



Boulder County Land Use Department
 2045 13th Street / 13th & Spruce Streets / Courthouse Annex
 Mailing address: PO Box 471, Boulder, CO 80306
 Phone 303-441-3930 / Fax 303-441-4856
 http://www.co.boulder.co.us/lu e-mail: planner@co.boulder.co.us

Chk# 9183 Rec 14/10/07 5:00

SHADED AREAS FOR STAFF ONLY
 INTAKE STAMP
 APR 11 2007
 BOULDER COUNTY
 LAND USE

APPLICATION FORM

PROJECT NUMBER		PROJECT NAME	
<input type="checkbox"/> No Application Deadline: <input type="checkbox"/> LIMITED IMPACT SPECIAL USE <input type="checkbox"/> SITE PLAN REVIEW <input type="checkbox"/> SITE PLAN REVIEW WAIVER <input type="checkbox"/> SUBDIVISION EXEMPTION <input type="checkbox"/> 1041-STATE INTEREST REVIEW <input type="checkbox"/> EXEMPTION PLAT <input type="checkbox"/> OTHER		<input type="checkbox"/> *Application Deadline - 1st Wednesday of the month: <input type="checkbox"/> VARIANCE <input type="checkbox"/> APPEAL	
		<input type="checkbox"/> *Application Deadline - 2nd Wednesday of the month: <input type="checkbox"/> PRELIMINARY PLAN <input type="checkbox"/> LOCATION AND EXTENT <input type="checkbox"/> RESUBDIVISION (REPLAT) <input type="checkbox"/> ROAD/EASEMENT VACATION	
		<input type="checkbox"/> FINAL PLAT <input type="checkbox"/> ROAD NAME CHANGE <input type="checkbox"/> SPECIAL USE/SSDP <input type="checkbox"/> EXTENSION OF APPROVAL	
		<input type="checkbox"/> SKETCH PLAN <input type="checkbox"/> REZONING	
LOCATION(S) - STREET ADDRESS(ES) 837 Ridge Rd (Lot 10A)			
SUBDIVISION NAME Bar K Ranch Tract Land			
LOT(S) 10A	BLOCK(S)	SECTIONS(S) 27	TOWNSHIP(S) 2N
			RANGE(S) 72W
AREA IN ACRES 4	EXISTING ZONING	EXISTING USE OF PROPERTY	NUMBER OF PROPOSED LOTS
PROPOSED WATER SUPPLY Well (Permit Attached)		PROPOSED SEWAGE DISPOSAL METHOD Septic (Permit Attached)	

APPLICANTS

APPLICANT/PROPERTY OWNER Kevin & Linda Morse		EMAIL ADDRESS KRMORSE@Comcast.net	
STREET ADDRESS Box 19002			
CITY Boulder	STATE CO	ZIP CODE 80308	PHONE NUMBER 303 926 1587
			FAX NUMBER 303 926 1608
APPLICANT/PROPERTY OWNER		STREET ADDRESS	
CITY	STATE	ZIP CODE	PHONE NUMBER
			FAX NUMBER
AGENT/CONSULTANT		EMAIL ADDRESS	
STREET ADDRESS			
CITY	STATE	ZIP CODE	PHONE NUMBER
			FAX NUMBER
AGENT/CONSULTANT		STREET ADDRESS	
CITY	STATE	ZIP CODE	PHONE NUMBER
			FAX NUMBER

CERTIFICATION

I certify that I am signing this Application Form as an owner of record of the property included in the Application. I certify that the information and exhibits I have submitted are true and correct to the best of my knowledge. I understand that all materials required by Boulder County must be submitted prior to having this matter processed. I understand that public hearings or meetings may be required. I understand that I must sign an Agreement of Payment for Application processing fees and that additional fees or materials may be required as a result of considerations which may arise in the processing of this docket. I understand that the road, school and park dedications may be required as a condition of approval. I understand that I am consenting to allow the County Staff involved in this application or their designees to enter onto and inspect the subject property at any reasonable time, without obtaining any prior consent.

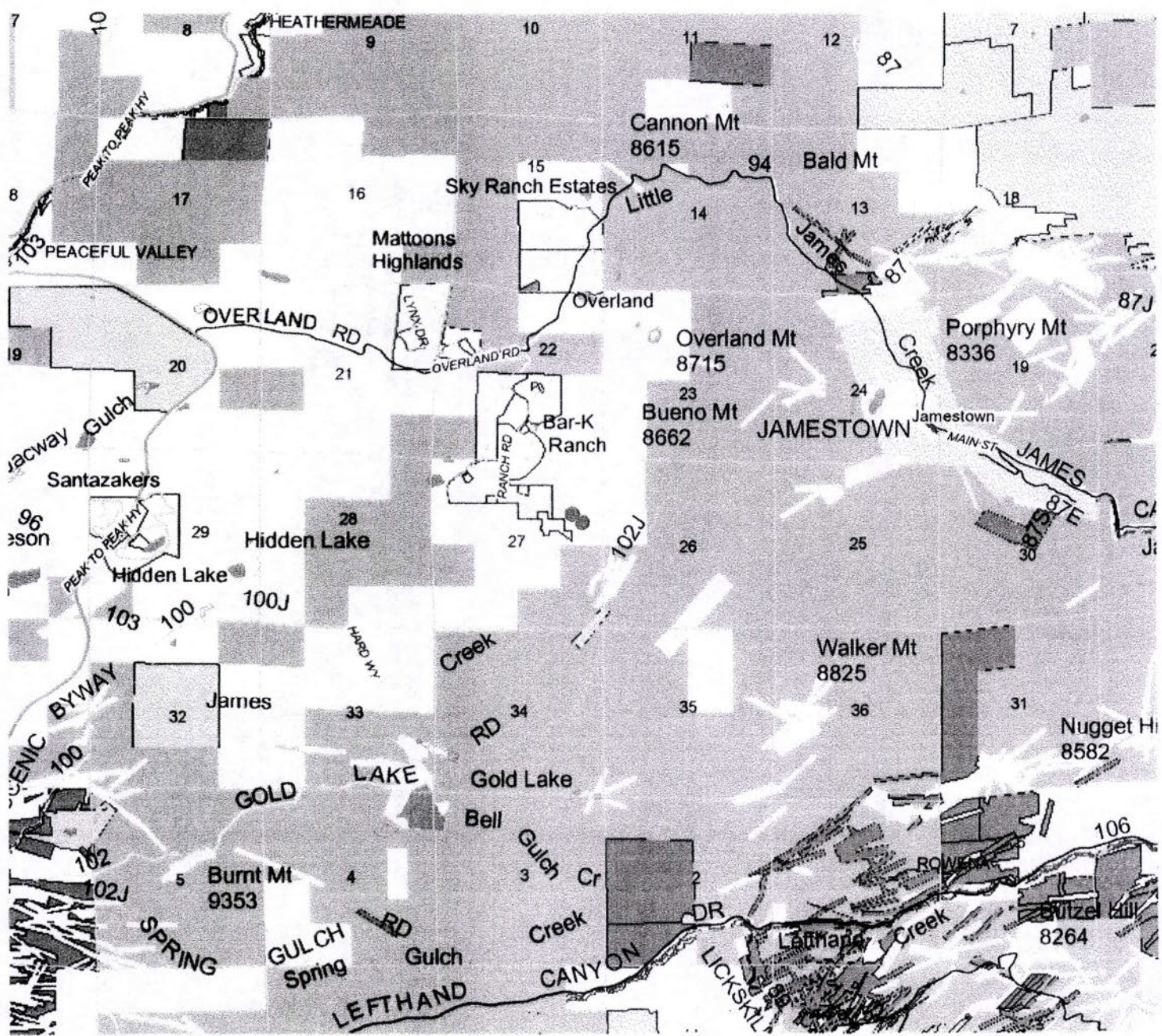
All landowners are required to sign application. If additional space is needed attach additional sheet signed and dated.

SIGNATURE OF LANDOWNER X	DATE 4/5/07
SIGNATURE OF LANDOWNER X	DATE 4/5/07
OTHER SIGNATURE * X	DATE

Boulder County Land Use Department PreApp - Vicinity Map

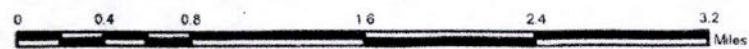
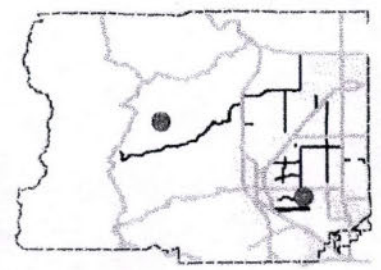


This map is for informational purposes only and, in itself, does not indicate whether property will conflict with any Comprehensive Plan or Environmental Resources. Review processes may also reveal environmental resources not found on County maps.



Legend

- Open Space**
 - Federal
 - State
 - Local
 - Conservation Easements
 - Gravel resources
 - Utilities and other
- Subdivision**
 - Lots
 - Nupud
- Floodplain**
 - FO Zoning District
- Map Location**



This map is for informational purposes only, and is not a substitute for professional engineering or architectural services. The areas depicted here are approximate. Minor scale errors may be required to draw accurate conclusions.

