

Materials Submitted for:

SPR-07-025 Haas demo/residence
KS 2771 Lee Hill

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: 8/15/07

Landowner name: Julia Haas

Mailing address: 2775 Lee Hill Rd

City, State, Zip: Boulder, CO-80302

Site address: 2771 Lee Hill Rd

Phone number: 720-406-0964

Road access: Lee Hill Dr (Directions from main access road)

Docket Number: SPR-07-025 (SPR, LU, Etc.)

Section: 2

Township: 1 north

Range: 71 west of the 6 p.m.

Legal Description: _____

Elevation: _____ 6600 _____ (feet)

Lot size: _____ 3.8 _____ (Acres)

Driveway length: _____ ~730 _____ (Actual length in feet from road to home) *Credibility of Pollard*

Driveway trees removed: _____ none _____ (few/many/none)

House design: _____ simple _____ (simple/complex)

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

Roof Design: _____ simple _____ (simple/complex)

Roof material: _____ metal _____ (Asphalt shingles/concrete tiles/metal)

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

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

Windows (#): _____ 15 _____ (approximate number of windows)

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

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

Windows Aspect: _____ south _____ (Dominant viewing direction)

Sliding Glass Doors: _____ 3 (2&3 floor) _____ (Location and Number)

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

Window wells: _____ 0 _____ (Number and location if present)

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

Deck material: _____ composite _____ (Wood/composite materials)

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

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

Deck buffer material: N/A (Crushed rock/gravel)

Deck weed barrier: N/A (Fiberglass/polyester)

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

Existing Structures: 0 (House/barn/garage/etc.)

New Structure: 1 (House/Barn/new addition/etc..)

Structure SQR. FT.: 3600 (Total square feet of structure)

Utility Location: pole (Pole/buried: Direction from structure)

Structure aspect: NW East (Dominant facing direction/view)

Garage if detached: 0 (Total square feet)

Out buildings: 0 (Total square feet of sheds,cabins,ect...)

Leach field: NE, 300ft (Distance from house, and direction)

Cistern size: 2 X 1500 (gallons)

Cistern: NE, 150 ft (Distance from house, and direction)

Cistern Type: dom (Domestic Cistern or Fire Cistern)

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

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

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

Water supply: truck (Well or main line)

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

Propane or natural gas: prop

Propane Tank location: _____ 150ft _____ (Distance from house and direction)

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

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

This part will be filled out by the CSFS inspecting forester

FPD: _____

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

Dominant overstory: PiPo _____

Co-dominant overstory: PiPo _____

Fuel model type: Z _____

Aspect: _____ (Direction of slope)

Slope: ~10 - 35 _____

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

Site moisture: Dry _____

Natural fire barrier: _____

Insect & Disease Diagnosis: DM _____

Jerry Long
J.A. Long Const. Co.
2761 Lee Hill Dr.
Boulder Co.
80302

J
Contractors



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

Rec #95, CK #17395, RLS
 SHADED AREAS FOR STAFF ONLY
 INTAKE STAMP
 MAR 16 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 checked="" 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"/> 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"/> EXEMPTION PLAT <input type="checkbox"/> LOCATION AND EXTENT <input type="checkbox"/> RESUBDIVISION (REPLAT) <input type="checkbox"/> ROAD/EASEMENT VACATION	
		<input type="checkbox"/> PRELIMINARY PLAN <input type="checkbox"/> ROAD NAME CHANGE <input type="checkbox"/> SPECIAL USE/SSDP <input type="checkbox"/> EXTENSION OF APPROVAL	
		<input type="checkbox"/> FINAL PLAT <input type="checkbox"/> SKETCH PLAN <input type="checkbox"/> REZONING	
LOCATION(S) - STREET ADDRESS(ES) 2771 LEE HILL DRIVE			
BOULDER, CO 80302			
SUBDIVISION NAME TR, NBR 128, 158, 172 - 178 FOOTHILL			
LOT(S)	BLOCK(S)	SECTIONS(S) 2	TOWNSHIP(S) 1 NORTH
AREA IN ACRES 3.94	EXISTING ZONING FORESTRY	EXISTING USE OF PROPERTY RESIDENTIAL	RANGE(S) 71 W
PROPOSED WATER SUPPLY	PROPOSED SEWAGE DISPOSAL METHOD EXISTING LEACH FIELD		

APPLICANTS

APPLICANT/PROPERTY OWNER JULIA HAAS		EMAIL ADDRESS julyvan@msn.com	
STREET ADDRESS 2775 LEE HILL ROAD			
CITY BOULDER	STATE CO	ZIP CODE 80302	PHONE NUMBER 303-386-1147
FAX NUMBER			
APPLICANT/PROPERTY OWNER		STREET ADDRESS	
CITY	STATE	ZIP CODE	PHONE NUMBER
FAX NUMBER			

AGENT/CONSULTANT BARRETT STUDIO ARCHITECTS		EMAIL ADDRESS bsa@barrettstudio.com	
STREET ADDRESS 1944 20TH STREET			
CITY BOULDER	STATE CO	ZIP CODE 80302	PHONE NUMBER 303-449-1141
FAX NUMBER 303-449-9320			
AGENT/CONSULTANT		STREET ADDRESS	
CITY	STATE	ZIP CODE	PHONE NUMBER
FAX NUMBER			

CERTIFICATION

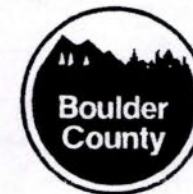
I certify that I am signing this Application Form as an owner of record of the property included in the Application. I certify that the information and exhibits I have submitted are true and correct to the best of my knowledge. I understand that all materials required by Boulder County must be submitted 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 <i>Julia Haas</i>	DATE March 14, 2007
SIGNATURE OF LANDOWNER X	DATE
OTHER SIGNATURE * X	DATE

* Only if the Land Use Director waives the landowner signature requirement for good cause shown under the applicable provisions of the Land Use Code.

