



*Knowledge to Go Places*

Boulder District  
5625 Ute Highway  
Longmont, Colorado 80503-9130  
(303) 823-5774

December 16, 2002

Eric Philips  
Boulder County Land Use Department  
P.O. Box 471  
Boulder, CO 80306

Hey Eric,

Enclosed is a copy of SPR # 02-187, for Robert Broadie's property. It has been marked, but I have not received payment and I have not inspected the property. It was marked on December 16, 2002.

If you have any questions, please feel free to contact me.

Sincerely,

A handwritten signature in dark ink, appearing to read "Cory Secher".

Cory Secher  
Forester



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5625 Ute Highway  
Longmont, Colorado 80503-9130  
(303) 823-5774

December 16, 2002

Doug Miller  
P.O. Box 1549  
Nederland, CO. 80466

Dear Doug,

Enclosed is a copy of the Wildfire Mitigation Site Plan Review for Mr. Robert Broadie, building address of 1549 Caribou Rd., Nederland CO 80466.

When you have completed the work, please call me so we can set up an inspection. If you have any questions about the SPR process or any concerns about forest management issues, please feel free to contact me.

Sincerely,

A handwritten signature in dark ink, appearing to read "Cory Secher". The signature is fluid and cursive, with a long horizontal stroke at the end.

Cory Secher  
Forester



## **WILDFIRE HAZARD MITIGATION PLAN – SPR # 02 - 187**

**Prepared for:**

Robert Broadie  
P.O. Box 1811.  
Nederland, CO 80466

On December 16, 2002

**Prepared by:**

Cory Secher  
Forester  
Colorado State Forest Service  
[hasmus@lamar.colostate.edu](mailto:hasmus@lamar.colostate.edu)

### **SITE LOCATION AND DESCRIPTION OF PROPERTY**

The property is located off of Peak-to-Peak Highway approximately 2 miles down Caribou Rd., located in Boulder County. The address of the property is **1549 Caribou Rd., Nederland CO 80466.**

The dominant fuel type consists of young lodgepole pine, blue spruce, and some aspen. The dominant overstory consists of lodgepole pine with the occasional Ponderosa pine and Douglas fir throughout the stand. No major disease or insect infestation was observed within the defensible space marking area. However, some old witches broom was observed on a few of the lodgepole pines (they were marked to be cut). The home site is located at the bottom of a 10% Western slope. The property is located within the Nederland Fire Protection District.

The property is characterized by **Fuel Model 9**. Fuel Model 9 is represented by closed canopy stands of ponderosa pine, and mixed conifer. Under story consists of small trees and shrubs, grasses, and moderate concentrations of down, dead woody litter.

The initial property inspection for a wildfire hazard mitigation consultation occurred on December 16, 2002. Red flagging was used to indicate zone 1 marked at two 50-foot intervals equaling 100 feet from future structure boundaries. The trees to be taken out were marked on the Northern side with blue tree marking paint for forest health thinning and clearing recommendations. A final inspection will be completed when implementation is completed. Payment for marking and written plan was received on \_\_\_\_\_, for the amount of \$150. Payment for the final inspection was received on \_\_\_\_\_, for the amount of \$45.

### **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 area.

It is recommended that access driveway, as well as the property address, be marked with visible signage.

There are three zones of protection to be created around the homesite for defensible space. Zone 1 is the most critical and affords the most protection to the site. Zones 2 and 3 are extensions of this protection.

### ZONE 1

Zone 1 is the area of maximum modification. It starts at the foundation or outer edge of the structure (i.e. from the "footprint" of the home site, which may include decks, balconies, and character trees accepted by the inspecting forester) and extends out 15 feet in all directions. All flammable vegetation should be removed in this zone. As per Boulder County Land Use Department, create a 3-foot wide strip of nonflammable groundcover immediately adjacent to the structure. This can be accomplished by using decorative rock or gravel. This strip should surround the house and extend under any decks to 2 feet out past the drip line of the decks.

