

PLUMBING FIXTURE SCHEDULE

NUMBER	FIXTURE	MANUFACTURER	TYPE & MODEL NO.	TRIM NO.	SUPPLY PIPE NO.	TRAP NO.	SUPPORT NO.	PIPE SIZES					DFU	WSFU	DESCRIPTION
								TRAP	WASTE	VENT	CW	HW			
P-1	WATER CLOSET, PUBLIC/STAFF	AM STANDARD	KINGSTON K-4325	SLOAN ROYAL 111	--	--	J.R. SMITH 0210Y-M54	INTEGRAL	4"	2"	1"	-	6	6	ELONGATED WALL MOUNTED FLUSH VALVE TOILET WITH TOP SPUD, AM STANDARD 2257.101 OPEN-FRONT ELONGATED SEAT 5905.100. PROVIDE WITH SLOAN EXPOSED FLUSHOMETER #ROYAL SMOOTH 1111, 1.28 GPF, HARD WIRED, WATERSENSE LISTED. INSTALL ADA WATER CLOSETS TO MEET ADA HEIGHT REQUIREMENTS. COLOR TO BE WHITE
P-2	LAVATORY	AM STANDARD	LUCERNE 0355.012	SLOAN ETF-880 -4-B-BDT	-	-	J.R. SMITH 0700	1-1/2"	1-1/2"	1-1/2"	½"	½"	2	1	WALL HUNG LAVATORY WITH CONCEALED ARM SUPPORT. PROVIDE WITH SLOAN FAUCET 0.5 GPM. INSTALL ADA LAVATORIES TO MEET ADA HEIGHT REQUIREMENTS. PROVIDE BELOW DECK THERMOSTATIC MIXING VALVE, LIMIT OUTLET TEMPERATURE TO 110°F MAX. COLOR TO BE SELECTED BY OWNER. PROVIDE EL-248 120VAC/24 VAC, 50/60 HZ (40VA) BOX MOUNT TRANSFORMER.
P-3	SHOWER	BESTBATH	4LSS4038A5B	SYMMONS ALLURA 4703	--	--	-	2"	2"	1-1/2"	½"	½"	2	2	PROVIDE GRAB BAR AND SEAT. SEE ARCHITECTURAL PLANS FOR ADDITIONAL ACCESSORIES
P-4	SERVICE/SHOP SINK	AM STANDARD	7695.008	8340.243	--	P-TRAP	FLOOR MOUNTED	2"	2"	1-1/2"	½"	½"	2	2	PROVIDE AM STANDARD 'AKRON' #7695.008 w/ FAUCET 8340.243 WITH VACUUM BREAKER. TRAP 7798.020 2" P-TRAP
P-5	KITCHENETTE SINK	AM STANDARD	22SB.6151511 S.075	-	--	P-TRAP	TOP MOUNTED	1-1/2"	1-1/2"	1-1/2"	½"	½"	2	2	PROVIDE AM STANDARD "COLONY 15x15" STAINLESS STEEL ADA SINGLE BOWL w/ FAUCET ____
P-6	MOP SINK	MUSTEE	65M	63.600A	--	P-TRAP	FLOOR MOUNTED	2"	2"	1-1/2"	½"	½"	2	2	PROVIDE WITH MUSTEE SERVICE SINK FAUCET #63.600A, HOSE AND HOSE HOLDER #65.700, MOP HANGER #65.600, DUREGUARD WALL GUARD #67.2436, DRAIN SEAL #65.311
P-7	3" FLOOR DRAIN	J.R. SMITH	2021S-HP050-CP	--	--	P-TRAP	--	3"	3"	2"	--	--	5	--	SHALLOW TRAP FLOOR DRAIN WITH HINGED GRATE, TRAP PRIMER CONNECTION & CHROME PLATED STRAINER TOP.
P-8	HOSE BIBB	J.R. SMITH	5509QT	--	--	--	--	--	--	--	¾"	--	--	1	NON-FREEZE WALL HYDRANT WITH INTEGRAL VACUUM BREAKER AND STAINLESS STEEL BOX. PROVIDE SHUT-OFF VALVE INSIDE BUILDING.

