

PLUMBING SPECIFICATIONS

CODES AND PERMITS: ALL WORK TO BE DONE IN ACCORDANCE WITH APPLICABLE LOCAL AND STATE CODES. PERMIT AND CONNECTION FEES TO BE PAID BY CONTRACTORS AS REQUIRED.

WARRANTY: WORK AND MATERIALS TO BE WARRANTED FOR ONE (1) YEAR AFTER PROJECT COMPLETION.

DOMESTIC WATER:
INTERIOR ABOVE SLAB - TYPE L HARD-DRAWN COPPER WITH SOLDERED JOINTS. WHERE ACCEPTABLE TO LOCAL AUTHORITIES, CONTRACTOR MAY USE CROSSLINKED POLYETHYLENE (PEX) PIPING AND COLD-EXPANSION MEMORY FITTINGS IN INTERIOR CONCEALED LOCATIONS.

BELOW SLAB - TYPE L SOFT-DRAWN COPPER WITHOUT JOINTS IN SIZES 1-1/4" AND SMALLER, AND SILVER-BRAZED JOINTS IN SIZES 1-1/2" AND LARGER. WHERE ACCEPTABLE TO LOCAL AUTHORITIES, CONTRACTOR MAY USE CROSSLINKED POLYETHYLENE (PEX) PIPING AND COLD-EXPANSION MEMORY FITTINGS.

CORROSION PROTECTION - IN BURIED LOCATIONS AND BELOW SLAB-ON-GRADE, COPPER PIPING TO BE INSTALLED IN CONTINUOUS PLASTIC SLEEVES, EQUAL TO IPS CORP. "WTS" OR DATEY "38707 - PIPE GUARD". LARGER PIPES TO BE INSTALLED IN TEXCEL "SIGMA-POLY BLUE" PVC HOSE.

INSULATION: INSULATE DOMESTIC WATER LINES ABOVE GRADE WITH HD RIGID FIBERGLASS WITH ASJ COVERING. THICKNESS AS FOLLOWS: 1/2" AT CW LINES AND 1" AT HW, HWR.

WATER HAMMER CONTROL:
PROVIDE SHOCK ARRESTORS, SIZED AND APPLIED IN ACCORDANCE WITH PDI-WH201, IN THE DOMESTIC CW AND HW PIPING AT EACH PLUMBING FIXTURE OR FIXTURE GROUP, AND AT EACH AUTOMATICALLY OPERATED CONTROL OR SHUTOFF VALVE.

ARRESTORS TO BE PISTON TYPE, WITH TRIPLE "O" RINGS, SEALED PRECHARGED ASSEMBLY, AND SOLDERED CONNECTIONS, SUITABLE FOR MOUNTING IN VERTICAL OR HORIZONTAL POSITION. INSTALL UNITS IN TEES, AND ORIENT IN DIRECT PATH OF SHOCK WAVE TO ALLOW MAXIMUM EFFECTIVENESS. LOCATE ARRESTORS IN WALL CAVITY WITHIN 24" OF LAST FIXTURE CONNECTION TO SUPPLY LINE.

FIRE PROTECTION SYSTEM:
NOT APPLICABLE

SANITARY WASTE AND VENT (DWV) SYSTEM:
ALL LOCATIONS - SERVICE WEIGHT OR NO-HUB CAST IRON WITH GASKETED JOINTS, OR WHERE LOCAL CODES PERMIT, DWV (SCH. 40) PVC WITH SOLVENT-WELDED JOINTS.

NOTE: PLASTIC PIPING IS NOT ACCEPTABLE IN CEILING PLENUM (USED FOR RETURN AIR).

FLASHING:
WATERPROOF ALL VENT ROOF PENETRATIONS (VTR) WITH PREFABRICATED FLASHING ASSEMBLY, CONSISTING OF HEAVY GAUGE GALVANIZED STEEL BASE PLATE AND RIBBED FLEXIBLE BOOT. ASSEMBLY TO BE CONFIGURED TO ACCOMMODATE ROOF SLOPE AND OUTSIDE DIAMETER(OD) OF VENT PIPE.

AT METAL OR MEMBRANE ROOFS, COORDINATE FLASHING REQUIREMENTS WITH ROOF SYSTEM VENDOR.

PLUMBING FIXTURES, TRIM, AND ACCESSORIES:
PROVIDE FIXTURES, TRIM, CARRIERS AND ACCESSORIES AS SCHEDULED AND REQUIRED FOR COMPLETE INSTALLATION AND PROPER OPERATION.

FAUCETS FOR LAVATORIES AND SINKS TO HAVE WASHERLESS CARTRIDGES WITH POSITIVE POSITIONING SHUTOFF AGAINST METALLIC OR CERAMIC STOPS.

SUPPLIES TO BE NPS BRASS. EXPOSED FINISHED METAL PARTS TO BE CHROMIUM PLATED, ROUGH BODIED PARTS TO BE HEAVILY NICKEL OR CHROMIUM PLATED.