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Boulder County Land Use Department PreApp - Location Map

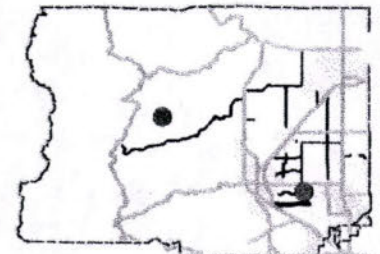


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Legend

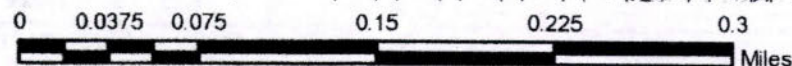
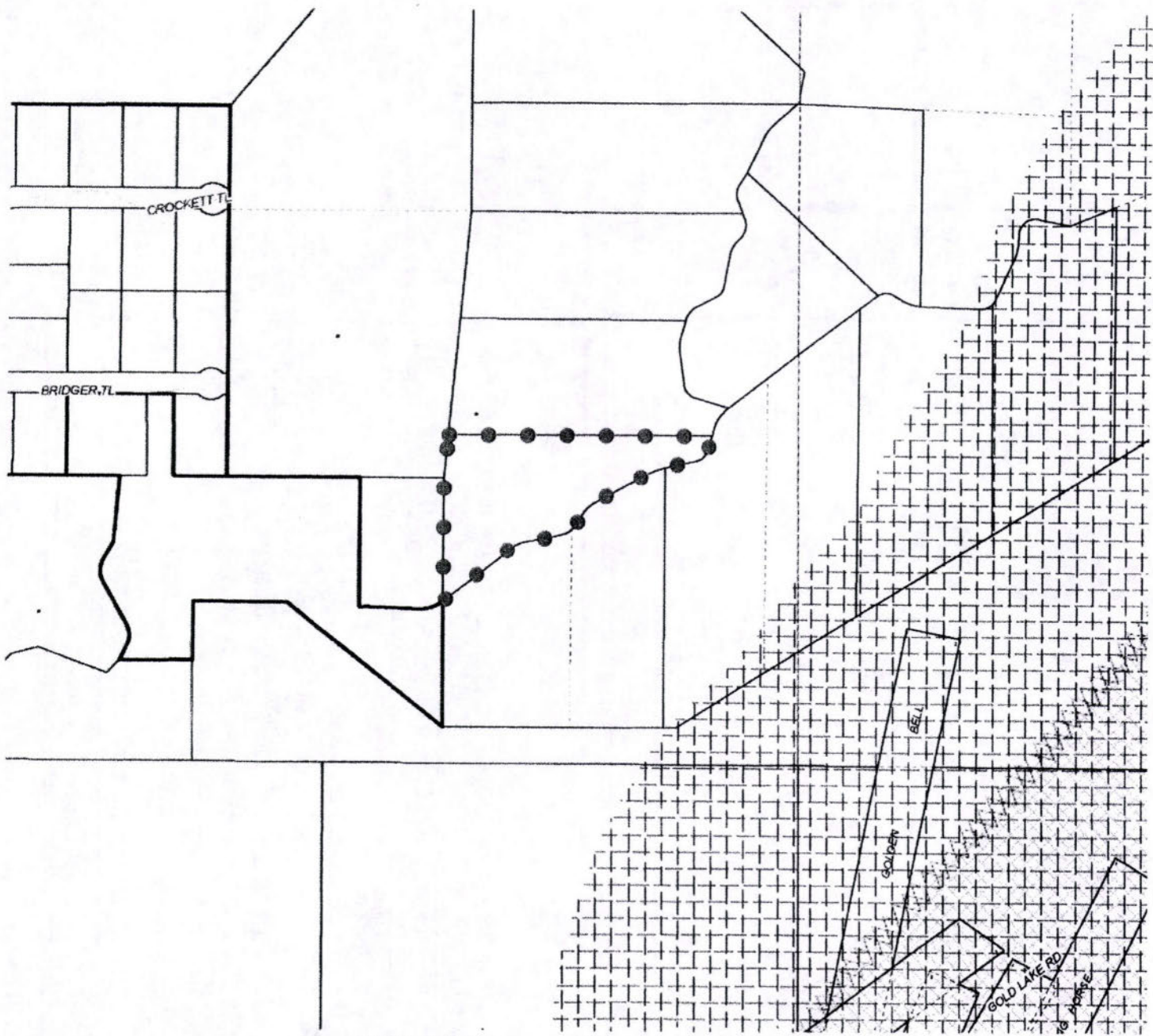
- Archeologically Sensitive Travel Routes
- Municipalities
- Archeologically Sensitive Areas
- Open Corridors, Roadside
- Open Corridors, Streamside
- Overland Habitat Connectors
- Stream Habitat Connectors
- Significant Riparian Corridors
- Critical Wildlife Habitats
- Rare Plant Areas
- Floodplain - FO Zoning District
- Environmental Conservation Areas
- Natural Landmarks and Areas
- Significant Natural Communities
- Significant Agricultural Lands
- National Importance
- Statewide Importance
- Local Importance

Map Location



This map is for illustrative purposes only, and is not suitable for state-specific decision making. The areas depicted here are approximate. More detailed studies may be required to draw accurate conclusions.

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Site Plan Review Fact Sheet

Each section of this Fact Sheet is required to be completed, even if the information is duplicated elsewhere in the application. Completed Fact Sheets cut application review time, and assist staff in expediting determinations. Please make duplicates of this page if the project involves more than two structures.

Structure Information

STRUCTURE #1:

TYPE OF STRUCTURE: Residence
(e.g. residence, studio, barn, etc.)

TOTAL EXISTING FLOOR AREA: 6409 sq/ft DEMOLISH: _____ sq/ft
(Finished + Unfinished sq.ft. - always include garage if attached)

Is new floor area proposed in areas where demolition is will occur?
Yes _____ No _____

If Yes, please be sure this area is included in the table below.

PROPOSED FLOOR AREA (new construction only)			
	Finished	Unfinished	Total
Basement	sq/ft	2849 sq/ft	2849 sq/ft
1st Floor	2640 sq/ft	sq/ft	2640 sq/ft
2nd Floor	sq/ft	sq/ft	sq/ft
Garage			
<input type="checkbox"/> Detached	sq/ft	sq/ft	sq/ft
<input type="checkbox"/> Attached	sq/ft	sq/ft	sq/ft
Covered Deck		920 sq/ft	920 sq/ft
Total	2640 sq/ft	3769 sq/ft	6409 sq/ft

Height above existing grade 30'

Exterior wall:
- Material concrete
- Color earthtone

Roofing:
- Material earth
- Color earth

When completed, this structure will have a total of 4 bedrooms.

STRUCTURE #2:

TYPE OF STRUCTURE: _____
(e.g. residence, studio, barn, etc.)

TOTAL EXISTING FLOOR AREA: _____ sq/ft DEMOLISH: _____ sq/ft
(Finished + Unfinished sq.ft. - always include garage if attached)

PROPOSED FLOOR AREA (new construction only)			
	Finished	Unfinished	Total
Basement	sq/ft	sq/ft	sq/ft
1st Floor	sq/ft	sq/ft	sq/ft
2nd Floor	sq/ft	sq/ft	sq/ft
Garage			
<input type="checkbox"/> Detached	sq/ft	sq/ft	sq/ft
<input type="checkbox"/> Attached	sq/ft	sq/ft	sq/ft
Covered Deck		sq/ft	sq/ft
Total	sq/ft	sq/ft	sq/ft

Height above existing grade _____

Exterior wall:
- Material _____
- Color _____

Roofing:
- Material _____
- Color _____

When completed, this structure will have a total of _____ bedrooms.

Project Identification

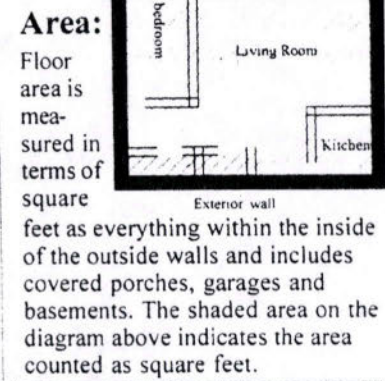
Project Name: _____

Property Address/Location: _____

Current Owner: _____

Size of Property in Acres: _____

Determining Floor Area:



Please note: If existing walls and/or roof are removed and new walls/roof are constructed, the associated floor area due to the new walls and/or roof is considered new construction and must be included in the calculation of floor area for Site Plan Review & shown on the Fact Sheet.

If a Limited Impact Special Use Review is required, then call 303-441-3930 and ask for a new Preapplication conference for the Limited Impact Review.

This document prepared by:
Boulder County Land Use Dept.
Courthouse Annex, 13th & Spruce St.
PO Box 471; Boulder, CO 80306
Phone: 303-441-3930
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<http://www.co.boulder.co.us/lu/>
or <http://www.bouldercounty.us/lu>
E-mail: planner@co.boulder.co.us
Office Hours:
Monday through Friday
8:00 AM to 4:30 PM

Earth Work / Grading

This worksheet is to help you accurately determine the amount of grading for the property in accordance with the *Boulder County Land Use Code*. Please fill in all applicable boxes.