PLUMBING GENERAL NOTES

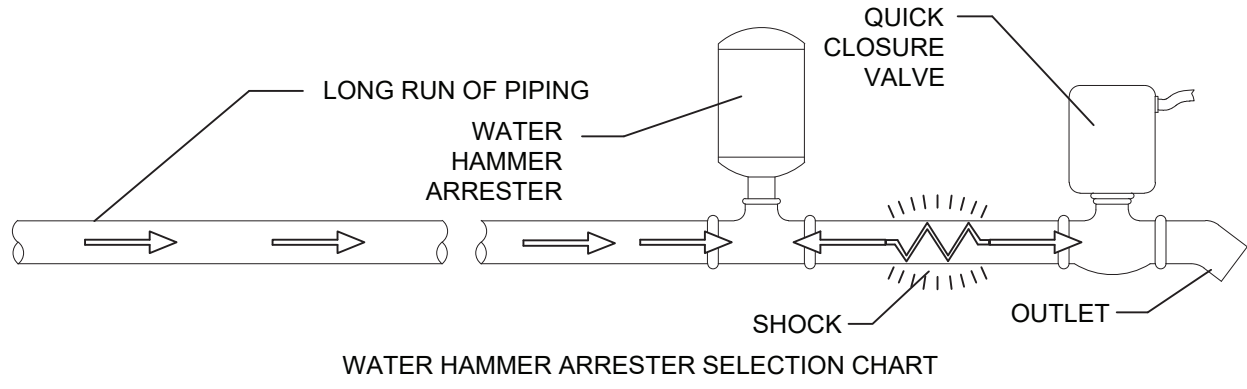
- PLUMBING CONTRACTOR SHALL VISIT JOB SITE AND NOTE ALL EXISTING CONDITIONS TO BE MET BEFORE SUBMITTING BID. THE DRAWINGS ARE GENERALLY DIAGRAMMATIC AND SHOW THE INTENT OF WORK.
- PLUMBING CONTRACTOR TO PROCURE AND PAY FOR ALL NECESSARY PERMITS AND LICENSES REQUIRED TO CARRY OUT WORK, OBTAIN AND PAY FOR ALL NECESSARY CERTIFICATES OF APPROVAL FOR WORK, AND PAY FOR ANY LEGAL FEES.
- INSTALLATION TO COMPLY WITH ALL FEDERAL, STATE, MUNICIPAL LAWS, AND ALL CODES, RULES, ORDINANCES, AND REGULATIONS OF HEALTH, PUBLIC OR OTHER AUTHORITIES CONTROLLING OR LIMITING THE METHODS, MATERIALS TO BE USED OR ACTIONS OF THOSE EMPLOYED IN THE WORK
- PLUMBING CONTRACTOR TO PROVIDE TEMPORARY WATER. OWNER TO PAY FOR WATER CONSUMED.
- PIPE INSTALLATION AS FOLLOWS:
 - RUN ALL PIPING CONCEALED IN CEILINGS, WALLS AND PARTITIONS
 - ALL PIPING TO BE PITCHED TO LOW POINTS WITH DRAIN VALVES, SOIL, STORM, AND WASTE TO BE SLOPED @ 1/8" PER FOOT MIN.
 - SLEEVE PIPING THAT PASSES THROUGH WALLS
 - FLASH ALL PIPING THAT PASSES THROUGH ROOF.
 - PROVIDE ROD HANGERS WITH CLEVIS PIPE SUPPORT PER NATIONAL PLUMBING CODE 2015.
 - PROVIDE VALVES REQUIRED FOR COMPLETE CONTROL OF ALL SYSTEMS. STOP VALVES FOR SUPPLY TO ALL FIXTURES TO BE CHROME PLATED WHERE EXPOSED.
 - PROVIDE ACCESS DOORS FOR ALL CONCEALED VALVES AND CLEANOUTS
- PLUMBING CONTRACTOR TO PERFORM ALL TESTING OF THE PLUMBING WORK IN THE PRESENCE OF THE OWNER. PROVIDE ALL APPARATUS, TEMPORARY CONNECTIONS, AND OTHER REQUIREMENTS TO DO SUCH TESTS. ANY DEFECTS, LEAKS, ETC. WILL BE REPLACED AND TEST REPEATED UNTIL TEST REQUIREMENTS ARE MET.
- SUBMIT SHOP DRAWINGS OF ALL WORK TO BE DONE, EQUIPMENT, AND FIXTURES FURNISHED.
- PLUMBING CONTRACTOR TO CARRY OUT PERIODIC CLEANING TO REMOVE RUBBISH ETC., TO LEAVE PREMISES FREE FROM DEBRIS, AND DISCARDED MATERIALS. AFTER INSTALLATION, CLEAN FIXTURES, FITTINGS, ETC. AND LEAVE READY FOR USE.
- ALL PLUMBING FIXTURES ARE INCLUDED IN ADD ALTERNATE #1. ALL UNDER SLAB AND IN SLAB PIPING THAT WOULD SUPPORT FUTURE INSTALLATION OF THESE FIXTURES SHALL BE INCLUDED IN THE BASE BID.

