

Beckwourth Hand Thin & Pile Project

Question and Answer

Q: How do we access the units behind homes?

A: The units behind homes can be accessed entirely using Forest Service system roads and seasonal roads. See updated Appendix C for road access.

Q: What is the requirement for covering piles?

A: Piles are to be covered with 4 mil or greater plastic placed at the very top of the pile and secured with material, but still visible.

Q: What if piles compress before inspection?

A: Piles are to be constructed greater than 7 ft high. Inspection of piles will occur with the understanding that piles may sink a couple of inches after a few days.

Q: Can black oak/hardwoods be cut?

A: California black oak is the most desirable leave tree and should be retained where possible. Oaks and hardwoods >8.0" DBH should not be cut except for operability.

Q: What is the minimum brush height required for cutting?

A: All brush within the dripline of retained trees will be cut and piled. Brush outside of the dripline of retained trees need only be cut and piled if it is at waist height or taller.

Q: What distance should piles be from trees?

A: Piles should be made outside of the dripline of green trees. Piles should be made 15 feet away from standing snags.

Q: What are the mitigations for "control lines"?

A: Control lines fall under the category of control areas. They are flagged on the ground with black and red striped flagging and all mitigations for control areas should be followed.

Q: How should material be removed from control areas?

A: Cut material within control areas must be removed by hand and taken out of the unit with minimal ground disturbance. Equipment is not to be used for removal of this material.

Q: Is there a maximum crew size?

A: Propose what makes sense for your plan of work.

Q: Where can we pile material from HT26?

A: Since HT26 is mostly covered by a control area, material may be piled outside of the unit. During contract development, an area outside of unit HT26 will be determined where piling will be allowable.

Q: Does hand thinning work count as “Mechanical Operations” within the Project Activity Level restrictions?

A: Yes, “Mechanical Operations” includes hand thinning with chainsaws. When PAL reaches a level C or greater, fire patrol is required for two hours after operations cease. When PAL reaches a level Ev, hand thinning operations must cease after 1:00pm.

Q: What fire tools are required for this project?

A: A Fire Box and associated Fire Tools are required for this project in accordance with [California Public Resources Code \(C.P.R.C.\) Section 4428](#), as referenced in Appendix H. Contractor must be in compliance with all tools and equipment marked as required in Appendix H.

Q: What are the acreages of the control areas within units?

A: Unit HT1: 7 acres

Unit HT20: 1.2 acres

Unit HT19: 0.3 acres

Unit HT26: 2 acres

Updates:

All updates made to the RFP package are highlighted in yellow in the updated package.

- Overall project acres has changed from 1,116 to 1,118 acres.
- Appendix E has been updated with minor changes to unit acres.
- Appendix E has been updated to include language about piling distance from green trees.

- Appendix E has been updated to include a minimum brush height for cutting.
- Appendix C: Project Maps have been updated with minor changes to units.
- Appendix C: Maps have been updated to include a missing Forest Service System Road and seasonal roads. Seasonal road usage must be approved by NFF oversight forester before usage.
- Appendix H: Fire Plan has been updated to clarify which sections are required. Section 4E “Tank Truck or Trailer” has been removed from the requirements.
- Appendix H: The phone number for dispatch has been updated.

Request for Proposals
Beckwourth Hand Thin & Pile
Plumas National Forest, California

NFF Background:

The National Forest Foundation (NFF) is a congressionally chartered nonprofit organization with the simple mission of bringing people together to restore and enhance National Forests and Grasslands. The NFF is the leading organization inspiring personal and meaningful connections to our National Forests, the centerpiece of America's public lands. Working on behalf of the American public, the NFF leads forest conservation efforts and promotes responsible recreation. We believe these lands, and all they provide, are an American treasure and are vital to the health of our communities.

Project Background:

The NFF and the USDA Forest Service (USFS) are working together to protect and restore the Plumas National Forest through targeted efforts on the Community Protection – Central and West Slope Project (2025). The NFF and the Beckwourth Ranger District (BKRD) of the Plumas National Forest are collaborating on the 1,118-acre Beckwourth Hand Thin & Pile Project. This project is a manual hand thinning and piling project located near the City of Portola and Lake Davis designed to reduce wildfire risk by removing suppressed understory trees with poor crown structure to disconnect vertical and horizontal tree-ladder fuels, reducing stand density, and modifying species composition to shade intolerant, fire resistant species.

Advertised acres may be subject to change prior to final contract.

Statement of Work:

The selected contractor will be responsible for hand thinning and piling of fuels in accordance with the project specifications listed in Appendix E. The attached project appendices contain maps, detailed project specifications, and guidelines.

Timeline:

This Request for Proposals will close and all proposals will be due on July 22, 2026. The NFF anticipates a projected contract start date of August 2026. Changes in the closing date for this Request for Proposals will be updated on the NFF website at <https://www.nationalforests.org/rfp> under the link for this project's Request for Proposals. All contract related dates are estimates and subject to change at the NFF's sole discretion.

Optional Bid Tour:

Date/Time: Tuesday, July 14, 2026 at 10:00am

Meeting Location: We will meet at the first stop on the tour which is located at (39.880900, -120.453252).

[Click Here for Google Maps Location](#)

Directions when traveling east on CA Route 70 from Portola:

1. Make a left onto Grizzly Rd
2. Drive up Grizzly Rd for 5.4 miles
3. Make a right onto Crocker Mt Rd
4. Drive 0.8 miles up Crocker Mt Rd until reaching the pull-off near the log deck

I. PROJECT OVERVIEW AND REQUIREMENTS

General Specifications

(a) Description of Work – This Request for Proposals is for services related to the Beckwourth Hand Thin & Pile project, located on the Plumas National Forest. Work on this project will include manual hand thinning of fuels with chainsaws and piling of cut fuels. Full list of work items and specifications can be found in Appendix E. The selected contractor(s) will be responsible for performing the following deliverables:

1. Reduce hazardous fuels by hand thinning and hand piling to restore forest health on 1,118 acres within the Plumas National Forest (PNF). The goal is to thin competing conifers and reduce fuel by removing suppressed understory trees with poor crown structure to disconnect vertical and horizontal tree-ladder fuels. Other goals include reducing dead and down ground fuels and brush.

(b) Specifications – Project work shall be accomplished in accordance with the following:

1. Appendix C – Project Area Map
2. Appendix E – Schedule of Items and Specifications
3. Appendix H – Fire Plan

Bidders shall identify in their proposals what they can supply in terms of materials, labor, equipment, supplies, supervision, quality control, and incidentals required to complete the work as described. Proposals shall be sufficient to guarantee that the selected contractor shall be able to perform all work in a safe and conscientious manner and in accordance with all industry standards.

(c) Project Location – The Beckwourth Hand Thin & Pile Project is located on the Beckwourth Ranger District of the Plumas National Forest in Plumas County, California. The project area is northeast of the city of Portola near Lake Davis and Crocker Mountain. Appendix C includes georeferenced maps of the project displaying the entire project area within which treatments will occur.

(d) Work Schedule – Work will commence as early as August 2026 and finish by December 31, 2028. The NFF and Successful Bidder will negotiate a schedule of operations upon award.

Other Project Requirements

Utilities/Work Site Conditions – In many locations there will be no or limited sanitation, water, electrical or housing services available. Bidders shall consider all relevant factors when submitting proposals for this work. Proposals should account for the need of the selected contractor to make its own arrangements for temporary facilities if required.

Insurance Requirements

Upon being notified of bid selection, Bidder agrees that it has, or will procure, and shall maintain the insurance coverage indicated below. The effective date of all coverage shall precede the start of any work.

- a. State minimum workers' compensation insurance coverage for its employees, if any.
- b. Broad form general liability, property damage, and automotive liability insurance in the minimum amount of \$1,000,000 for bodily injury, death, or damage to property of any person and \$2,000,000 for bodily injury, death, or damage to property of more than one person. The selected Bidder shall name NFF an Additional Named Insured and provide NFF with a certificate of insurance evidencing such coverages, prior to the initiation of the Scope of Services.
- c. If the Scope of Services includes professional services as identified herein, Bidders also agree to provide professional errors and omissions liability insurance. Professional services for purposes of this section include, but are not limited to performing architecture, engineering, landscape architecture, land surveying or planning, preparation and signing or stamping of drawings, maps, surveys or construction specifications, or design and development of computer software, programs or websites by the Bidder or by subcontractors on behalf of the Bidder, for which professional liability insurance would typically be required. The minimum coverage limits required are \$1,000,000 for each claim and \$1,000,000 annual aggregate.

Payment/Performance Security

If selected to contract with the NFF, Bidder(s) shall post cash, a letter of credit, bond, or other financial security that is easily convertible into cash in a form acceptable to the NFF, in its sole determination. The security will be used to ensure completion of the work required under any subsequent agreement and payment of all amounts lawfully due to all persons. All persons shall include, but not be limited to, those supplying or furnishing to the Bidder or Bidder's subcontractors with labor, laborers, materials, rental machinery, tools or equipment used or to perform the work. Bidders may incorporate required associated costs into mobilization costs or other approved expenses. Payment or Performance security will be required in the following amounts as applicable:

- a. For work that is classified as construction in accordance with the Miller Act or Little Miller Act or if required per conditions of the funding source, payment and performance bonding will be required in the full amount of any Agreement. For the purposes of this Request for Proposal, construction is defined as "any contract greater than \$100,000 for the construction, alteration, or repair of any public building or public work where the federal government is the owner"; or

- b. If Contractor is subcontracting 15% or more of the total contract value, or if the cost of materials is in excess of the larger of \$100,000 or 50% of the contract total, payment and performance bonding will be required in the full amount of the agreement; or
- c. If the value of the agreement is in excess of \$250,000, Contractor will be required to post financial security in a form acceptable to the NFF in the amount of 5% of the total agreement value up to \$250,000 in total financial security.

The NFF will not provide blanket waivers of payment/performance security requirements though reserves the right to negotiate payment and performance security terms and conditions with selected contractors based upon legal requirements and organizational needs and policies.

Prohibited Telecommunications Services and Equipment

NFF contractors are responsible for compliance with the prohibition on certain telecommunications and video surveillance services or equipment identified in 2 CFR 200.216.

Federal Exclusion Verification

The selected Contractor will be required to affirm that neither it nor its principals are presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any Federal department or agency.

Federal Flowdown Provisions

NFF funding for projects may vary but will frequently include federal funds. As such, any Agreement associated with this RFP may be subject to flowdown requirements under associated federal or state funding agreements, which are included and made part of by this reference. Federal flowdown requirements are not negotiable by the NFF and will not be removed or edited.

Identified Flowdown Provisions

While flowdown provisions may change depending on funding, the NFF has identified the following non-negotiable federal flowdown provisions as currently being required for this work:

Appendix B: Federal Flowdowns

II. REQUIRED COMPONENTS

Technical Proposal

Bidders shall submit a technical proposal for the work described in this RFP. At a minimum, each proposal **must** include the following:

1. An overview and description of the services provided by the Bidder that align with the requests in this RFP.
2. A description of the project management or administration approach that will be followed by the Bidder to ensure that the identified work is completed on time and within budget.
3. A project work plan and schedule that lists in detail the stages of work expected to be completed in this project, all identifiable deliverables, and the dates on which the Bidder would anticipate being able to complete delivery of the work.
4. A project personnel overview identifying key personnel to be utilized if selected to perform the work described in this RFP and any relevant or required credentials or certifications held by the key personnel.

