

**BLUE JAY BAY** 





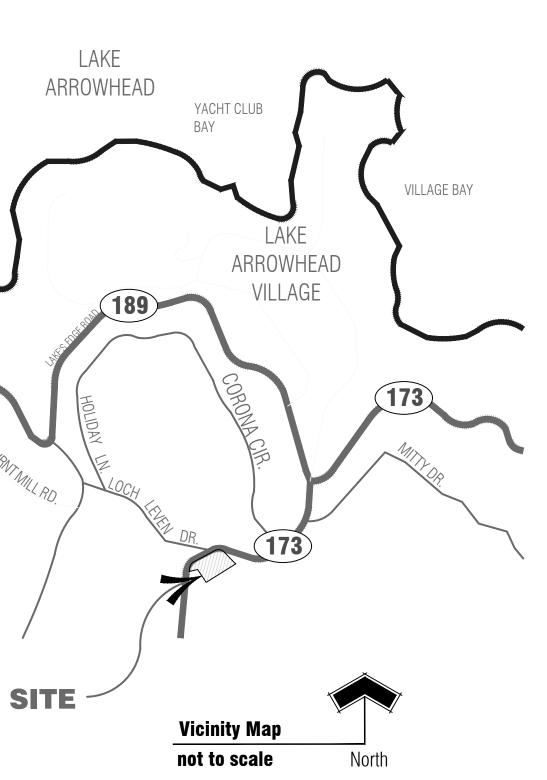
- OF THE PROPERTY.

- STORE AND CARWASH STRUCTURE.
- FIRE HYDRANT IS NOT AVAILABLE ON-SITE.

# **Sheet Index**

Title Sheet Irrigation Plan Planting Plan Irrigation Details & Water Calculations Planting Details Irrigation Specifications Planting Specifications





• THE PROJECT IS A SERVICE STATION, CONVENIENCE STORE AND CAR WASH AND IS LOCATED ON HIGHWAY 173 SOUTHEAST OF LOCH LEVEN ROAD, SECTION 21, TOWNSHIP 2 NORTH AND RANGE 3 WEST OF THE HARRISON MOUNTAIN U.S. GEOLOGICAL SURVEY (USGS) 7.5' TOPOGRAPHIC MAP, SAN BERNARDINO BASELINE AND MERIDIAN.

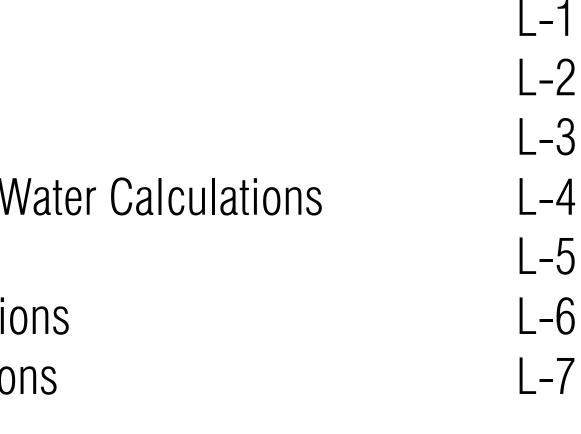
 THE LOT IS BASICALY FLAT WITH A SMALL STAND OF APPROXIMATELY 20 MATURE TREES OF VARYING SIZES CONSISTING OF PONDEROSA PINE (PINUS PONDEROSA)SUGAR PINE (PINUS LAMBERTIANA), WHITE FIR (ABIES CONCOLOR), BLACK OAK (QUERCUS KELLOGGII), INCENSE CEDAR (CALOCEDRUS DECURRENS) AND CALIFORNIA LAUREL (UMBELLULARIA CALIFORNICA). ALONG THE SOUTHERN BORDER. OPEN HERBACEOUS AND DISTURBED HABITAT THAT MAKES UP THE REST