PLUMBING SYSTEM MATERIALS

- PIPING:**
- WASTE & VENT PIPING BELOW GRADE SHALL BE SERVICE WEIGHT CAST IRON PIPE WITH GASKETS. ABOVE GRADE SHALL BE NO-HUB SERVICE WEIGHT CAST IRON PIPE WITH STAINLESS STEEL SHIELDED COUPLINGS. HOT AND COLD WATER PIPING ABOVE GRADE SHALL BE TYPE "L" COPPER WITH WROUGHT COPPER SOLDERED FITTINGS (LEAD-FREE SOLDER). BELOW GRADE SHALL BE TYPE "K" COPPER WITH NO FITTINGS.
- INSULATION:**
- ALL HOT AND COLD WATER PIPING SHALL BE INSULATED WITH 1" THICK FIBERGLASS PIPE INSULATION WITH ASJ JACKET.
- CLEANOUTS:**
- FLOOR: J.R. SMITH #4020 W/ ROUND NICKEL-BRONZE TOP.
WALL: J.R. SMITH #4532 W/ ROUND STAINLESS STEEL TOP.
- LAVATORY PROTECTIVE ENCLOSURE:**
- FOR ALL LAVATORIES, INSTALL PROTECTIVE ENCLOSURE "LAV SHIELD" W/ TAMPER-RESISTANT SCREWS BY TRUEBRO OR APPROVED EQUAL.

SIZING & PLACEMENT OF WATER HAMMER ARRESTER (WHA)

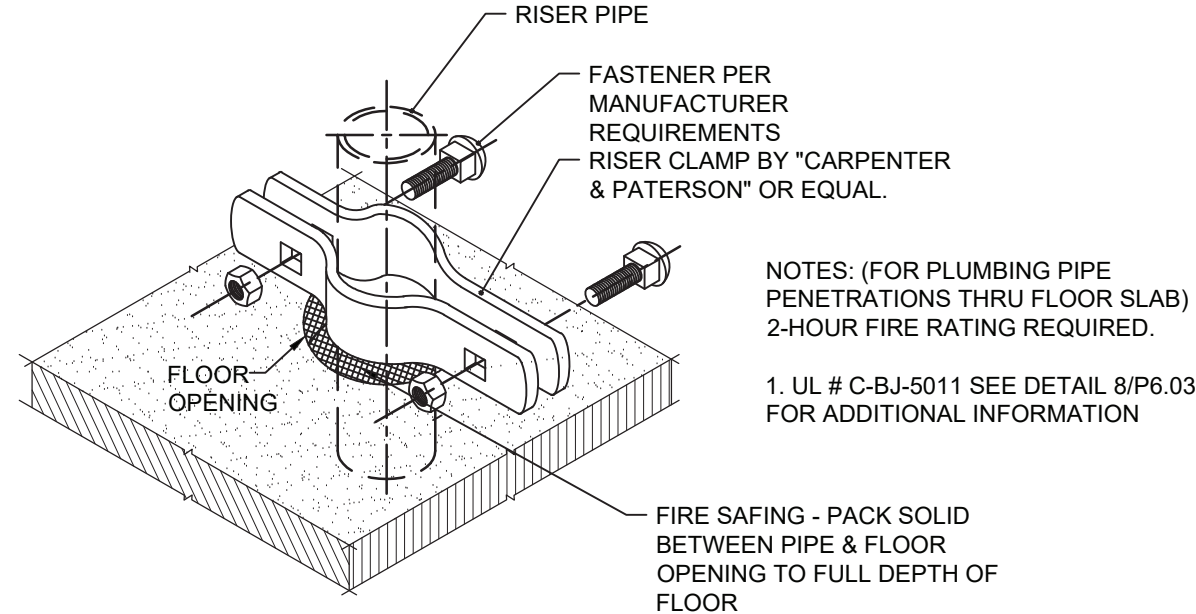
THE FOLLOWING CHART INDICATES THE SIZE OF THE WATER ARRESTER REQUIRED FOR LONG RUNS OF PIPING WHICH FEED A SINGLE REMOTE FIXTURE OR APPLIANCE. THE WATER ARRESTER UNIT SHALL BE SIZED BY USING THE CHART AND LOCATED AS CLOSE TO THE POINT OF QUICK CLOSURE AS POSSIBLE.