Thinning and pruning are necessary to create defensible space at the site. **All trees marked in blue should be removed.** Trees for removal were selected because of their poor form and/or lack of vigor in addition to their close spacing. Tree removal will improve the health of the remaining trees in addition to mitigating wildfire hazards.

Remove ladder fuels from beneath trees. Ladder fuels are small shrubs, trees, tree limbs, etc. that allow a fire to climb into a tree's crown. **Limb trees to a height of ten feet on the remaining trees in this zone.** For young, small trees in this zone, limb the lower third of the tree's height.

### ZONE 2

Zone 2 extends out from zone 1; it is a transition zone between the heavily thinned areas near the house to a more traditional forest setting. In this zone, some clusters of trees are acceptable if there is adequate spacing between clusters.

Zone 2 may extend 40-90 feet from the structure depending on the slope and aspect of the site. On your property we have considered Zone 1 and 2 to extend approximately 45 feet each, from all sides of the structure. In zone 2, **limb remaining trees to a height of eight feet.** As you approach the outer edge of zone 2, reduce limbing height to six feet. Lower branches of young, small trees in this zone should be limbed to one third of the tree's height.

### ZONE 3

Zone 3 extends out from zone 2, and is of no set shape or size. Forested land in this zone could be thinned for increased overall forest health and wildfire hazard reduction. The following guidelines apply if you (and your neighbors) decide to work in these areas.

- Thin suppressed trees and trees with disease and insect infestations and retain the larger, healthier trees.
- Snags should 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.

**All cutting, limbing and slash treatments must be completed prior to scheduling an inspection. Contact me to set up an inspection date at least two weeks before you need the approval.**

Implementing this wildfire mitigation plan and maintaining your defensible space will help reduce the threat of wildfire to your home, but does not guarantee its safety.

In addition to the above recommendations, several other measures can be taken to make your home and family more prepared for and adapted to life in a fire prone ecosystem. While not required through Site Plan Review, other measures are recommended for those who live in the wildland-urban interface. These include:

1. Be aware of fire danger. Signs are posted at the entrances of most major canyons.
2. Clean roof and gutters at least twice a year.
3. Stack firewood uphill at least 15 feet from buildings.
4. Do not store combustibles under decks.
5. Screen off foundations, roof and attic openings.
6. Screen and maintain spark arresters on chimneys.
7. When possible, maintain an irrigated greenbelt around the home.
8. Connect and have available at least 50 feet of garden hose during fire season.
9. Post lot and house numbers so that they are clearly visible.
10. Maintain the site's defensible space annually. Contact the Colorado State Forest Service for a 5-year maintenance inspection.

## 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.

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

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

Overstory – The tree species that forms the uppermost forest layer.

Snag – Standing dead tree, often used by wildlife such as woodpeckers, owls, and sometimes squirrels.

Wildfire mitigation plan – A plan to reduce wildfire hazards around a home or other structure through fuels reduction and landowner awareness.





May 22, 2003

*Knowledge to Go Places*

Eric Phillips  
Boulder County Land Use Department  
P.O. Box 471  
Boulder, CO. 80306

Boulder District  
5625 Ute Highway  
Longmont, Colorado 80503-9130  
(303) 823-5774

Dear Eric,

The SPR for Mr. Robert Broadie has been inspected on 5-21-03 and approved, the SPR# is 02-187. He still had a few ladder fuels to remove, however I will stop by later next week to ensure they finished what I marked. For all purposes this property has been inspected and approved (5-21-03).

Mr. Doug Miller is his contractor for building and he made a suggestion that may improve our process. He suggested that a simple chronological outline of the process would be helpful in the future. I think he may be right.

Sincerely,

A handwritten signature in cursive script, appearing to read "Cory Secher".