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

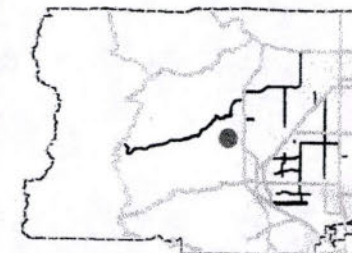
Lots

Nupud

Floodplain

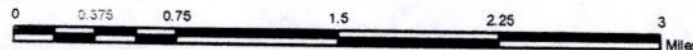
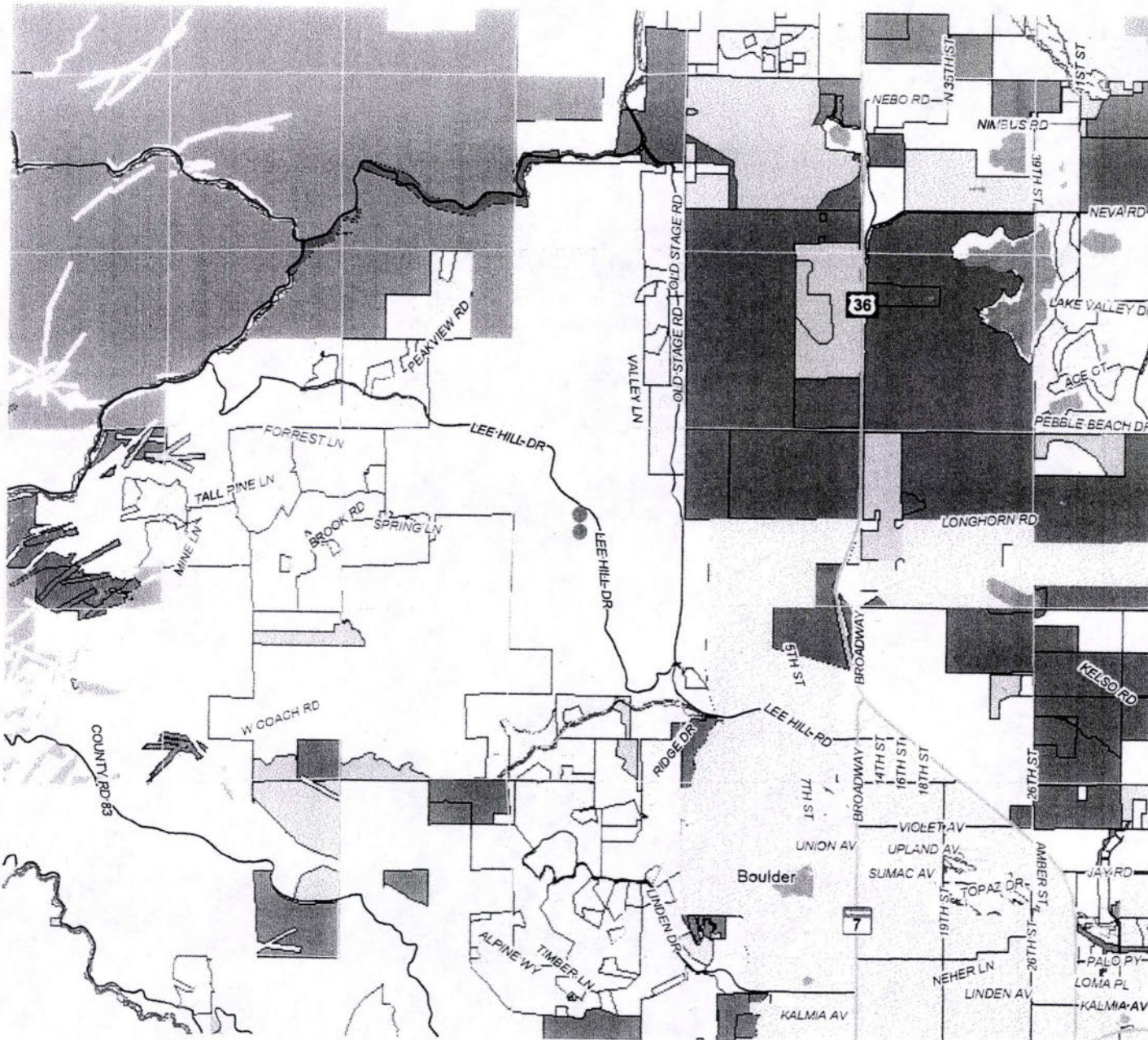
FO Zoning District

Map Location



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

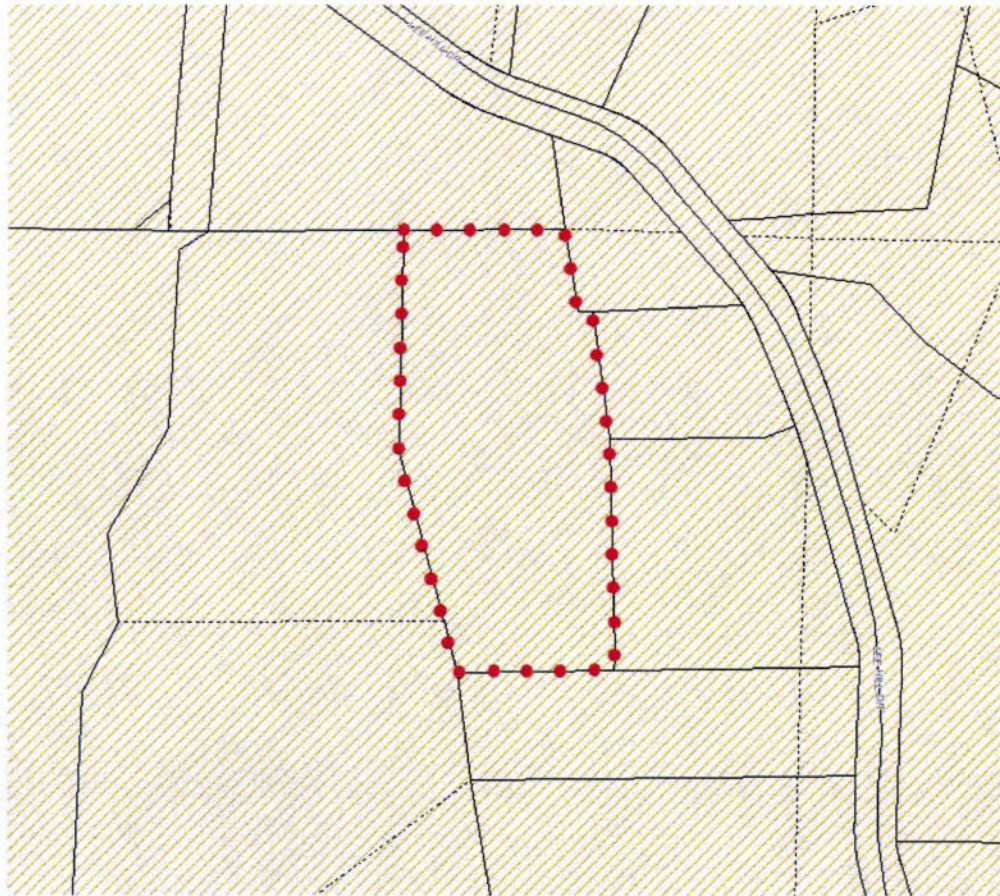
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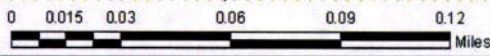
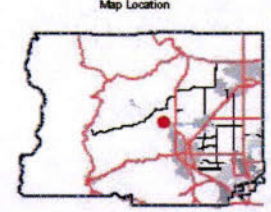
Boulder County Land Use Department
PreApp - Location Map



This map is for informational purposes only and is not intended to indicate whether property will conflict with any Comprehensive Plan or Statewide Policy Resources. Permit processes may also reveal environmental resources not found on County maps.