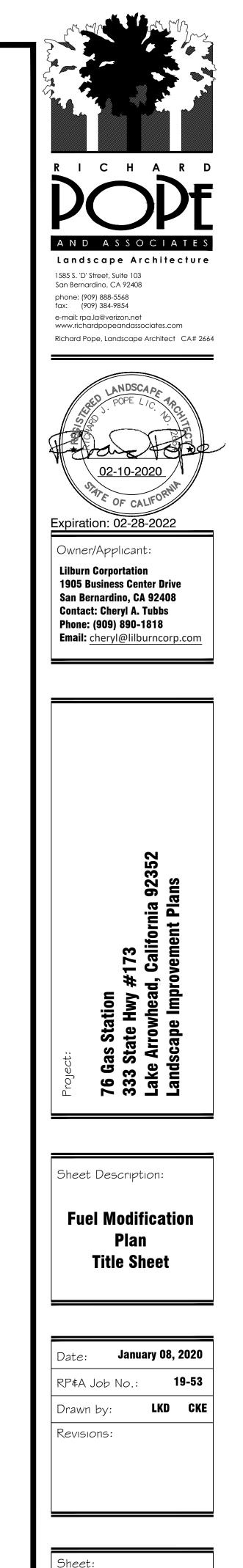
TREES TO BE RETAINED AND LOW HANGING BRANCHES REMOVED PER PLAN

TWO FIRE HYDRANTS EXIST NEAR THE PROPERTY. ONE APPROXIMATELY 250' FROM WESTERLY BOUNDARY ALONG HWY 173 AND THE OTHER APPROXIMATELY 650' FROM THE SE CORNER OF THE PROPERTY ALONG HWY 173

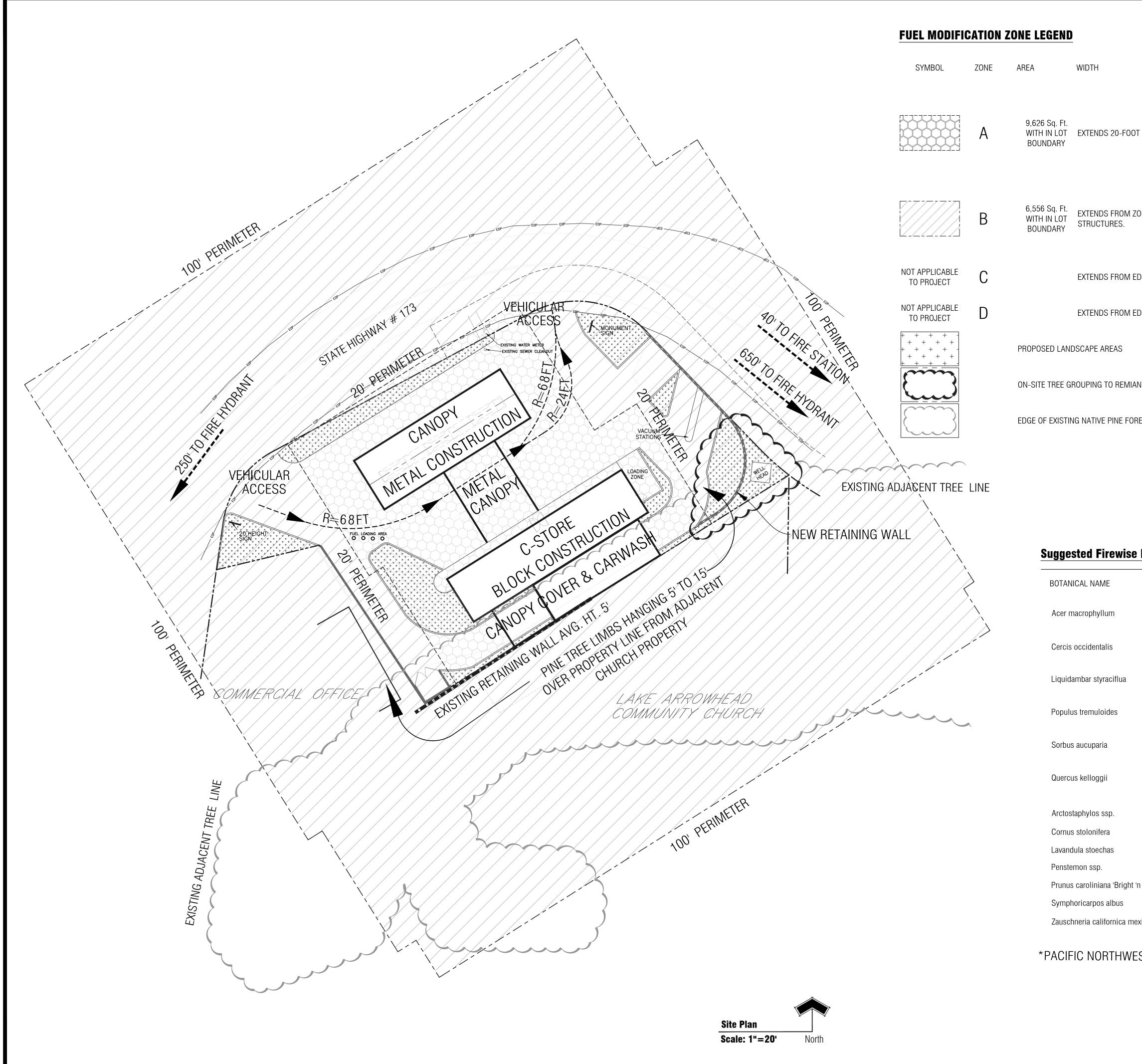
SAN BERNARDINO COUNTY FIRE DEPARTMENT STATION 91 IS LOCATED APPROXIMATELY 40' SW ALONG HWY 173.

