEALING PRODUCTS SUCH AS SURE SEAL OR TRAP GUARD MAY BE USE.
EWC-1	ELECTRIC WATER COOLER TWO-LEVEL ADA ACCESSIBLE	1 1/2"	1 1/2"	1/2"	---	LOWER BUBBLER + 36"; UPPER + 41" MODEL: ELKAY #ZST1BLG WALL MOUNT CAPACITY TO DELIVER 8 GPH OF 50°F. WATER WITH INLET TEMP. OF 80°F. AND ROOM TEMP OF 90°F. STAINLESS STEEL BASIN & LIGHT GRAY GRANITE, PRESSBAR BUBBLER, AIR COOLED HERMETICALLY SEALED CONDENSING UNIT W. 115V., 60 HZ, 1 PH., 1/2" P-TRAP, STOP VALVE, CORD, & PLUG.
MS-1	MOP SINK	3"	1 1/2"	1/2"	1/2"	FIAT #MSB2424 FLOOR MOUNTED SERVICE SINK CONSTRUCTED OF MOLDED STONE WITH PROTECTIVE CURB CAP. FIAT #830-AA SERVICE SINK FAUCET WITH TOP BRACE, STOPS, VACUUM, BREAKER, AND FLEX HOSE. PROVIDE MOP HANGER.
HB-1	HOSE BIBB (INTERIOR)	---	---	1/2"	---	OUTLET +24" MODEL: WOODFORD #24 WITH ANTI-SIPHON VACUUM BREAKER. PROVIDE LOOSE TEE KEY
HB-2	HOSE BIBB (ROOF)	---	---	3/4"	---	WOODFORD SRH-MS. FREEZELESS, DRAINLESS ROOF HYDRANT WITH ANTI-SIPHON VACUUM BREAKER AND SELF DRAINING DESIGN.
HB-3	HOSE BIBB (EXTERIOR)	---	---	1/2"	---	OUTLET +24" MODEL: WOODFORD #65B, FREEZELESS WALL HYDRANT WITH BRASS BOX, ANTI-SIPHON VACUUM BREAKER AND SELF DRAINING DESIGN.

- NOTES:
1. INSTALL FIXTURES IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL ACCESSIBILITY CODE REQUIREMENTS FOR INDIVIDUALS WITH PHYSICAL IMPAIRMENTS.
  2. ALL TRIM SHALL BE BRUSHED NICKEL OR STAINLESS STEEL.

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**PLUMBING**

**SCHEDULES**

**AND DETAILS**

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