

# ALLIED EARTH TECHNOLOGY

4926 LA CUENTA DRIVE SUITE #102A  
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ROBERT CHAN P E

January 21 2008

Alpine Fire Protection District  
1364 Tavern Road  
Alpine CA 91901

ER 06-14-054

RECEIVED  
JAN 20 2010

DEPARTMENT OF PLANNING  
AND LAND USE

Attn Fire Marshall

Subject Fire Protection Plan – Short Form for TPM 21044 Four Parcel Tentative Parcel Map with Remainder Parcel Located on the South Side of Alpine Boulevard West of Louise Drive Alpine area San Diego County California (APN 403 331 10 00)

This letter is written in response to a request from the Alpine Fire Protection District for a Short Form Fire Protection Plan consistent with California Fire Code Article 86 to address

**Location** Subject property is situated on the south side of Alpine Boulevard approximately 150 feet west of the intersection with Louise Drive The property abuts and is readily accessible from Alpine Boulevard in the community of Alpine San Diego County California

**Topography** – The topography of the site may be described as sloping down at a relatively uniform gradient on the order of 12 to 15 percent in a northerly direction towards Alpine Boulevard Elevations vary from a low of 1948 feet msl along the front northwest corner to a high of 2006 feet msl in the rear southwest corner

**Geology** The site is similar to most parts of the Alpine community and is underlain by granitic rocks of the southern California batholith The granitic rocks disintegrate into silty sands and fine to coarse sands which provide a stable foundation to the proposed improvements There are no aspects of the on site geology which will affect fire access/evacuation

**Flammable Vegetation** The site is covered with a dense growth of chaparral shrubs and weeds All vegetation will be cleared and grubbed prior to commencement of grading of the site

**Climate** – The climate of the Alpine area of the County of San Diego is typical southern California climate with hot dry summers and a rainy season in the winter months from October to March. Average temperature is 71 with low of 57. Rainfall is light.

Along with the following fire related issues

1 **Water Supply**

The property is within the Padre Dam Municipal Water District and within 1 500 feet of water district waterlines

Hydrants are required along fire access roadways as determined by the Fire Marshal to meet operational needs at intersections at cul de sacs and at intervals based on parcel size and County Fire Code Table 903.4.2.B. Minimum fire flow in wildland urban interface is 2 500 GPM with 20 psi residual.

2 **Fire Access Roads**

**Deadends**

a Dead ends serving more than two single family dwellings shall have a hammerhead turnaround approved by the Alpine Fire Protection District.

**Width**

a All fire access roads including driveways must be improved to a minimum 16' width all weather surface suitable for travel by 75 000 lb fire apparatus. Fire access roads serving more than two single family dwellings shall be a minimum 24' all weather surface suitable for travel by 75 000 lb fire apparatus. The 24' wide access road meets this criteria.

**Grade**

a Grades will be generally less than 15% and at steepest are 20%. No existing or proposed fire access road exceeds 20%.

**Surface**

a All roads must be installed to the standards specified in Section I.M of the County of San Diego Off Street Parking Design Manual. Surfacing material minimum standard is based on % grade.

i From 0% to 10% slope all weather surface

ii From 11% to 14% slope paving must be at least 2" asphaltic concrete

iii From 15% to 20% paving must be minimum 3" asphaltic concrete or (for residential driveways) 3 ½" Portland cement concrete with deep broom finish perpendicular to the direction of travel to enhance traction.

Access road grades vary from 4.7% to 20% and will be paved with 3" asphaltic concrete.

**Maintenance**

- a Individual property owners are responsible for maintaining driveways gates and signs on their own parcel and in compliance with fire codes Road easements including gates and signs within the project must also be maintained in compliance with fire codes in perpetuity

The Home Owners Association will be responsible for on going road maintenance to be funded by all property owners and monitored by a representative selected by the Home Owners Association Upon completion of project a Private Road Maintenance Agreement will be recorded with the County of San Diego

The organization responsible for road maintenance cannot be dissolved or unfunded

Funding obligation must be shared by all project owners

Responsibility to participate conveys with property transfer

Failure to maintain in compliance with fire codes subjects owners to potential fines and enforced abatement by the fire agency or the County with charges including administrative costs and penalties liened against the property

3 **Building fire-resistance and ignition** Both Basic and Enhanced construction requirements per County Building and Fire Codes will be employed for all exterior elements including roofs eave exterior walls doors windows decks etc

4 **Fire Protection Systems** All dwellings and attached garages will have residential fire sprinklers per County Fire Code Section 1003.2

5 **Fire Protection Equipment** (e.g. extinguishers) Although portable fire extinguishers are recommended none are required for this project

6 **Defensible Space** A minimum 100 foot Fuel Management Zone will be established and maintained around each structure per County Fire Code Appendix II A Section 16 and 17

Building pads must be located so that 100 foot clearance is achieved on the subject parcel Clearing is not authorized beyond property lines

7 **Vegetation Management** Prescribed Defensible Open Space will be maintained on at least an annual basis or more often as needed Planting within this region must be from an approved fire resistance planting material list (list maintained by County of San Diego)

Individual property owners are responsible for maintaining their own parcels in compliance with fire codes Parcels of Open Space Easements road easements

and similar land uses within the project must also have vegetation maintained in a fire safe manner in perpetuity

Since there are no Open Space Easements on this project no entity for on going vegetation maintenance is required

8 Fire Behavior Computer Modeling Computer Fire Behavior Model is not required for this project per Alpine Fire Protection District Fire Marshal

Person Preparing this Report --

By *Robert Chan*

Date *01/29/08*

Printed Name ROBERT CHAN

Title RCE 24613

Name of Property Owner

By *Malik Mekany*

Date *2 5 08*

Printed Name MALIK MEKANY

Title owner





# Alpine Fire Protection District

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February 11 2008

Fire Marshal  
Department of Planning and Land Use  
5201 Ruffin Rd Suite B  
San Diego CA 92123 1666

Attn Paul Dawson Fire Marshal

Ref TPM 21044  
APN 403 331 10 Mc Kany  
Short form FPP Approved

The short form Fire Protection Plan for the above project has been reviewed and approved by the Alpine Fire Protection District

All requirements for this project have been addressed and approved including the hammerhead turn around in lieu of a cul de sac at the end of the fire access road

Please contact me if you have questions or comments regarding this project

Yours in Fire Safety

Mary Tedesco  
Fire Marshal

cc Paul Dawson  
Robert Chan Allied Earth Technology