PROPOSED BUILDINGS INCLUDE A METAL CANOPY STRUCTURE, A CONCRETE BLOCK CONSTRUCTION CONVENIENCE





**FM-1** 



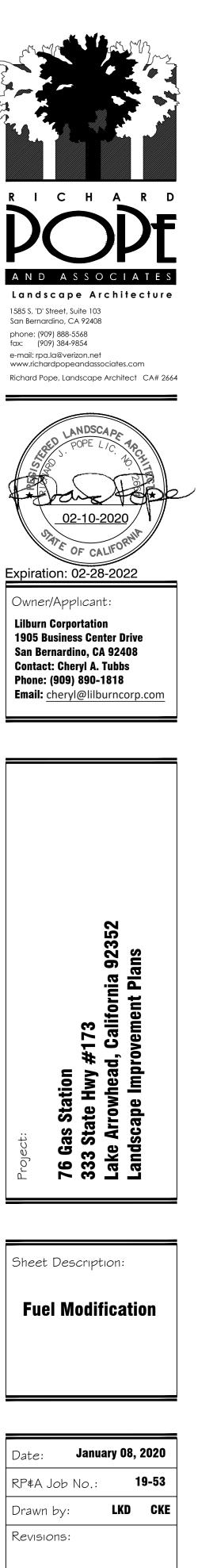
	DESCRIPTION - SEE SHEET FM-3 FOR MORE INFORMATION
OOT FROM STRUCTURES.	20-FOOT WIDE IRRIGATED AREA OF LOW GROWING PLANTS WITH HIGH MOISTURE CONTENT IMMEDIATELY AROUND STRUCTURES KEPT FREE OF FINE RECEPTIVE FUELS WHERE EMBERS CAN IGNITE.
M ZONE A TO 100 FEET FROM	MINIMUM 50 FT ZONE OF NATURAL GRADE WITH PERMANENT IRRIGATION. APPROVED PLANTINGS OR 50% OF NATURAL VEGETATION REMOVED.
VI EDGE OF ZONE B TO 200 FEET .	MINIMUM 50 FT NON-IRRIGATED ZONE WITH 50% OF NATURAL VEGETATION REMOVED.
M EDGE OF ZONE C TO 200 FEET .	MINIMUM 50 FT NON-IRRIGATED ZONE WITH 30% OF NATURAL VEGETATION REMOVED.
MIAN	