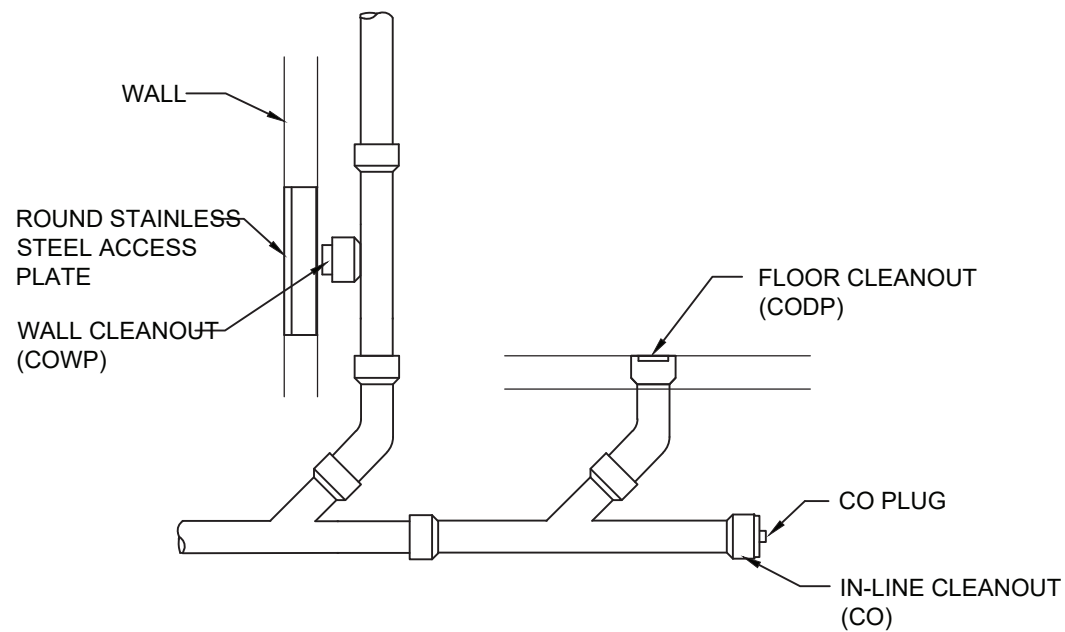
LENGTH OF PIPE	NOMINAL PIPE SIZE						
	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	
25'	5005	5005	5010	5020	5030	5040	
50'	5005	5010	5020	5030	5040	5050	
75'	5010	5020	5030	1-5005 1-5040	5050	1-5040 1-5050	
100'	5020	5030	5040	5050	1-5020 1-5050	2-5050	
125'	5020	5030	5050	1-5005 1-5050	1-5040 1-5050	1-5040 2-5050	
150'	5030	5040	5050	1-5030 1-5050	2-5050	3-5050	

NOTE: THE ABOVE CHART SHOWS LENGTHS OF RUN OF BRANCH PIPING. THE LENGTH OF RUN USED SHALL BE THE LENGTH OF PIPE FROM POINT OF VALVE CLOSURE TO A POINT OF RELIEF, SUCH AS LARGE PIPE RISER TWICE THE SIZE OF THE BRANCH LINE, MAIN LINE OR WATER TANK.

