


















Land Use Department
 2045 13th Street/13th & Spruce Streets
 P.O. Box 471
 Boulder, Colorado 80306
 303.441.3930

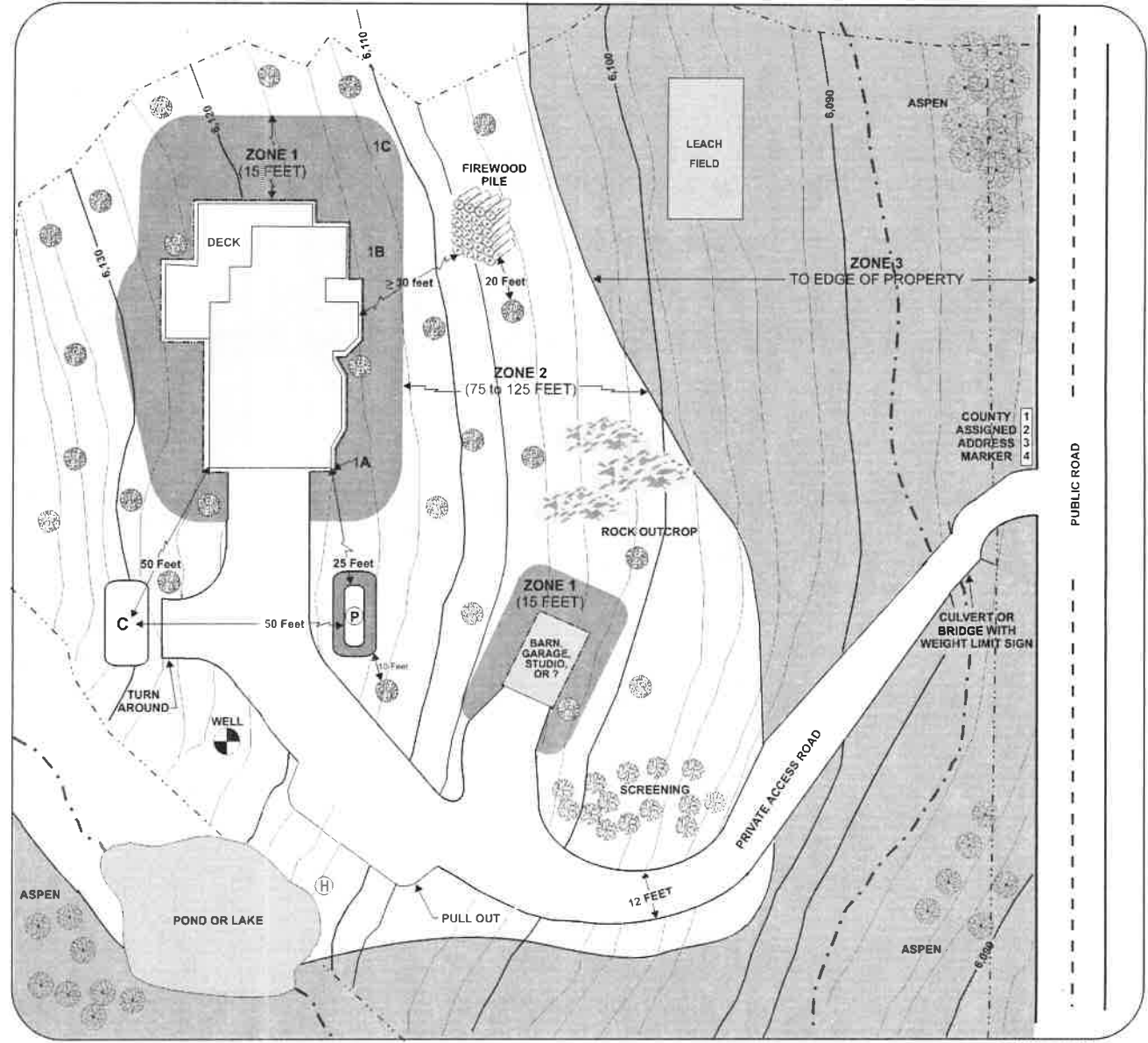
SAMPLE WILDFIRE MITIGATION PLAN

LEGEND:

-  **ZONE 1 - THE SAFETY ZONE**
 15 Feet around structure(s)
 1A - 3 to 5 feet from the structure(s)
 All flammable vegetation removed
 Weed Barrier covered with crushed rock or gravel
 1B - Irrigated green space
 Grasses mowed 4"-6"
 1C - Remaining area
 Mature trees pruned up to 10 feet
-  **ZONE 2 - THE TRANSITION ZONE**
 From Zone 1 out 75 to 125 feet from the structure(s)
 -All ladder fuel and woody debris removed
 -Trees thinned so crowns are widely spaced 10' crown spacing
 -Limb trees 6 to 8 feet from ground
-  **ZONE 3 - THE MANAGEMENT ZONE**
 From Zone 2 to edge of property
 -Thin trees for forest health
 -Remove diseased or weakend trees
-  WELL
-  CISTERN (FOR FIREFIGHTING MINIMUM OF 1,800 GAL.) OR
-  DRY HYDRANT (with 6" gap)
-  PROPANE TANK
-  SAVE TREE (IN ZONE 1 OR 2)
-  POCKET OF TREES (LEFT FOR SCREENING)
-  ASPEN STAND (OR OTHER DECIDUOUS TREES)
-  ROCK OUTCROP
-  FIREWOOD PILE
-  POND OR LAKE
-  DRAINAGE OR STREAM
-  PROPERTY LINE



SCALE 1" = 10'





Sample Wildfire Mitigation Plan

For Owner/Applicant Residence
000 Name Drive, Mountain Town, CO 0000
For Docket SPR-00-000 & Permit BP-00-000
Month 00, 20XX

Prepared for:

Owner/Applicant Name
000 Name Street
City, CO 00000
Phone: (000) 123-4567
Fax: (000) 123-4567
e-mail:owner/applicant@address.com

Prepared by:

Consultant/Contractor Name
P.O. Box 999
City, CO 00000
Phone: (000) 123-4567
Fax: (000) 123-4567
e-mail:consultant@address.com

FOR APPROVAL
OFFICIAL USE ONLY

SITE LOCATION AND PROPERTY DESCRIPTION

The property is located at Lot 00, Subdivision Name. Legal description is the (NESW)¼ of the (NESW)¼ of Sec. 00, T00S/N, R00W.

The lot is (0.0) acres in size. It is at (0000) feet in elevation.

There are currently (no/one/two/three) existing structure(s) on site, including a (house/garage/studio/shed/cabin/barn).

The proposed building site has a (gentle/modest/ steep) (0%) slope with a (north/south/east/west) aspect. It is located (in/on) a (chimney/saddle/valley/ridge/mid-slope). It is a relatively (mesic/xeric) site.

Natural barriers to the spread of a (surface/crown) fire on the site include a (rock outcrop/stream/pond/aspen stand). A (major/minor) (paved/dirt) road also provides a barrier to surface fire spread.

Because of the (topography/fuel type/availability of water), the site has a (low/moderate/high) wildfire hazard.

CONSTRUCTION DESIGN AND MATERIALS

As a result of the overall wildfire hazard for the site, the proposed structure(s) will be constructed to meet Ignition-Resistant (IR) requirements. The structure is to oriented to the (north/south/east/west) and runs (north-south/east-west) along its major axis. It has a relatively (simple/complex) design and a (simple/complex) roofline.

The roofing material will be Class A (asphalt shingles/concrete tiles/metal). (Aluminum/galvanized steel/copper) gutters with screens will be used to collect runoff water from the roof. The finished exterior wall surface material will be (cement board/hardboard siding/logs/stucco/stone/wood timber). Trim will utilize (wood composite/wood/metal). Soffits and fascia will be (½”/¾”) thick (cement board/plywood/hardboard/).