Note that applicants must fill in the shaded boxes even though foundation work does not contribute toward the 500 cubic yard trigger requiring Limited Impact Special Use Review.

	Cut	Fill	Total
Driveway & Parking Areas	80		80
Berms			
Other Grading:	30		30
Total	110		110 <i>Box 1</i>

If the total in *Box 1* is more than 500 cubic yards, then a Limited Impact Special Review is required.

	Cut	Fill	Total
Foundation	920	920	1840

Also, note that all areas of earthwork must be represented on the site plan.

Material cut from foundation excavation to be removed from the property. Excess material will be transported to the following location:

1840
Roof of house

Narrative

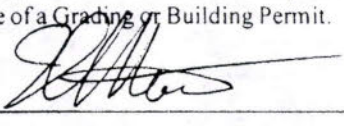
Use this space to describe any special circumstances that you feel the Land Use Office should be aware of when reviewing your application. If more room is needed, feel free to attach a separate sheet.

Grading Calculation Note

Cut and fill calculations are necessary to evaluate the disturbance of a project and to verify that a Limited Impact Review (LU) is not required. A LU is required when grading for a project involves more than 500 cubic yards (minus normal cut/fill and backfill contained within the foundation footprint). If grading totals are close to the 500 yard trigger, additional information may be required, such as a grading plan stamped by a Colorado Registered Professional Engineer.

Certification

I certify that the information submitted is complete and correct. I agree to clearly identify the property (if not already addressed) and stake the location of the improvements on the site within four days of submitting this application. I understand that the intent of the Site Plan Review process is to address the impacts of location and type of structures, and that modifications may be required. Site work will not be done prior to issuance of a Grading or Building Permit.

Signature 

Date 4/1/07

.....
 • Is your property gated and locked? If
 • county personnel cannot access
 • the property, then it could cause
 • delays in reviewing your
 • application.

10B
5.02 ACRES.

Site Plan Review
Kevin & Linda Morse House
837 Ridge Rd. (Lot 10A)
Ward, CO (Bar K Ranch Tract Land)
4.0 acres

Scale : 1 Inch = 100 feet

Preparation date : April 1, 2007

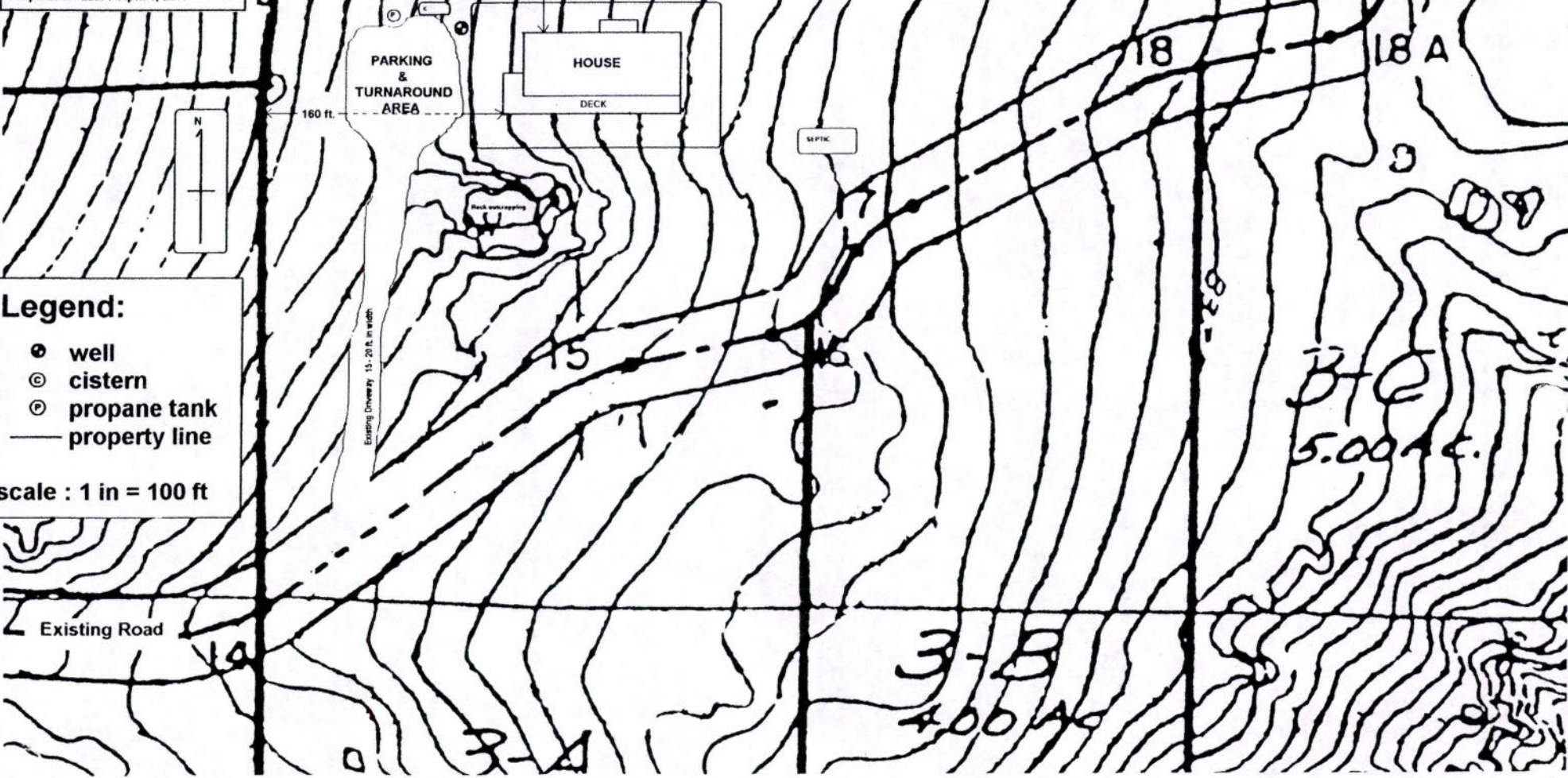


Legend:

- well
- ⊙ cistern
- ⊙ propane tank
- property line

scale : 1 in = 100 ft

Existing Road



WILDFIRE MITIGATION PLAN

For Kevin Morse
837 Ridge Rd, Jamestown, CO
Docket: SPR - 07 - 032
Inspection date: 9/20/2007

Prepared for:

Kevin Morse
PO Box 19002
Boulder, CO 80308
Phone: 303-926-1587

Prepared by:

Matthew Jedra
Forester - Boulder District
Phone: (303) 823-5774
E-mail: mjedra@lamar.colostate.edu

PURPOSE OF A WILDFIRE MITIGATION PLAN

The purpose of a Wildfire Mitigation Plan is to give guidelines for reducing wildfire hazards around a home or other structures through fuels reduction. It is a document to inform urban interface home owners of the dangers and responsibilities of living in the interface. This plan will help outline the initial and ongoing fuels reduction needed to create and maintain an effective wildfire defensible space. However, having a wildfire mitigation plan, implementation of a defensible space thinning, and following all the recommendations as outlined in this plan **does not guarantee that your home will survive a wildland fire; however, in combination they will give your home the best potential probability to survive a wildland fire.**

SITE LOCATION AND PROPERTY DESCRIPTION

The property is located in Section 27, Township 2N, and Range 72W, Lot 10A Bar-K Ranch. The property is located within the Lefthand Fire Protection District (720-214-0559). A 6,409 sq.ft. residence is proposed for the site. The lot is 4 acres in size and has a modest ~2-20 percent slope with a south-southeast aspect. The site is at ~8,500 feet in elevation and located on a midslope which is relatively dry and moist. Ridge Rd to the west creates a small natural barrier that may help slow the spread of a surface fire on the site.

CONSTRUCTION DESIGN AND MATERIALS

The proposed residence will have a moderately complex design with a complex roofline and will be oriented with a south aspect. **The overall design of the structure greatly influences how it will withstand a wildfire. Complex building forms create heat traps, areas where the walls and roof members intersect on another where eddies form and hot air and embers from a fire can collect. It is important to keep these areas clear of combustibles such as needles and brush.**

The roofing material will consist of concrete covered by soil. Majority of the house will be buried under ground and made of cement. **Falling embers and fire brands from a wildfire can land on a roof and ignite the roof, either by directly heating the roofing material, or by igniting light fuels (pine needles) that have collected on the roof. It is recommended to place screening over gutters and/or make a yearly check to keep them clear of leaves and needles.**

The exterior wall material is to be cement. Soffits and fascia are to be ¼" thick cement. The structure will have 10 medium sized windows with the primary viewing direction being toward the south side of the structure. Windows will be double glazed with tempered glass where required. Frames are to be made of wood. Exterior doors are to be 1¾", fire-rated, and made of steel. The structure will have 1 window well located on the north side of the structure. The structure will also have 6 sliding glass doors located on the south side of the structure. **All operable windows must be provided with screening that is constructed of either aluminum, galvanized steel, copper or of an approved material that when exposed to flame for 15 seconds, will not burn through or melt, and remains intact. Windows are one of the weakest parts of a structure with regards to wildfire. They often crack and fail before the structure itself ignites, providing a direct path for embers and radiant heat to reach the interior. It is best to minimize the number of windows, especially on the downhill side of the structure. Fire typically burns up hill faster and will create a great deal of radiant heat.**

UTILITIES

The propane tank is to be set on a pad of crushed rock overlaying a fiberglass weedbarrier ~80 ft to the west of the residence. Utilities for the property are solar. The septic field is located ~220 ft to the southeast of the residence. A well is located ~40 ft to the west.