- Legend**
- Hydrologically Sensitive Travel Routes
 - Municipalities
 - Hydrologically Sensitive Areas
 - Open Corridors, Possible
 - Open Corridors, Creatable
 - Overland Habitat Corridor
 - Stream Habitat Corridor
 - Significant Riparian Corridor
 - Critical Wildlife Habitat
 - Rare Plant Areas
 - Floodplain - FD Zoning District
 - Streambed Concentration Areas
 - State of Landwater Land Areas
 - Significant Riparian Corridor
 - Significant Agricultural Lands
 - National Importance
 - Statewide Importance
 - Local Importance



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Boulder County Land Use Department
PreApp - Location Map



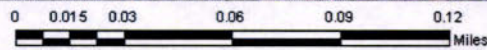
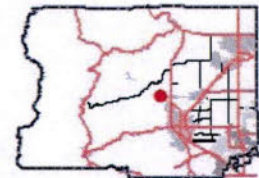
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Legend

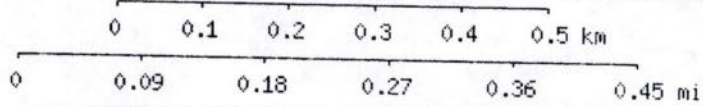
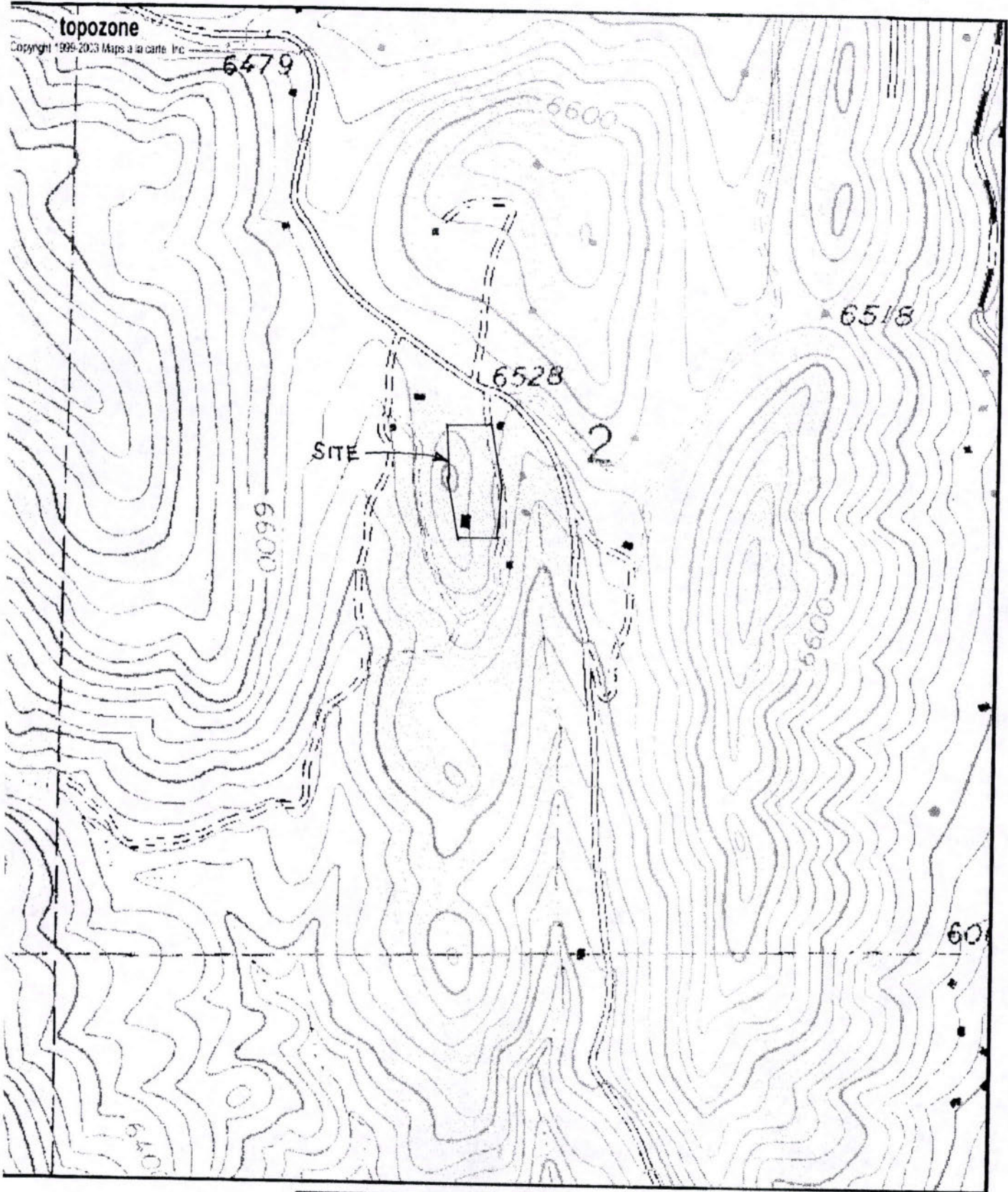
- Archeologically Sensitive Travel Routes
- Municipality
- Archeologically Sensitive Area
- OpenCorridor, Roadside
- OpenCorridor, Cleared
- Overland Habitat Connectors
- Clean Habitat Connectors
- Significant Riparian Corridor
- Critical Wildlife Habitat
- Rare Plant Areas
- Riparian - F0 zoning 80 ft
- Environmental Conservation Areas
- Natural Landmarks and Areas
- Significant Natural Corridor
- Significant Agricultural Lands
- National Importance
- Statewide Importance
- Local Importance

Map Location



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UTM 13 473479E 4436200N (NAD27)





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

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

TOTAL EXISTING FLOOR AREA: 2064 sq/ft DEMOLISH: 2064 sq/ft
(Finished + Unfinished sq.ft. - always include garage if attached)

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

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

STRUCTURE #1:

PROPOSED FLOOR AREA (new construction only)			
	Finished	Unfinished	Total
Basement	<u>550</u> sq/ft	<u>88</u> sq/ft	<u>638</u> sq/ft
1st Floor	<u>1274</u> sq/ft	<u>0</u> sq/ft	<u>1274</u> sq/ft
2nd Floor	<u>1033</u> sq/ft	<u>0</u> sq/ft	<u>1033</u> sq/ft
Garage <input type="checkbox"/> Detached <input checked="" type="checkbox"/> Attached	<u>0</u> sq/ft	<u>727</u> sq/ft	<u>727</u> sq/ft
Covered Deck	<u>240</u>	<u>0</u> sq/ft	<u>240</u> sq/ft
Total	<u>3097</u> sq/ft	<u>815</u> sq/ft	<u>3912</u> sq/ft