Cory Secher  
Forester





*Knowledge to Go Places*

May 22, 2003

Mr. Doug Miller  
P.O. Box 1549  
Nederland, CO. 80466

Boulder District  
5625 Ute Highway  
Longmont, Colorado 80503-9130  
(303) 823-5774

Dear Doug,

I have sent you a copy of what I have sent to Boulder County Land Use Department, Eric Philips. I sent a email accompanied with a hard copy via snail mail so Mr. Philips should have this information today (5-22-03). My part is complete in this process; however if you have any further questions or suggestions regarding the SPR process please contact me at 303.823.5774.

Please send me a few business cards. It may be beneficial for you in the future, who knows.

Sincerely,

A handwritten signature in cursive script, appearing to read "Cory Secher".

Cory Secher  
Forester



To:

Invoice No. 61189Mr. Doug MillerP.O. Box 1549Nederland Co. 80466

**Colorado  
State**  
FOREST  
SERVICE

Date: 12-16-02

Item	Unit Cost	Total
1 SPR # 02-187		
2 Wildfire Mitigation Plan/D-space Marking.	150	150
3 Inspection	45	45
4		
5		
6		
7		
8		
9		
Tax Exempt No. _____	Sales Tax	

Total 195.<sup>00</sup>

CK-CA-MO Amount Paid:

Amount Due 195.<sup>00</sup>

Ck#

Dated

Rcv'd By

F.Y.

Funding

Amount

2235300615195.<sup>00</sup>

Deposit No.

Date

CSFS Originator

Payment Due By 1-20-03

Remit to:

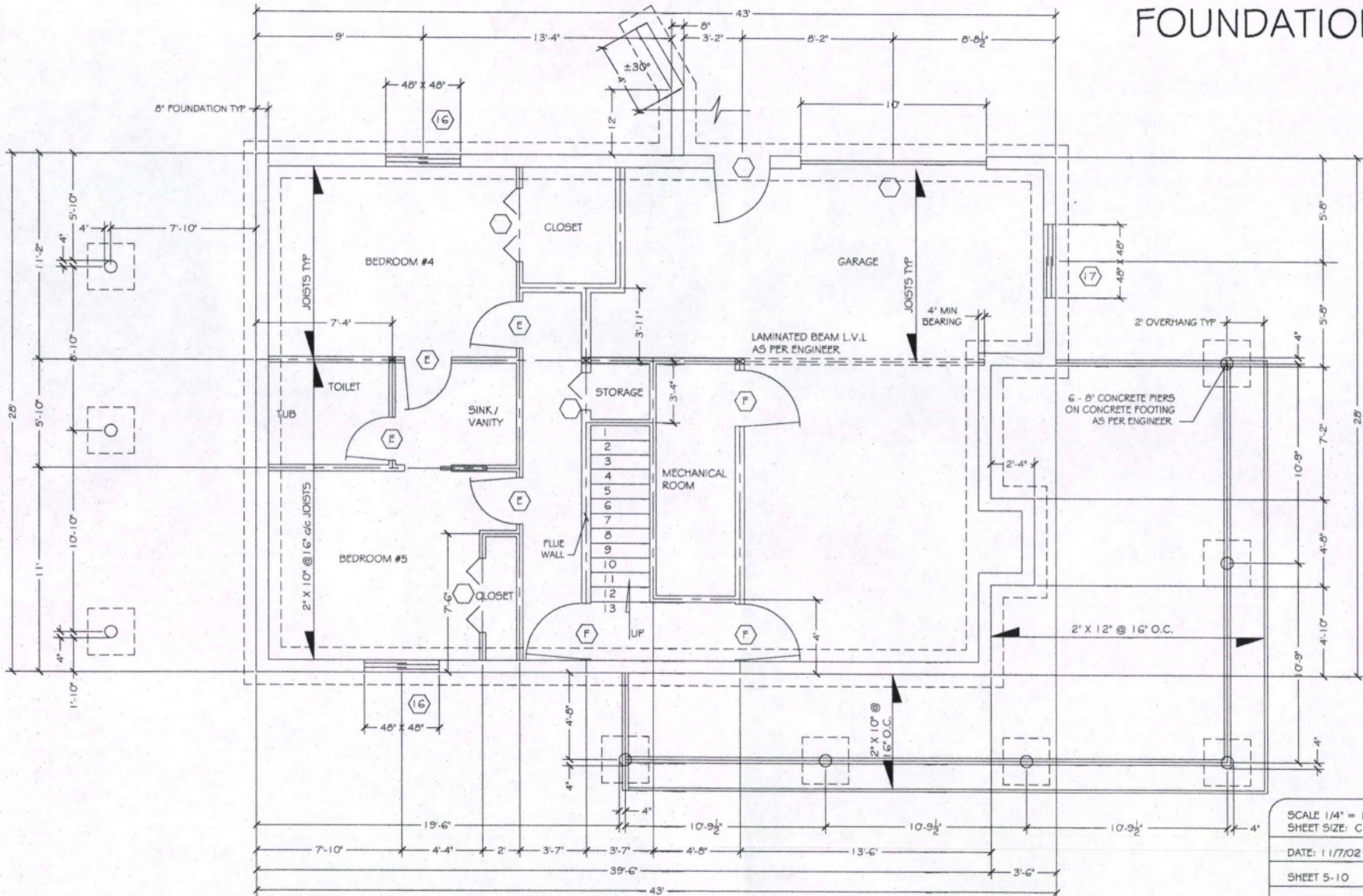
COLORADO STATE FOREST SERVICE  
BOULDER DISTRICT  
5625 UTE HIGHWAY  
LONGMONT, CO 80503-9130



