

MONTECITO FIRE PROTECTION DISTRICT FIRE PROTECTION PLAN

Section 4a

WATER SUPPLY FOR FIRE PROTECTION

It is the policy of this Fire District to require adequate water supply as described within this standard to all proposed buildings constructed within the Fire District. Substantial reductions in the water supply required for effective fire protection are afforded to property owners within the District by means of automatic fire sprinkler installation (when required) and by the progressive application of firefighting foam technologies by the Fire District in its fire ground operations.

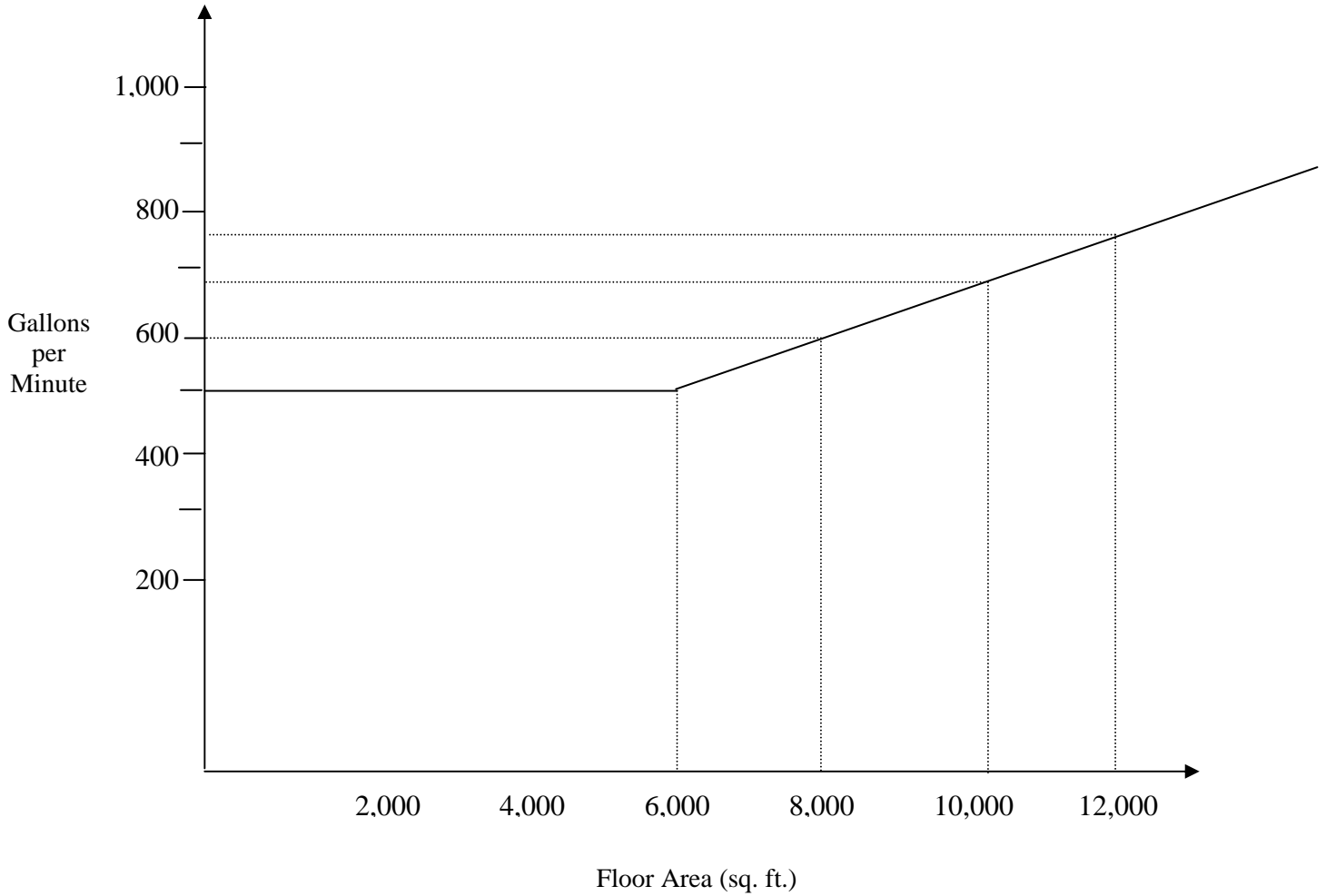
Water supply for fire protection is premised upon minimum available fire flows as stipulated in the Code. Through the implementation of firefighting foams the Fire District realizes the opportunity to effectively reduce such fire flows by fifty percent. Thus, required flow may be approximated by multiplying the square root of building's floor area by 13. Building floor area shall be defined as that area included within the surrounding exterior walls of a building exclusive of courtyards. Garages are to be considered as a part of the calculated building area. Detached buildings within thirty feet of one another which are located on the same parcel shall be considered a single building area. The Fire District will accept a further reduction in required fire flow of fifty percent when the building is improved with an automatic fire sprinkler system approved by the Fire District. However, in no case will the flow be less than 500 gallons per minute at twenty pounds per square inch residual pressure.

The required fire flows shall be from fire hydrants and water main extensions which meet all requirements of the water purveyor. Any proposed dwelling, residential addition, or structural replacement shall have sufficient hydrants to deliver the required fire flow within **500 feet** fire apparatus travel distance of the principal entrance *or access point* to the structure; (Refer to Figure 4a-2). This travel distance may be extended up to a maximum of **700 feet** for sprinklered single family residential construction. For any non-residential occupancy, the required fire flow shall be delivered from hydrants located within a **300 foot** travel distance of the principal entrance. A minimum clearance of three feet in all directions shall be maintained around all required hydrants.

The Fire District shall receive a letter from the water purveyor which verifies financial arrangements for hydrant and main installations when such improvements are required within fourteen days of fire protection certificate issuance. The work needed to provide this required water supply shall be installed, operational, and have Fire District approval prior to structural framing.

Flow testing may be required by the Fire District prior to the acceptance of required hydrants. Flow determinations will be developed by the water purveyor upon request of the project applicant. Resulting flows must be consistent with the flow criteria stipulated in this Standard. Upon the successful completion of this testing, or the waiver thereof by the Fire Chief, the contractor may then proceed with structural framing.

Figure 4a-1



Gallons per Minute (GPM)=Floor Area divided by 13

- a) 50% further flow reduction for fire sprinklers shown in graph above.
- b) Minimum required flow of 500 GPM @20 psi residual