TRAPS FOR LAVATORIES AND SINKS TO BE CHROMIUM-PLATED "P" TRAPS, EACH WITH ADJUSTABLE CAST BRASS BODY, CLEANOUT, SLIP JOINT INLET AND 17 GAUGE TUBING OUTLET WITH WALL ESCUTCHEON.

ESCUTCHEONS ON SUPPLIES AND WASTE TO BE CAST BRASS, WITH POLISHED CHROME FINISH.

CAULK AROUND WALL AND FLOOR MOUNTED FIXTURES WITH FINE CONTINUOUS BEAD OF WHITE SILICON SEALANT.

SUPPLIES TO EACH FIXTURE OR PIECE OF EQUIPMENT TO BE VALVED FOR SERVICE.

ALL DRAINS CONNECTED TO SANITARY SEWER SYSTEM TO BE TRAPPED AND VENTED.

CONNECTION BETWEEN CHINA AND SOIL PIPE FLANGES SHALL BE MADE GAS AND WATER-TIGHT WITH ONE-PIECE MOLDED GASKET.

AT FIXTURE CW AND HW ROUGH IN, PROVIDE ELBOWS WITH DROP EARS SECURELY FASTENED TO WOOD BLOCKING WITH SCREWS.

PROVIDE CLEANOUTS PER CODE AND WHERE INDICATED AS FOLLOWS:
FLOOR: ZURN ZN-1400, WALL: ZURN Z-1441 WITH STAINLESS STEEL COVER
EXTERIOR: ZURN ZN-1400-HD WITH RECESSED PLUG AND 12"X 12"X 4" DEEP CONCRETE PAD.

TRAP PRIMERS:
WHERE ACCEPTABLE TO LOCAL AHJ, "TRAP-GUARD" BY PRO-SET, "MI-GARD" BY MIAB, OR "SURE-SEAL" BY RECTORSEAL, MAY BE USED IN LIEU OF TRAP PRIMERS.

HANDICAPPED PROVISIONS:
HEIGHTS OF FIXTURES DESIGNATED FOR HANDICAPPED USE SHALL BE IN ACCORDANCE WITH ANSI A117.1-80, ADA, OR LOCALLY APPLICABLE HANDICAP CODES.

OFFSET P-TRAPS TO MAXIMIZE KNEE SPACE AT SINKS AND LAVATORIES. INSULATE EXPOSED WATER AND WASTE PIPING WITH PREFABRICATED INSULATING ASSEMBLY, EQUAL TO "LAV GUARD" BY TRUEBRO.

FAUCET TRIM FOR SINKS AND LAVATORIES TO HAVE BLANK HANDLE (OR BE SINGLE-LEVER TYPE), SUITABLE FOR HANDICAPPED USE. SINKS FOR HANDICAPPED USE TO HAVE A MAXIMUM DEPTH OF 6-1/2".

FLUSH OPERATOR DEVICE FOR WATER CLOSERS TO BE LOCATED ON SIDE OF FIXTURE WITH WIDE DIMENSION IN TOILET STALL ENCLOSURE.

FLUSH VALVE FOR URINALS TO BE LOCATED NO MORE THAN 48" AFF. URINAL LIPS TO EXTEND AT LEAST 14" FROM WALL.

FIRESTOPPING AND FIRE/SMOKE CAULKING:
PENETRATIONS OF FIRE-RATED BUILDING COMPONENTS BY PIPES, TUBING, DUCTWORK, RACEWAYS, AND WIRING/CABLING SHALL BE PROVIDED WITH APPROPRIATE FIRE BARRIERS. METHODS AND MATERIALS SHALL BE UL LISTED AND SHALL CONFORM TO THE REQUIREMENTS OF ASTM-E814/UL1479.

HOLES AND OPENINGS SHALL BE SEALED WITH INTUMESCENT CAULK/SEALANT, EQUAL TO STI "LCI SEALANT", HCF-25, OR DOW CORNING #2000. INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

WHERE PLASTIC PIPES OR TUBING PENETRATE RATED ASSEMBLIES, PROVIDE INTUMESCENT COLLARS, EQUAL TO STI "SERIES SSC OR LCC FIRESTOP COLLARS".

WHERE UL LISTED SYSTEMS (XHEZ THROUGH-PENETRATION FIRESTOP SYSTEMS) ARE REQUIRED, USE COMPONENTS AS MANUFACTURED BY: 3M, DOW CORNING, HILTI, METALINES, STI, HEVI-DUTY NELSON, OR JOHNS-MANVILLE.

PENETRATIONS OF SMOKE-TIGHT BUILDING COMPONENTS BY PIPES, TUBING, DUCTWORK, RACEWAYS, AND WIRING/CABLING SHALL BE PROVIDED WITH APPROPRIATE SMOKE-TIGHT CAULKING. METHODS AND MATERIALS SHALL BE UL LISTED AND SHALL CONFORM TO THE REQUIREMENTS OF APPLICABLE ASTM/UL STANDARDS.