Bob Bradie

SPR # 02-187

# FOUNDATIONS



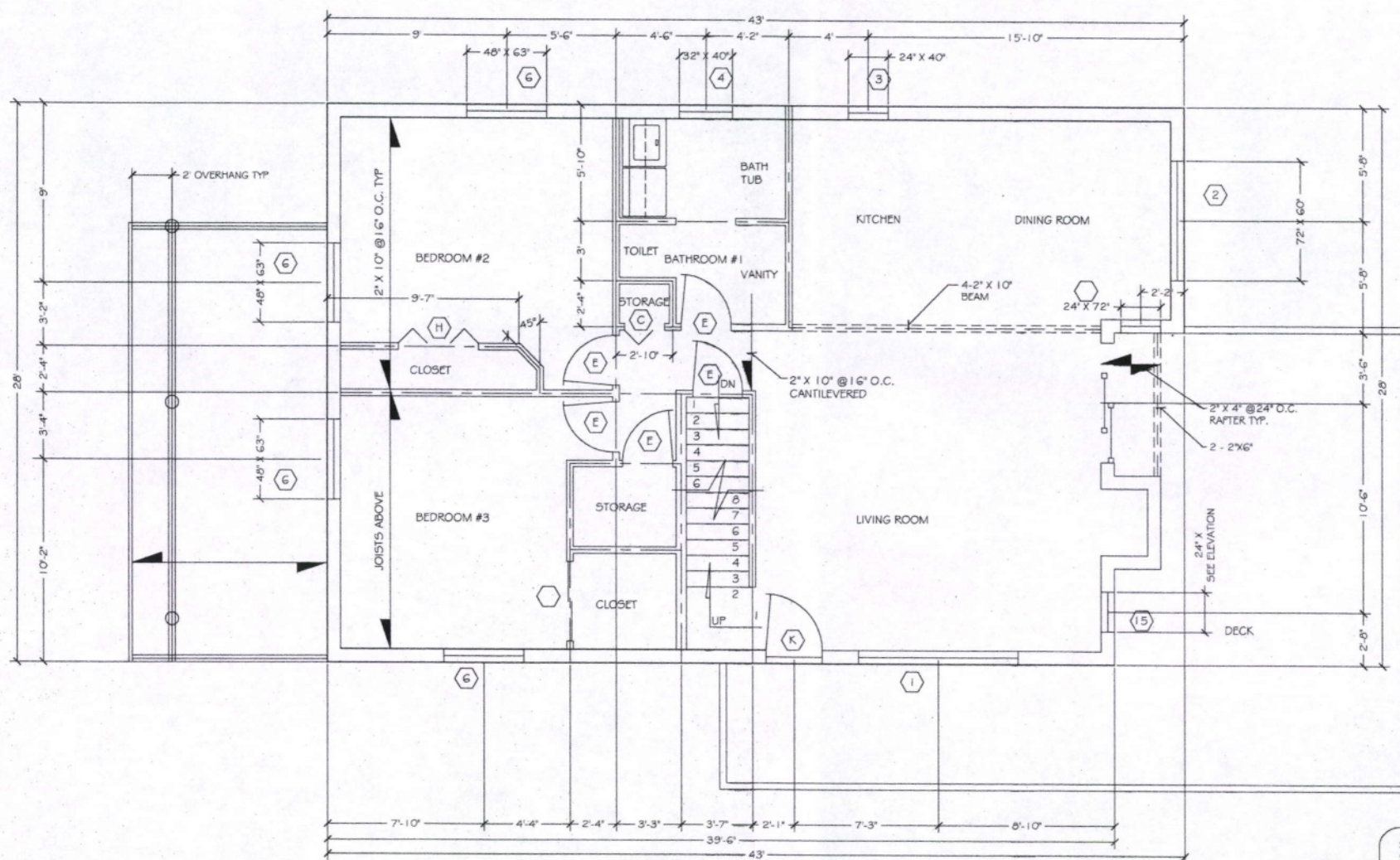
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DATE: 11/7/02