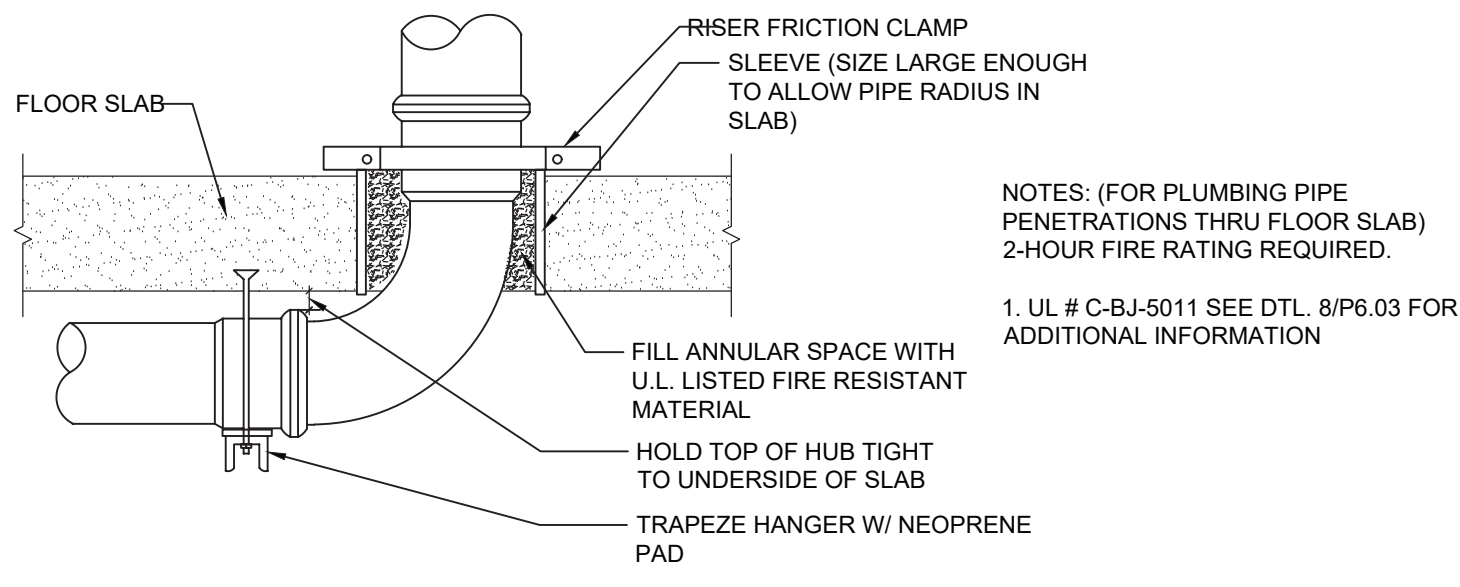
ALL SIZING RECOMMENDATIONS SHOWN ON THE ABOVE CHART ARE BASED ON AN OPERATING WATER PRESSURE OF 65 PSI OR UNDER AN AVERAGE VELOCITY BETWEEN 5 AND 10 FEET PER SECOND. IF OPERATING PRESSURE IS OVER 65 PSI USE THE NEXT LARGER WATER HAMMER ARRESTER UNIT. WHEN PRESSURE IS ANTICIPATED ABOVE 80 PSI A PRESSURE REDUCING VALVE IS REQUIRED.



NOTES: (FOR PLUMBING PIPE PENETRATIONS THRU FLOOR SLAB) 2-HOUR FIRE RATING REQUIRED.
1. UL # C-BJ-5011 SEE DETAIL 8/P6.03 FOR ADDITIONAL INFORMATION