Bidders may also include the following items in proposals as applicable:

1. Any change or risk management approaches utilized by the Bidder when completing projects of the type described in this RFP.

Bidder Qualifications

Bidders shall submit a statement of their qualifications for the work described in this RFP. The statement should include the following items in narrative format:

1. Experience –
 - i. Please provide a brief explanation of previous work experience with land management agencies, noting specifically any work performed on National Forests or Grasslands.
 - ii. Please provide a listing of relevant projects of similar size, scope, and total value performed by the Bidder within the past 5 years.
2. References –
 - i. Please provide three professional references, identifying as applicable any government or conservation nonprofit references.
 - ii. Provide the name, email address, and telephone number for each reference, as well as the dates of the projects during which the Bidder worked with each reference.
3. SAM.gov Requirement –
 - i. The successful bidder must be registered with SAM.gov and have a

UEI number before entering into contract agreement.

- ii. Please provide whether the contractor is currently registered with SAM.gov, or is able to obtain registration before the project commences.

Failed Projects or Legal Actions

Bidders shall identify any past failed projects and the reasoning behind the failure or incompleteness. Bidders shall also identify any and all current or pending legal matters in which the Bidder or any of its principals is involved.

Pricing Schedule

Bidders shall price work according to the schedule below. If Bidders believe that an alternative method of pricing is more applicable, they may also provide an alternative pricing schedule in addition to the format requested below. The NFF, in its sole discretion, reserves the right to utilize any alternative pricing schedule proposed by any Bidders.

Prevailing wages may be required per conditions of funding sources. Due to the dynamic and changing nature of NFF funding, the NFF reserves the right to negotiate an increased cost with the selected Bidder in the event that prevailing wages become required for the work described in this RFP. Bidders are advised that recent changes to California prevailing wage law have expanded coverage to include certain fuels reduction activities when funded through state grant agreements. However, this change is based on the effective date of the applicable state funding agreement and does not apply to nonprofit organizations until July 1, 2027 (see California Assembly Bill 338).

All quantities and measurements identified in this RFP are based upon the best knowledge available to the NFF and are subject to change. Payment will only be made for actual work completed. If the opportunity to add additional funding to the work described in this RFP arises, the NFF may increase the quantities of work to be performed as part of this project, as agreed upon by the NFF and the selected Bidder.

	Task/Item	Units	Unit Cost	Extended Cost
(a)	Hand Thinning & Piling	1,118 acres		
			Total Bid	

Payment Schedule

Bidders shall submit a proposed payment schedule consistent with their proposed pricing structure. Lump sum proposals should identify invoicing milestones tied to deliverables or project phases, while time-and-materials proposals should identify the

anticipated invoicing frequency, cost of materials/supplies, and the hourly rates for invoicing. Proposed payment schedules are for evaluation purposes only. The final payment structure and invoicing terms will be negotiated with the selected Bidder and incorporated into the executed agreement.

III. SUBMISSION, EVALUATION, AND CONTACTS

Bidder Selection Process:

Bid Submission

Bidders shall submit proposals containing all of the required information described above via email at the address specified below by the stated deadline:

Submission Address: scornacchia@nationalforests.org

Submission Deadline: 5:00 PST on July 22, 2026.

Proposals submitted after this RFP closes will not be considered unless approved by the NFF. The NFF will review all proposals determined to be responsive using the evaluation factors listed below. Proposals may be deemed non-responsive for failure to submit any required information or for failure to comply with any terms of this RFP. Non-responsive proposals may be disqualified from evaluation in the sole discretion of the NFF.

Notification

If a proposal is selected by the NFF to advance to the contracting stage, the NFF will notify the successful Bidder via email by August 5, 2025. Once the selected Bidder has been notified, the NFF project representative will coordinate the drafting and negotiation of an NFF agreement outlining the terms and conditions of the work to be performed.

Unsuccessful Bidders will be notified via email as soon as possible after the closing date of this RFP. Please Note: The NFF **will not** share any information about the organizations submitting proposals nor any information regarding the proposals submitted by other organizations. If a Bidder has questions about its proposal, the Bidder may ask the NFF Point of Contact identified below. If an answer can be provided, the NFF will respond via email as soon as it is able to do so.

Request for Proposals Only

This is a request for proposals only and bids furnished do not bind the NFF in any way. Selection of a bid will result in the opportunity to contract with the NFF but will not guarantee a resulting contract or any amount of work. The NFF reserves the right to disqualify any incomplete or improper proposal submitted as non-responsive. The NFF may also decide not to select any proposals submitted to this RFP for advancement to contract negotiations. This request does not commit the National Forest Foundation to pay any costs incurred in the preparation or submission of the proposal or to contract for supplies or services.

Evaluation Factors and Scoring

The following factors will be used to evaluate any responsive submitted proposals. The factors, as listed, are ordered from highest priority (Level 3) to lowest priority (Level 1).

Each factor can receive a score from 1 point to 3 points. The number of points awarded will be multiplied by the priority level to determine the total score for each factor. (Example: If Price/Cost (level 3) is awarded 2 points, the total score for price would be 6 points.)

Level 3 Criteria

- Price / cost
- Equipment and contractor capability
- Timing of when contractor can begin and/or finish the project
- Past performance, references, and USFS feedback
- Registration with SAM.gov

Level 2 Criteria

- Technical proposal / proposed approach to project
- Overall strategic benefits to meeting NFF goals and grant needs, requirements, and timelines

Level 1 Criteria

- Benefits to the local community
- Relationship to local community

Point of Contact

Any questions about this Request for Proposals shall be submitted in writing to the NFF contact identified below. Questions determined to be of importance to all potential Bidders will be posted as an attachment to an updated version of this RFP at <https://www.nationalforests.org/rfp>.

Sumner Cornacchia
National Forest Foundation, Northern Sierra Project Coordinator
scornacchia@nationalforests.org

Bid Submission

Submit bids via email to scornacchia@nationalforests.org by July 22, 2026

Equal Opportunity Provider

In accordance with Federal law and U.S. Department of Agriculture policy, the National Forest Foundation is prohibited from discriminating on the basis of race, color, national origin, sex, age, religion, political beliefs, or disability.

Appendix B

NFF Funding Code: 1596055

NFF Funding Name: SA SPA Plumas Comm Protection Central and West Slope

Funder Agreement ID: 23-SA-11051100-020

Flowdown Provisions

U.S. FOREST SERVICE ACKNOWLEDGED IN PUBLICATIONS, AUDIOVISUALS AND ELECTRONIC MEDIA.

Award Recipient or Contractor shall acknowledge U.S. Forest Service support in any publications, audiovisuals, and electronic media developed as a result of this agreement.

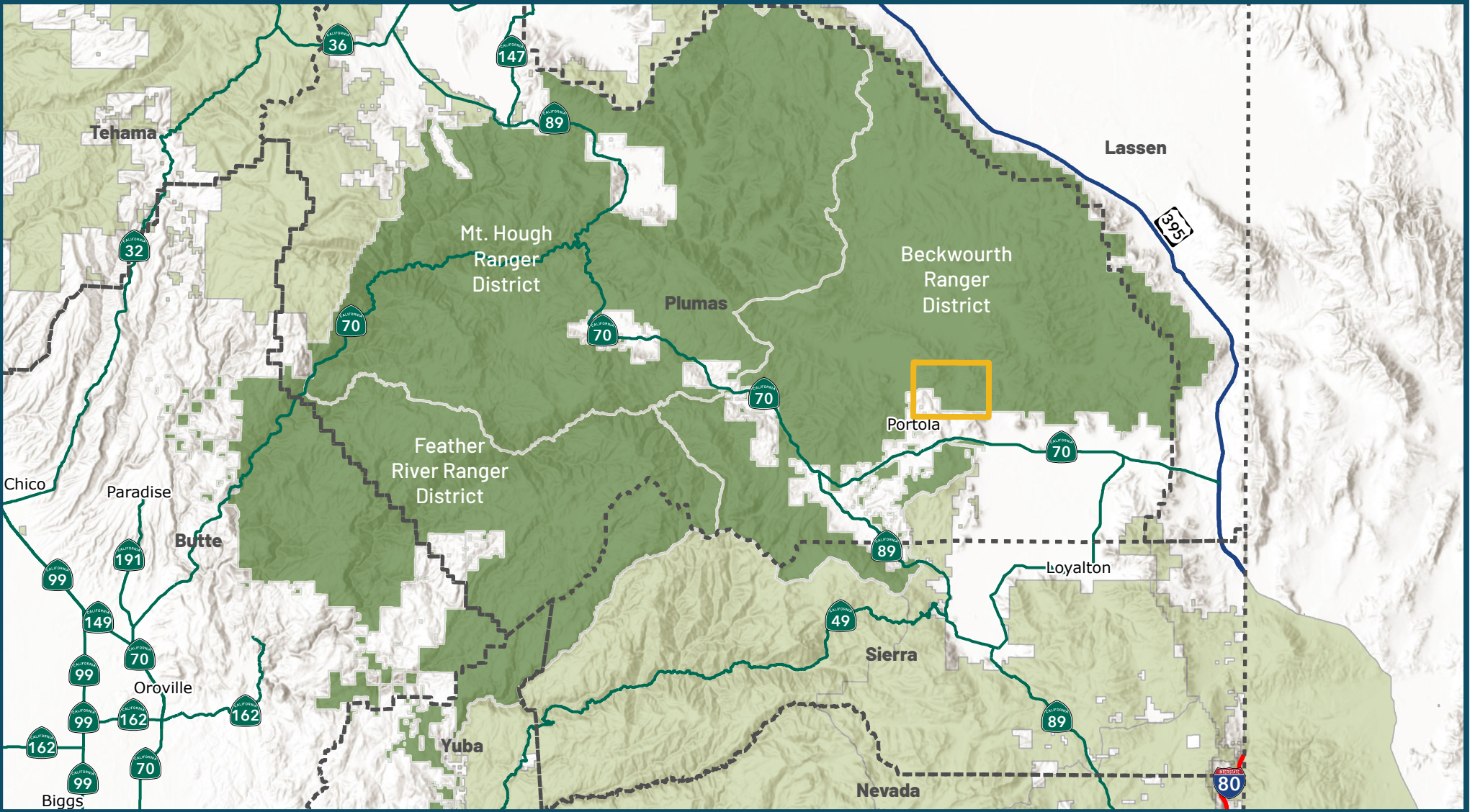
COPYRIGHTING.

Award Recipient or Contractor is/are granted sole and exclusive right to copyright any publications developed as a result of this agreement. This includes the right to publish and vend throughout the world in any language and in all media and forms, in whole or in part, for the full term of copyright and all renewals thereof in accordance with this agreement. No original text or graphics produced and submitted by the U.S. Forest Service must be copyrighted. The U.S. Forest Service reserves a royalty-free, nonexclusive, and irrevocable right to reproduce, publish, or otherwise use, and to authorize others to use the work for Federal Government purposes. This right must be transferred to any sub-agreements or subcontracts.

This provision includes:

- The copyright in any work developed by Award Recipient or Contractor under this agreement.
- Any right of copyright to which Award Recipient or Contractor purchase(s) ownership with any Federal contributions.

