Last Update: July 1, 2009

A. Heating

1. Minimum winter temperature is 68 ºF. If no air conditioning is required this can be accomplished using exterior wall radiation.

B. Air Conditioning

1. Air conditioning is not required for general restrooms
2. If air-conditioned the design temperature is to be 76 ºF using constant volume with the supply airflow less than the exhaust

C. Ventilation

1. Do not operate the fan using the light switch.
2. If the restroom exhaust fans are to have a night time set back then take care to allow for ventilation during night janitorial services.
3. Restrooms should be exhausted from the side of the room opposite the air intake. In general follow the ASHRAE guidelines for air flow quantities (i.e. 50 CFM per urinal or water closet) but we expect no more than 8 minutes per air change (which is about 1 CFM per Ft2 of floor area with an 8' ceiling).

D. Plumbing

1. If metering faucets are used care should be taken to verify the run time required to get hot water at faucet discharge.
2. This is especially a concern in 'executive' washrooms. If the recirculation loop is too far from the faucet the water will never run long enough to get warm.
3. Restroom should have a floor drain

E. Fixtures

1. Our faucets are double lever 4" O.C. with ceramic cartridges.
2. At least one faucet per restroom is to be ADA compliant.
3. We use piston flush valves.
4. Because we use piston flush valves be aware of appropriate placement of water hammer arrestors.
5. We use wall hung, siphon jet, elongated bowl, flush-valve water closets for all main campus projects. Floor mounted tank type may be used in the off campus farm and support buildings. We mount flush valves 12" above the rim.
6. We use blowout, flush-valve urinals with integral side panels.

Comments:

E.3: Most designers are unaware of the advantages of piston valves; hence piston flush valves are not in their "standard" specifications. Piston valves are cheaper, take fluctuations larger in water pressure, handle dirty water better, and last longer with less maintenance.