EDGE OF EXISTING NATIVE PINE FOREST - NOT WITH IN LOT BOUNDARY

### Suggested Firewise Plant Legend for Proposed Landscape Areas\*

	COMMON NAME	WUCOLS IV WATER USAGE	INTENDED MATURE SIZE (H x W)
I	Big Leafed Maple	High	35' H, Ø 35'
	Western Redbud	Low	15' H, Ø15'
flua	American Sweetgum	Mod	50' H, Ø 35'
S	Quaking Aspen	High	30' H, Ø 15'
	Mountain Ash	High	25' H, Ø20'
	California Black Oak	Low	40' H, Ø 35'
	Manzanita	Low	5' H, Ø 6'
	Red Stem Dogwood	High	3' H, Ø 3'
	Spanish Lavender	Low	3' H, Ø 3'
	Penstemon	Low	2' H, Ø 2'
Bright 'n Tight'	Carolina Cherry Laurel	Mod	12' H, Ø 12'
DUS	Snowberry	Low	5' H, Ø 5'
nica mexicana	California Fuschia	Low	3' H, Ø 3'

\*PACIFIC NORTHWEST FIREWISE EXTENSION PUBLICATION



Sheet: **FM-2** 

# UNDESIRABLE PLANT SPECIES

PLANTS WITH THESE CHARACTERISTICS SHALL NOT BE PLANTED IN ANY OF THE FUEL MODIFICATION ZONES. SHOULD THESE SPECIES ALREADY EXIST WITHIN THESE AREAS, THEY SHALL BE REMOVED BECAUSE OF THE POTENTIAL THREAT THEY POSE TO ANY STRUCTURES. THEY ARE REFERRED TO AS TARGET SPECIES SINCE THEIR COMPLETE REMOVAL IS A CRITICAL PART OF HAZARD REDUCTION. THESE FIRE-PRONE PLANT SPECIES INCLUDE (BUT ARE NOT LIMITED TO):

**BOTANICAL NAME:** Cynara cardunculus **Ricinus communis** Cirsium vulgare Brassica nigra Silybum marianum Sacsola austails Nicotiana bigelevil Lactuca serriola Conyza canadensis Heterothaca grandiflora Anthemix cotula Urtica urens Cardaria draba Brassica rapa Adenostoma fasciculatum Adenostoma sparsifolium Cortaderia selloana Artemisia californica Eriogonum fasciculatum Salvia mellifera Pinus species Cupressus species Eucalyptus species Juniperus species

**COMMON NAME: Artichoke Thistle Castor Bean Plant** Wild Artichoke **Black Mustard** Milk Thistle **Russian Thistle** Indian Tobacco Prickly Lettuce Horseweed **Telegraph Plant** Mayweed **Burning Nettle** Noary Cress/ Perennial Peppergrass Yellow/ Field Mustard Chamise **Red Shanks** Pampas Grass California Sagebrush **Common Buckwheat Black Sage** Pine Cypress Eucalyptus Juniper

ALSO SEE RANCHO CUCAMONGA LIST OF PROHIBITED PLANTS.

#### PLANT REMOVAL METHODOLOGY:

ALL TARGET SPECIES ARE TO BE COMPLETELY REMOVED FROM SITE AND DISPOSED OF PROPERLY. REMOVAL INCLUDES TRUNKS, BRANCHES, LEAVES, FLOWERS, SEED PODS, ROOTBALL AND SURFACE ROOTS. DO NOT USE ANY OF THIS DEBRIS FOR MULCH. CARE SHOULD BE TAKEN NOT TO DISTURB ROOT SYSTEMS OF ANY ADJACENT DESIRABLE PLANTS. WORK IS TO BE DONE MANUALLY AS MUCH AS FEASIBLY POSSIBLE TO AVOID EROSION BY HEAVY EQUIPMENT. AFTER REMOVAL OF SPECIES. LEVEL AND MANUALLY COMPACT SOIL. RE-SEED AREA WITH APPROVED SEED MIX AND MULCH WITH APPROVED MULCH.