Appendix C: Project Area Maps (1/7)



Beckwourth Hand Thin & Pile Project - Location



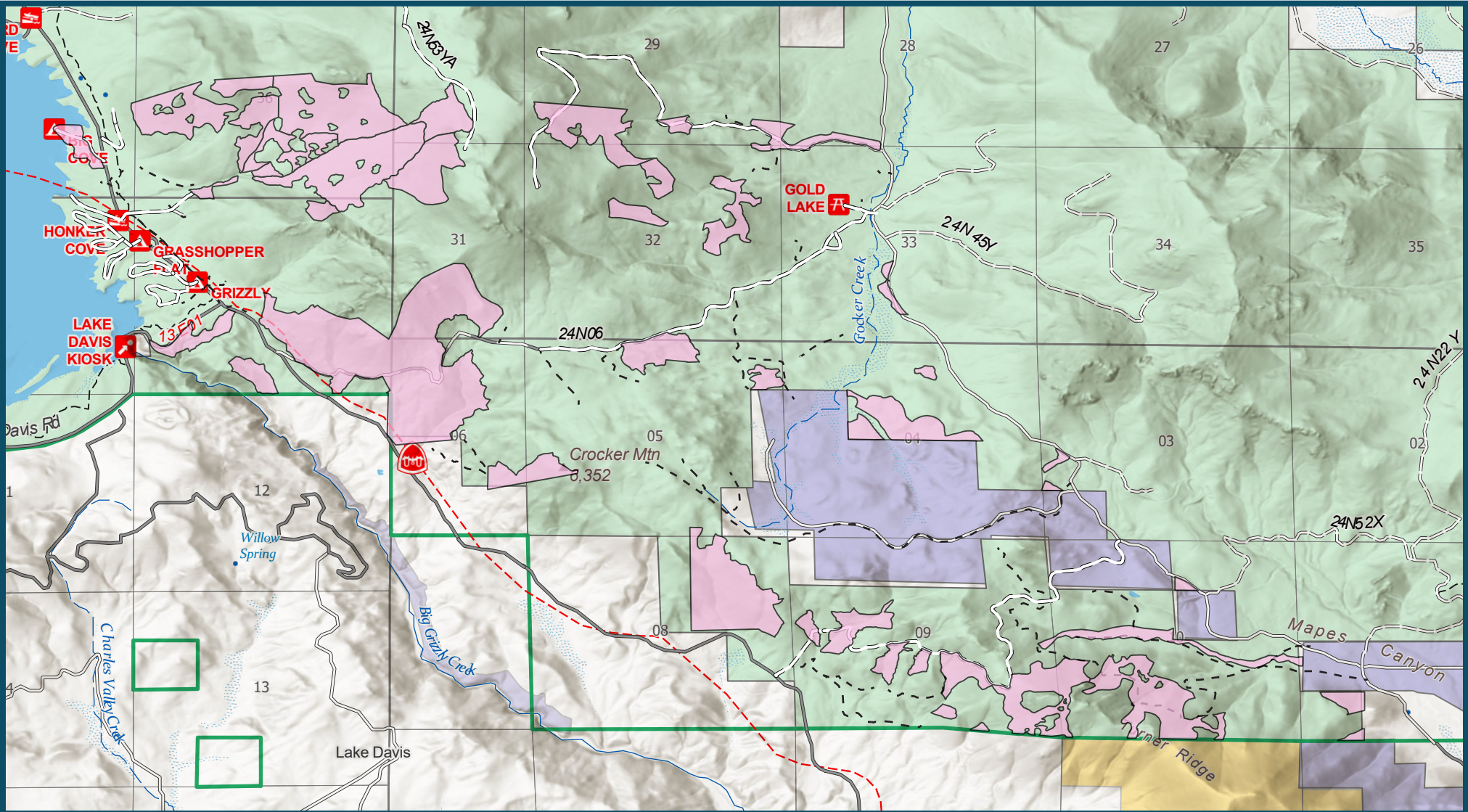
0 4.25 8.5 Miles



Legend

 Interstate	 County Boundaries
 US Hwy	 Plumas National Forest
 State Hwy	 Other USFS Lands

Appendix C: Project Area Maps (2/7)



Beckwourth Hand Thin & Pile Project



0 0.4 0.81 Miles



Legend

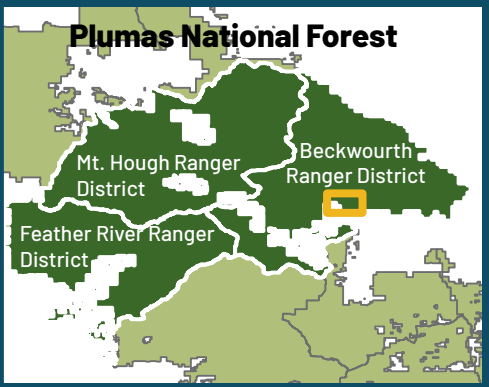
Treatment Units

- Hand Thin & Pile

Road Type

- Seasonal
- System

Plumas National Forest

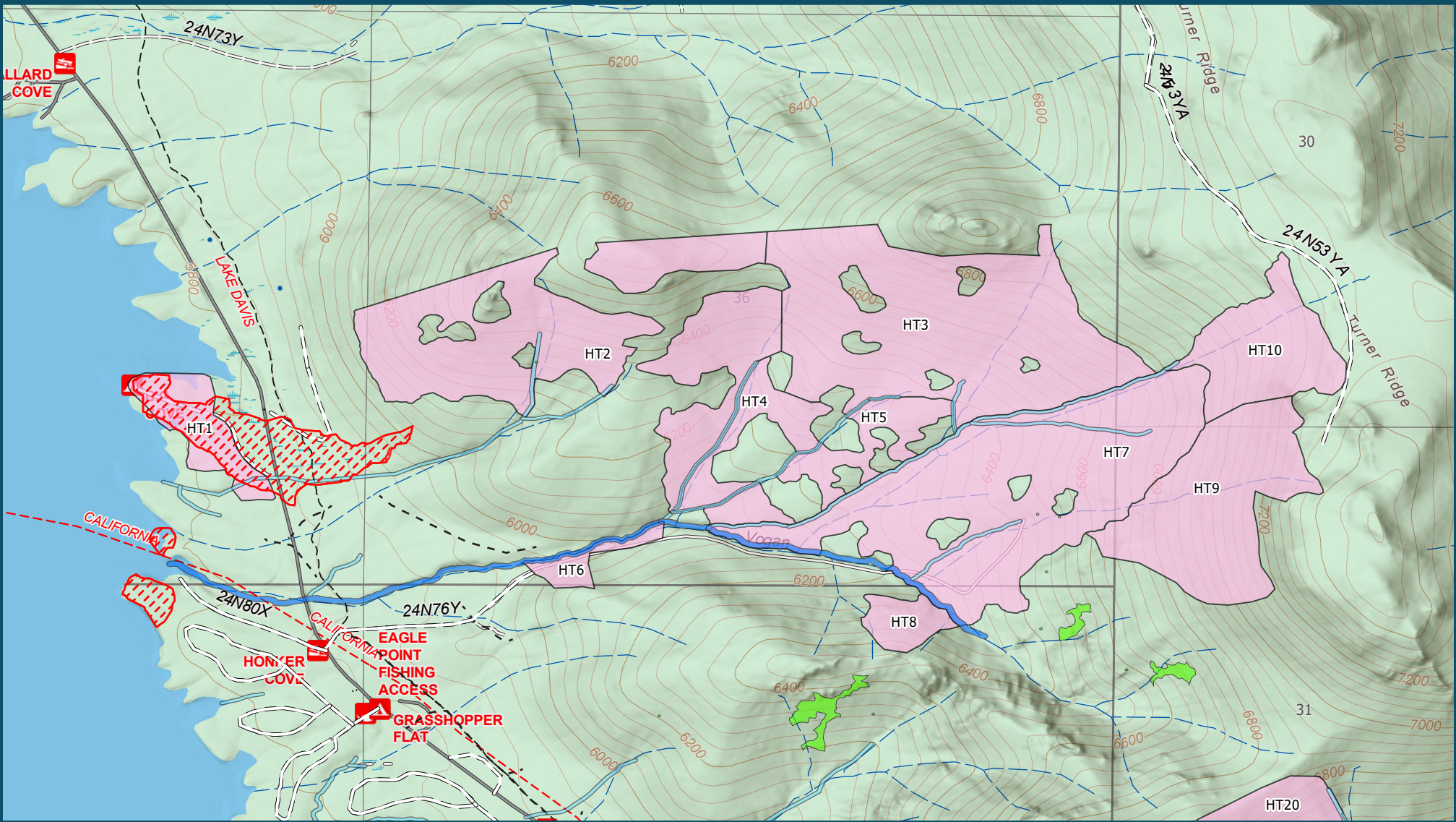


Mt. Hough Ranger District

Beckwourth Ranger District

Feather River Ranger District

Appendix C: Project Area Maps (3/7)