Height above existing grade 30'-0"

Exterior wall:
- Material METAL/CEMENT SIDING
- Color GRAY

Roofing:
- Material METAL/EPDM
- Color GRAY

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

Project Identification

Project Name:

HAAS RESIDENCE

Property Address/Location:

2771 LEE HILL DRIVE
BOULDER, CO 80302

Current Owner:

JULIA HAAS

Size of Property in Acres:

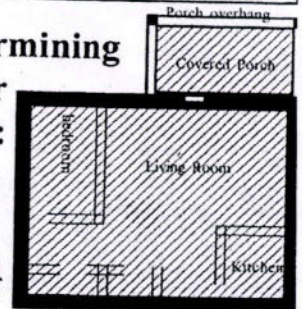
3.94 ACRES

Determining Floor Area:

Area:

Floor area is measured in terms of square

feet as everything within the inside of the outside walls and includes covered porches, garages and basements. The shaded area on the diagram above indicates the area counted as square feet.



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
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

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

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 <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.

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.

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

	Cut	Fill	Total
Driveway & Parking Areas	96 yds ³	0	96 yds ³
Berms	0	0	0
Other Grading:	0	42 yds ³	42 yds ³
Total	96 yds ³	0	138 yds³ Box 1

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

	Cut	Fill	Total
Foundation	115 yds ³	15 yds ³	130 yds ³

Material cut from foundation excavation to be removed from the property. Excess material will be transported to the following location: TBD w/ GENERAL CONTRACTOR

100 yds³

GENERAL CONTRACTOR

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.

This project replaces a poorly-built existing house with a new structure that utilizes the existing footprint as much as possible to minimize site disturbance.

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.

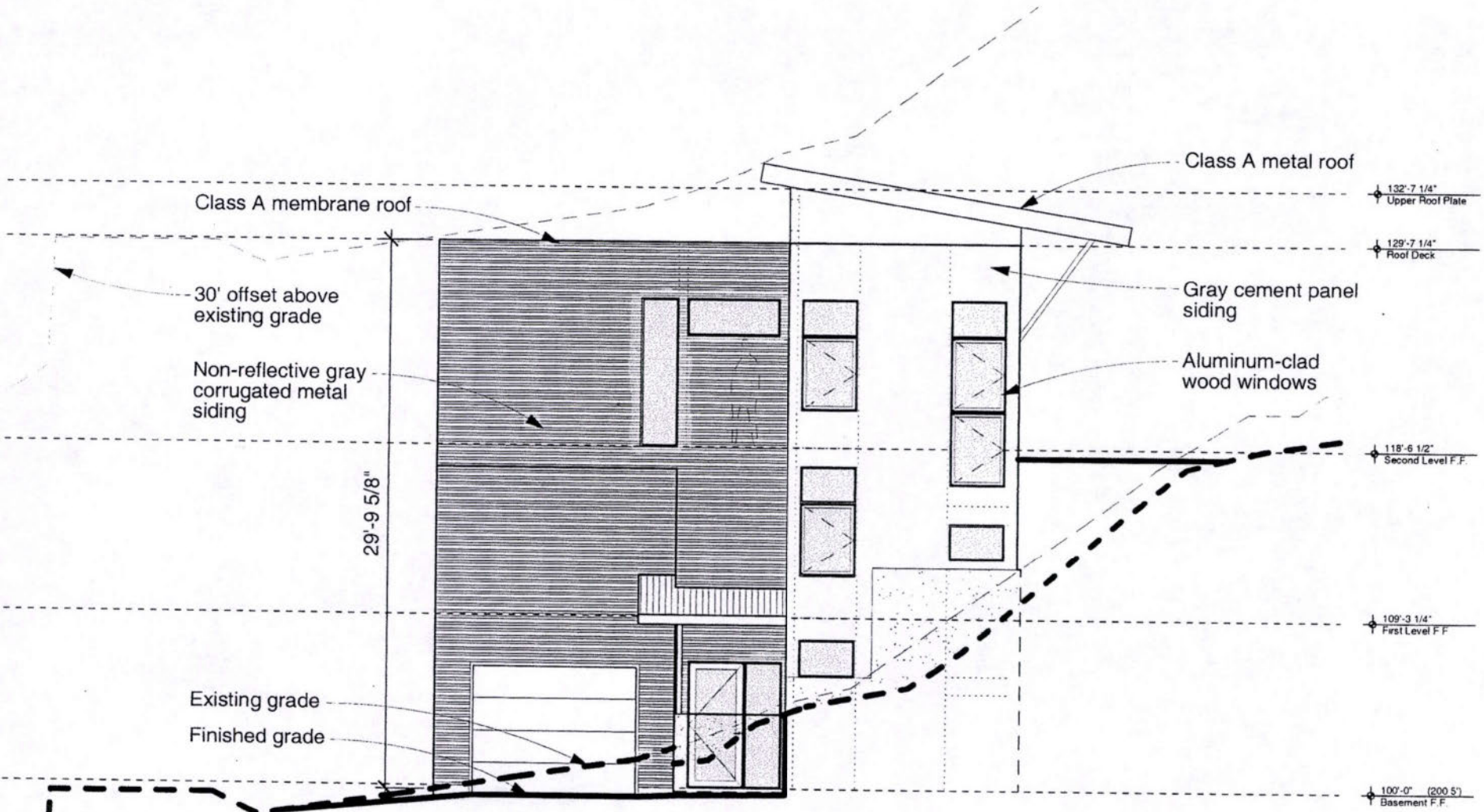
Signature Mathieu Chesney Date 3.16.07

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

1

NORTH ELEVATION

1/8" = 1'-0"




BARRETT STUDIO architects
 Architecture Community/Urban Design Interiors
 1944 20th Street Boulder, Colorado 80302
 phone 303.449.1141 email bsa@barrettstudio.com
 fax 303.449.9320 web www.barrettstudio.com

Date: 3/16/2007
Preliminary Elevations
HAAS RESIDENCE
 2771 Lee Hill Road
 Boulder, CO 80302