DRIVEWAY ACCESS FOR EMERGENCY VEHICLES

Access the property from Boulder by heading north on Highway 36 to Lefthand Canyon, head west on Lefthand Canyon through Jamestown to the Bar-K Ranch, turn south on Rock Lake Rd, take a left on Ridge Rd end at 837.

The existing driveway will create minimal amount of site disturbance and soil compaction and will require the removal of few trees. The driveway is ~12 feet wide with a vertical clearance of 13'6" and a grade that is less than 12 percent. The

driveway is approximately 226 feet long and will require a hammerhead or "Y" turn-out within 50 ft of the house. Since the driveway is less than 400 ft., no pull-outs are required along the driveway..

EMERGENCY WATER SUPPLY FOR FIRE FIGHTING

Emergency water source will be from two 2,500 gallon individual cistern located ~50 ft southwest of the residence. The structure will also have a full interior NFPA 13 D Sprinkler system as required by Boulder County. The cistern will be located a minimum of 50 feet from the front of the house and no further than 150 ft from the rear of the structure. The cistern will have a dry hydrant connection with a 6 inch NH threaded connection and cap (note that a 2-1/2" adaptor may be needed, depending upon the requirements of your fire protection district). Alternatively, a contribution may be made to the fire protection district community cistern fund (if available). Contact the Lefthand Fire Protection District (720-214-0559) for more information and specific details.

FUELS REDUCTION

All trees to be removed are marked with blue spray paint. All trees that are to remain within zones 1 and 2 will be unmarked and need to be pruned to a height of 8ft or 1/3 the height of the tree, whichever is less. If the property is less than 1 acre it may not have zones marked due to boundary interference. Harvested wood that remains on site will be stacked at least 30 feet from the house and at the same elevation when possible. Slash from the harvest will be burned and lop and scatter. Note that if you decide to burn piles, you must obtain a valid Open Burning Permit from the Boulder County Environmental Health Department (303-441-1180) and notify your local fire protection district Lefthand Fire Protection District (720-214-0559).

FOREST COMPONENT AND HEALTH

The site has a dominant overstory consisting of ponderosa pine (*Pinus ponderosa*) with a ponderosa pine, Douglas-fir (*Pseudotsuga menziesii*), limber pine (*Pinus flexilis*), lodgepole pine (*Pinus contorta*), and quaking aspen (*Populus tremuloides*) component. The understory consists of a dense/sparse cover of native grasses, forbs and shrubs. The forested area is best represented by Fuel Model 8. Fuel Model 8 is represented by closed canopy stands of ponderosa pine and mixed conifer. Understory may consist of small trees and shrubs, grasses and moderate concentrations of down, dead woody litter. High amounts of needle litter may be present. This model can exist from foothills to subalpine.

Dwarf mistletoe (*Arceuthobium vaginatum*) was noted in a few trees on the property and adjacent to the property. Refer to the enclosed material or contact the Colorado State Forest Service for management recommendations..

DEFENSIBLE SPACE MANAGEMENT

There are three defensible space zones to be created around the structure(s) on the site. 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 immediate 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 five-foot wide, non-flammable strip should be created using stone over a fiberglass weed barrier material. This strip will also extend back under, and out to, two feet past the drip line of any decks.

Zone 1B - Extends out from Zone 1A. In this zone, all highly flammable vegetation should be removed. Any large dead woody material on the ground should also be removed. Firewise plants should be used for landscaping and re-vegetation. Grasses should be irrigated when possible and mowed to a maximum height of 6 to 8 inches twice per growing season to a distance of 30 feet from the structure.

Zone 1C - This zone extends out from Zone 1B to 15 feet from the house. All understory trees (ladder fuels) should be removed as marked. These are small seedling and sapling size trees that can be ladders for fire to get in the crowns of the larger trees. A few of the larger, healthy trees can to be retained for screening. All remaining trees in this zone should be pruned to a height of 10 feet. They must be well spaced so that the crowns are not touching (10 foot minimum crown spacing). No trees should overhang the house or decks, unless approved by Boulder County or CSFS as "part of the structure" with additional fuels reduction around those trees to insure the defensible space integrity. Trees should be at least 15 feet away from the house on all sides, and a minimum of 20 feet from chimneys.

Zone 2 - This zone extends out from Zone 1C, and acts as a transition zone between the heavily thinned areas near the house to the existing forest setting. It extends down slope between 100-170 feet depending upon slope steepness. Zone 2 also extends on either side of the structure a minimum of 100 feet and behind the house between 70-100 feet assuming no boundary restrictions. Tree spacing begins as in Zone 1C and gradually decreases as you approach the outer edge of the zone. Thinning and crown spacing becomes greater in areas of steep slopes. Ladder fuels and poor quality, suppressed and/or diseased trees, 6 to 8 inches in diameter, make up the majority of the removals. The remaining mature trees should be pruned to a height of 10 feet at the intersection of Zones 1 and 2 with limbing reduced in height to 6 feet as you approach Zone 3. If there are any questions pertaining to slope and the changes in thinning spacing and distance regulations please refer to <http://www.ext.colostate.edu/pubs/natres/pubnatr.html> and find the *Quick Facts 6.302 Creating Wildfire Defensible Space*.

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.

- Thin suppressed trees and trees with disease and insect infestations and retain the larger, healthier trees.
- Snags can be retained for wildlife.
- Some slash in this zone can be lopped and scattered and/or piled for wildlife enhancement and shelter.
- Large amounts of slash should be disposed of by chipping, hauling to an approved site, or burning.
- For burning permits, check with your local fire protection district.

MAINTENANCE AND RECOMMENDATIONS

As detailed in fact sheet 6.302, *Creating Wildfire Defensible Zones*, an important factor that determines a structure's ability to survive wildfire is defensible space. Defensible space is a maintained area around a structure where fuels (flammable materials) are modified to slow the possible spread of wildfire to the structure, as well as from the structure to the surrounding areas. Defensible space provides a place where structure protection and fire suppression operations may occur. Wildfire hazard mitigation work breaks up fuel continuity, potentially decreasing a wildfire's intensity, and for more effectiveness should be completed beyond a home's defensible space, zone 1 and 2, area into zone 3.

In addition to the above recommendations, several other measures can be taken to make your home more fire safe and add an additional measure of safety for your family. While not required through site plan review, the following measures should be undertaken to maintain the home and defensible space in the future.

- Maintain your defensible space yearly; contact your local forester for a 5-year maintenance inspection
- Establish an escape route and safety zone with the aid of your local fire protection district
- Keep firewood at least 30 feet away from buildings; clear weeds and grass from around pile
- Do not stack fresh cut wood against live trees – this could invite unwanted insects
- When possible, maintain an irrigated green space; mow grasses 6" to 8" high
- Connect, and have available, a minimum of 50 feet of garden hose with an adjustable nozzle
- Have an emergency evacuation plan in place (included in wildfire mitigation plan)
- Be aware of fire danger; your nearest fire danger sign is located at your fire station or check the Boulder Fire Weather website at www.crh.noaa.gov/bou
- Keep driveways and property address marked with reflective easy to see signs
- Maintain screens on foundations, soffit vents, roof vents, and attic openings
- Get rid of unnecessary accumulations of debris and trash from yards
- Keep tools such as shovels, rakes, ladders, and axes available and ready for use
- Clean debris from the roof and gutters at least two times annually
- Check screens and maintain spark arresters on chimneys annually
- Avoid storing combustibles under decks such as wood piles, scrap lumber, and fuels

DEFINITIONS

Aspect – Exposure. The direction a slope faces.

Canopy – The cover of branches and foliage formed collectively by crowns of adjacent trees.

Crown – Branches and foliage of a tree.

Dominant fuel type – Matter that would carry a fire, found on the ground.

Duff – a layer of accumulated dead organic matter (pine needles).

Eddies – Small wind occurrences that are separate from normal wind flows.

Fuel Model – A number system that identifies the types of fuels found on the property that will directly influence fire behavior.

Fire danger - An assessment of both fixed and variable factors of the fire environment, which determine the ease of ignition, rate of spread, difficulty of control, and the fire impact.

Fire hazard - The potential fire behavior for a fuel type, regardless of the fuel type's weather-influenced fuel moisture content or its resistance to fireguard construction. Assessment is based on physical fuel characteristics, such as fuel arrangement, fuel load, condition of herbaceous vegetation, and presence of elevated fuels.

Fire management - The activities concerned with the protection of people, property and forest areas from wildfire and the use of prescribed burning for the attainment of forest management and other land use objectives, all conducted in a manner that considers environmental, social and economic criteria.