SHEET 5-10

CADFILE: MILLER 001.DWG





# GROUND FLOOR

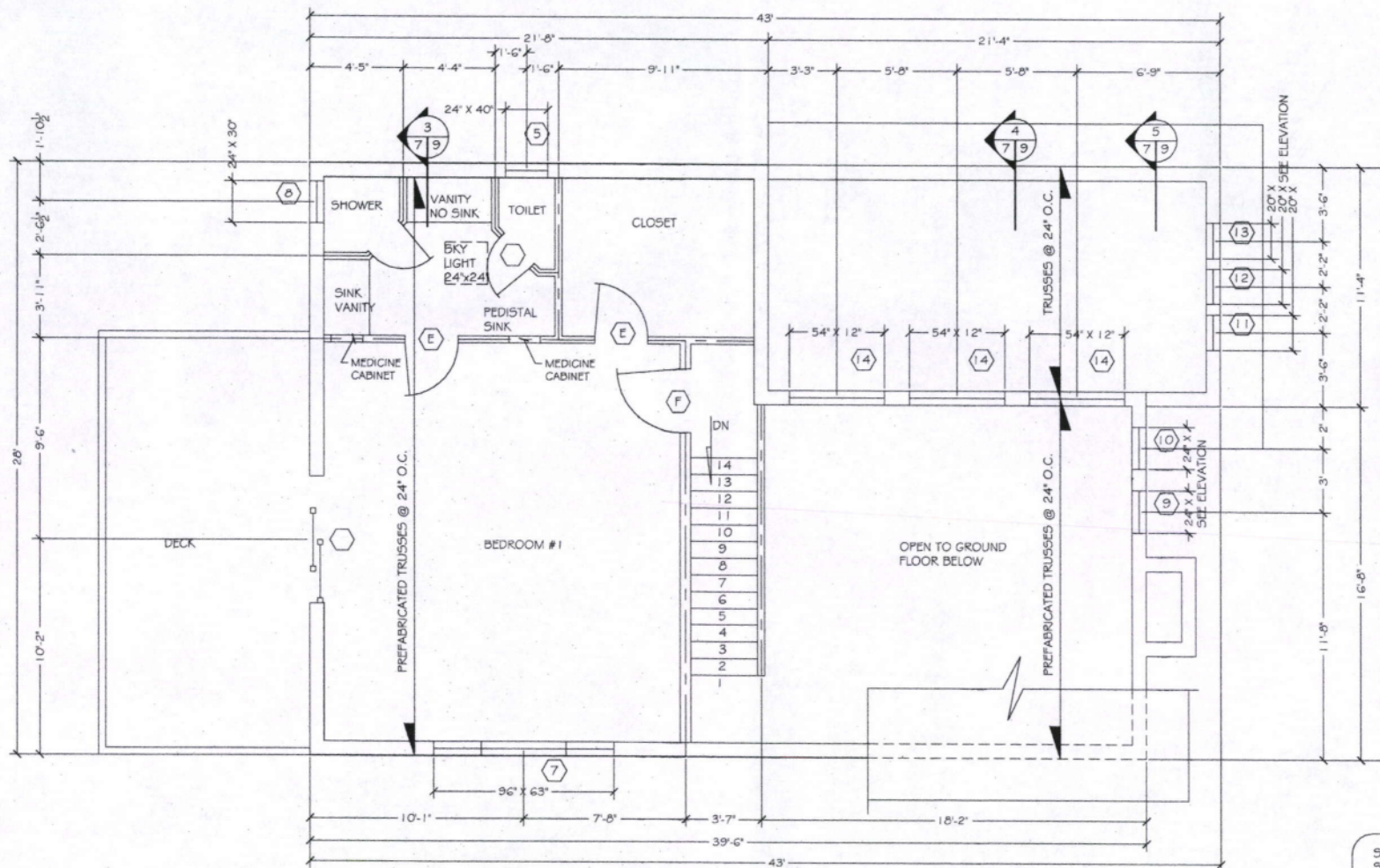
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DATE: 11/7/02