PLUMBING SYMBOLS	
—	SANITARY WASTE
---	SANITARY VENT
----	DOMESTIC COLD WATER
----	DOMESTIC HOT WATER
⊗	SHUTOFF VALVE (OR COCK)
⊘	CHECK VALVE
↔	BALANCING VALVE
— —	UNION OR FLANGED CONNECTION
□ SA	SHOCK ARRESTOR (FOR DOMESTIC WATER)
VTR	VENT THROUGH ROOF
CO	CLEANOUT
WCO	WALL CLEANOUT
HD	HUB DRAIN
PRV	PRESSURE REDUCING VALVE
BFP	BACKFLOW PREVENTER
BV	BLENDING VALVE
CW	COLD WATER
HW	HOT WATER
FD	FLOOR DRAIN (REFER TO PLBG. FIXT. SCHED.)
FS	FLOOR SINK (REFER TO PLBG. FIXT. SCHED.)
WF	WALL FAUCET (REFER TO PLBG. FIXT. SCHED.)
HB	HOSE BIBB (REFER TO PLBG. FIXT. SCHED.)
AFF	ABOVE FINISHED FLOOR
⊕	CONNECT NEW TO EXISTING CONNECTION POINT

PLUMBING FIXTURE SCHEDULE				
TYPE	DESCRIPTION	MANUFACTURER AND CATALOG NO.	ACCESSORIES AND REMARKS	CONNECTION SIZES
WC	WATER CLOSET TANK TYPE (HET) FLOOR MOUNT ADA COMPLIANT	KOHLER "CIMARRON" K-3609 OR K-3609-RA NOTE T	TRIM: TANK ACCESSORIES (CLASS 5), K-7637 SUPPLY SEAT: CHURCH 295C 2.125" GLAZED TRAP VITREOUS CHINA, SIPHON JET, ELONGATED BOWL, OPEN FRONT WHITE SEAT, 1.28 GAL FLUSH, 16.5" RIM	CW: 1/2" WD: 3"
LA	LAVATORY WALL HUNG ADA COMPLIANT	KOHLER "CHESAPEAKE" K-1729 W/ "BVA" NOTE H,FC	TRIM: SYMMONS 5-20-0 DRAIN/TRAP: K-9000/K-7715 SUPPLIES: K-7607 CARRIER: ZURN Z-1231 20"X18" VITREOUS CHINA, FIXED DRAIN, SINGLE HANDLE TRIM, WASHERLESS	CW: 1/2" HW: 1/2" WD: 1 1/4"
S2	COUNTER SINK 1-COMPARTMENT	ELKAY/DAYTON D-12522	TRIM: LK35, ZURN Z-831-B4 C.P.B., P-TRAP, ANGLE STOPS 25"X22", TYPE 302 S.S., 22 GAUGE 3-PHASE MILLING	CW: 1/2" HW: 1/2" WD: 1 1/2"
BVA	BLENDING VALVE THERMOSTATIC SINGLE FIXTURE	SYMMONS 7-210-CK	SERVICE VALVES, UNION/COUPLINGS AND ALL CONNECTIONS, 3 GPM @ 100 PSI DR	CW: 3/8" HW: 3/8" BW: 3/8"

- NOTES, GENERAL:
- LISTED MANUFACTURERS AND MODEL NUMBERS ARE TO INDICATE QUALITY STANDARDS. EQUAL PRODUCTS BY OTHER MANUFACTURERS ARE ACCEPTABLE.
 - IN JURISDICTIONS WITH STANDARDS/CODES FOR HIGH EFFICIENCY PLUMBING FIXTURES, COMPONENTS SHALL COMPLY WITH APPLICABLE LIMITATIONS FOR GALLONS PER FLUSH (GPF) AND FLOW RATES (GPM).
 - FIXTURES USED FOR PUBLIC HAND WASHING TO HAVE THERMOSTATIC BLENDING VALVE, EQUAL TO SYMMONS 5-210-CK OR LAHLER TM-1070. MOUNT VALVE ABOVE HANDICAPPED ZONE SO DEVICE IS NOT REQUIRED TO BE INDICATED. SET TEMPERATURE AT 110 DEG OR AS DIRECTED.

- NOTES, REFERENCED:
- PROVIDE PROTECTIVE INSULATING COVERS FOR WATER AND DRAIN PIPING AND OFFSET TAILPIECE, AT HANDICAPPED FIXTURES PER ADA. INSULATING COVERS FOR PIPING MAY BE OMITTED WHERE PIPING IS PROTECTED BY MILLWORK.
 - IN LIEU OF CARRIER, WALL-PLATE FURNISHING WITH FIXTURE SHALL BE USED. PROVIDE 2X10 WOOD BLOCKING BETWEEN WALL STUDS.
 - FLUSH ACTUATOR TO BE LOCATED ON WIDE SIDE OF TOILET ENCLOSURE NO MORE THAN 44" AFF PER ADA.



EXPIRATION DATE:

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P2.01

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