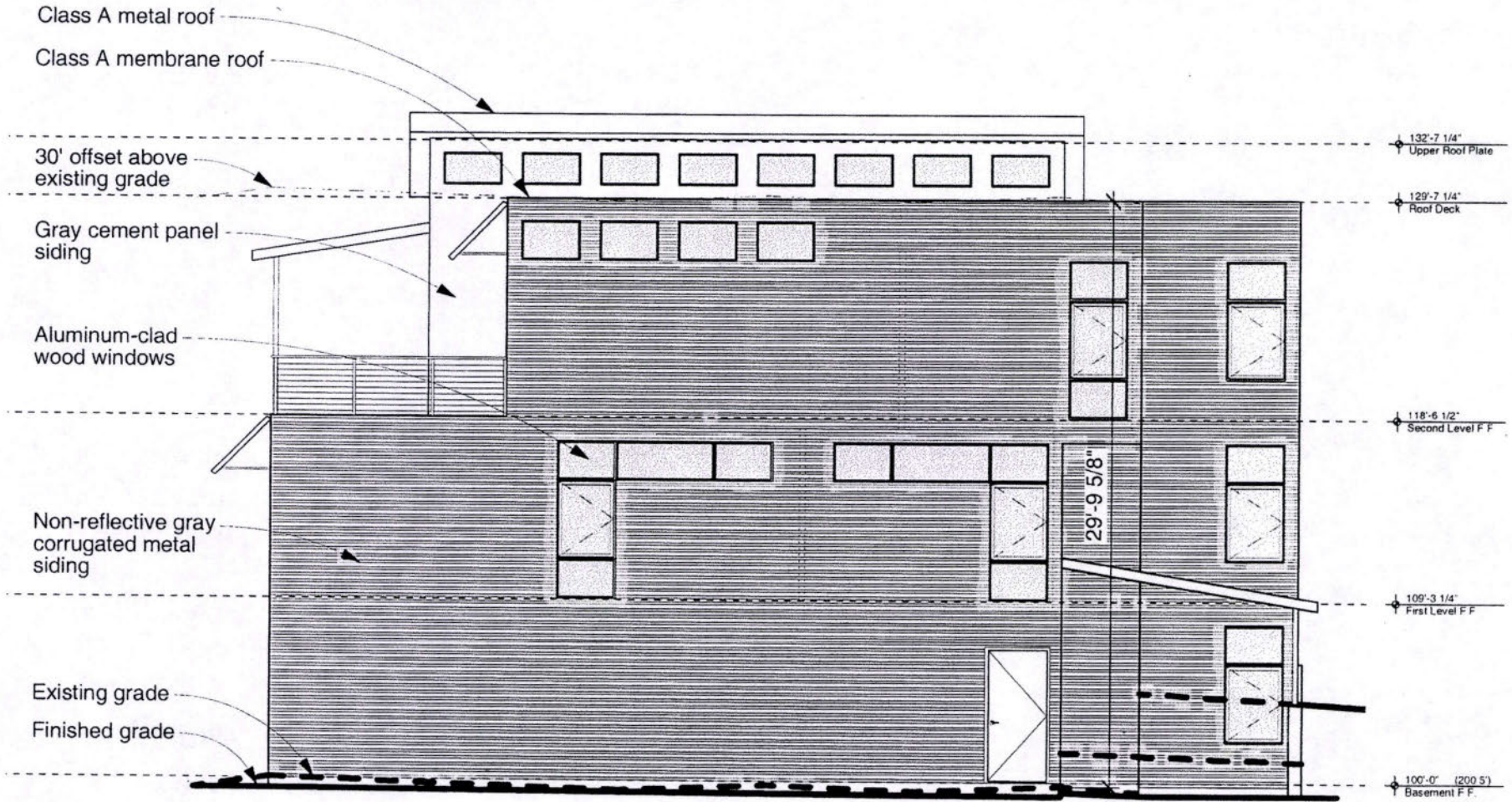
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2

EAST ELEVATION

1/8" = 1'-0"




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Date: 3/16/2007
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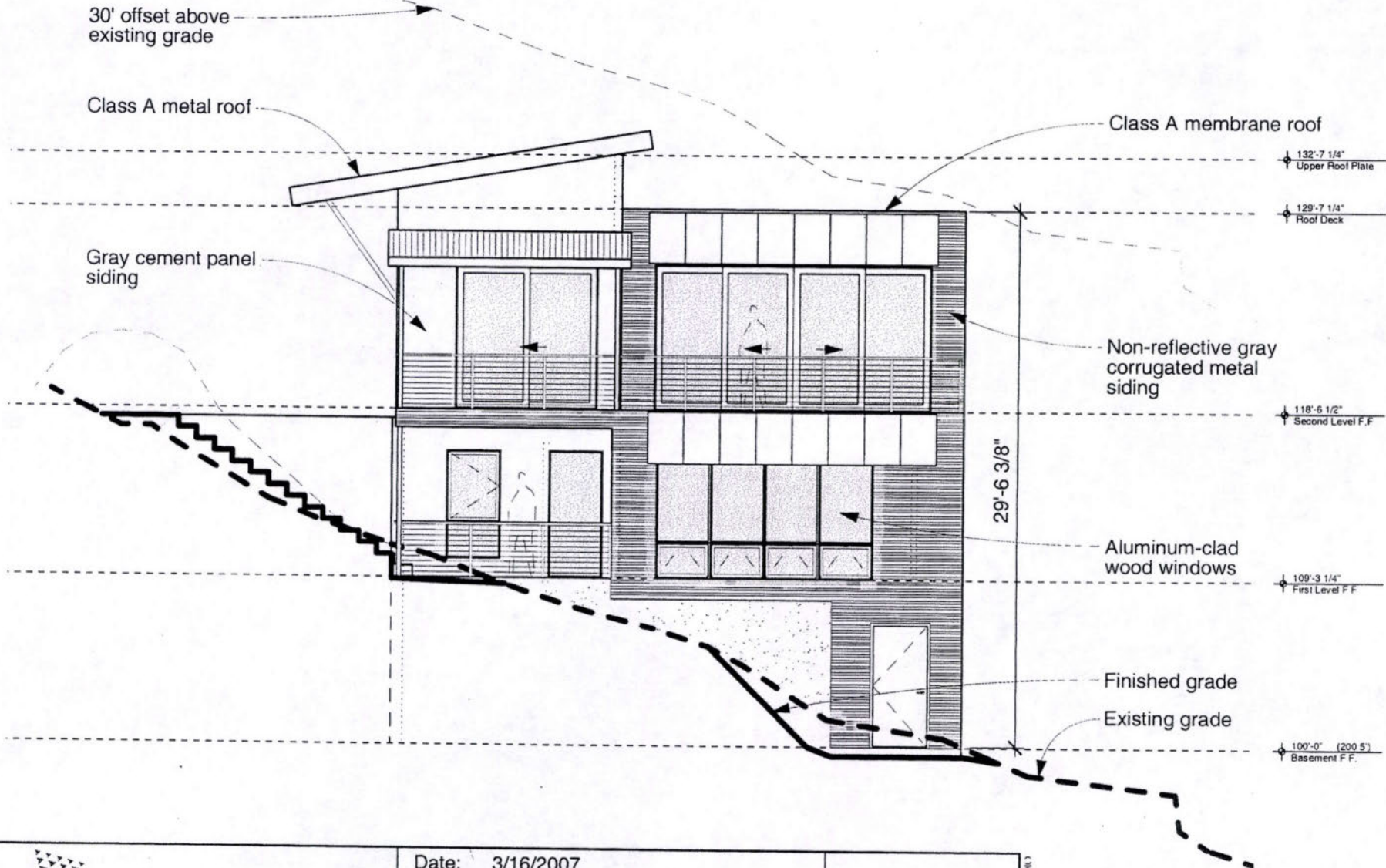
2