Fire risk - The probability or chance of fire starting determined by the presence and activities of causative agents.

Fuel continuity – The proximity of fuels to each other. Helps determine if a fire can sustain itself.

Forest health - A forest condition that is naturally resilient to damage; characterized by biodiversity, it contains sustained habitat for timber, fish, wildlife, and humans, and meets present and future resource management objectives.

Ladder fuels - Fuels that provide vertical continuity between the surface fuels and crown fuels in a forest stand, thus contributing to the ease of torching and crowning.

Limb (verb) –To remove the branches from a tree.

Noxious weeds - Any weed so designated by the Weed Control Regulations and identified on a regional district noxious weed control list.

Overstory – The tree species that forms the uppermost forest layer (dominant and co-dominant).

Slash – The residue left on the ground as a result of forest and other vegetation being altered by forest practices or other land use activities.

Snag – Standing dead tree, often used by wildlife such as woodpeckers, owls, and other various mammals.

Understory – Plants that grow underneath the overstory species.

Wildland urban interface – a popular term used to describe an area where various structures (most notably private homes) and human developments meet or are intermingled with forest and other vegetative fuel types.



Annual fire safety checklist

- Thin trees and brush properly within defensible space.
- Remove trash and debris from defensible space.
- Remove needles and pine cones from window wells.
- Remove trees growing through a porch or other portions of a structure.
- Clear leaves and debris from the roof and gutters of structures.
- Remove branches that overhang a chimney or roof.
- Stack firewood uphill from a home or on a contour away from the home.
- Use noncombustible roof materials.
- Place shutters, fire curtains or heavy drapes on windows.
- Place screens on foundation and eave vents.
- Enclose sides of stilt foundations and decks.
- Remove any combustibles from under decks, porches or entrances ways.
- Use a chimney screen or spark arrester in fireplaces.
- Clear vegetation from around fire hydrants, cisterns, propane tanks, etc.
- Place placards on garages if storing flammable materials inside.
- Make sure that an outdoor water supply is available with a hose, nozzle and pump.
- Post address signs that are clearly visible from the street or road.
- Make sure that driveways are wide enough for fire trucks and equipment.
- Check with appropriate highway agencies to make sure load limits are posted on bridges and for the appropriate protocol for posting load limits for bridges on private property.
- Install and test smoke detectors.
- Practice a family fire drill and evacuation plan.

Evacuation tips

- If a wildfire is threatening your area, listen to the radio for updated reports and evacuation information.
- Confine pets to one room and make plans to take care of them in the event of evacuation.
- Arrange for temporary housing with a friend or relative whose home is outside the threatened area. Leave a note in a prominent place in your home that says where and how you can be contacted.
- If your home is threatened by wildfire, you will be contacted and advised by law enforcement officers to evacuate. If you are not contacted or you decide to stay and help defend your home, evacuate pets and family members who are not needed to protect your home.
- Remove important documents, mementos, etc. from the possible fire area.
- Choose an evacuation route away from the fire if possible. Watch for changes in the speed and direction of the fire and smoke.

Take a disaster supply kit containing:

- Drinking water.
- A change of clothing and footwear for each family member.
- Blanket or sleeping bag for each person.
- First-aid kit and prescription medications.
- Emergency tools including a battery-powered radio, flashlight and extra batteries.

- Extra set of car keys and credit cards, cash or traveler's checks.
- Extra pairs of eyeglasses or other special items for infants, elderly or disabled family members.

Defending your home

Whether you choose to stay to defend your home or to evacuate, complete as many of the following preparations as possible.

- DO NOT JEOPARDIZE YOUR LIFE. NO MATERIAL ITEM IS WORTH A LIFE.
- Wear fire-resistant clothing and protective gear.
- Remove combustible materials from around structures.
- Close or cover outside vents and shutters.
- Position garden hoses to reach the entire house, but do not turn the water on until it is needed. Hoses should have an adjustable nozzle.
- Place large, full water containers around the house. Soak burlap sacks, small rugs or large rags in the containers.
- Place a ladder against the roof of the house on the opposite side of the approaching wildfire. Place a garden hose near the ladder, prepared as described previously.
- Place portable pumps near available water supplies, such as pools, hot tubs, creeks, etc.
- Close all windows and doors. Do not lock them.
- Close all inside doors.
- Turn on a light in each room and all outside lights. Leave them on even during daylight hours.
- Fill tubs, sinks and similar containers with water.
- Shut off gas supplies to structures at outside meters. Shut of propane supplies at the outside meter of the tank.
- Remove curtains made of lace, nylon or other light materials. Close blinds, heavy drapes and fire resistant window covers.
- Move overstuffed furniture into the center of the house, away from windows and sliding doors.
- Cars should be parked in the garage, facing out. Close the windows of the vehicle but do not lock the doors. Leave the keys in the ignition.
- Close the garage door but leave it unlocked. Disconnect automatic garage door openers.

For additional copies of these checklists, visit www.colostate.edu and search for wildfire, view the Colorado State Cooperative Extension fact sheet on [Forest Home Fire Safety](#), or contact the local Cooperative Extension office usually listed under the county government section of your local phone book.

(Information provided by Colorado State University Cooperative Extension and the Colorado State Forest Service.)

Safety Zone Guidelines

A Safety Zone is an area that in the event of a wildland fire you could survive the passing fire without the aid of a fire shelter. A natural safety zone could be an area already burned clean by the fire (in the black), rock areas where flashy fuels are absent, or large bodies of water. A manmade safety zones could be pre-constructed sites such as clear cuts. It should be close enough to your home to consider escape time to reach the safety zone. They should not be located upslope or downwind of the fire or in heavy fuels.

1. Avoid locations that are downwind from the fire.
2. Avoid locations that are in chimneys, saddles, or narrow canyons.
3. Avoid locations that require a steep uphill escape route.

4. Take advantage of heat barriers such as lee side of ridges, large rocks, or solid structures.
5. Burn out safety zones prior to flame front approach.
6. For radiant heat only, the distance separation between you and the flames must be at least four times the maximum flame height. This distance must be maintained on all sides, if the fire has ability to burn completely around the safety zone. Convective heat from wind and/or terrain influences will increase this distance requirement.

Calculations Assuming No Slope and No Wind

<u>Flame Heights</u>	<u>Distance separation</u>	<u>Area in Acres</u>
10 feet	40 feet	1/10 acre
20 feet	80 feet	1/2 acre
50 feet	200 feet	3 acres
75 feet	300 feet	7 acres
100 feet	400 feet	12 acres
200 feet	800 feet	50 acres

Note: Distance separation is the radius from the center of the safety zone to the nearest fuels. When fuels are present that will allow the fire to burn on all sides of the safety zone this distance must be doubled in order to maintain effective separation in front, to the sides, and behind the person.

Area in Acres is calculated to allow for distance separation on all sides for a three person family and a vehicle. One acre is approximately the size of a football field or exactly 208 feet x 208 feet.

Example: Given a fire with 10 foot flame heights (no wind or slope). You would need a minimum of 40 feet between you and the flames. So your total safety zone should be 80 feet x 80 feet. If you are settled into the middle of the safety zone you will have a minimum distance of 40 feet to each edge of the zone.

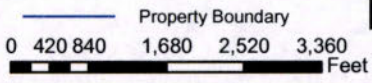
Landscape view of the Kevin Morse Property
837 Ridge Rd, Jamestown, CO
SPR - 07 - 032

Overland Rd

837 Ridge Rd

County Rd 102J

Legend



This map is intended for display purposes only
and is not intended for any legal representations

Property of Kevin Morse
837 Ridge Rd, Jamestown, CO
SPR - 07 - 032

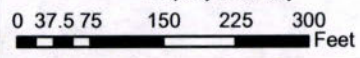
Proposed Residence

Ridge Rd



Legend

- Driveway
- Zone 1
- Zone 2
- Zone 3
- Leach Field
- Leave Trees
- Well
- Propane Tank
- Property Boundary



This map is intended for display purposes only
and is not intended for any legal representations

DIRECTIONS FOR FILLING OUT FORM:

Please fill out the data form as completely as possible. You may email it to Matthew Jedra at mjedra@lamar.colostate.edu or fax it to 303-823-5768, or bring it to the scheduled appointment.

Any **Bolded** categories will be filled in by the Colorado State Forest Service (CSFS) representative at the time of initial site visit. If you have any questions about this form please contact Matthew Jedra at 303-823-5774.

Wildfire Mitigation Plan
FIELD DATA FORM

Inspection Date: 9/20/07
Landowner name: Kevin Morse
Mailing address: Box 19002
City, State, Zip: Boulder CO 80308
Site address: 837 Ridge Rd. Ward. CO
Phone number: 303 9261587 fx 3039261608
Road access: _____ (Directions from main access road)
Docket Number: SPR-07-032 (SPR, LU, Etc.)
Section: 27
Township: 2N
Range: 72W
Legal Description: Lot 10A (See attached apps Long legal)
Elevation: 8500 (feet)
Lot size: 4 (Acres)

Driveway length: 226 (Actual length in feet from road to home)

Driveway trees removed: (few) many/none

House design: _____ (simple/complex) Concrete Dome (Underground)

Home buffer material: _____ (Stone/crushed gravel/decorative stone)

Roof Design: _____ (simple/complex) Concrete + Earth

Roof material: Concrete - Earth (Asphalt shingles/concrete tiles/metal)

Soffits type: Cement (Plywood/hardboard/cement board)

Siding material: Cement (Cement/hardboard/log/stucco/stone/wood)

Windows (#): 10 (approximate number of windows)

Windows Size: _____ (On average: small/medium/large)

Windows Frames: _____ (Wood/aluminum/aluminum clad)

Windows Aspect: South (Dominant viewing direction)

Sliding Glass Doors: 6 (Location and Number)

Window Construction: _____ (Tempered glass/e-coating/etc.)