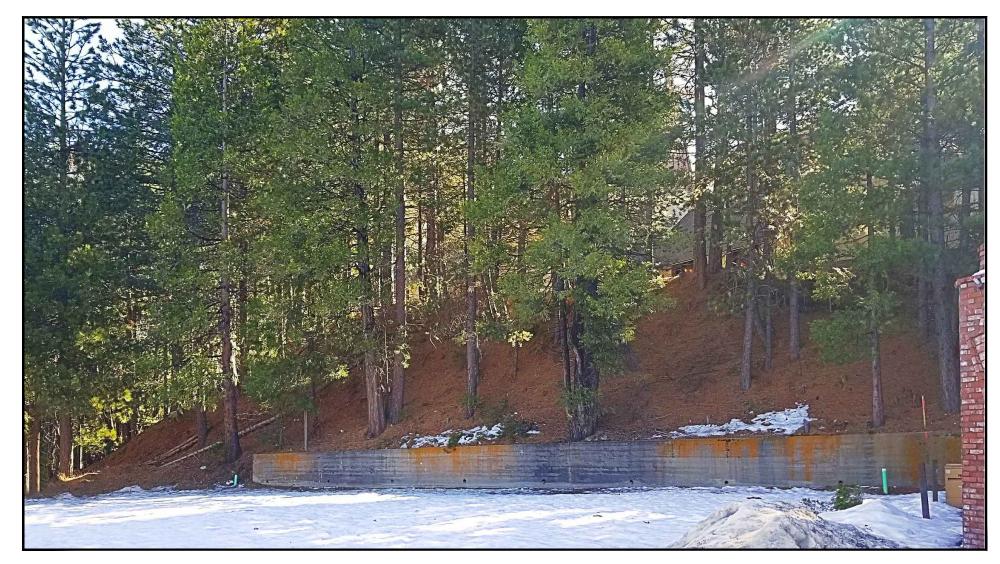
### **ZONE A - IRRIGATED STRUCTURE SETBACK ZONE**

THE PURPOSE OF THE SETBACK ZONE IS TO PROVIDE A DEFENSIBLE SPACE FOR FIRE SUPPRESSION FORCES AND TO PROTECT STRUCTURES FROM RADIANT AND CONVECTIVE HEAT. IN NO CASE SHALL ZONE A BE LESS THAN A 20-FOOT MINIMUM WIDTH. THE ENTIRE ZONE IS TO BE LOCATED ON A LEVEL, GRADED AREA AT THE TOP OR BASE OF THE SLOPE.

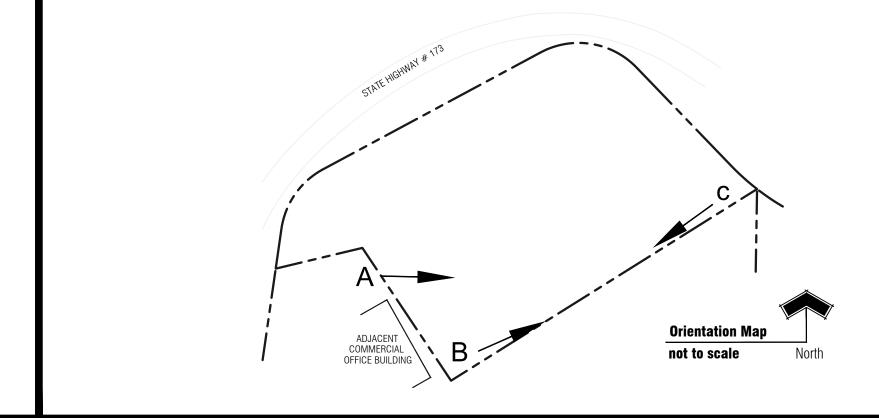
IF ZONE A IS LOCATED WITHIN THE LOT CONTAINING THE PROTECTED STRUCTURE AND ANOTHER ENTITY IS MAINTAINING THE B-D ZONES. IT SHALL BE LOCATED AT THE MOST DISTAL LEVEL 20 FEET PRIOR TO THE BEGINNING OF THE SLOPE. IF ZONE A IS LOCATED OUTSIDE OF THE LOT CONTAINING THE PROTECTED STRUCTURE, IT SHALL BEGIN AT THE LOT PROPERTY LINE. THE LATTER CONDITION IS PREFERRED AS IT ALLOWS FOR COMBUSTIBLE CONSTRUCTION WITHIN PRIVATELY OWNED INDIVIDUAL LOTS. TYPICALLY. ZONE A WILL NOT BE APPROVED WHEN PROPOSED MORE THAN 100 FEET FROM THE PROTECTED STRUCTURE. ZONE A MAY INCORPORATE TRAILS, ROADWAYS, AND OTHER LEVEL NONCOMBUSTIBLE SURFACES THAT CREATE DEFENSIBLE SPACE FOR FIRE CREWS HEAT REDUCTION BETWEEN THE PROTECTED STRUCTURE AND THE FIRE.