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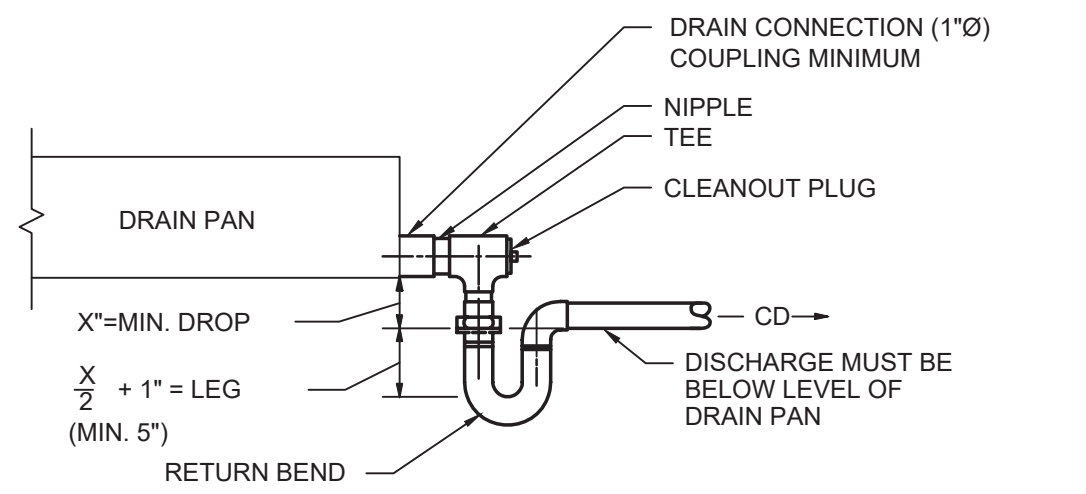
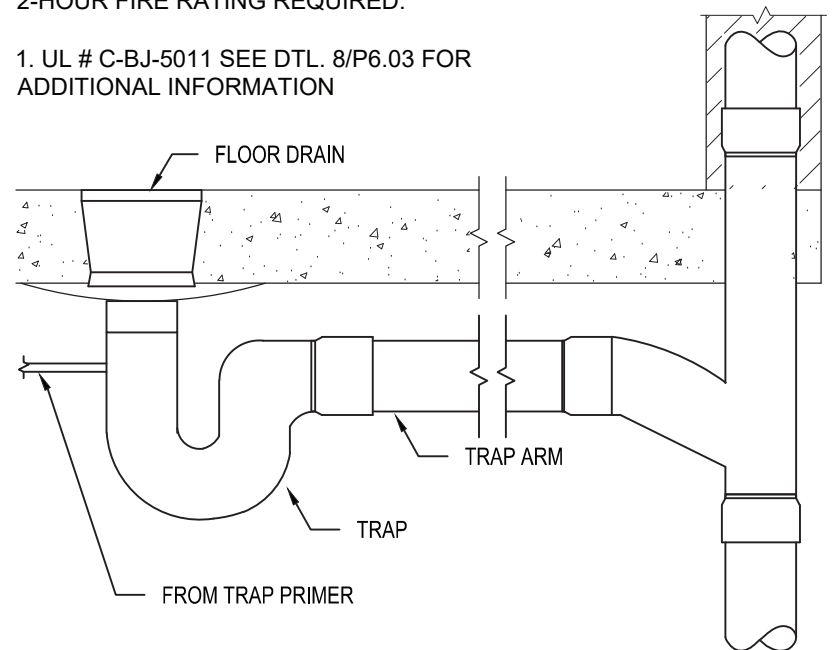
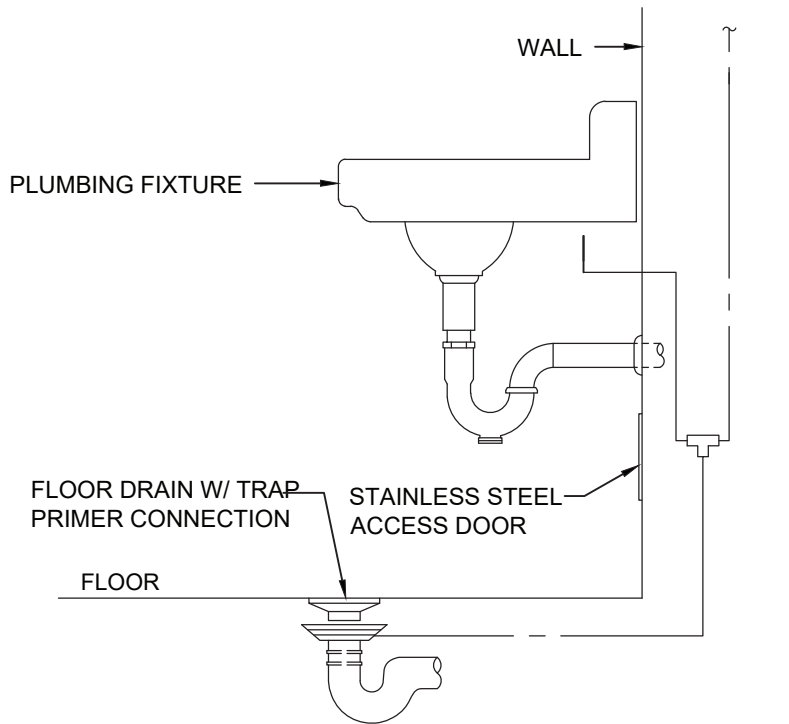