Beckwourth Hand Thin & Pile Project



0 0.13 0.27 Miles



Legend

Treatment Units

 Hand Thin & Pile

Botany

 Protected Species

Watercourse

 25 ft Buffer

 15 ft Buffer

Control Areas

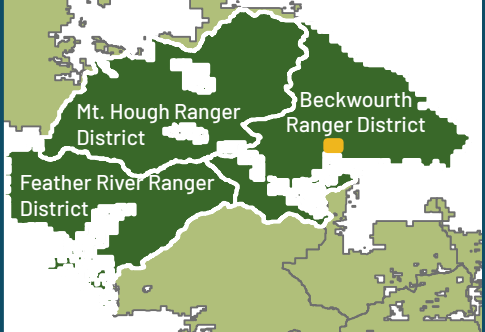
 Control Area

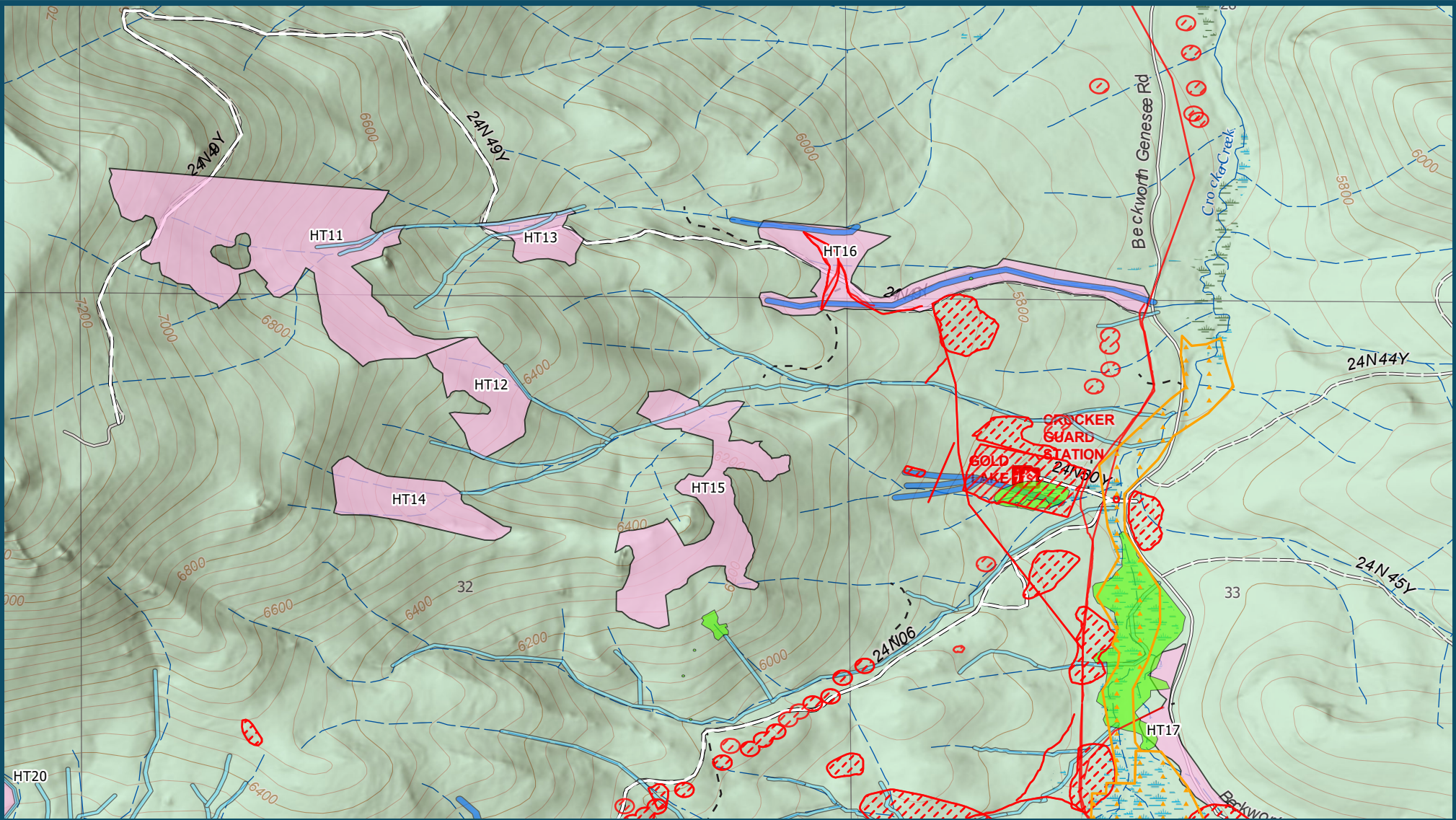
Road Type

 Seasonal

 System

Plumas National Forest





Beckwourth Hand Thin & Pile Project



0 0.13 0.26 Miles



Legend

Treatment Units

Hand Thin & Pile

Watercourse

25 ft Buffer

15 ft Buffer

Wildlife

Limited Operating Periods

Willow Flycatcher (May 1 - July 31)

Botany

Protected Species

Road Type

Seasonal

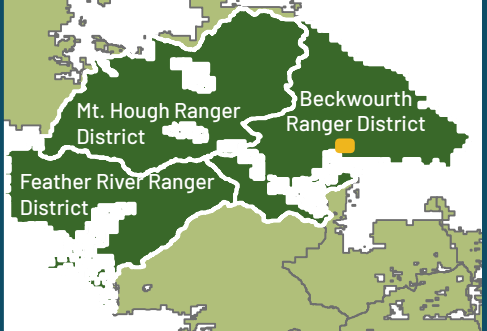
System

Control Areas

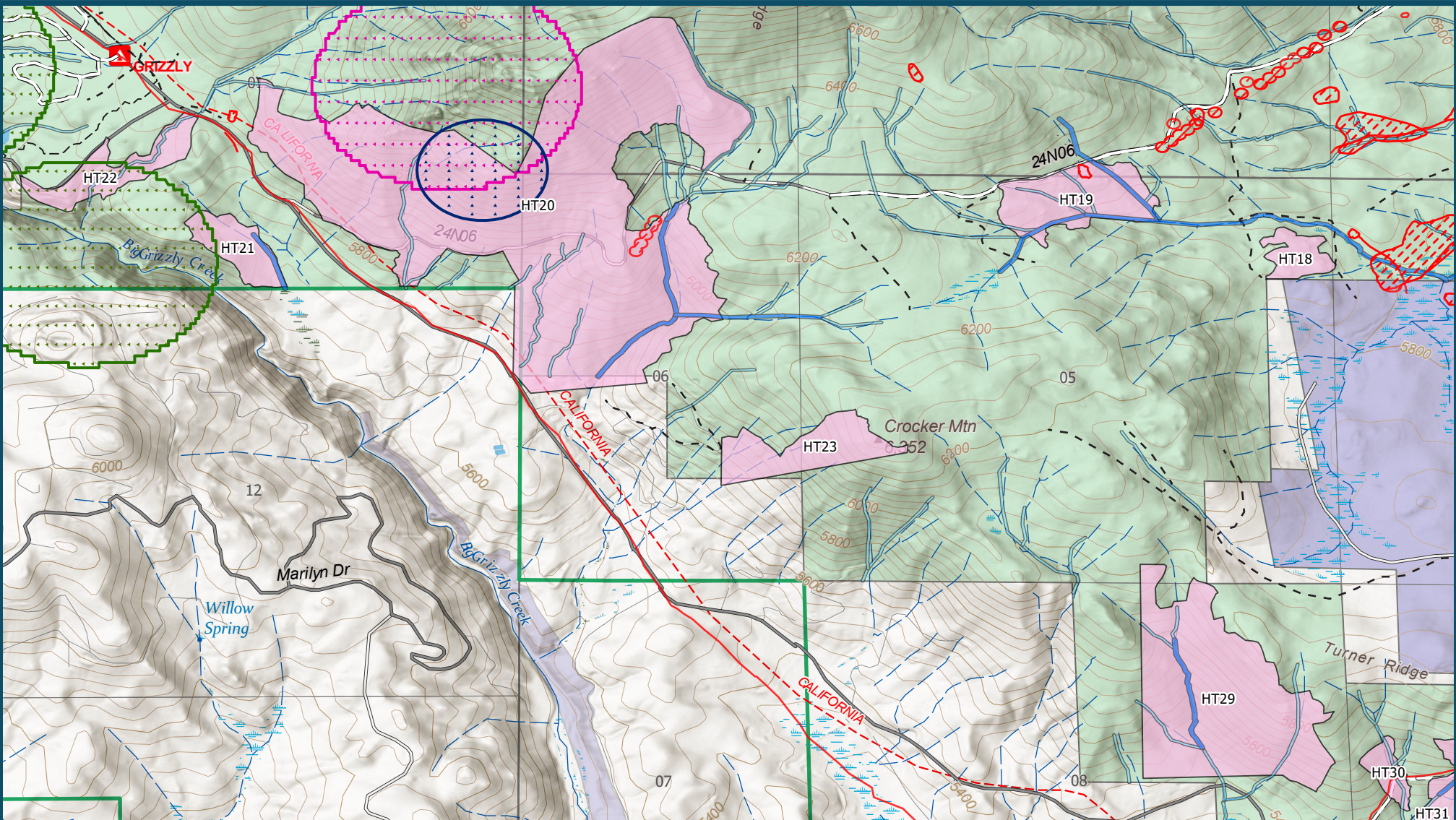
Control Area

Control Line

Plumas National Forest



Appendix C: Project Area Maps (5/7)



Beckwourth Hand Thin & Pile Project



0 0.18 0.37 Miles



Legend

Treatment Units

Hand Thin & Pile

Road Type

Seasonal

System

Control Areas

Control Area

Control Line

Wildlife

Limited Operating Periods

Bald Eagle (Jan 1 - Aug 31)



Osprey (March 15 - Aug 15)



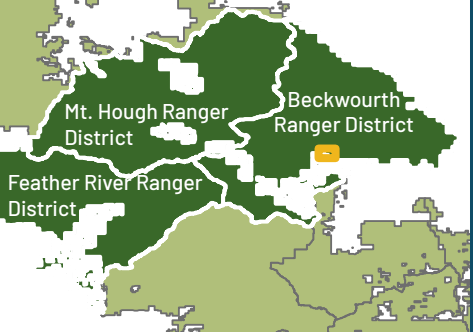
Peregrine Falcon (Feb 1 - Aug 31)

Watercourse

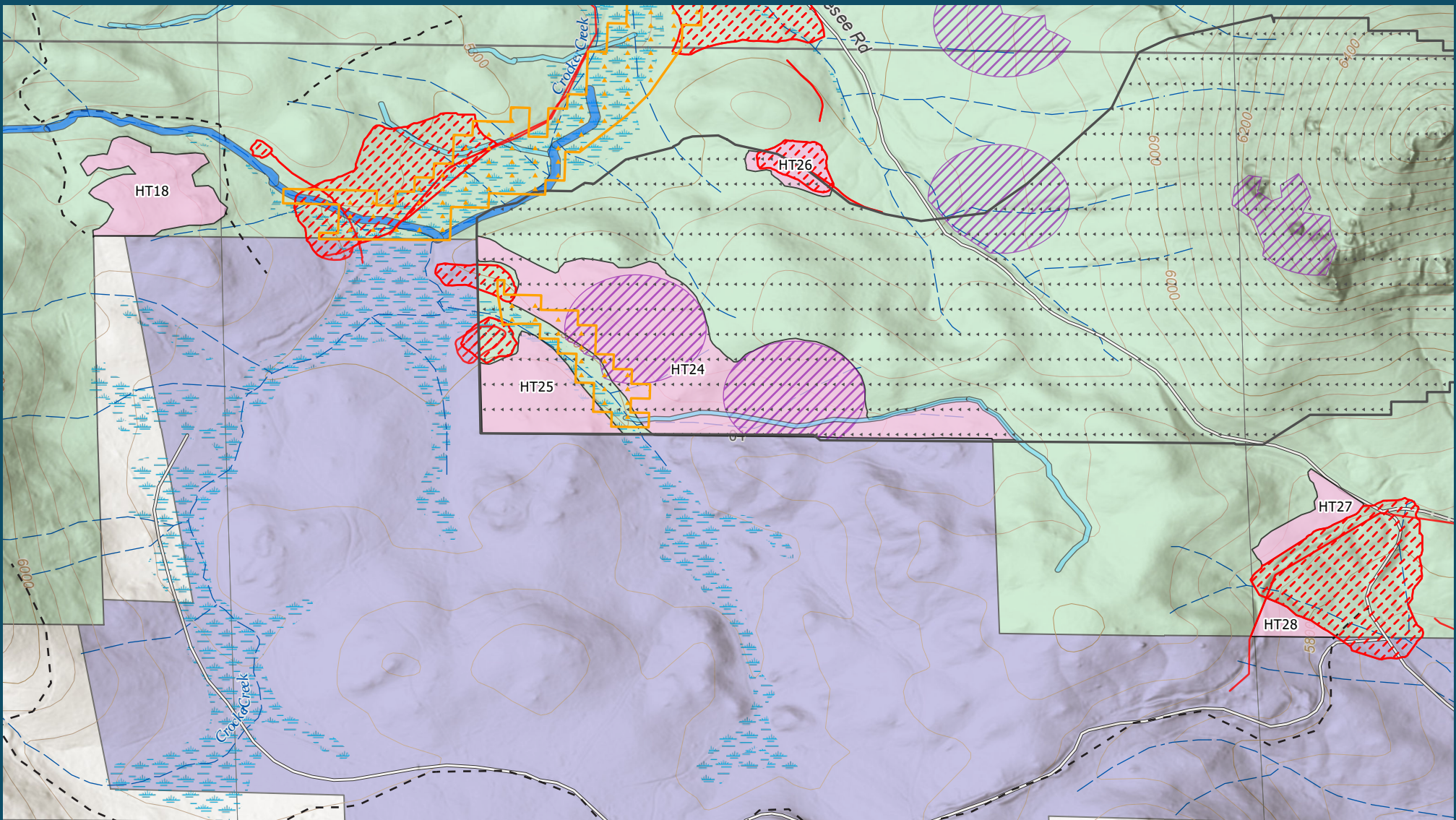
25 ft Buffer

15 ft Buffer

Plumas National Forest



Appendix C: Project Area Maps (6/7)



