

## PLUMBING FIXTURE SCHEDULE

MARK	FIXTURE	PIPE SIZE				MARK	FIXTURE	PIPE SIZE				MARK	FIXTURE	PIPE SIZE			
		TRAP	WASTE	C.W.	H.W.			TRAP	WASTE	C.W.	H.W.			TRAP	WASTE	C.W.	H.W.
P-1	WATER CLOSET	3"or4"	4"	1"	1/2"	P-2	URINAL	2"	2"	3/4"	1/2"	P-3	LAVATORY	1-1/2"	2"	1/2"	1/2"
REMARKS: WATER CLOSET, FLUSH VALVE, ADA ACCESSIBLE.  ZURN MODEL # Z5665BWL VITREOUS CHINA, 1.6 GPF, ELONGATED RIM, SIPHON ACTION, 1-1/2" TOP SPUD, LOW CONSUMPTION, FLOOR MOUNTED RIM A MAXIMUM HEIGHT OF 17" ABOVE FINISHED FLOOR.  ZURN MODEL # Z6000AV AQUASENSE AV EXPOSED FLUSH VALVE, MANUAL OPERATED, LOW CONSUMPTION 1.6 GPF, DIAPHRAGM TYPE, CHROME PLATED WITH HIGH BACK PRESSURE VACUUM BREAKER.  ZURN MODEL # 5950 SOLID PLASTIC, WHITE, ELONGATED SEAT WITH OPEN FRONT, EXTENDED BACK AND CHECK HINGE, LESS COVER.					REMARKS: URINAL, WALL HUNG, ADA ACCESSIBLE.  ZURN MODEL # Z5750 1.0 GPF LOW CONSUMPTION, VITREOUS CHINA, 3/4" TOP SPUD AND CONCEALED WALL HANGER BRACKETS.  ZURN MODEL # Z6003AV AQUASENSE AV EXPOSED, MANUAL OPERATED, LOW CONSUMPTION 1.0 GPF, DIAPHRAGM TYPE, CHROME PLATED WITH HIGH BACK PRESSURE VACUUM BREAKER FLUSH CONNECTION.  MOUNT WITH LIP AT A MAXIMUM HEIGHT OF 17" ABOVE FINISH FLOOR.  ZURN MODEL # Z1222 FLOOR MOUNTED, CONCEALED URINAL SUPPORT.					REMARKS: LAVATORY, COUNTERTOP, ADA ACCESSIBLE.  ZURN MODEL # Z5114 20"x17" VITREOUS CHINA, SELF-RIMMING LAY-IN WITH FRONT OVERFLOW.  ZURN AQUASPEC MODEL # Z81000-P SINGLE CONTROL FAUCET WITH 0.5 GPM VANDAL RESISTANT AERATOR.  ZURN MODEL # Z8746-PC ADA POLISHED CHROME PLATED BRASS GRID STRAINER.  3/8" CHROME PLATED SUPPLIES WITH STOP.  CHROME PLATED KENTUCKY CODE "P" TRAP.  INSTALL WASTE AND SUPPLY PIPING COVERS (TRUEBRO LAV GUARD 2 OR EQUAL) IN COMPLIANCE WITH ICC/ANSI A117.1-2003 IF KICK PANEL IS NOT PROVIDED.							
P-4	SINK	1-1/2"	2"	1/2"	1/2"	P-5	MOP SINK	3"	3"	1/2"	1/2"	P-6	EWC	1-1/2"	2"	1/2"	1/2"
REMARKS: SINGLE COMPARTMENT, LAY-IN, ADA ACCESSIBLE.  JUST MODEL # SL-ADA-1921-A-GR, 19"x21"x6-1/2" SELF-RIMMING, 18 GAUGE, STAINLESS STEEL SINK SUPPLY WITH CENTER REAR DRAIN.  DELTA MODEL # 27C4935 DECK MOUNT, HEAVY DUTY, RIGID/SWIVEL, GOOSE NECK SPOUT, WITH 1.0 GPM VANDAL RESISTANT FLOW CONTROL AERATOR AND 6" WRIST BLADE HANDLES.  JUST MODEL J-35-FS CHROME PLATED BRASS DRAIN WITH FLAT STRAINER AND 1-1/2" O.D. CHROME PLATED BRASS TAILPIECE, 4" LONG.  3/8" CHROME PLATED SUPPLIES WITH STOP.  CHROME PLATED KENTUCKY CODE "P" TRAP.  