This document prepared by:
Boulder County Land Use Dept.
Courthouse Annex, 13th & Spruce St.
PO Box 471; Boulder, CO 80306
Phone: 303-441-3930
Fax: 303-441-4856
Web Site:
<http://www.co.boulder.co.us/lu/>
or <http://www.bouldercounty.us/lu>
E-mail: planner@co.boulder.co.us
Wildfire Mitigation Coordinator
Eric Philips: ephilips@co.boulder.co.us

Office Hours:
Monday through Friday
8:00 AM to 4:30 PM

CONSTRUCTION DESIGN AND MATERIALS con't

There are (many/few) (small/medium/large) windows on the (north/south/east/west) side. Windows will be (aluminum/aluminum-clad wood/wood) framed units with double pane (low-e coated) glass. Tempered glass will be used when required by building code. Exterior doors are to be fire-rated, 1-3/4" thick and made of (steel/fiberglass/wood) with a (tempered glass insert).

The deck(s) will be made with (composite materials/hardwood) and supported by (heavy timber posts/logs/steel supports/concrete/stone support columns). The decks will be (enclosed/open) and isolated from the surrounding landscape with (crushed rock/gravel) over a (fiberglass/polyester) weed barrier material.

Utilities will (come off a pole 00 feet from the house/be buried in a trench). The well is located (00) feet (N/E/S/W) of the (house/propane tank/septic field); the septic field is located (00) feet (N/E/S/W) of the (house/propane tank/well).

The propane tank will be at least 50 feet from the fire cistern and (10 to 25 or more) feet from the house and be at the same elevation as the house. The tank will be (buried below ground/set on a pad of crushed rock or gravel). No tree branches will overhang the tank and vegetation within 10 feet of the tank will be kept cleared.

DEFENSIBLE SPACE AND FOREST MANAGEMENT

The site is best represented by Fuel Model (0) (see fuel model guide). The property is covered with a (dense/sparse) (closed/open canopy) stand of (ponderosa pine (*Pinus ponderosa*)/lodgepole pine (*Pinus contorta*)/Douglas-fir (*Pseudotsuga menziesii*)/Engelmann spruce (*Picea engelmannii*)/subalpine fir (*Abies lasiocarpa*)) with a (Douglas-fir (*Pseudotsuga menziesii*)/limber pine (*Pinus fliexis*)/Engelmann spruce (*Picea engelmannii*)/quaking aspen (*Populus tremuloides*)/Rocky Mountain juniper (*Juniperus scopulorum*)) component. The understory consists of a (dense/sparse) cover of native grasses (western wheat-grass, needle-grass, blue gramma, little bluestem) forbs and shrubs (wax currant (*Ribes cereum*)/common juniper (*Juniperus communis*)) (0%) and/or (duff/litter/old rotten logs/rock) (0%). (Some/most/all) of the (pine/aspen/etc.) trees are (lightly/moderately/heavily) infected with (dwarf-mistletoe (*Arcuthobium*)/*Cytospora* canker/etc.). There is (some/much) indication of the presence of (mountain pine beetle (*Dendroctonus ponderosae*)/*Ips* beetle/spruce budworm ()/etc.).

There are three defensible space zones to be created around the structure(s). Please note that it is possible that one or more of these zones will cross over the subject property onto adjacent properties. Property boundaries must be respected; mitigation work is not required beyond the immediate property boundaries. However, landowners are encouraged to contact and work with neighbors if property lines limit the ability to mitigate within the prescribed area. Defensible space is a benefit not only to the individual, but also to the community as a whole.

Zone 1 – Starts at the foundation and extends out 15 feet in all directions from the outside edge of the structure(s). Zone 1 is broken down into three segments:

Zone 1A – Consists of the structure(s) themselves and the area immediately adjacent to and surrounding the structure(s) on all sides. A three-foot wide, non-flammable strip will be created using (crushed rock/gravel) over a (fiberglass/polyester) weed barrier material. This strip will also extend back under all deck areas, and out two feet past the drip line of all deck surfaces. No flammable materials (such as firewood) may be stored in this area.

Zone 1B – Extends out from Zone 1A. In this zone, all highly flammable vegetation is to be removed. Any large dead woody material on the ground will also be removed. Firewise plants will be used for landscaping. Grasses planted for revegetation will be kept mowed to a maximum height of 6 to 8 inches twice per growing season to a distance of 15 feet from the structure. (Note that grass should be irrigated when possible).