SHEET G-10

CADFILE: MILLER 001.DWG





## SECOND FLOOR

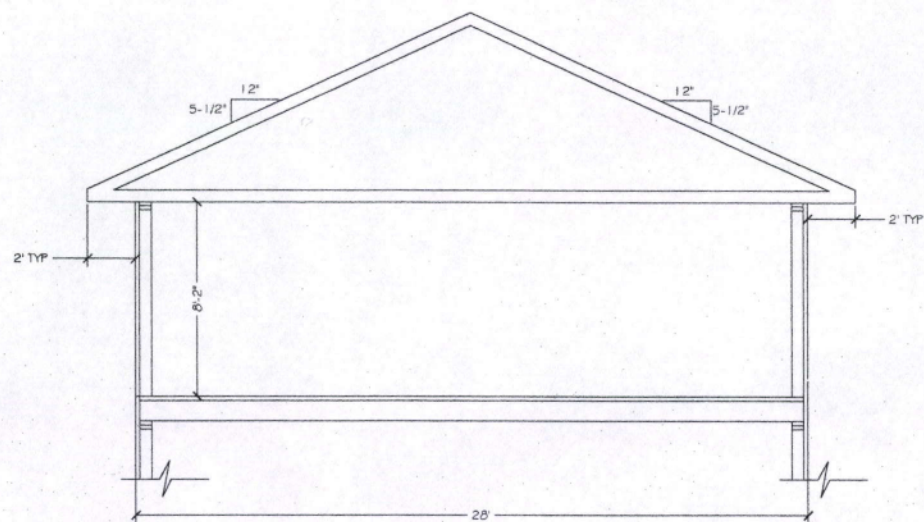
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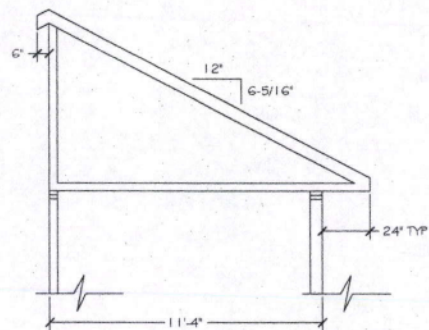
SHEET 7-10