#### **ZONE A - SPECIFIC MAINTENANCE REQUIREMENTS:**

- AUTOMATIC IRRIGATION SYSTEMS TO MAINTAIN HEALTHY VEGETATION WITH HIGH MOISTURE CONTENT AND BE REGULARLY IRRIGATED.
- PRUNING OF FOLIAGE TO REDUCE FUEL LOAD, MAINTAIN VERTICAL CONTINUITY, AND REMOVAL OF PLANT LITTER AND DEAD WOOD IN ACCORDANCE WITH TREE AND TREE-FORM SHRUB PRUNING DETAIL.
- COMPLETE REMOVAL OF UNDESIRABLE PLANT SPECIES. THERE IS ALSO MINIMAL C. ALLOWANCE FOR RETENTION OF SELECTED NATIVE VEGETATION.
- D. PLANTS IN THIS ZONE SHALL BE HIGHLY FIRE RESISTANT AND SELECTED FROM THE SBCF APPROVED PLANT LIST FOR THE SETBACK ZONE AND GIVEN GEOGRAPHICAL AREA.
- TREE SPECIES WITHIN ZONE A ARE NOT ALLOWED WITHIN 10 FEET OF COMBUSTIBLE STRUCTURES (MEASURED FROM THE EDGE OF A FULL GROWTH CROWN).
- F. MAINTENANCE INCLUDES THINNING AND REMOVAL OF OVER-GROWTH, REPLACEMENT OF DEAD/ DYING FIRE RESISTANT PLANTINGS, AND MAINTENANCE OF THE OPERATION OF THE **IRRIGATION SYSTEM.**
- DEVICES THAT BURN SOLID FUELS ARE NOT PERMITTED IN ANY FUEL MODIFICATION ZONE. G.
- H. NO COMBUSTIBLE CONSTRUCTION SHALL BE ALLOWED WITHIN ZONE A.



VIEW A: FORESTED SLOPE LOOKING SOUTH EAST FROM LOT LINE OF COMMERCIAL OFFICE BUILDING.





RETAINING WALL.

# **ZONE B - IRRIGATED ZONE**

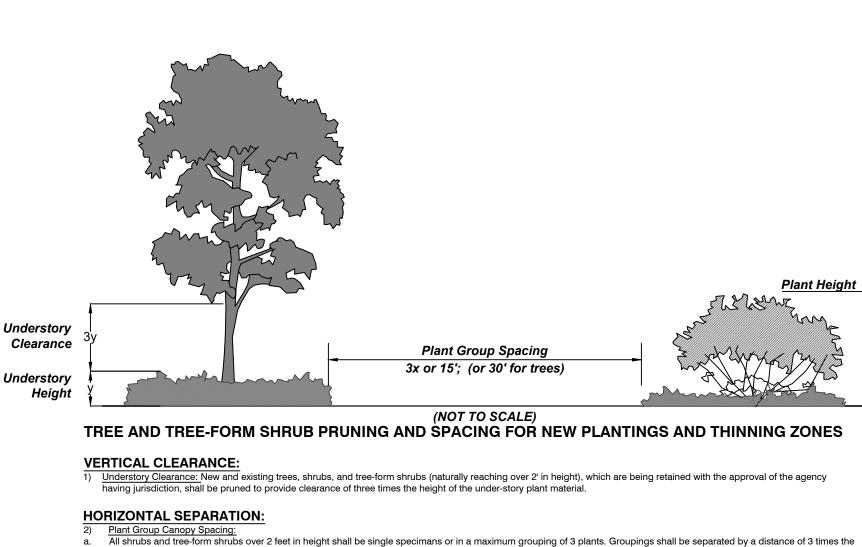
THIS PORTION OF FUEL MODIFICATION CONSISTS OF IRRIGATED LANDSCAPING. THIS IRRIGATED ZONE IS A MINIMUM OF 50 FEET IN WIDTH AND MAY BE INCREASES AS CONDITIONS WARRANT. THE PLANS DELINEATE THE PORTION OF THE FUEL MODIFICATION AREA THAT WILL BE PERMANENTLY AND REGULARLY IRRIGATED. ALL IRRIGATION SHALL BE KEPT A MINIMUM OF 20 FEET FROM THE DRIP LINE OF ANY EXISTING NATIVE QUERCUS (OAK) SPECIES.

