SECTION 22 11 00 – FACILITY WATER DISTRIBUTION

PART 1 GENERAL

1.01 SECTION INCLUDES DESIGN GUIDELINES

A. GENERAL INFORMATION

1. Cal Poly owns and maintains the underground water distribution system throughout the campus.

B. DESIGN REQUIREMENTS

1. All back-flow preventers will be tested by a certified tester prior to the system being put in service.
2. Provide a domestic water pressure reducing valve and meter at each new building.
3. Provide a separate water meter and RP backflow preventer for irrigation at each new building.
4. Fire water should not be metered or reduced in pressure.
5. DCDA assemblies are required by Cal Poly and the County of San Luis Obispo.
6. For new buildings to be connected to the campus water system, the anticipated additional water demand should be identified early during preliminary planning. This water demand should be submitted to the Building Inspector and the Mechanical Engineer for Cal Poly Facilities Planning and Capital Projects.
7. Improvements to the campus system may be required to accommodate the additional demand. The Principal Engineer shall identify a suitable point of connection to the campus system and what system improvements may be necessary to accommodate the new building.

C. DESIGN CONDITIONS:

1. Water System Pressure: The water pressure assumed for system pipe sizing and design shall be the lower of the following:
   - 60 PSI
   - The actual system pressure.
2. Since the water pressure in the campus water mains varies throughout the campus depending on elevation within four water pressure zones, the Plumbing Designer should request the water pressure from the University's Representative for each project. The University's Representative will provide the known pressure at a given point (usually a fire hydrant). The Plumbing Designer will be responsible for determining the pressure at the point of use and should take into account...
account the change in elevation between the known reference point and the point of use.

END OF SECTION 22 11 00