Beckwourth Hand Thin & Pile Project



0 0.1 0.2 Miles



Legend

Treatment Units

Hand Thin & Pile

Road Type

Seasonal

System

Control Areas

Control Area

Control Line

Watercourse

25 ft Buffer

15 ft Buffer

Wildlife

Limited Operating Periods

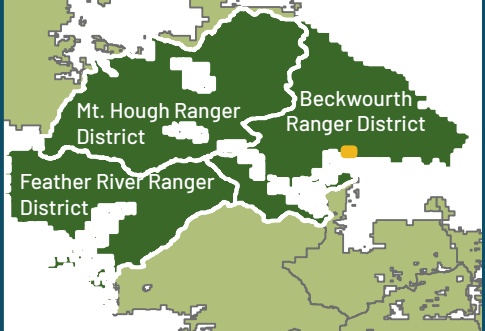
Northern Goshawk (Feb 15 - Sept 15)

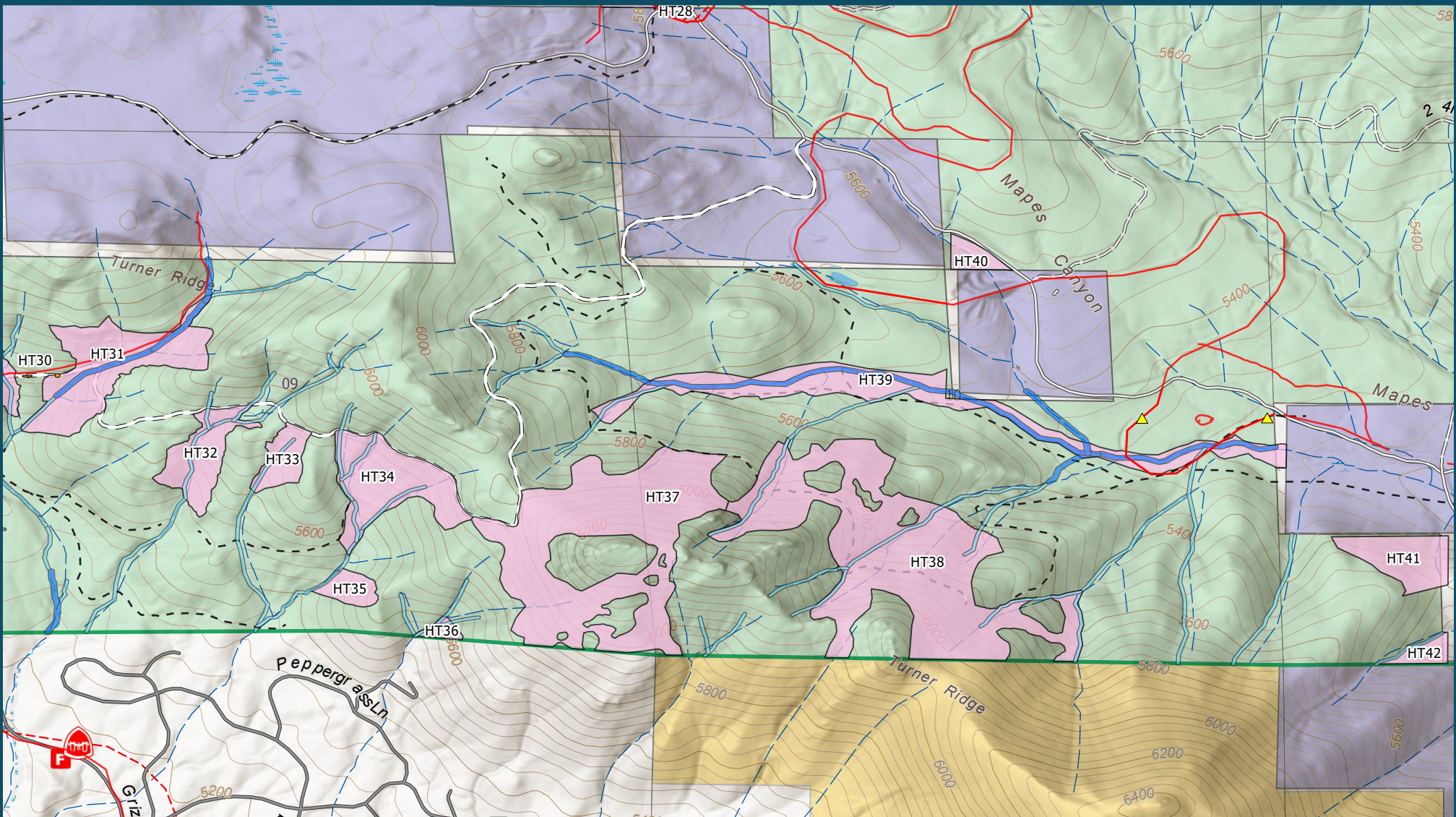
Willow Flycatcher (May 1 - July 31)

Wildlife Special Treatment

Nest Core

Plumas National Forest





Beckwourth Hand Thin & Pile Project



0 0.15 0.3 Miles



Legend

Treatment Units

Hand Thin & Pile

Control Areas

Control Area

Control Line

Approved Breach

Botany

Noxious Weeds

Watercourse

25 ft Buffer

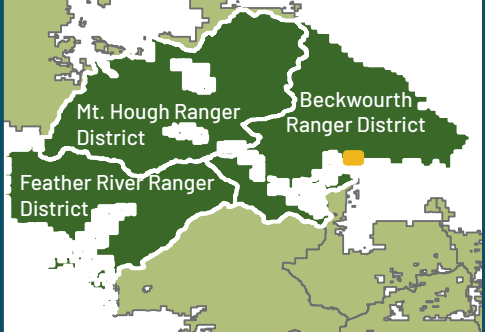
15 ft Buffer

Road Type

Seasonal

System

Plumas National Forest



Appendix E Schedule of Items and Specifications Beckwourth Hand Thin/Pile

Objectives: Reduce hazardous fuels by hand thinning and hand piling to restore forest health on 1,118 acres within the Plumas National Forest (PNF). The goal is to thin competing conifers and reduce fuel by removing suppressed understory trees with poor crown structure to disconnect vertical and horizontal tree-ladder fuels. Other goals include reducing dead and down ground fuels and brush.

1. Leave Tree Preference

1. With all other variables being equal, species preference from most desirable leave trees to least will be as follows:
 - 1) California black oak (most desirable leave tree)
 - 2) sugar pine
 - 3) ponderosa pine/Jeffrey pine
 - 4) Douglas-fir
 - 5) incense cedar
 - 6) juniper
 - 7) red fir
 - 8) white fir
 - 9) Lodgepole Pine
2. Sugar pine should be left unless visible signs of White Pine Blister Rust such as spiked tops, flagging with swelling where branch meets the bole, pitch streaming cankers, or fruiting bodies occur.
3. In general, preserve the largest, healthiest, and best formed trees available that are in a good growing position regardless of species.
4. Retain all trees with signs of wildlife habitation (visible nests, active cavities).
5. Retain remnant and 'character' trees for wildlife habitat unless they pose a hazard to infrastructure or life. Wildlife trees include three or more of the following features: cavities, forked tops, broken tops, granary trees, and larger DBH snags that do not pose a hazard.

2. Hand Thin Specifications

1. Thin forest stands using handheld chainsaws.
2. Fall +/- 95% of live conifers up to 12.0" DBH within the dripline plus 30' of residual, mature or desired "leave" conifer trees, **or** to approximately 35' spacing whichever is greater.
 - a. Unit HT24 contains two Northern Goshawk nest cores. Within nest cores,

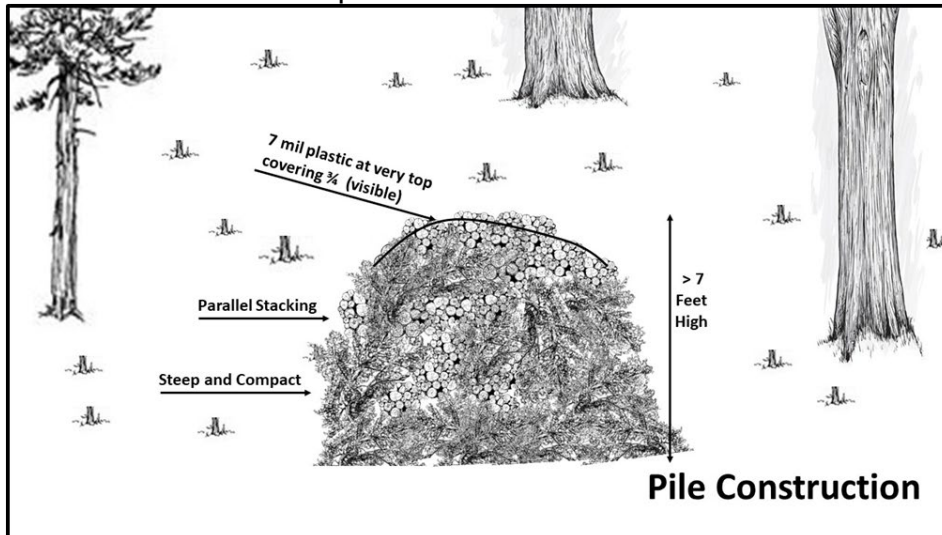
manually thin only up to a maximum of 6.0" DBH. These nest cores are mapped in Appendix C.

- b. Within control areas, manually thin only up to a maximum of 10.0" DBH and pile outside of the control area.
3. Cut all live and dead brush within the dripline of retained trees. Outside of driplines, cut all brush that is at waist height or taller.
4. Cut all snags and solid down woody debris from 2 to 14.0" in diameter into manageable sized lengths for piling (about 6-foot lengths). This will include the branches and tops of larger downed trees.
 - a. **Do not** cut or pile down woody debris that is found within control areas.
5. All trees shall be felled into the treatment units, and away from identified control areas, botany sites, and improvements such as but not limited to fences, gates, signs, or water tanks.
6. Fall trees away from streams.
7. No hand cutting of riparian vegetation or vegetation that provides stream bank stabilization.
8. Stumps shall be less than 6.0" in height and shall be cut flat or with a minimal angle to avoid creating a sharp stump (stobs).
9. Prune branches of all residual trees to 6 feet in height.
10. Trees less than one foot in height need not be cut.
11. Do not cut oaks or other hardwoods >8.0" DBH except for operability.
12. In brush dominated areas:
 - a. Space conifer stems to at least 30' and remove brush between leave trees.
 - b. In dense manzanita dominated areas, retain manzanita pockets (1 per acre 15'x15') that are not located within 100' of unit boundary, property lines, or roads.
13. Within 30' of FS System Trails:
 - a. Retain trees that provides the most horizontal screening and recreational value along trails

3. Hand Pile Specifications

1. Hand pile all slash created from the activities mentioned above.
2. Create piles greater than 7 feet high.

- a. The larger the pile the better with at least 20' between piles where feasible.
3. Piles should be compact with smaller material such as needles and branches in the bottom and center, and larger material such as boles on top to compress lighter fuels.
4. Boles will be oriented parallel to the slope (pointing up and down hill) to prevent rollout during burning.
5. Boles should be stacked parallel to each other (no teepees).
6. Cover at least 3/4 of each pile with 4 mil or greater plastic placed at the very top of the pile. Secure plastic to prevent loss from wind. Make plastic visible at the top of the pile.
7. Pile Construction Example:



8. Piles must be made at least 25 feet from perennial streams, intermittent streams, special aquatic features, and other riparian features. Piles must be made at least 15 feet from ephemeral streams. Pile buffers associated with streams are mapped in Appendix C.
9. Piles must be made at least 82 feet from streams which have not been surveyed for protected amphibian species. Unsurveyed streams with an 82-ft pile buffer are mapped in Appendix C.
10. No piles will be placed on trails.
11. No piles will be placed within control areas.