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PIPE RISER CLAMP

CLEANOUT DETAIL

BASE OF STACK DETAIL

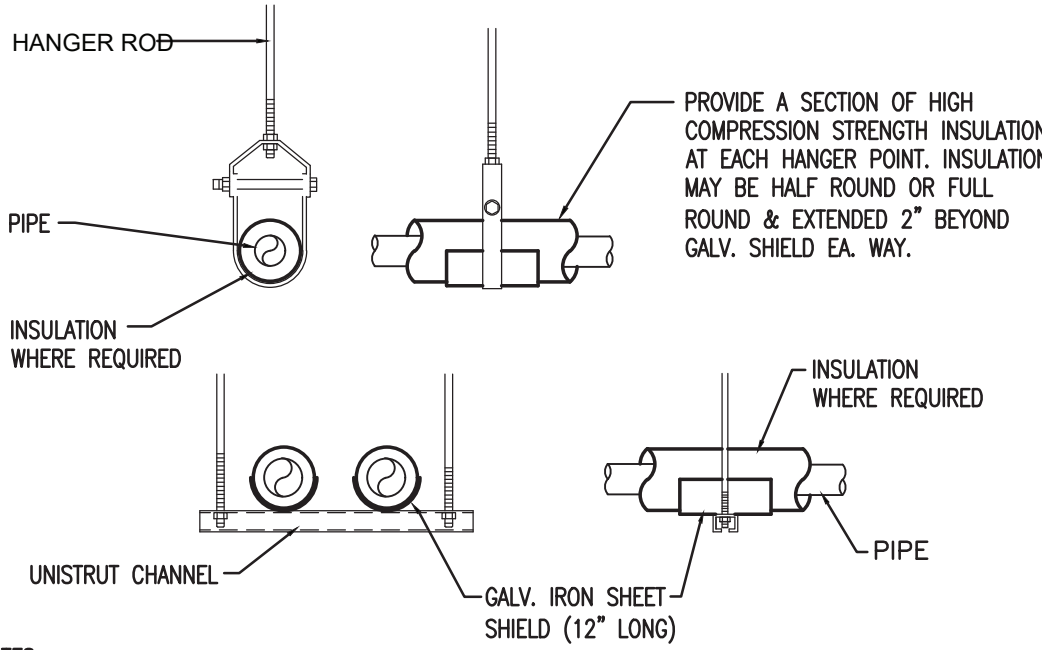


X = MIN. DROP
 $\frac{X}{2} + 1" = \text{LEG}$ (MIN. 5")
RETURN BEND
DISCHARGE MUST BE BELOW LEVEL OF DRAIN PAN
X = NEGATIVE INTERNAL STATIC PRESSURE AT FAN INLET.
NOTES:
1. ALLOW SUFFICIENT SPACE BELOW DRAIN PAN FOR TRAP
2. PITCH DRAIN FOR PROPER RUN - OFF.
3. MANUALLY PRIME FILL TRAP BEFORE STRTS UP TO FORM INITIAL DRAIN SEAL.
4. SUPPORT LENGHTY DRAIN LINES TO PREVENT SAG AND CONDENSATE OVERFLOW.

