El Segundo Fire Department
Fire Prevention Division

Site Specific Geology For Sprinkler System Installation

PROVIDE THE FOLLOWING INFORMATION WITH YOUR SUBMITTAL:

I. In-Ground Pipe Information:

Soil Report

A. Indicate soil type used to determine building design:_____

B. Indicate the % of Relative Compaction:_____

C. Indicate Soil conditions that may be considered corrosive to metal pipe, fittings and structures:

_____

D. Indicate Horizontal bearing Strength of Soil, per NFPA 13, Table A-6-3.2 (b):_____

E. Indicate where this information originated; attach Soil Report, if available:_____

II. Aboveground Pipe:

Seismic Information

In order to determine the fire sprinkler systems earthquake brace loads, provide the following information, specific to the project, as derived from Chapter 16, of the 2001, California Building Code, Volume 2.

Seismic Zone Factor "Z":_____	(Table 16A-I)
Seismic Zone Map:_____	(Figure 16A-2)
Soil Profile Type:_____	(Table 16A-J) Attach soil report if available.
Near Source Factor (N_a):_____	(Table 16A-S).
Distance to Known Seismic Source:_____	(Table 16A-S).
Seismic Source Type:_____	(Table 16A-U).
Seismic Coefficient (C_a): _____	(Table 16A-Q).
Seismic Importance Factor (I_p): _____	(Table 16A-K).
Design for Total Lateral Force (F_p): _____	(Formula, Section 1632A.2).

III. Aboveground Pipe:

Roof Framing System

Provide a signed and stamped letter from the project structural engineer that references the building in question and attests to all of the following:

A. The project Structural Engineer has reviewed the sprinkler installation drawings.

B. The roof structural members can adequately support the weight of the water filled pipe plus 250 pounds, at each point of pipe support.

C. The structural support requirements of Section 6-2.1.3 of NFPA 13, 1999 Edition, and Chapter 16 of the California Building Code, Volume 2, 2001 Edition (Table 16A-O) have been met.

D. The earthquake lateral, longitudinal and horizontal brace loads generated from the fire sprinkler mains can be supported by the roof framing system.