12. No piles will be placed within 15 feet of standing snags. Piles will be placed outside of the drip line of retained green trees.
13. No piles will be placed within 15 feet of downed logs and stumps >12.0".
14. No piles will be placed within 25 feet of the private property boundaries.
15. No piles will be placed underneath or within 30 feet of power lines.

4. Resource Protection Measures

a) Wildlife

- i. Units HT24, HT25, and HT26 fall within a Limited Operating Period (LOP) for Northern Goshawk. No mechanical operations may occur within the LOP from February 15 – September 15.
- ii. Units HT17, HT24, and HT25 fall partially within an LOP for Willow Flycatcher. No mechanical operations may occur within the LOP from May 1 – Jul 31.
- iii. Unit HT20 falls partially within an LOP for Peregrine Falcon. No mechanical operations may occur within the LOP from Feb 1 – Aug 31.
- iv. Unit HT20 falls partially within an LOP for Osprey. No mechanical operations may occur within the LOP from March 15 - Aug 15.
- v. Units HT21 and HT22 fall partially within an LOP for Bald Eagle. No mechanical operations may occur within the LOP from January 1 – August 31.
- vi. Unit HT24 contains two Northern Goshawk nest cores. Within nest cores, manually thin only up to a maximum of 6.0" DBH. These nest cores are mapped in Appendix C.
- vii. While there are no known occurrences of the following, if any foothill yellow-legged frogs or Sierra Nevada yellow-legged frogs (SNYLF) are found at any time during implementation of the proposed project, operations will cease in the vicinity of the frog. The immediate area around the frog will be vacated and the frog will be left alone. No activity will occur in that area until such time as the frog has left the area on its own. Foothill yellow-legged frogs and Sierra Nevada yellow-legged frogs will not be handled. The occurrence will be reported as soon as possible to the District Biologist and communicated to the appropriate line officer. If any foothill yellow-legged frogs or Sierra Nevada yellow-legged frogs are found, an 82-foot pile exclusion buffer will be implemented around any occupied streams.
- viii. There are a few ephemeral streams which have been found to have suitable habitat for SNYLF. These streams have an associated 25-ft pile buffer and equipment exclusion zone which are mapped in Appendix C.

b) Public Safety

- i. Some units are located adjacent to forest trails, forest roads, and county roads. It is the responsibility of the contractor to provide for public safety by providing/acquiring applicable signage, traffic control, and permits where implementation of work may impact roadways or the public. The Contractor shall adhere to the Manual on Uniform Traffic Control Devices (MUTCD) which is the national standard for all traffic control devices (TCD). TCD are signs, markings, pavement markings, and other devices used to control traffic on all roads open to public travel. TCD shall be constructed, located, installed, and maintained according to the standards contained in the MUTCD.

c) Recreation/Infrastructure

- i. Protect any encountered infrastructure such as trails, turnpikes, bridges, signs, and powerlines from cutting and piling operations. If any infrastructure is damaged or removed during Project activities, they will be replaced and re-installed in the same location and manner immediately following vegetation management operations. Trails will be left in their original condition following operations.

d) Botany

- i. Protected botany species avoidance areas are flagged with blue and black-striped flagging and are mapped in Appendix C. These areas will not be treated and are to be completely avoided during all activities.
- ii. Noxious weed infestations are marked with orange flagging and are shown in Appendix C. These areas will not be treated and are to be completely avoided during all activities.

e) Control Areas

There are several control areas throughout the project. Control areas are flagged on the ground with black and red striped flagging, and are mapped in Appendix C.

- i. Within control areas, manually thin only up to a maximum of 10.0" DBH.
- ii. Cut material must be piled outside of control areas.
- iii. Do not pile any previously downed woody material found within control areas.
- iv. Linear control features must only be crossed/breached and/or traversed at specified locations mapped on Appendix C.

f) Hydrology

- i. Piles must be made at least 25 feet from perennial streams, intermittent streams, special aquatic features, and other riparian features. Piles must be made at least 15 feet from ephemeral streams. Streams and associated pile buffers are mapped in Appendix C.

5. Boundary Designation

Unit boundaries are delineated using virtual boundaries. Property lines are flagged with solid red. Areas where service work units are outlined by the EA boundary are flagged with solid red. Areas where service work units bump up against commercial units are flagged with solid blue.

6. Unit Summary and Special Resource Information

Units HT3, HT4, HT5, HT7, HT9, HT10, HT18, HT19, HT24, HT25, HT26, HT27, and HT28 are of highest priority to complete first due to expiring wildlife surveys.

This table shows the estimated acres of treatment available in each unit. Actual acres completed/invoiced in each unit may differ slightly.

Unit #	Acres	Resource Notes
HT1	11	• Control Areas
HT2	71	• Hydrology ○ 15-ft Stream Buffer for Piling • Botany ○ Protected species
HT3	74	• Hydrology ○ 15-ft Stream Buffer for Piling
HT4	10	• Hydrology ○ 15-ft Stream Buffer for Piling
HT5	14	• Hydrology ○ 15-ft Stream Buffer for Piling
HT6	4	• Hydrology ○ 25-ft Stream Buffer for Piling
HT7	78	• Hydrology ○ 15-ft Stream Buffer for Piling ○ 25-ft Stream Buffer for Piling • Botany ○ Protected species
HT8	6	• Hydrology ○ 25-ft Stream Buffer for Piling
HT9	38	
HT10	22	• Hydrology ○ 15-ft Stream Buffer for Piling
HT11	44	• Hydrology ○ 15-ft Stream Buffer for Piling
HT12	10	• Hydrology ○ 15-ft Stream Buffer for Piling
HT13	5	• Hydrology

		○ 15-ft Stream Buffer for Piling
HT14	10	• Hydrology ○ 15-ft Stream Buffer for Piling
HT15	23	• Hydrology ○ 15-ft Stream Buffer for Piling
HT16	19	• Hydrology ○ 25-ft Stream Buffer for Piling • Botany ○ Protected Species • Control Areas • Control Area Approved Breaches
HT17	5	• Wildlife ○ LOP – Willow Flycatcher (May 1 – July 31) • Botany ○ Protected Species • Control Areas
HT18	8	
HT19	26	• Hydrology ○ 15-ft Stream Buffer for Piling ○ 25-ft Stream Buffer for Piling • Control Areas
HT20	258	• Hydrology ○ 15-ft Stream Buffer for Piling ○ 25-ft Stream Buffer for Piling • Wildlife ○ LOP – Peregrine Falcon (Feb 1 – Aug 31) ○ LOP – Osprey (March 15 – Aug 15) • Control Areas
HT21	12	• Hydrology ○ 25-ft Stream Buffer for Piling • Wildlife ○ LOP – Bald Eagle (Jan 1 - Aug 31)
HT22	16	• Hydrology ○ 15-ft Stream Buffer for Piling • Wildlife ○ LOP – Bald Eagle (Jan 1 - Aug 31)
HT23	21	
HT24	33	• Hydrology ○ 15-ft Stream Buffer for Piling • Wildlife ○ Nest Cores ○ LOP – Northern Goshawk (Feb 15 – Sept 15) ○ LOP – Willow Flycatcher (May 1 – July 31)
HT25	8	• Wildlife

		○ LOP – Northern Goshawk (Feb 15 – Sept 15) ○ LOP – Willow Flycatcher (May 1 – July 31)
HT26	3	• Wildlife ○ LOP – Northern Goshawk (Feb 15 – Sept 15) • Control Areas
HT27	3	
HT28	1	
HT29	81	• Hydrology ○ 15-ft Stream Buffer for Piling ○ 25-ft Stream Buffer for Piling
HT30	5	• Hydrology ○ 15-ft Stream Buffer for Piling • Control Areas
HT31	20	• Hydrology ○ 15-ft Stream Buffer for Piling ○ 25-ft Stream Buffer for Piling • Botany ○ Noxious Weeds • Control Areas
HT32	9	• Hydrology ○ 15-ft Stream Buffer for Piling
HT33	4	• Hydrology ○ 15-ft Stream Buffer for Piling
HT34	16	• Hydrology ○ 15-ft Stream Buffer for Piling
HT35	3	• Hydrology ○ 15-ft Stream Buffer for Piling
HT36	1	• Hydrology ○ 15-ft Stream Buffer for Piling
HT37	49	
HT38	60	• Hydrology ○ 15-ft Stream Buffer for Piling
HT39	25	• Hydrology ○ 15-ft Stream Buffer for Piling ○ 25-ft Stream Buffer for Piling • Control Areas • Control Area Breaches
HT40	2	
HT41	8	
HT42	2	• Hydrology ○ 15-ft Stream Buffer for Piling

7. Monitoring and Acceptance

During contract administration, the NFF's consulting oversight forester will conduct inspections of completed units verifying tree spacing, piling, species retention, diameter limits, and other specifications listed above. If the unit is deemed acceptable by the oversight forester based on the project specifications, the unit will be reviewed by USFS personnel for a final inspection to determine approval. If substantial variations from the project specifications are identified during operations, corrective action will be taken by the contractor as directed by NFF.

Invoices will be accepted no more frequently than every 30 days, and only completed and approved units will be invoiced.

Guidelines for Operations

1. Protection of Residual Trees

The Contractor's operations shall not unnecessarily damage young growth or other trees to be reserved.

2. Safety

The Contractor's operations shall facilitate safe and practical inspection of the Contractor's operations. The Contractor has/have all responsibility for compliance with safety requirements for the Contractor's employees.

When operations are in progress adjacent to, or on Forest Service controlled roads and trails open to public travel, the Contractor shall furnish, install, and maintain all temporary traffic controls that provide the user with adequate warning of hazardous or potentially hazardous conditions associated with operations occurring in the area. The parties shall agree to a specific traffic control plan prior to commencement of work. Devices shall be appropriate to current conditions and shall be covered or removed when not needed.

During periods of general recreation activity within the operations area or vicinity, the Forest Service may restrict activities to days other than Saturdays, Sundays, and holidays.

3. Sanitation and Servicing

The Contractor shall take all reasonable precautions to prevent pollution of air, soil, and water by the Contractor's operations. Precautions shall include if facilities for employees are established, they shall be operated in a sanitary manner. The parties shall agree to the cleanup and restoration of a polluted site. The Contractor shall maintain all equipment operating on site in good repair and free of abnormal leakage of lubricants, fuel, coolants, and hydraulic fluid. The Contractor shall not service tractors, trucks, or other equipment on National Forest lands where servicing is likely

to result in pollution to soil or water. The Contractor shall furnish oil-absorbing mats for use under all stationary equipment or equipment being serviced to prevent leaking or spilled petroleum-based products from contaminating soil and water resources. The Contractor shall remove from National Forest lands all contaminated soil, vegetation, debris, vehicle oil filters (drained of free-flowing oil), batteries, oily rags, and waste oil resulting from use, servicing, repair, or abandonment of equipment.