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3

SOUTH ELEVATION

1/8" = 1'-0"




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 fax 303.449.9320 web www.barrettstudio.com

Date: 3/16/2007

Preliminary Elevations

HAAS RESIDENCE

2771 Lee Hill Road
Boulder, CO 80302

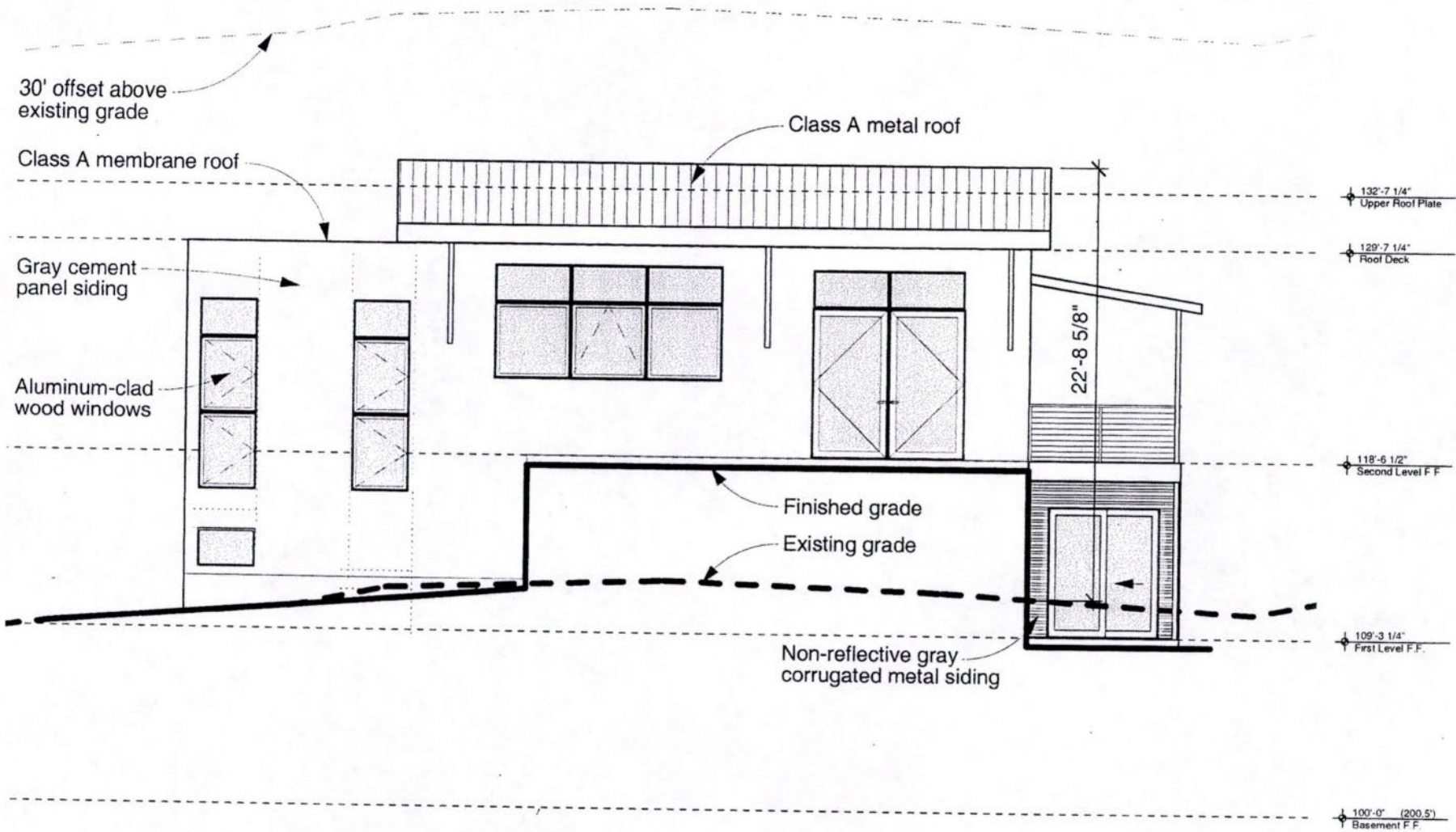
3

EX: WYRIGHT 2007 BARRETT STUDIO

4

WEST ELEVATION

1/8" = 1'-0"