INSTALL WASTE AND SUPPLY PIPING COVERS (TRUEBRO LAV GUARD 2 OR EQUAL) IN COMPLIANCE WITH ICC/ANSI A117.1-2003 IF KICK PANEL IS NOT PROVIDED.					REMARKS: MOLDED HIGH DENSITY COMPOSITE MOP SERVICE BASIN.  ZURN MODEL # Z1996-24 HIGH DENSITY COMPOSITE, MOLDED MOP BASIN, 24"x24"x10" WITH STAINLESS STEEL DOME STRAINER / LINT BASKET AND A PVC DRAIN WITH ADJUSTABLE CAULKING NUT AND GASKET.  OPTIONS: - STAINLESS STEEL BUMPER GUARD - HOSE AND HOSE BRACKET - MOP HANGER - STAINLESS STEEL DRAIN - SERVICE FAUCET-CHROME PLATED BRONZE, WITH VACUUM BREAKER, INTEGRAL STOPS, ADJUSTABLE WALL BRACE, PAIL HOOK, FOUR-ARM HOT AND COLD HANDLES, AND 3/4" HOSE THREAD SPOUT - WALL GUARD #20 GAUGE TYPE 304 STAINLESS STEEL. (2 PANELS FOR 24"X24" BASIN).					REMARKS: ELECTRIC WATER COOLER - DUAL HEIGHT.  HAWS MODEL # HWUACPBL BI-LEVEL BARRIER-FREE, WALL MOUNTED WITH WATER FILTER AND STAINLESS STEEL FINISH.  ZURN MODEL # Z1225 ELECTRIC WATER COOLER SUPPORT SYSTEM WITH TOP AND BOTTOM PLATES. FLOOR MOUNTED WITH "PRO-SET" UPRIGHTS.  MOUNT LOWEST SPOUT AT A MAXIMUM HEIGHT OF 36" A.F.F.  MOUNT HIGHEST SPOUT AT A MAXIMUM HEIGHT OF 40" A.F.F.							
P-7	SHOWER	2"	2"	1/2"	1/2"	P-8	OUTLET BOX	1/2"	1/2"	1/2"	1/2"	P-9	WASHER BOX	2"	2"	1/2"	1/2"
SHOWER, SINGLE SHOWER VALVE, REGULAR.  AQUA GLASS MODEL # 314836AC GELCOAT SEAMLESS SHOWER ENCLOSURE 48"W x 36"D x 76"H O.D. WITH MOLDED SOAP DISH, TEXTURED BOTTOM, SHOWER DOOR FRAME AND TEMPERED GLASS SHOWER DOOR. CONTRACTOR SHALL DETERMINE ORIENTATION OF VALVE.  ZURN MODEL # Z7301-SSC-MT SINGLE HANDLE PRESSURE BALANCED MIXING SHOWER UNIT, INLINE VACUUM BREAKER, 1.0 GPM SHOWER HEAD, ARM AND FLANGE IN CHROME PLATED FINISH, SCALD-GUARD, AND VOLUME CONTROL.  PROFLO MODEL PF140NC NO CAULK BRASS DRAIN WITH CHROME STRAINER.  SHOWER VALVE SHALL BE FIELD ADJUSTED TO A MAXIMUM TEMPERATURE OF 105° F.					REMARKS: ICE MAKER OUTLET BOX AND VALVE.  IPS MODEL # W9700CP WATER TITE ICE MAKER OUTLET BOX.  CHROME 1/4 TURN ADAPTER BALL VALVE AND 1/2" COPPER SWEAT CONNECTION.  ICE-O-MATIC MODEL # IF18C SINGLE INLINE FILTER CARTRIDGE.					REMARKS: WASHING MACHINE OUTLET BOX AND VALVES.  GUY GRAY MODEL # T200 WHITE POWDER COAT ON COLD ROLLED STEEL AND 2" DRAIN.  P-10 OUTLET BOX REMARKS: GAS CONNECTION OUTLET BOX AND VALVE.  GASTITE MODEL # XR2 OUTLET BOX-11 RECESSED GAS OUTLET BOX WITH 90 DEGREE BALL VALVE.  INCLUDE MOUNTING BRACKET AND TRIM PLATE.							