Window wells: 1 Rear of House (Number and location if present)

Door Material: _____ (Wood/steel/fiberglass/composite)

Deck material: _____ (Wood/composite materials)

Deck Description: _____ (Enclosed/open underneath or overhead)

Deck support type: _____ (Timber posts/logs/steel/concrete/stone)

Deck buffer material: _____ (Crushed rock/gravel)

Deck weed barrier: _____ (Fiberglass/polyester)

Number of Structures: 1 (All structures to be present)

Existing Structures: Ø (House/barn/garage/etc.)

New Structure: House (House/Barn/new addition/etc..)
 Structure SQR. FT.: ~~6000~~ 6409 (Total square feet of structure)
 Utility Location: solar (Pole/buried: Direction from structure)
 Structure aspect: South (Dominant facing direction/view)
 Garage if detached: — (Total square feet)
 Out buildings: — (Total square feet of sheds, cabins, ect...)
 Leach field: 220' SE (Distance from house, and direction)
 Cistern size: 2 x 2,500 (gallons)
 Cistern: ~~point~~ + 50' (Distance from house, and direction)
 Cistern Type: cement (Domestic Cistern or Fire Cistern)

Making a donation to community cistern : — (Yes or No)

Have you talked to the local fire department : — (Yes or No)

Are you required to have a sprinkler system : — (Yes or No)

Water supply: — (Well or main line)

Well (if applicable): 40' (Distance from house, and direction)

Propane or natural gas: Propane

Propane Tank location: 80' West (Distance from house and direction)

Slash disposal: — (Chipped/hailed/burned/lop-scatter)

Can you provide a copy of a map with locations : — (Yes or No)

Attached: 2 pgs - Long Legal
 1 pg - Boulder County Location Map
 3 pgs - House elevations
 1 pg - Site plan layout

This part will be filled out by the CSFS inspecting forester

FPD: _____

Dominant fuel type: _____ (Grass/forbs/shrubs/slash/etc)

Dominant overstory: _____

Co-dominant overstory: _____

Fuel model type: _____

Aspect: _____ (Direction of slope)

Slope: _____

Building site: _____ (Chimney/saddle/valley/ridge/mid-slope)

Site moisture: _____

Natural fire barrier: _____

Insect & Disease Diagnosis: _____



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MUTUAL EASEMENT DEED

THIS MUTUAL EASEMENT DEED, dated this 21st day of October 1999 and delivered effective as of the dates below written with respect to each of the grantor's signatures, is made by and among, DENDRANE, LLC, PERCEVAL, LLC, Emmanuel A. Sammartino and Susan Sammartino, James J. and Eve Weglarz, David B. Kinney, Robert C. Tarantino and Dale Tarantino, James W. and Janet E. Reed, Wayne Boudreaux and Kathryn G. Boudreaux, Jeanette A. Morse and Kevin R. Morse, and Kevin R. Morse and Linda R. Morse whose legal addresses are shown below (hereinafter collectively referred to as the "Owners"), each of whom has a record interest in some portion of the lands traversed by and adjoining a road existing in the NE¼ of Section 27 and the NW¼ of Section 26, both in Township 2N, Range 72 West, 6th P.M., the centerline of which is more particularly described on Exhibit "A" attached hereto and by this reference incorporated herein and made a part hereof (hereinafter referred to as the "Road");

WITNESSETH:

WHEREAS, the Owners are all of the parties having any record interest in the Road; and

WHEREAS, the Owners desire to grant to one another mutual non-exclusive easements in the Road, to be used and maintained as a private right of way for vehicle travel and underground utilities;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby confessed and acknowledged, the Owners hereby make the following grants, agreements, and covenants;

1. Grant. Subject to the terms and conditions set forth herein, each of the Owners, as Grantor, hereby grants and conveys to each of the other Owners, as Grantees, and to their successors and assigns, without warranty of title, a private, non-exclusive 20-foot easement (10 feet on each side of the centerline described in the attached Exhibit A) for an access road and underground utilities, over and across that segment of the Road which each of the Owners, as Grantor, now owns.

2. Use, Construction and Maintenance

(a) Reservation of Rights. Exclusive use of the Road is not hereby granted. Each Grantor/Owner expressly reserves the right to use his/her/its segment of the Road, provided such use does not unreasonably interfere with any other Grantee/Owner's use or the entire Road for vehicle access and underground utilities. Each Grantor/Owner further reserves all minerals and non-contributory water in and under his/her/its segment of the Road, together with the right to use the surface or subsurface thereof, provided such use does not unreasonably interfere with any other Grantee/Owner's use of the entire Road for vehicle access and underground utilities.

(b) Limitations on Road Construction, Maintenance Obligations, Etc. Each Grantor/Owner expressly covenants and agrees that any Grantee/Owner may grade the existing Road, improve drainage for the existing Road, or provide other maintenance and improvement to the existing Road so long as the same does not change the character of the existing Road from a graveled, dirt road for residential purposes. Each Grantor/Owner and Grantee/Owner further covenant and agree that in the course of such maintenance, improvement, and use of the existing driveway in the Road, the existing gravel or dirt driveway in the Road shall not be paved or relocated, nor shall any vegetation or natural land formations within the Road be removed, altered, or damaged, without the express, written consent of the Grantor/Owner on whose parcel of real property such are located.

Handwritten signature/initials

Handwritten mark



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Construction and/or maintenance of the Road, or any segment thereof, may be undertaken by any party hereto at his/hers/its expense. If contribution toward such expense is desired, then agreement to share costs reasonably incurred for construction or maintenance must be obtained in advance of commencement of the work from all persons from whom contribution is sought. The width of the traveled way of any roadway to be constructed or maintained within the Road shall be not less than 8 feet nor greater than 20 feet.

(c) Utilities. Each Owner/Grantee herein shall have the right to grant easements or licenses to any utility company to use the Road for the purpose of providing utility services to the lands of such Owner/Grantee. No utilities shall be placed above ground without the express, written consent of the Grantor/Owner on whose parcel of real property such are located. The right to use the Road for utilities is and shall be subordinate and inferior to the right of use thereof for access as provided above.

(d) Special Uses. Under no circumstances shall access be denied to or from any lands whatsoever over and across the Road for emergency vehicles (fire or ambulance), school buses and road maintenance equipment.

(e) Use by Permission. All guests, invitees (business or social), employees, agents and contractors of any Owner/Grantee herein shall be permitted to use the Road for vehicle access to and from the lands of such Owner/Grantee. The phrase "vehicle access" as used in this Mutual Easement Deed shall be broadly interpreted to mean pedestrian, equestrian and other forms of travel for which roads in Boulder County, Colorado, are customarily used.

3. Subsequent Owners. The mutual easements granted herein shall be appurtenant to the lands of each Owner/Grantee which abut the Road, or which are traversed by the Road, and may not be transferred, assigned or conveyed apart or separately from such lands.

4. Termination of Covenant Liability. Whenever a transfer of fee simple ownership of any of the lands abutting the Road shall occur, the transferor shall have no liability for any breach of covenant occurring after such transfer.

Handwritten initials/signature

Boulder County Land Use Department PreApp - Location Map

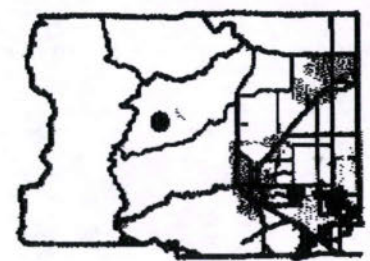


This map is for informational purposes only and, in itself, does not indicate whether property will conflict with any Comprehensive Plan or Environmental Resources. Review processes may also reveal environmental resources not found on County maps.