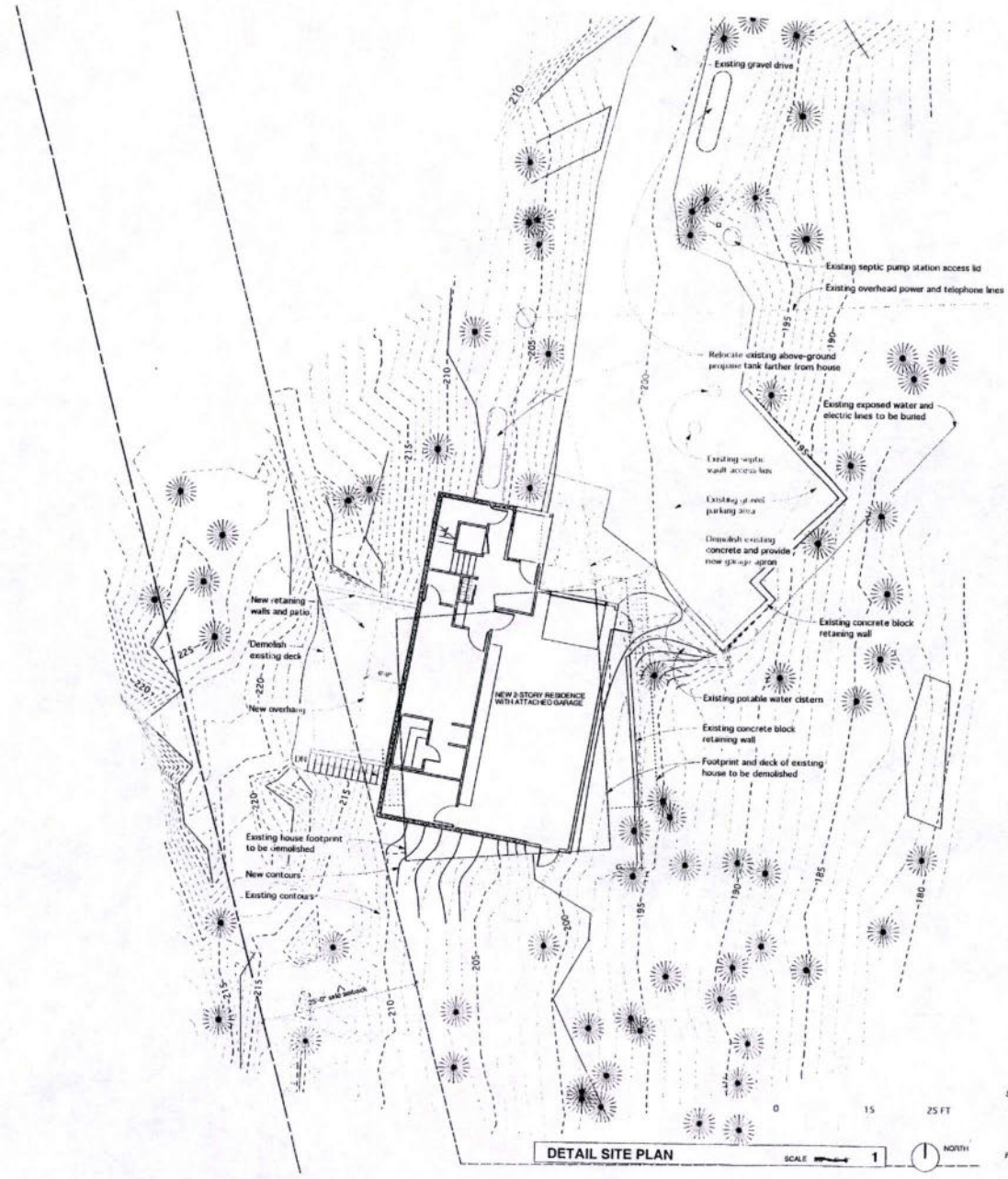
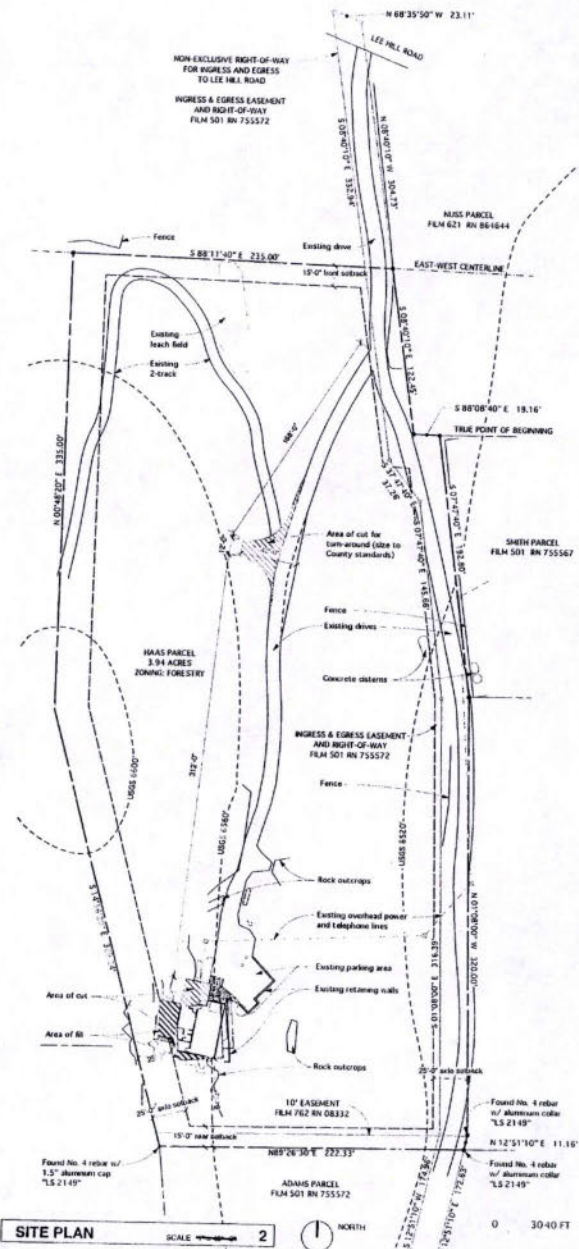


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 fax 303.449.9320 web www.barrettstudio.com

Date: 3/16/2007
Preliminary Elevations
HAAS RESIDENCE
 2771 Lee Hill Road
 Boulder, CO 80302

4

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HAAS RESIDENCE
 2771 LEE HILL ROAD
 BOULDER, CO 80302

SITE PLAN REVIEW
 Date: 3/18/2007
 Revisions:
 1.
 2.
 3.
 4.

HAAS RESIDENCE
 2771 LEE HILL ROAD
 BOULDER, CO 80302

BARETT STUDIO architects
 Architecture Community/Urban Design Interiors
 1944 14th Street Boulder, Colorado 80302 phone 303.440.1141 fax 303.440.9330 email barettsstudio.com web www.barettsstudio.com



SITE PLAN
 Sheet Number:

A1.0

File: 11000_A1.0.rvt

WILDFIRE MITIGATION PLAN

For Julia Haas
2771 Lee Hill Dr
Docket: SPR - 07 - 025
Inspection date: 8/15/2007

Prepared for:

Julia Haas
2775 Lee Hill Dr
Boulder, CO 80302
Phone: 720-406-0964

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 2, Township 1N, and Range 71W, TR, NBR 128, 158, 172-178 foothill subdivision. The property is located within the Boulder Mountain Fire Protection District (303-440-0235). There are no existing structures on the site. A new 3,912 sq.ft residence is proposed for the site. The lot is 3.94 acres in size and has a modest ~5-35 percent slope with an east aspect. The site is at ~6,560 feet in elevation and located on a midslope which is relatively dry. Lee Hill Drive to the Northeast, and an access road to the west create a small natural barrier that may help slow the spread of a surface fire on the site.

CONSTRUCTION DESIGN AND MATERIALS

The proposed house will have a moderately complex design with a simple roofline and will be oriented with an east 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 metal. **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 metal and stucco. Soffits and fascia are to be ¾" thick hardboard.

The structure will have 15 large sized windows with the primary viewing direction being toward the south and east side of the structure. Windows will be double glazed with Low-E coating and tempered glass where required. Frames are to be made of aluminum clad wood. The structure will also have 3 sliding glass doors. Exterior doors are to be 1¾", fire-rated, and made of wood. **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.**

A deck will be constructed of composite materials and supported by concrete. The deck will be enclosed and isolated from the surrounding landscape.

UTILITIES

The propane tank is to be set on a pad of crushed rock overlaying a weedbarrier ~150 ft to the northeast of the residence. Utilities for the property are from a pole to the east. The septic field is located ~300 ft to the northeast. The water for the residence will be trucked in.