4. Prevention of Oil Spills

If the Contractor maintains storage facilities for oil or oil products on site, the Contractor shall take appropriate preventive measures to ensure that any spill of such oil or oil products does not enter any stream or other waters of the United States or any of the individual States. If the total oil or oil products storage exceeds 1,320 gallons in containers of 55 gallons or greater, the Contractor shall prepare a Spill Prevention Control and Countermeasures Plan. Such a plan shall meet applicable EPA requirements (40 CFR 112), including certification by a registered professional engineer. The Contractor shall notify the Forest Service and appropriate agencies of all reportable (40 CFR 110) spills of oil or oil products that are caused by the Contractor's employees, agents, sub-contractors or their employees or agents, directly or indirectly, as a result of the Contractor's operations. The Contractor will take whatever initial action may be safely accomplished to contain all spills.

5. Hazardous Substances

The Contractor shall notify the National Response Center and NFF principal contact of all releases of reportable quantities of hazardous substances on or in the vicinity of the work site that are caused by the Contractor's employees, agents, sub-contractors or their employees or agents, directly or indirectly, as a result of the Contractor's operations, in accordance with 40 CFR 302.

6. Cleaning Equipment

In order to prevent the spread of noxious weeds, the Contractor shall be required to clean all off-road logging and construction equipment prior to entry on Forest Service Lands. This cleaning shall remove all soil, plant parts, seeds, vegetative matter, or other debris that could contain or hold seeds. Only equipment so cleaned and inspected by the NFF or their agent will be allowed to operate on site. All subsequent move-ins of equipment to the site shall be treated in the same manner as the initial move in. "Off-road equipment" includes all logging, mastication and construction machinery, except for log trucks, chip vans, service vehicles, water trucks, pickup trucks, cars, and similar vehicles.

7. Protection of Streamcourses

The Contractor's Operations shall be conducted to prevent debris from entering stream courses, except as may be authorized under paragraph (d). In the event the Contractor cause(s) debris to enter stream courses in amounts that may adversely affect the natural flow of the stream, water quality, or fishery resource, the

Contractor shall remove such debris as soon as practicable, but not to exceed 2 days, and in an agreed manner that will cause the least disturbance to stream courses.

- a) Wheeled or track-laying equipment shall not be operated in stream courses, except at crossings agreed to by the Contractor, NFF, and the Forest Service or as essential to construction or removal of culverts and bridges.

8. Erosion Prevention and Control

The Contractor's operations shall be conducted reasonably to minimize soil erosion. Equipment shall not be operated when ground conditions are such that excessive damage will result. The Contractor shall adjust the kinds and intensity of erosion control work done, to ground conditions and weather conditions and the need for controlling runoff. Erosion control work shall be kept current immediately preceding expected seasonal periods of precipitation or runoff.

9. Protection of Improvements

So far as possible, the Contractor shall protect specified roads and other improvements (such as survey monuments, roads, trails, telephone lines, ditches, and fences) that exist in the operating area.

The Contractor shall keep roads and trails reasonably free of equipment, slash, and debris resulting from the Contractor's operations. The Contractor shall make timely restoration of any such improvements damaged by the Contractor's operations and, when necessary because of such operations, shall move such improvements.

10. Meadow Protection

Reasonable care shall be taken to avoid damage to the cover, soil, and water in meadows, whether shown on the contract map or discovered during implementation. Equipment shall not be used on meadows, except where approved in writing by NFF or FS. If so approved, resulting slash or debris shall be removed where necessary to protect cover, soil, and water.

11. Fire Precautions and Control

- a) **Plans.** Prior to initiating the Contractor's operations during Fire Precautionary Period, the Contractor shall file with the NFF and Forest Service a Fire Prevention and Control Plan providing for the prevention and control of fires on the contract area and other areas of the Contractor's Operations. Such plan shall include a detailed list of personnel and equipment at the Contractor's disposal for implementing the plan.
- b) **Fire Precautions.** Specific fire precautionary measures listed in this Appendix and in Appendix H – Fire Plan shall be applicable during the Contractor's Operations in "Fire Precautionary Period" described. The dates of Fire Precautionary Period may be changed by agreement, if justified by unusual

weather or other conditions. Required tools and equipment shall be kept in serviceable condition and immediately available for fire fighting at all times during the Contractor's operations in Fire Precautionary Period.

Inspection of fire tools and required equipment shall be conducted and documented by NFF or their agent prior to operations during the Fire Precautionary Period and at least once every two weeks during operations within the Precautionary Period. Lack of required tools and equipment is grounds for an immediate stop work order, such order may be issued by NFF's agent or by FS staff.

- c) **Substitute Precautions.** The NFF in cooperation with the FS may authorize substitute measures or equipment, or waive specific requirements by written notice, if substitute measures or equipment will afford equal protection or some of the required measures and equipment are unnecessary.
- d) **Emergency Precautions.** The NFF may require the necessary shutting down of equipment on portions of the Contractor's Operations, as specified by the emergency fire precautions schedule. Under such conditions, after the Contractor cease(s) active operations, the Contractor shall release for hire by Forest Service, if needed, the Contractor's shutdown equipment for fire standby on the project area or other areas of the Contractor's Operations and personnel for fire standby or fire patrol, when such personnel and equipment are not needed by the Contractor for other fire fighting or protection from fire. Equipment shall be paid for at fire fighting equipment rates common in the area or at prior agreed rates and, if the Contractor request(s), shall be operated only by personnel approved by the Contractor. Personnel so hired shall be subject to direction and control by Forest Service and shall be paid by Forest Service at fire fighting rates common in the area or at prior agreed rates.
- e) **Fire Precautionary Period and Fire Precautions.** Specific fire precautionary measures are set forth below. Upon request of Forest Service, the Contractor shall permit and provide an individual to assist in periodic testing and inspection of required fire equipment. The Contractor shall promptly remedy deficiencies found through such inspecting and testing.
 - i. The following requirements shall apply during the period April 1- December 1 and during other such periods as specified by Forest Service.
 - ii. *See fire plan.*

12. Fire Control

The Contractor shall, both independently and in cooperation with NFF and Forest Service, take all reasonable and practicable action to prevent and suppress fires resulting from the Contractor's Operations and to suppress any forest fire on the project area. The Contractor's independent initial fire suppression action on such fires shall be immediate and shall include the use of all necessary personnel and

equipment at the Contractor's disposal: **(Initial fire suppression within 25 road miles, and fire suppression re-inforcement within 100 miles).**

- a) **Reinforcement Obligations.** Whenever an Operations Fire or Negligent Fire has not been suppressed by initial action and appreciable reinforcement strength is required, NFF and Forest Service may require further actions by the Contractor until such fire is controlled and mopped up to a point of safety. Such actions may include any or all of the following as necessary to fight such fire:
- b) **Suspend Operations.** To suspend any or all of the Contractor's Operations.
- c) **Personnel.** To release for employment by Forest Service any or all of the Contractor's personnel engaged in the Contractor's Operations or timber processing within the distance of Project Area: **(25 Road miles)**. Any organized crew so hired shall include the Contractor's supervisor, if any. Personnel so employed shall be paid at Forest Service standard emergency fire fighting rates.
- d) **Equipment.** To make available for Forest Service rental at fire fighting equipment rates common in the area or at prior agreed rates any or all of the Contractor's equipment suitable for fire fighting and currently engaged in the Contractor's Operations within the distance of Project Area: **(100 Road miles)**. Equipment shall be operated only by personnel approved by the Contractor, if so requested by the Contractor.

APPENDIX H
FIRE PLAN FOR CONSTRUCTION AND SERVICE CONTRACTS
01/27/2016

1. **SCOPE:**

The provisions set forth below outline the responsibility for fire prevention and suppression activities and establish a suppression plan for fires within the contract area. The contract area is delineated by map in the contract. The provisions set forth below also specify conditions under which contract activities will be curtailed or shut down.

2. **RESPONSIBILITIES:**

A. Contractor

- (1) Shall abide by the requirements of this Fire Plan.
- (2) Shall take all steps necessary to prevent his/her employees, subcontractors and their employees from setting fires not required in completion of the contract, shall be responsible for preventing the escape of fires set directly or indirectly as a result of contract operations, and shall extinguish all such fires which may escape.
- (3) Shall permit and assist in periodic testing and inspection of required fire equipment. Contractor shall certify compliance with specific fire precautionary measures in the fire plan, before beginning operations during Fire Precautionary Period and shall update such certification when operations change.
- (4) Shall designate in the Fire Plan and furnish on Contract Area, during operating hours, a qualified fire supervisor authorized to act on behalf of Contractor in fire prevention and suppression matters.

B. Forest Service

The Forest Service may conduct one or more inspections for compliance with the Fire Plan. The number, timing, and scope of such inspections will be at the discretion of agency employees responsible for contract administration. Such inspections do not relieve the Contractor of responsibility for correcting violations of the fire plan or for fire safety in general, as outlined in paragraph 2.A above.

3. **DEFINITIONS:**

The following definitions shall apply:

Active Landing: A location the contractor may be skidding logs into, or performing other operations such as delimbing, log manufacturing, and chipping logs. Except for EV and E days, loading logs or stockpiling chips only, on a cleared landing, does not constitute an Active Landing.

Hot Saw: A harvesting system that employs a high-speed (>1100 rpm) rotating felling head, i.e., full rotation lateral tilt head.

Mechanical Operations: The process of felling, skidding, chipping, shredding, masticating, piling, log processing and/or yarding which requires the use of motorized power which includes, chainsaws, chippers, motorized carriages, masticators, stroke delimiters, skidders, dozers etc.

4. **TOOLS AND EQUIPMENT:**

The Contractor shall comply with the following requirements during the fire precautionary period, as defined by unit administering contracts:

The Fire Precautionary Period is set by the State of California which is April 1 through December 1 of any year.

- This contract requires a Fire Box and associated Fire Tools according to CPRC Section 4428.

A. Fire Tools and Equipment: Contractor shall meet minimum requirements of Section 4428 of the California Public Resources Code (C.P.R.C.). Fire tools kept at each operating landing shall be sufficient to equip all employees in the felling, yarding, loading, chipping, and material processing operations associated with each landing. Fire equipment shall include two tractor headlights for each tractor dozer used in Contractor's Operations. Tractor headlights shall be attachable to each tractor and served by an adequate power source. All required fire tools shall be maintained in suitable and serviceable condition for fire fighting purposes.

Trucks, tractors, skidders, pickups and other similar mobile equipment shall be equipped with and carry at all times a size 0 or larger shovel with an overall length of not less than 46 inches and a 2-1/2 pound axe or larger with an overall length of not less than 28 inches.

Where cable yarding is used, Contractor shall provide a size 0 or larger shovel with an overall length of not less than 46 inches and a filled backpack can (4 or 5 gallon) with hand pump within 25 feet of each tail and corner block.

B. Fire Extinguishers: Contractor shall equip each internal combustion yarder, fuel truck, and loader with a fire extinguisher for oil and grease fires (4-A:60-B:C).

Skidders and tractors shall be equipped with a minimum 5-BC fire extinguisher.

All Fire Extinguishers shall be mounted, readily accessible, properly maintained and fully charged.

Contractor shall equip each mechanized harvesting machine with hydraulic systems, powered by an internal combustion engine (chipper, feller/buncher, harvester, forwarder, hot saws, stroke delimber, etc), except tractors and skidders, with at least two 4-A:60-B:C fire extinguishers or equivalent.