ZONE B SHALL BE CLEARED OF ALL UNDESIRABLE PLANT SPECIES. IRRIGATED. AND PLANTED WITH SPECIES FROM THE SBCF APPROVED PLANT LIST. EXCEPTIONS TO SAVE DESIRABLE SPECIES MAY BE SUBMITTED FOR APPROVAL BY THE SBCF ON A SITE-SPECIFIC BASIS.

#### **ZONE B - SPECIFIC MAINTENANCE REQUIREMENTS:**

- A. GROUNDCOVER SHALL BE INSTALLED AND MAINTAINED AT A HEIGHT NOT TO EXCEED 2 FEET.
- IN ORDER TO MAINTAIN PROPER COVERAGE, NATIVE GRASSES SHALL BE ALLOWED TO GO Β. TO SEED. NATIVE GRASSES SHALL BE CUT AFTER ANNUAL SEEDING. CUT HEIGHTS SHALL **BE APPROXIMATELY 4 INCHES.**
- C. APPLY IRRIGATION RATES TO MAINTAIN HEALTHY VEGETATION WITH HIGH MOISTURE CONTENT BASED ON PLANT SPECIES SPECIFIC NEEDS.
- D. ALL PLANT SPECIES DESIGNED FOR ZONE B SHALL BE SELECTED FROM THE SBCF APPROVED PLANT LIST. EXISTING FUEL MODIFICATION MAINTENANCE PROGRAMS ARE LIMITED TO TO THE PLANTS LISTED ON THE APPROVED PLANS UNLESS A REVISION IS REQUESTED. PLANTING AND MAINTENANCE SHALL BE IN ACCORDANCE WITH PLANTING RESTRICTIONS.
- E. GROUPS OF TREES, TREE-FORM SHRUBS, AND SHRUBS THAT NATURALLY EXCEED 2 FEET IN HEIGHT SHALL BE VERTICALLY PRUNED, AND HORIZONTALLY SPACED IN ACCORDANCE WITH PRUNING AND SPACING DETAIL SHEET.
- F. REMOVAL OF OVER HANGING TREE LIMBS, DEAD AND DYING VEGETATION AND UNDESIRABLE PLANT SPECIES
- G. DEVICES THAT BURN SOLID FUELS ARE NOT PERMITTED IN ANY FUEL MODIFICATION ZONE.
- H. COMBUSTIBLE CONSTRUCTION IS NOT ALLOWED WITHIN ZONE B.

# **ZONES C & D - NOT APPLICABLE TO PROJECT**



- San Bernardino County Fire (SBCF)
- specified in those restrictions

**VIEW B: FORESTED SLOPE LOOKING** EASTERLY ALONG PORTION OF EXISTING



**VIEW C: FORESTED SLOPE LOOKING** WESTERLY ALONG PORTION OF EXISTING **RETAINING WALL.** 

### A FORESTER SHALL BE CONSULTED AS TO THE **RETENTION AND THINNING OF ON-SITE TREES.**

neight of the tallest specimen in the group or 15 feet, whichever is greater (see figure above). Other grouping arrangements and spacing may be acceptable if approved by the All Trees shall be single specimens or in a maximum grouping of 3. Groupings shall be separated by a distance of 30 feet (see figure above). Other grouping arrangements and spacing my be acceptable if approved by the SBCF. Plant specimens listed in the SBCF "Approved Plant Palette-Qualification Statements for Select Plant Species" shall comply with plant groupings and spacing requirements d. Shrubs and tree-form shrubs taller than 2 feet in height shall be no closer than 15 feet from the edge of the tree canopy(s) measured horizontally.