DRIVEWAY ACCESS FOR EMERGENCY VEHICLES

Access the property from Boulder by heading west on Lee Hill Drive, travel ~2.6 miles to 2771 Lee Hill Dr on the west side of the road.

The existing driveway will create minimal amount of site disturbance and soil compaction and will require the removal of a few trees. The driveway will be 12 feet wide with a vertical clearance of 13'6" and a grade that is less than 12 percent. The driveway is approximately 730 feet in length therefore a hammerhead or "Y" turn-around will be created 50 feet from the proposed house. Since the driveway is greater than 400 ft. in length, one pull-out is required along the driveway.

EMERGENCY WATER SUPPLY FOR FIRE FIGHTING

The water source will be from a 2, 1,500 gallon cisterns located ~150 ft to the northeast. The residence will 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 Boulder Mountain Fire Protection District (303-440-0235) 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 pruned up ~8ft, or 1/3 the height of the tree, whichever is less. 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 chipped. 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 (Boulder Mountain Fire Protection District (303-440-0235)).

FOREST COMPONENT AND HEALTH

The site has a dominant overstory consisting of ponderosa pine (*Pinus ponderosa*) with a ponderosa pine, Rocky Mountain juniper (*Juniperus scopulorum*) and Douglas-fir (*Pseudotsuga menziesii*) component. The understory consists of a dense cover of native grasses, forbs and shrubs. The forested area is best represented by Fuel Model 2. Fuel model 2 consists of open grown pine stands. Trees are widely spaced with few understory shrubs or regeneration. Ground cover consists of mountain grasses and/or needles and small woody litter. This model occurs in open grown and mature ponderosa pine stands, in the foothill to montane zone.

Dwarf mistletoe (*Arceuthobium vaginatum*) is heavily infested in a number of trees on, and adjacent to the property. Ips beetle was also noted in the downed slash on the site. 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 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 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

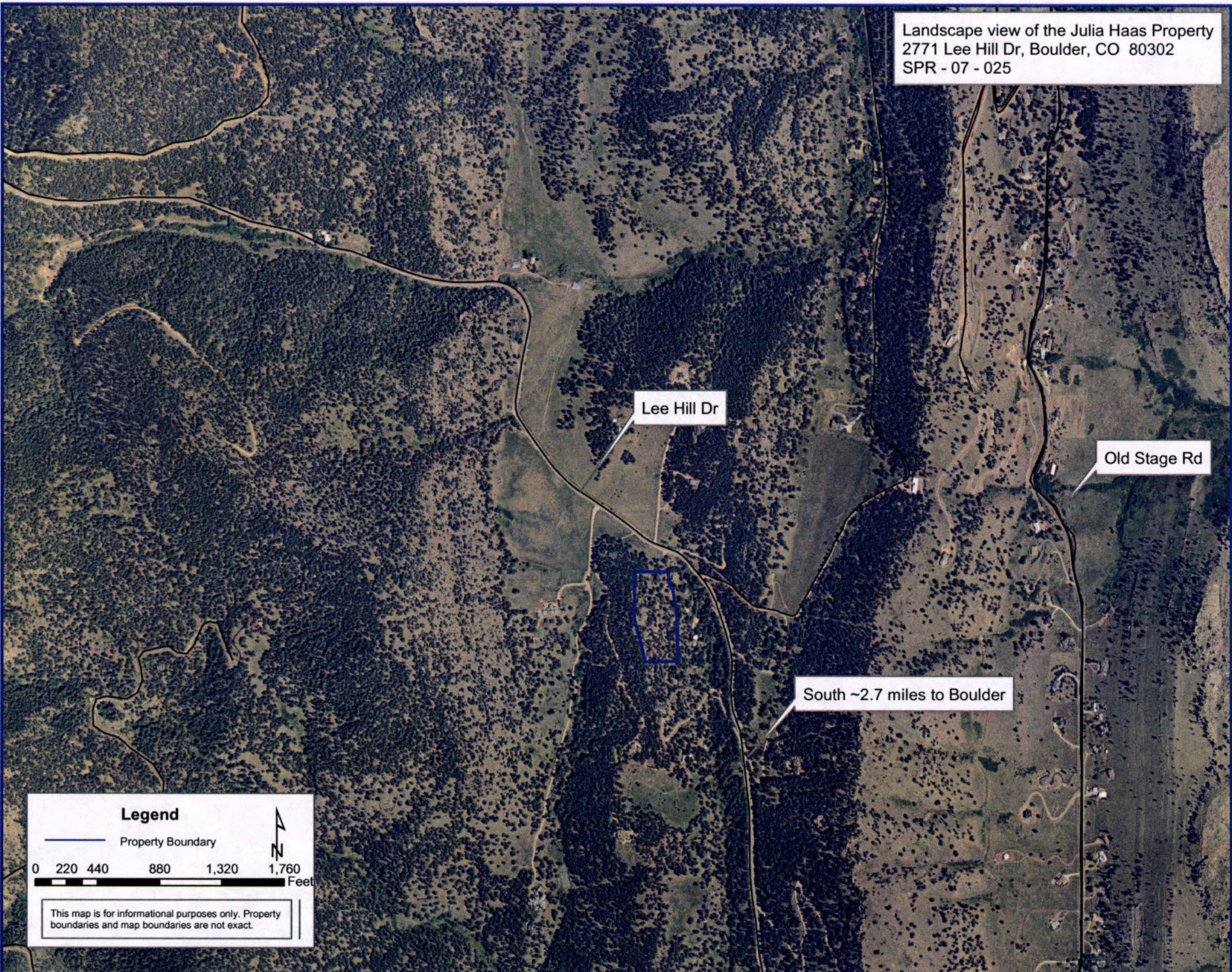
<u>Flame Heights</u>	<u>Distance separation</u>	<u>Area in Acres</u>
10 feet	40 feet	1/10 acre
20 feet	80 feet	1/2 acre
50 feet	200 feet	3 acres
75 feet	300 feet	7 acres
100 feet	400 feet	12 acres
200 feet	800 feet	50 acres

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 Julia Haas Property
2771 Lee Hill Dr, Boulder, CO 80302
SPR - 07 - 025



Lee Hill Dr

Old Stage Rd

South ~2.7 miles to Boulder

Legend

— Property Boundary

0 220 440 880 1,320 1,760 Feet

This map is for informational purposes only. Property boundaries and map boundaries are not exact.

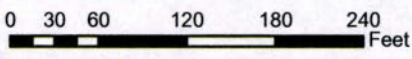
Property of Julia Haas
2771 Lee Hill Dr, Boulder, CO 80302
SPR - 07 - 025

Lee Hill Dr

South ~2.7 miles to Boulder

Legend

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



This map is for informational purposes only. Property boundaries and map boundaries are not exact.