Legend

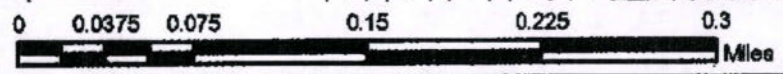
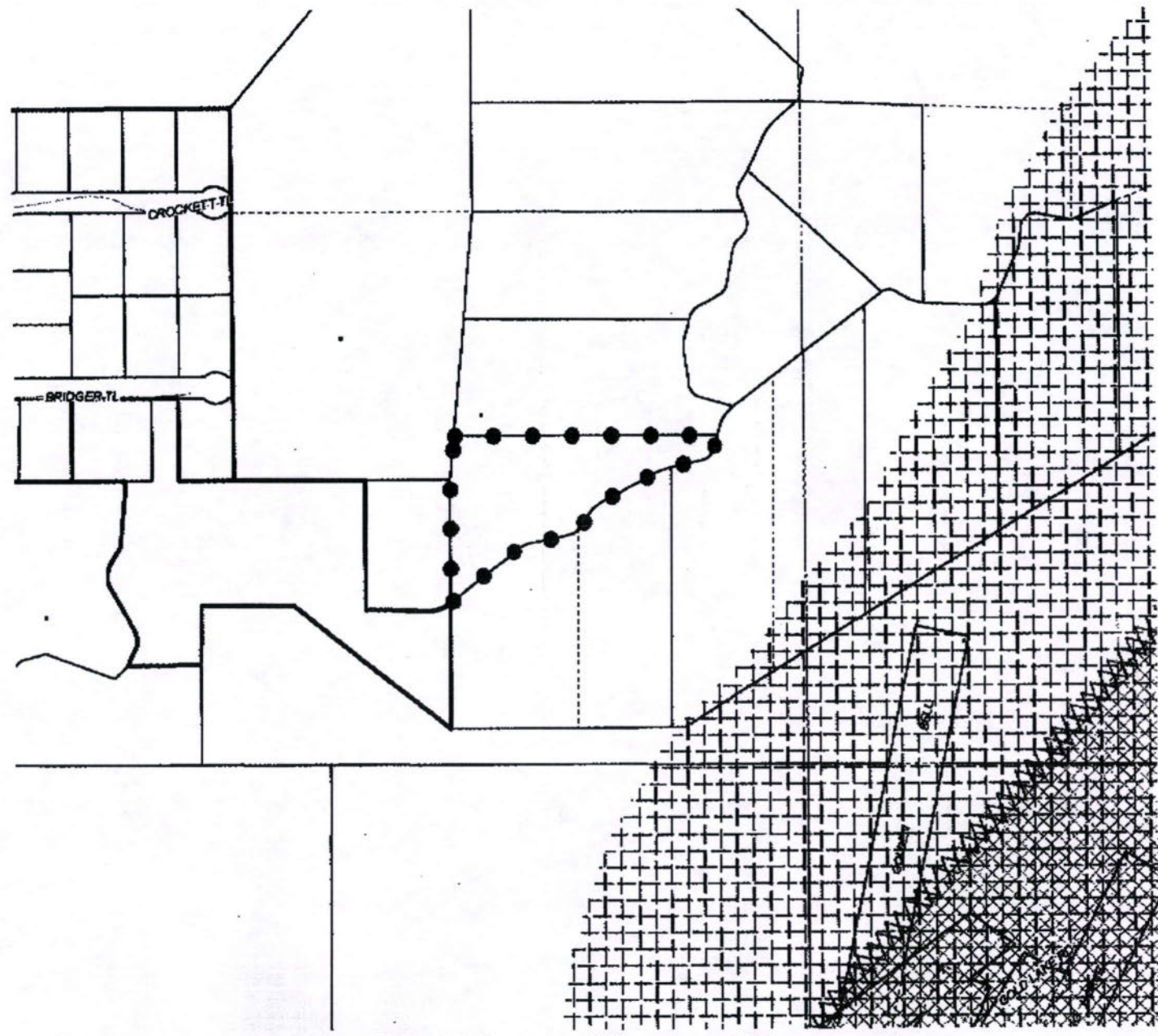
- Archeologically Sensitive Travel Routes
- Municipalities
- Archeologically Sensitive Areas
- Open Corridors, Roadside
- Open Corridors, Streamside
- Overland Habitat Connectors
- Stream Habitat Connectors
- Significant Riparian Corridors
- Critical Wildlife Habitats
- Rare Plant Areas
- Floodplain - FD Zoning District
- Environmental Conservation Areas
- Natural Landmarks and Areas
- Significant Natural Communities
- Significant Agricultural Lands**
 - National Importance
 - Statewide Importance
 - Local Importance

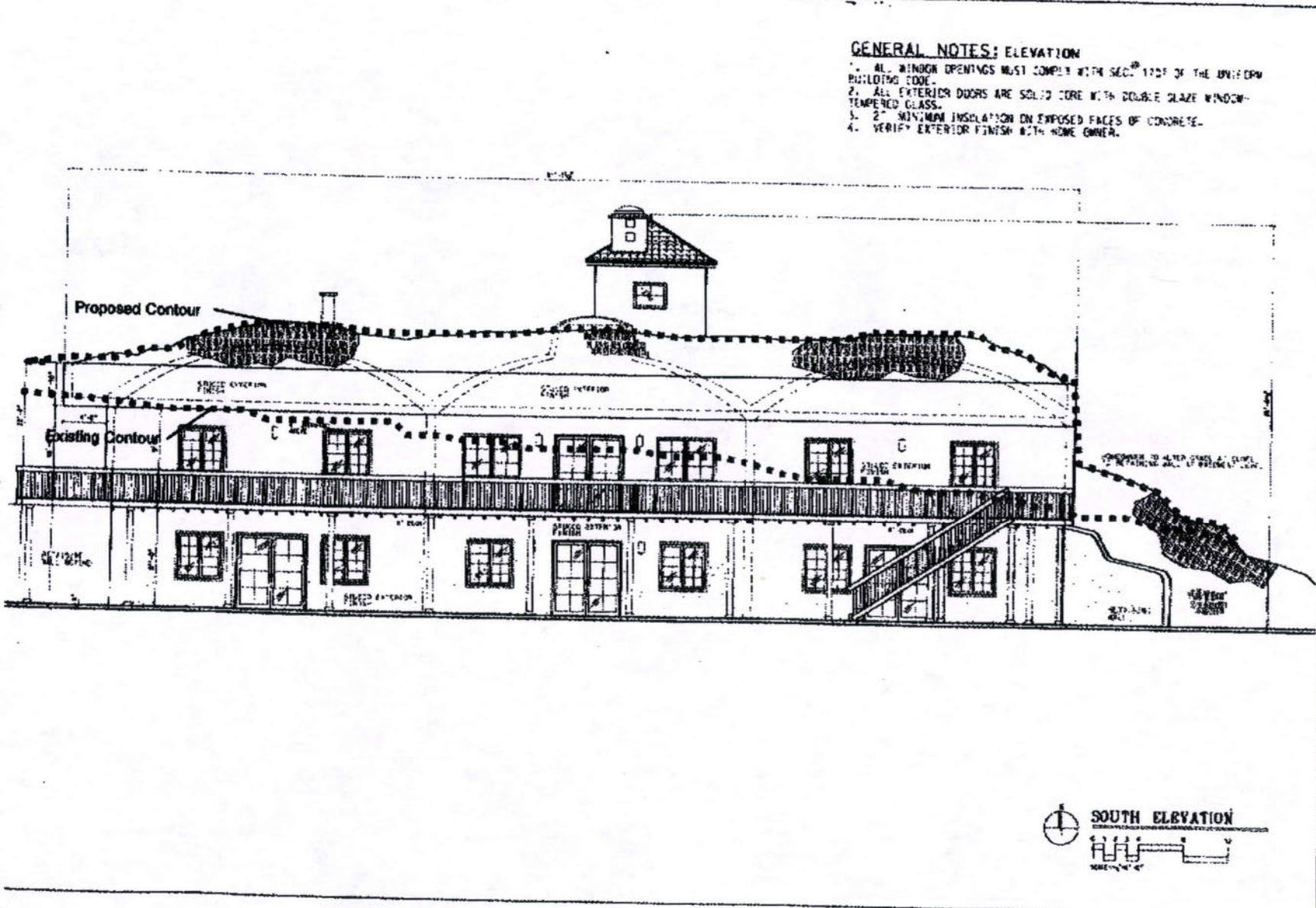
Map Location



This map is for Boulder subject only, and does not show specific details such as: The areas covered are not guaranteed. No warranty is made by the County for any use of this map.