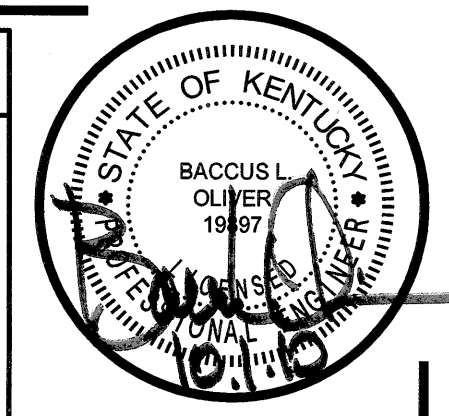
## SPECIALTY ITEMS

MARK	DESCRIPTION	REMARKS
FD-1	FLOOR DRAIN	JAY R. SMITH MODEL # 2005Y03 3" TYPE "A" (ROUND TOP) WITH NICKEL BRONZE, VANDAL PROOF STRAINER.
FD-2	FLOOR DRAIN	JAY R. SMITH MODEL # 2005Y04 4" TYPE "A" (ROUND TOP) WITH NICKEL BRONZE, VANDAL PROOF STRAINER.
OR-1	OPEN RECEPTACLE	2" HUB TO EXTEND 4" ABOVE FINISHED FLOOR.
CO-1	FLOOR CLEAN OUT	JAY R. SMITH MODEL # 4100S-U HEAVY DUTY FINISHED FLOOR CLEAN OUT WITH ROUND, ADJUSTABLE, SCORIATED SECURED POLISHED BRONZE VANDAL PROOF TOP.
CCO-1	COMBINATION CLEAN OUT/TEST TEE	ZURN MODEL # Z1449-BP CLEAN OUT FERRULE.
WCO-1	WALL CLEAN OUT	JAY R. SMITH MODEL # 4511S WALL CLEAN OUT WITH STAINLESS STEEL, VANDAL PROOF COVER.
YCO-1	YARD CLEAN OUT	ZURN MODEL # Z1449-BP CLEAN OUT FERRULE.
ET-1	EXPANSION TANK	AMTROL MODEL # ST-5 2.1 GALLON THERMAL EXPANSION TANK.
HB-1	3/4" HOSE BIBB	WOODFORD MODEL # 24 WALL FAUCET WITH LOOSE TEE KEY AND POLISHED CHROME FINISH. INSTALL HOSE BIBB 18" ABOVE FINISHED FLOOR.
HB-2	3/4" HOSE BIBB	WOODFORD MODEL # 24 WALL FAUCET WITH WHEEL HANDLE AND BRASS FINISH. INSTALL HOSE BIBB 48" ABOVE FINISHED FLOOR (UNLESS OTHERWISE NOTED).
FWH-1	FREEZE PROOF WALL HYDRANT	WOODFORD MODEL # B67 AUTOMATIC DRAINING WALL HYDRANT WITH LOOSE TEE KEY OPERATION, BOX AND POLISHED BRASS COVER.
FWH-2	FREEZE PROOF WALL HYDRANT	WOODFORD MODEL # HC67 WALL MOUNTED FREEZELESS HOT AND COLD MIXING HYDRANT WITH DOUBLE CHECK BACKFLOW PREVENTER AND 3/4" HOSE NOZZLE OUTLET.
TP-1	TRAP PRIMER	PRIME-RITE MODEL # PR-500 TRAP PRIMER.
OWS-1	OIL/WATER SEPARATOR	OLDCASTLE MODEL # 48-1000-OWS PRECAST 1,000 GALLON CAPACITY OIL/WATER SEPARATOR 4'-0"x8'-0"x6'-6" I.D.
TDS-1	TRENCH DRAIN SYSTEM	ZURN MODEL # Z874-18 TRENCH DRAIN SYSTEM, TRENCH # 180IP HIGH DENSITY POLYETHYLENE CHANNEL, HEAVY-DUTY FRAME WITH ANCHOR STUDS, DUCTILE IRON GRATE WITH 4 STAINLESS STEEL LOCKDOWNS AND ANCHOR TABS. INSTALL WITH GALVANIZED STEEL BAR GRATE AND 4" NO-HUB BOTTOM OUTLET. CHANNELS SHALL BE 80" LONG.
BFP-1	BACKFLOW PREVENTER	WATTS SERIES 007 MODEL # 007-OSY 2" DOUBLE CHECK VALVE BACKFLOW PREVENTER WITH FUSED EPOXY COATED CAST IRON BODY CONSTRUCTION.
GLP-1	GAS LAMP AND LAMP POST	LEGENDARY LIGHTING MODEL # APOLLO 1, NATURAL COPPER FINISH, POST BRACKET, ELECTRONIC IGNITION, SEEDY GLASS, 3" DIAMETER STEEL POLE WITH DECORATIVE BASE.