CADFILE: MILLER 001.DWG

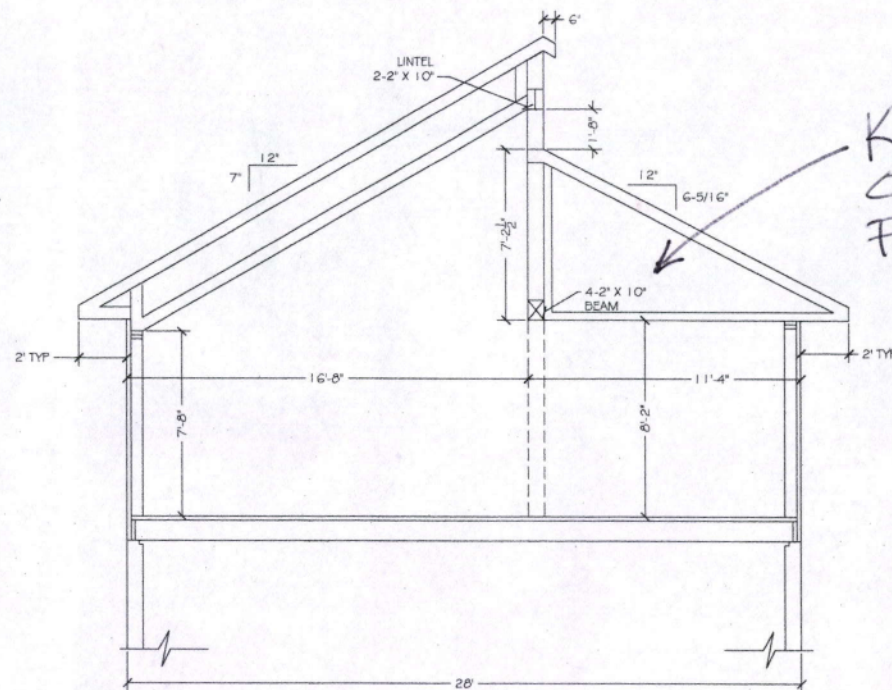




3  
7 9 SECTION



5  
7 9 SECTION



4  
7 9 SECTION

KEEP  
OPEN  
FOR ATTIC  
(NO CHORDS  
PLEASE)

SCALE 1/4" = 1'-0"  
SHEET SIZE: C

DATE: 11/7/02

SHEET 9-10

CADFILE: MILLER 001.DWG



DOUG MILLER

BUILDER

3035170000

Box 1549 TODAY - 642 - 7484

NETHERLAND, Co.

80466

AG Bro 1811  
Netherlands, 80466

PROP. ADD.

1549 CARIBOU RD.

NED.

14 5  
2 3

Lo Lodge pole pine

blue spruce

Few Ponderosa

Aspen grove / some internal component

Few white fir

Slope Aspect:

12'

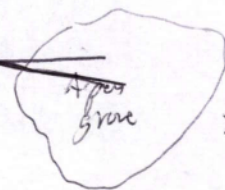


E

downhill side of a western slope

→ west

~~15-20°~~  
8-12°




Aspen grove

flat ground



m

SPR

	<p>Boulder District 5625 Ute Highway Longmont, CO 80503 (303) 823-5774 (303) 823-5768 fax</p>
<p>Name: <u>Doug Miller (Construction)</u> Address: _____ _____ _____ → <u>642-7484</u> Phone: <u>258-0444 / 517-0000 (cell)</u> Appointment Date: <u>Dec. 16, 02 9:00 am</u></p>	<p><input type="checkbox"/> Defensible Space <input type="checkbox"/> Fire Mitigation <input type="checkbox"/> Insect and Disease Control <input type="checkbox"/> Interested Neighbors <input type="checkbox"/> Acreage/Size: _____</p>

Directions: Caribou Rd. (Right) →  
meet at P-P and Caribou  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
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Comments: Caribou Rd - Needed in Morning Preferred.  
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