

undisturbed and finished grade elevations, vertical elevation reference point and horizontal reference point. Surface elevations shall be given for all *soil borings*. Soil reports shall bear the signature of an approved soil tester.

**107.2.6 Energy Code Documentation.** For purposes of compliance with the Energy code, details on submittal documents shall include, but are not limited to, as applicable, insulation materials and their *R*-values; fenestration *U*-factors and SHGCs; area-weighted *U*-factor and SHGC calculations; mechanical system design criteria; mechanical and service water heating system and equipment types, sizes and efficiencies; economizer description; equipment and systems controls; fan motor horsepower (hp) and controls; duct sealing, duct and pipe insulation and location; lighting fixture schedule with wattage and control narrative; and air sealing details.

**107.2.7 Specifications for Private Sewage Disposal Systems.** For private sewage disposal systems, specifications shall include, as applicable, pumps and controls, dose volume, elevation differences (vertical lift), pipe friction loss, pump performance curve, pump model, and pump manufacturer.

Construction documents for a private sewerage disposal system which employs holding tanks shall also include the following:

- i. Service contract, as may be required by the Abu Dhabi Sewerage Services Company (ADSSC). The service contract shall include the frequency of pumping; either as scheduled or a call-for-service.
- ii. Maintenance program as required by Section 805.9 of the *Abu Dhabi International Private Sewage Disposal Code*.
- iii. As may be required by the Abu Dhabi Sewage Services Company (ADSSC), a financial guarantee in the form of a bond or assignment of funds. Such guarantee shall be not less than an amount equal to the service costs for a one (1) year period.

**107.2.8 Electrical System Additions and Alterations.** Where an *addition* or *alteration* is made to an existing electrical system, an electrical load calculation shall be prepared to determine if the existing electrical service has the capacity to serve the added load.

**107.2.9 Penetrations.** *Construction documents* shall indicate where all through penetrations will be made and shall indicate the materials and methods for maintaining required membranes, including product listing, and structural integrity, *fire-resistance rating* and *fireblocking*.

**107.2.10 Fuel Gas Systems.** In addition to construction documents typical of a fuel gas installation, the applicant shall submit a piping and instrumentation diagram (P&ID) in accordance with section 401.9 of the *Abu Dhabi International Fuel Gas Code* to the *building official* as part of the permit application.

**107.2.11 Maintenance Programs.** A maintenance program as required by Section 3401.2.1 of the *Abu Dhabi International Building Code* shall be submitted when required by the *building official*.