## PLUMBING NOTES

- EACH CONTRACTOR SHALL BE RESPONSIBLE FOR VISITING THE SITE PRIOR TO BIDDING IN ORDER TO BECOME FAMILIAR WITH THE EXISTING CONDITIONS. ANY DISCREPANCIES OR QUESTIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE BID DATE.
- ALL PLUMBING SHALL BE INSTALLED IN ACCORDANCE WITH THE KENTUCKY BUILDING CODE, KENTUCKY STATE PLUMBING CODE AND ALL OTHER LOCAL CODES/REQUIREMENTS THAT APPLY.
- ACCESSIBLE PLUMBING FIXTURES SHALL BE INSTALLED PER THE KENTUCKY BUILDING CODE IN ACCORDANCE WITH ICC/ANSI A117.1-2003.
- INSULATE PLUMBING PER TECHNICAL SPECIFICATIONS.
- THE CONTRACTOR SHALL OBTAIN, AT HIS EXPENSE, APPLICABLE PERMITS AND "TAP-ON" FEES.
- NEW CONNECTIONS TO UTILITIES SHALL BE COORDINATED WITH THE APPROPRIATE UTILITY COMPANIES.
- EQUAL VITREOUS CHINA PLUMBING FIXTURES ARE: AMERICAN STANDARD, CRANE AND KOHLER. INSTALL FIXTURES AND EQUIPMENT PER MANUFACTURER'S SPECIFICATIONS.
- EQUAL PLUMBING FAUCETS ARE CHICAGO, DELTA AND KOHLER. INSTALL FAUCETS PER MANUFACTURER'S SPECIFICATIONS.
- THESE PLANS ARE SCHEMATIC IN NATURE AND INDICATE THE APPROXIMATE AND GENERAL LOCATION OF THE WORK. CONTRACTOR SHALL INSTALL WORK THROUGH COORDINATION WITH OTHER TRADES AND TO SUIT FIELD CONDITIONS.
- ILLUSTRATED HORIZONTAL SANITARY SEWER DRAIN/WASTE PIPING SHALL BE INSTALLED BELOW FLOORS. HORIZONTAL WATER AND VENT PIPING SHALL BE INSTALLED ABOVE CEILINGS, UNLESS OTHERWISE NOTED.
- UNLESS OTHERWISE NOTED, ALL PIPING SHALL BE CONCEALED IN WALLS OR CEILINGS.
- COORDINATE ENTIRE PIPING LAYOUT WITH ALL OTHER TRADES TO ENSURE PROPER INSTALLATION AND REQUIRED CLEARANCES.
- VERIFY EXACT LOCATION AND SIZE OF EXISTING SERVICES PRIOR TO MATERIAL ORDER OR INSTALLATION OF NEW PIPING.
- VERIFY ALL DIMENSIONS BEFORE FABRICATION.
- PLACE MILDEW RESISTANT SILICONE SEALANT AROUND ALL PLUMBING FIXTURES THAT CONTACT CASEWORK, FLOORS, WALLS OR ANY OTHER HARD SURFACE.
- PIPING MATERIALS SHALL BE LISTED EQUIVALENT GRADE OR BETTER.
 