DEFENSIBLE SPACE AND FOREST MANAGEMENT con't

Zone 1C – This zone extends out from Zone 1B to 15 feet from the house. All understory trees (ladder fuels) will be removed as marked. These are small seedling and sapling size trees that can be ladders for fire to get into the crowns of the larger trees. A few of the larger, healthy trees are to be retained for screening (shown on the plans). All remaining trees in this zone will be pruned to a height of 10 feet. They must be well spaced so that the crowns are not touching (10 foot crown spacing). All trees should be at least 15 feet away from the house on the downhill side and a minimum of 20 feet away from chimneys. No trees will overhang the house or decks, unless they are to be considered as “part of the structure”. In this case, additional fuels reduction around those trees must be done to ensure the integrity of the defensible space.

Zone 2 - This zone extends out from Zone 1C, and acts as a transition zone between the heavily thinned area near the house to the existing forest setting. It extends down slope for (50/75/125) feet, to either side for (50/75/125) feet and above the house for (50/75/125) feet, assuming no boundary restrictions. Tree spacing begins as in Zone 1C and gradually decreases as one approaches the outer edge of the zone. All ladder fuels and poor quality, suppressed and/or diseased trees, 6-8 inches in diameter, make up the majority of the removals. The remaining mature trees will be pruned to a height of 8 feet at the intersection of Zones 1 and 2, with limbing reduced in height to 6 feet as one approaches Zone 3.

Zone 3 – This zone extends out from Zone 2 to the edge of the property. It may extend out to areas that are not part of the immediate mitigation efforts. In this zone, a few thicker clumps of trees are acceptable, as well as some unpruned trees near the outer edge. Thinning in this zone adds some protection, but is aimed more at forest health. Trees that are of poor quality or form, or have insect or disease infestations, should be removed. Slash in this zone can be lopped and scattered and/or piled for wildlife use.

All trees to be removed are marked with (blue tree marking paint/flagging). All trees within zones 1 and 2 that are to remain for screening are (unmarked/marked with “Do Not Cut” flagging). Wood generated by the cutting operation will be bucked up into (firewood/poles/logs) and will be (stacked on site at least 30 feet from the house/used for fencing/made into deck supports/hailed off site). Slash will be (chipped and spread/hailed off site/piled and burned). (Note that before burning piles, you must obtain a valid Open Burning Permit from the Boulder County Environmental Health Department and check with your local Fire Protection District).

DRIVEWAY ACCESS FOR EMERGENCY VEHICLES

The property is accessed directly via Whatever Road from Highway 00. The (new/existing) driveway will create (no/some/extensive) additional site disturbance and soil compaction. It will require the removal of (few/many) trees and limbing of (several/some) others. The driveway will be designed and built to meet Boulder County Private Access standards. It will be 12 feet wide with a vertical clearance of 13'6". It (is/will be) (0-12%) grade, (with a one-section maximum of 14%). As the proposed driveway is (less than/greater than) (150'/400') in length (no turn-around is needed/a hammerhead or “Y” turn-around will be created 50 feet from the proposed house) and (no pullout(s) (is/are) (needed/pull-outs will be created at no greater than 400 foot intervals as shown on the site plan).

EMERGENCY WATER SUPPLY FOR FIREFIGHTING

- At minimum, a (1,800-gallon/2,500-gallon) individual fire protection cistern will be installed. The cistern will be located a minimum of 50 feet from the house and no further than 150 feet from the rear of the structure. The cistern will have a Schedule 40 PVC dry hydrant connection with a 6" NH threaded connection and cap.
- Alternatively, a contribution will be made to the Fire Protection District community cistern fund (if available).
- A municipal hydrant system is available, and the owner will apply to be added to that service.
- A dry hydrant (is/will be) located to utilize water from the nearby (stream/pond/other water source).
- Since the residence is (less than/greater than) 3,600 square feet, an NFPA 13-D residential sprinkler system will also be installed.