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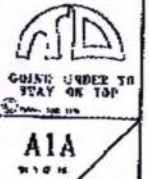
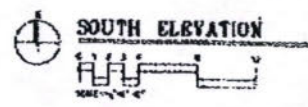


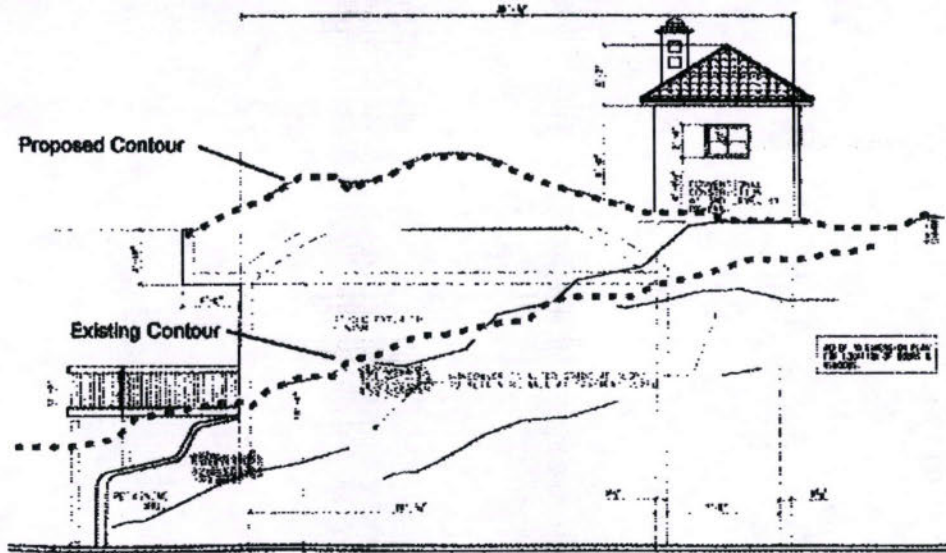
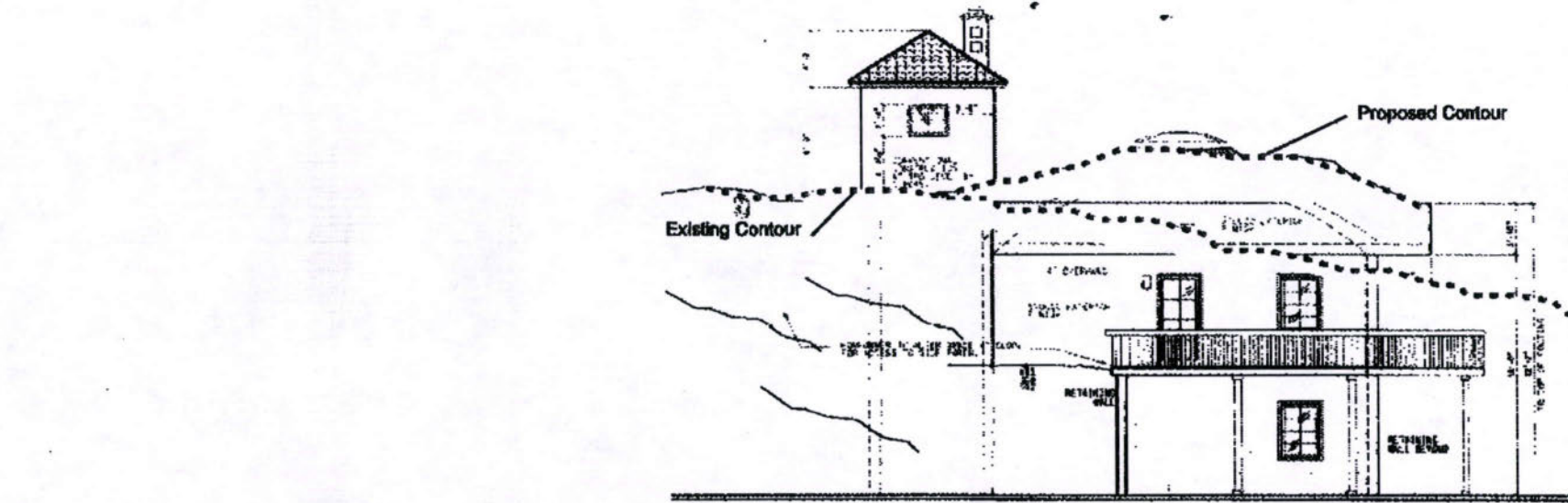


GENERAL NOTES: ELEVATION

1. ALL WINDOW OPENINGS MUST COMPLY WITH SEC. 1702 OF THE UNIFORM BUILDING CODE.
2. ALL EXTERIOR DOORS ARE SOLID CORE WITH DOUBLE GLAZE WINDOW-TEMPERED GLASS.
3. 2" MINIMUM INSULATION ON EXPOSED FACES OF CONCRETE.
4. VERIFY EXTERIOR FINISH WITH HOME OWNER.

<p>TERRA-DOME CORPORATION 1000 S. 1st Street, Suite 100 Phoenix, AZ 85004 Phone: (602) 257-0000 Fax: (602) 257-0001 Website: www.terra-dome.com</p>	<p>APPROVALS</p> <p>1. APPROVAL: _____</p> <p>2. APPROVAL: _____</p> <p>3. APPROVAL: _____</p>	<p>PROFESSIONAL APPROVALS</p> <p>1. APPROVAL: _____</p> <p>2. APPROVAL: _____</p>	<p>PLAN SET SUBMISSION</p> <p>PROJECT NO. 07-001-001 DATE: 09/22/07 DRAWN BY: J. B. BAKER CHECKED BY: J. B. BAKER SCALE: AS SHOWN</p>	<p>REV. DATE REVISIONS</p>
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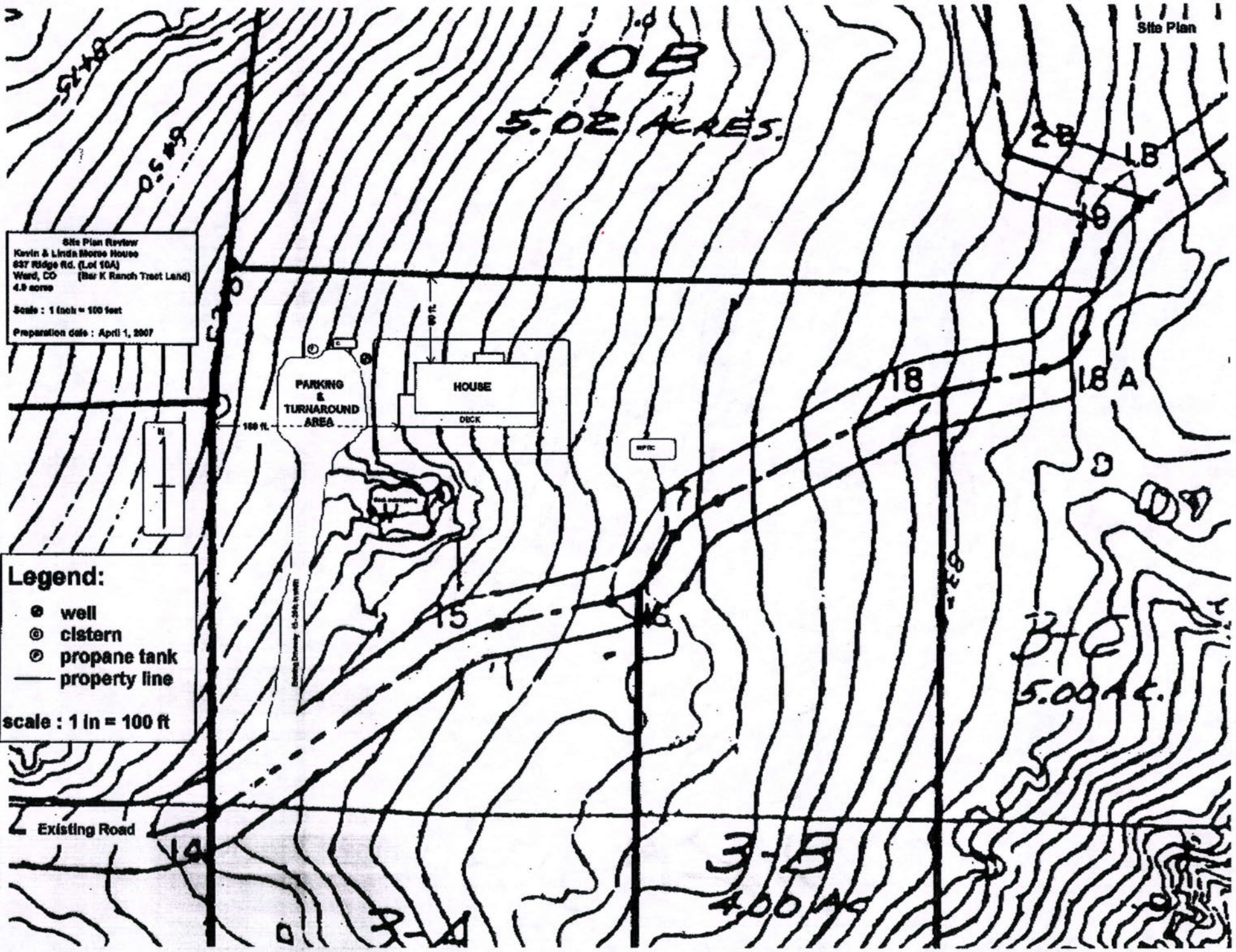




GENERAL NOTES: ELEVATION

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2. ALL EXTERIOR DOORS ARE TO BE CORE WITH DOUBLE GLAZE WINDOW-TEMPERED GLASS.
3. 2" MINIMUM INSULATION ON EXPOSED FACES OF CONCRETE.
4. VERIFY EXTERIOR FINISH WITH HOME OWNER.

REVISIONS	DATE	REVISIONS
FIELD SET REVISIONS		
PROFESSIONAL		
APPROVAL		
TERRA-DOME CORPORATION		
GOING UNDER TO STAY ON TOP		
AIB		



Site Plan Review
 Kevin & Linda Morse House
 637 Ridge Rd. (Lot 10A)
 Ward, CO (Bar K Ranch Tract Land)
 4.9 acres
 Scale : 1 inch = 100 feet
 Preparation date : April 1, 2007



Legend:

- well
- ⊙ cistern
- ⊙ propane tank
- property line

scale : 1 in = 100 ft

Existing Road

Site Plan