WATER INDOOR UNDER CONCRETE SLAB-	ANEALED COPPER TUBING
WATER INDOOR-	DRAWN COPPER PIPE
SEWER INDOOR UNDER CONCRETE SLAB-	SCH. 40 PVC
SEWER INDOOR-	SCH. 40 PVC
GAS INDOOR-	CARBON STEEL AND PRE-SLEEVED CSST
GAS OUTDOOR-	COATED/PROTECTED CARBON STEEL AND POLYETHYLENE
- DO NOT INSTALL PIPING DIRECTLY OVER ELECTRICAL PANELS. COORDINATE ROUTINGS WITH ELECTRICAL CONTRACTOR.
- TO PROHIBIT MOVEMENT, SECURE FIXTURE WATER SUPPLY PIPES TO BUILDING STRUCTURE.
- INSTALL HOSE BIBBS AND WALL HYDRANTS 18" ABOVE FINISHED FLOOR (U.N.O.). SECURE TO BUILDING STRUCTURE.
- PIPE SUPPORTS SHALL BE INSTALLED FOR SEISMIC DESIGN CATEGORY AS SPECIFIED IN THE KENTUCKY BUILDING CODE.
- DIELECTRIC CONNECTIONS SHALL BE USED AT ALL DISSIMILAR MATERIAL PIPING JOINTS.
- FURNISH AND INSTALL PRESSURE RELIEF VALVES ON WATER HEATING EQUIPMENT. ROUTE DRAIN LINE PER KENTUCKY PLUMBING CODE TO NEAREST, SUITABLE DRAIN.
- FABRICATE ARRESTORS FOR INDIVIDUAL FIXTURE SUPPLY LINES. ARRESTORS SHALL BE FABRICATED DURING "ROUGH-IN" WITH LINE SIZE PIPE, MINIMUM 6" LONG, AND PIPE CAP.
- USE EXTREME CAUTION WHEN EXCAVATING. UNDERGROUND UTILITIES ILLUSTRATED ARE APPROXIMATE AND ARE SHOWN TO ALERT CONTRACTOR TO THEIR PRESENCE. CONTRACTOR MUST LOCATE/VERIFY UTILITIES BY HAND TOOL EXCAVATION.
- ALL OUTSIDE CLEANOUTS SHALL TERMINATE AT GRADE AND BE EMBEDDED IN CONCRETE. FINISHED DIMENSIONS SHALL BE: 18"W x 18"L x 6"TK.



## ACCESSIBLE FIXTURE DETAILS

NO SCALE

LAVATORY

FLOOR MOUNT WATER CLOSET

**NOTE:**  
INSTALL PLUMBING GUARDS ON PIPING BELOW ACCESSIBLE LAV.

WATER COOLER

URINAL

**NOTE:**  
WATER CLOSET STYLE MAY VARY

FLOOR MOUNT WATER CLOSET

AGE GROUP (YEARS OLD)	A (INCHES)		B (INCHES)		C (INCHES)		D (INCHES)		E (INCHES)		F (INCHES)	
	MINIMUM	MAXIMUM	MINIMUM	MAXIMUM	MINIMUM	MAXIMUM	MINIMUM	MAXIMUM	MINIMUM	MAXIMUM	MINIMUM	MAXIMUM
13 AND UP	34 MIN.		36 MAX.		44 MIN.		17 MAX.		17	19	16	18

**NOTE:**  
INSTALL PLUMBING FIXTURES IN ACCORDANCE WITH ADOPTED EDITION OF ICC/ANSI A117.1 ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES.