FLOOR DRAIN & TRAP PRIMER

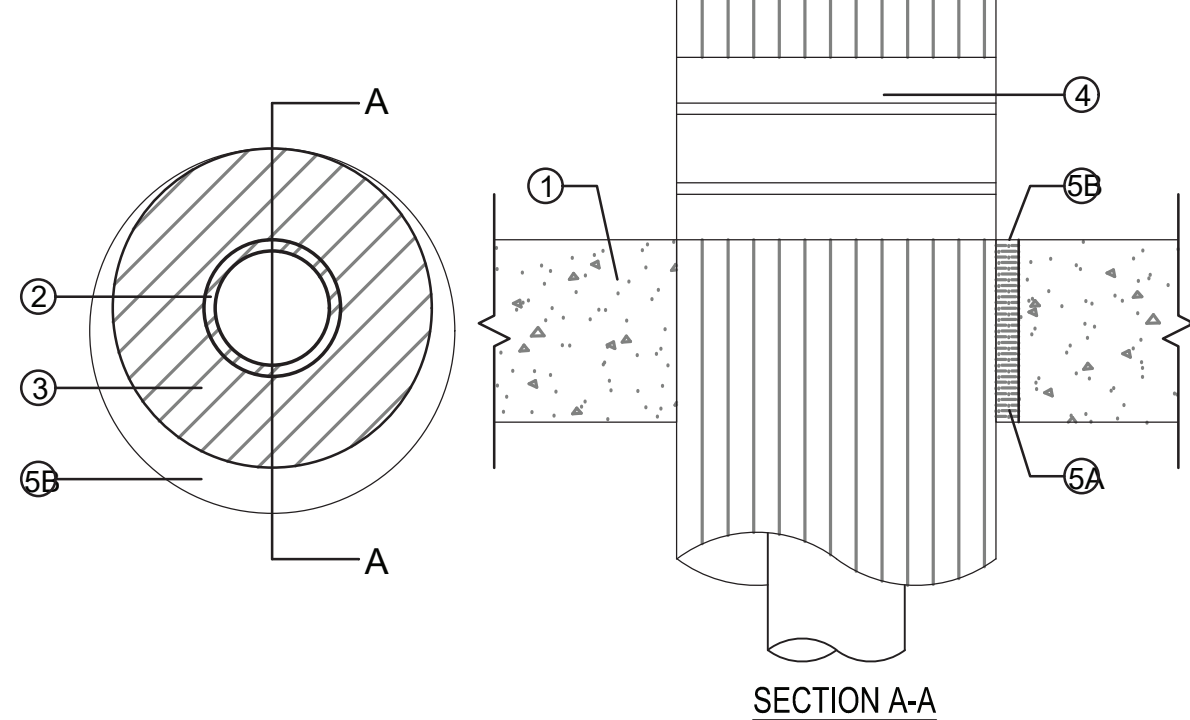
FLOOR DRAIN DETAIL

CONDENSATE DRAIN TRAP DETAIL

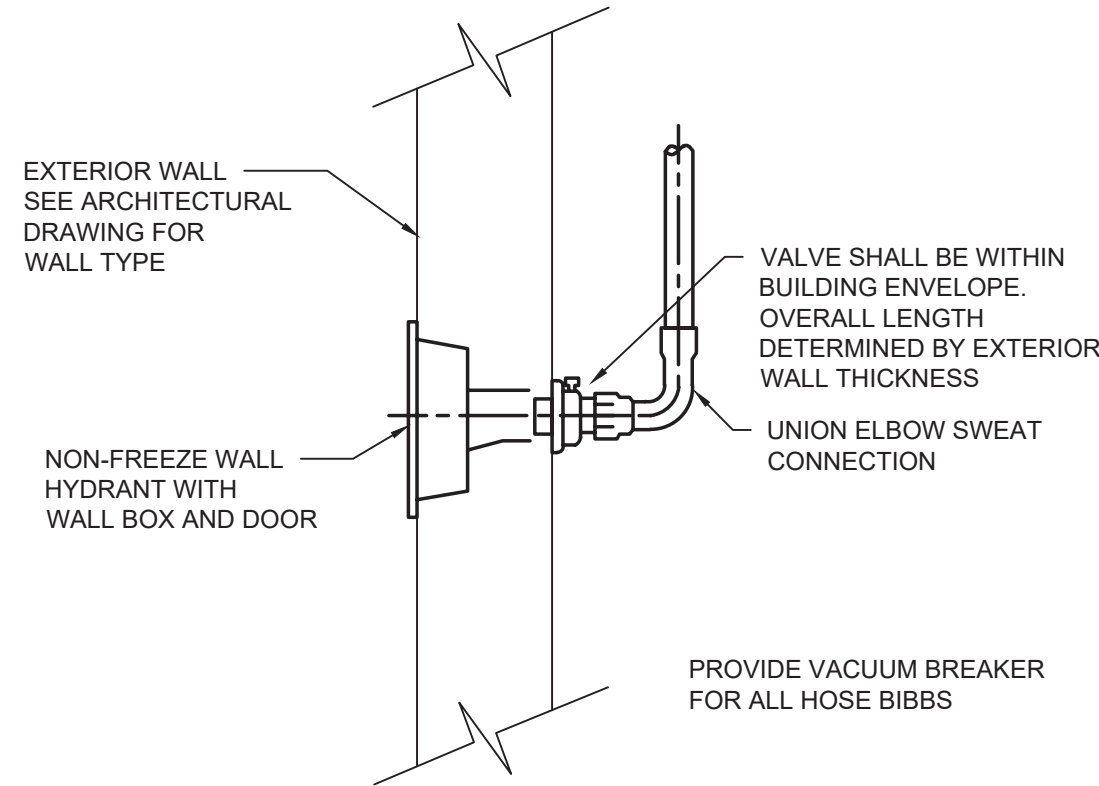


NOTES:
1. ATTACH SUPPORTS FOR ALL PIPING SUSPENDED FROM THE STEEL STRUCTURE TO THE TOP CORD OF JOISTS OR BEAMS.
2. PROVIDE COPPER OR PLASTIC COATED HANGERS FOR NON-INSULATED COPPER PIPE.

UL SYSTEM NO. C-BJ-5011



TYPICAL PIPE PENETRATION (ALL LOCATIONS)



WALL HYDRANT DETAIL

Revisions: