**SECTION 714 COMPUTERIZED DRAINAGE DESIGN

714.1 Design of drainage system.**
The sizing, design and layout of the drainage system shall be permitted to be designed by *approved* computer design methods.  **714.2 Load on drainage system.**
The load shall be computed from the simultaneous or sequential discharge conditions from fixtures, appurtenances and appliances or the peak usage design condition.

**714.2.1 Fixture discharge profiles.**
The discharge profiles for flow rates versus time from fixtures and appliances shall be in accordance with the manufacturer’s specifications.

**714.3 Selections of drainage pipe sizes.**
Pipe shall be sized to prevent full-bore flow.

**714.3.1 Selecting pipe wall roughness.**
Pipe size calculations shall be conducted with the pipe wall roughness factor (ks), in accordance with the manufacturer’s specifications and as modified for aging roughness factors with deposits and corrosion.

**714.3.2 Slope of horizontal drainage piping.**
Horizontal drainage piping shall be designed and installed at slopes in accordance with Table 704.1.