## PLUMBING LEGEND

SYMBOL	DESCRIPTION
SS	SANITARY SEWER PIPING
---	COLD WATER PIPING
----	HOT WATER PIPING
----	VENT PIPING
G	GAS PIPING
BFP	BACKFLOW PREVENTER
FD	FLOOR DRAIN
FWH	FREEZE PROOF WALL HYDRANT
HB	HOSE BIBB
OWS	OIL / WATER SEPARATOR
TP	TRAP PRIMER
VTR	VENT THRU ROOF
WH	WATER HEATER
OR	OPEN RECEPTACLE
YCO	YARD CLEAN OUT
WCO	WALL CLEAN OUT
CCO	COMBINATION CLEAN OUT/TEST TEE
CO	CLEAN OUT
GLP	GAS LAMP POST
TDS	TRENCH DRAIN SYSTEM
○	BALL VALVE
HN	DOUBLE CHECK VALVE BACKFLOW PREVENTER

## WATER HEATER SCHEDULE

MARK	MFG.	MODEL	TYPE	SERVICE OR LOCATION	TEMP. SETTING (DEC. F)	TEMP. RISE	RECOVERY		STORAGE CAPACITY (GALLONS)	NATURAL GAS			VOLTAGE/PHASE (V/PH)	REMARKS AND ACCESSORIES
							(GPH)	(GPM)		INPUT (BTU/H)	OUTPUT (BTU/H)	THERMAL EFF.		
WH-1	BOSCH	1600P	INSTANTANEOUS	BLDG. A	105	45	-	0.5	NONE	117,000	91,260	78%	120/1	A,B
WH-2	RHEEM	RTG-64DVN	INSTANTANEOUS	BLDG. B	105	45	-	0.4	NONE	150,000	123,000	82%	120/1	A,B
WH-3	RHEEM	RTG-64DVN	INSTANTANEOUS	BLDG. B WASH BAY	105	45	-	0.4	NONE	150,000	123,000	82%	120/1	A,B

- REMARKS AND ACCESSORIES:**
- DIRECT VENTING (SEALED COMBUSTION) REQUIRED
  - FURNISH WITH CONCENTRIC VENT KIT; SEE DRAWINGS FOR CONFIGURATION REQUIRED

## TEMPERATURE MAINTENANCE CABLE NOTES

- DOMESTIC HOT WATER LINES SHALL RECEIVE TEMPERATURE MAINTENANCE CABLE BY ELECTRICAL CONTRACTOR. ALL LINES LOCATED ABOVE CEILING SHALL BE TRACED TO WITHIN TEN (10) LINEAR FEET OF EACH PLUMBING FIXTURE STOP VALVE. PLUMBING CONTRACTOR SHALL INSTALL LINES FOR ACCESSIBILITY TO THIS POINT. POWER KITS AND/OR CONTROLLERS SHALL BE CONCEALED ABOVE CEILINGS. COORDINATE INSTALLATION WITH ELECTRICAL CONTRACTOR AND INSULATION CONTRACTOR.
- DESIGNATED 110° HOT WATER SYSTEMS**  
UL-LISTED ELECTRIC SELF-REGULATING HEATING CABLE SYSTEM WITH COMPONENTS FOR MAINTAINING DOMESTIC HOT WATER TEMPERATURE WILL BE INSTALLED BY THE ELECTRICAL CONTRACTOR. THIS SYSTEM SHALL BE INSTALLED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS. PLUMBER CONTRACTOR SHALL VERIFY CONTROLLERS ARE SET TO MAINTAIN 110° F WATER.

500 SOUTH 17th STREET - PADUCAH, KENTUCKY 42002-0120  
PHONE - 270.444.9274 FAX - 270.443.1904  
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BENTON GAS SYSTEM

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DATE  
10/01/10

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