C. Spark Arresters and Mufflers: Contractor shall equip each operating tractor and any other internal combustion engine with a spark arrester, except for motor vehicles equipped with a maintained muffler as defined in C.P.R.C. Section 4442 or tractors with exhaust-operated turbochargers. Spark Arresters shall be a model tested and approved under Forest Service Standard 5100-1a as shown in the. National Wildlife Coordinating Group Spark Arrester Guide, Volumes 1 and 2, and shall be maintained in good operating condition. Every motor vehicle subject to registration shall at all times be equipped with an adequate exhaust system meeting the requirements of the California Vehicle Code.

D. Power Saws: Each power saw shall be equipped with a spark arrester approved according to C.P.R.C. Section 4442 or 4443 and shall be maintained in effective working order. An Underwriters Laboratories (UL) approved fire extinguisher containing a minimum 14 ounces of fire retardant shall be kept with each operating power saw. In addition, a size 0 or larger shovel with an overall length of not less than 38 inches shall be kept with each gas can but not more than 300 feet from each power saw when used off cleared landing areas.

- This contract **does NOT require** Section 4E of the Fire Plan.

E. Tank Truck or Trailer: Contractor shall provide a **water tank truck or trailer** on or in proximity to Contract Area during Contractor's Operations hereunder during Fire Precautionary Period. When Project Activity Level B or higher is in effect, a tank truck or trailer shall be on or immediately adjacent to each active landing, unless otherwise excepted when Hot Saws or Masticators are being used. See Section 6 for specific contract requirements.

The tank shall contain at least 300 gallons of water available for fire suppression. Ample power and hitch shall be readily available for promptly and safely moving tank over roads serving Contract Area. Tank truck or trailer shall be equipped with the following:

- (1) Pump, which at sea level, can deliver 23 gallons per minute at 175 pounds per square inch measured at the pump outlet. Pumps shall be tested on Contract Area using a 5/16 inch orifice in the Forester One Inch In-Line Gauge test kit. Pump shall meet or exceed the pressure value in the following table for nearest temperature and elevation:

T e m p	Sea Level		1000 Feet		2000 Feet		3000 Feet		4000 Feet		5000 Feet		6000 Feet		7000 Feet		8000 Feet		9000 Feet		1000 0 Feet	
55	179	23	174	23	169	23	165	22	161	22	157	22	153	22	150	21	146	21	142	21	139	21
70	175	23	171	23	166	22	162	22	158	22	154	22	150	21	147	21	143	21	139	21	136	20
85	171	23	168	23	163	22	159	22	155	22	151	21	147	21	144	21	140	21	136	20	133	20
100	168	23	164	23	159	22	155	22	152	22	148	21	144	21	141	21	137	20	133	20	131	20
	P S I	G P M	P S I	G P M	P S I	G P M	P S I	G P M	P S I	G P M	P S I	G P M	P S I	G P M	P S I	G P M	P S I	G P M	P S I	G P M	P S I	G P M

The pump outlet shall be equipped with 1-1/2 inch National Standard Fire Hose thread. A bypass or pressure relief valve shall be provided for other than centrifugal pumps.

- (2) 300 feet of 3/4-inch inside diameter rubber-covered high-pressure hose mounted on live reel attached to pump with no segments longer than approximately 50 feet, when measured to the extreme ends of the couplings. Hose shall have reusable compression wedge type 1-inch brass or lightweight couplings (aluminum or plastic). One end of hose shall be equipped with a coupling female section and the other end with a coupling male section. The hose shall, with the nozzle closed, be capable of withstanding 200 PSI pump pressure without leaking, distortions, slipping of couplings, or other failures.
- (3) A shut-off combination nozzle that meets the following minimum performance standards when measured at 100 P.S.I. at the nozzle:

	G.P.M.	Horizontal Range
Straight Stream	10	38 feet
Fog Spray	6 - 20	N/A

- (4) Sufficient fuel to run the pump at least 2 hours and necessary service accessories to facilitate efficient operation of the pump.

When Contractor is using Hot Saws or Masticators, an additional 250 feet of light weight hose, approved by the Forest Service, shall be immediately available for use and be capable of connecting to the 300 feet of hose and appurturances in (2) and (3) above.

This equipment and accessories shall be deliverable to a fire in the area of operations and is subject to the requirements for each specific activity level identified in Section 6.

F. Compressed Air Foam System: A Compressed Air Foam System (CAFS) is a fire suppression system where compressed air is added to water and a foaming agent. By agreement, Contractor may substitute a CAFS or functional equivalent in lieu of the tank truck, trailer or fire extinguishers, provided it meets or exceeds the following specifications and requirements:

1. Variable foam expansion ratio – 10:1 to 20:1.
2. Units shall be kept fully charged with air; water and foam concentrate as recommended by the manufacturer and have the appropriate tools to service the system.
3. The unit shall contain enough energy to empty tank and clear hose prior to exhausting propellent.
4. The unit shall be capable of being completely recharged within 10 minutes.
5. When used on cable yarding landings, the unit shall be outfitted for immediate attachment to carriage and transported without damage to the unit.

Fire extinguishers required for Hot Saws, Masticators and similar equipment identified in Section 4 B. above may be substituted with a 3 gallon CAFS.

Tank truck, trailer or equivalent may be substituted with a 30 Gallon CAFS with at least 550 feet of one inch hose and an adjustable nozzle with enough water, air and foam concentrate for at least one recharge.

This equipment and accessories shall also be deliverable to a fire in the area of operations and subject to the requirements for each specific activity level identified in Section 6.

5. **GENERAL**

- A. **State Law:** In addition to the requirements in this Fire Plan, the Contractor shall comply with all applicable laws of the State of California. In particular, see California Public Resource Codes.
- B. **Permits Required:** The Contractor must secure a special written permit from the District Ranger or designated representative before burning, welding or cutting metal or starting any warming fires. If contract requires Blasting and Storing of Explosives and Detonators, an Explosives Permit may be required pursuant to the California Health and Safety Code, Section 12101.
- C. **Blasting:** Contractor shall use electric caps only unless otherwise agreed in writing. When blasting is necessary in slash areas, a Fire Patrolperson equipped with a size 0 or larger shovel with an overall length of not less than 46 inches and a filled backpack can (4 or 5 gallon) with hand pump shall remain in the immediate area for an hour after blasting has been completed.
- D. **Smoking:** Smoking shall not be permitted during fire season, except in a barren area or in an area cleared to mineral soil at least three feet in diameter. In areas closed to smoking, the CO may approve special areas to be used for smoking. The Contractor shall sign designated

smoking areas. Contractor shall post signs regarding smoking and fire rules in conspicuous places for all employees to see. Contractor's supervisory personnel shall require compliance with these rules. Under no circumstances shall smoking be permitted during fire season while employees are operating light or heavy equipment, or walking or working in grass and woodlands.

- E. **Storage and Parking Areas.** Equipment service areas, parking areas, and gas and oil storage areas shall be cleared of all flammable material for a radius of at least 10 feet unless otherwise specified by local administrative unit. Small mobile or stationary internal combustion engine sites shall be cleared of flammable material for a slope distance of at least 10 feet from such engine. The COR shall approve such sites in writing.
- F. **Reporting Fires:** As soon as feasible but no later than 15 minutes after initial discovery, Contractor shall notify Forest Service of any fires on Contract Area or along roads used by Contractor. Contractor's employees shall report all fires as soon as possible to any of the following Forest Service facilities and/or personnel listed below, but not necessarily in the order shown:

	Name	Office Address	Office telephone
Dispatch Center	Plumas Dispatch	159 Lawrence, Quincy, CA	530-283-7838
	Beckwourth Ranger District	23 Mohawk Hwy Rd, Blairsden, CA 96103	530-836-2575

When reporting a fire, provide the following information:

- Your Name
 - Call back telephone number
 - Project Name
 - Location: Legal description (Township, Range, Section); and Descriptive location (Reference point)
 - Fire Information: Including Acres, Rate of Spread and Wind Conditions.
- **This contract requires Section 5G of the Fire Plan.**
- G. **Communications:** Contractor shall furnish a serviceable telephone, radio-telephone or radio system connecting each operating side with Contractor's headquarters. When such headquarters is at a location which makes communication to it clearly impractical, Forest Service may accept a reasonable alternative location. The communication system shall provide prompt and reliable communications between Contractor's headquarters (or agreed to alternative) and Forest Service via commercial or Forest Service telephone.
- **This contract requires Section 5H of the Fire Plan.**
- H. **Fire Patrolperson:** Contractor shall furnish a qualified fire patrolperson each operating day when Project Activity Level C or higher is in effect. When on duty, sole responsibility of patrolperson shall be to patrol the operation for prevention and detection of fires, take suppression action where necessary and notify the Forest Service as required. This Fire patrol is required on foot, unless otherwise agreed. By agreement, one patrolperson may provide patrol on this and adjacent projects. No patrolperson shall be required on Specified Road construction jobs except during clearing operations unless otherwise specified.

The Contractor shall, prior to commencing work, furnish the following information relating to key personnel:

1) <u>Title</u>	<u>Name</u>	<u>Telephone Number</u>
2) <u>Fire Supervisor</u>		
3) <u>Fire Patrolperson</u>		

- I. **Clearing of Fuels:** Contractor shall clear away, and keep clear, fuels and logging debris as follows:

Welding equipment and stationary log loaders, yarders and other equipment listed in California State Law:	10 feet slope radius
Tail or corner haulback blocks:	All running blocks shall be located in the center of an area cleared to mineral soil at least 15 feet in diameter.
Lines near, between or above blocks:	Sufficient clearing to prevent line from rubbing on snags, down logs and other dead woody material.

6. **EMERGENCY PRECAUTIONS**

Contractor's Operations shall conform to the limitations or requirements in the Project Activity Level (PAL) table below. Project Activity Levels applicable to this project shall be the predicted activity levels for the Fire Danger Rating Area(s), or fire weather station(s) stated in the Contract Area Map Legend on Integrated Resource Service Contracts (IRSC's), and other contracts where applicable.

Fire Danger Rating Area/Fire Weather Station for Project **East Zone/ Beckwourth RD**

The Forest Service, in its sole discretion, may change the predicted activity level if the current fire suppression situation, weather and vegetation conditions warrant an adjustment. If practicable, Forest Service will determine the following day's activity level by 6:00 PM. Contractor shall obtain the predicted Project Activity Level from the appropriate Ranger District Office before starting work each day.

Phone Number or Website to obtain Predicted Activity Levels:

1-800-847-7766

Forest Service may change the Project Activity Level Table to other values upon revision of the National Fire Danger Rating System. When Contractor is notified, the revised Project Activity Levels will supersede the levels in the Project Activity Level Table below.

PROJECT ACTIVITY LEVEL

Level	<i>Project Activity Minimum Requirements and Restrictions. Restrictions at each level are cumulative.</i>
A	Minimum requirements noted above in Sections 4 and 5.
B	1. Tank truck, trailer, or approved CAFS substitute shall be on or adjacent to the Active Landing.

Level	<i>Project Activity Minimum Requirements and Restrictions. Restrictions at each level are cumulative.</i>
C	1. When Hot Saws or Masticators are operating, a tank truck, trailer, or approved CAFS substitute shall be within ¼ mile of these operations. Effective communications shall exist between the operator and the Active Landing. 2. Immediately after Mechanical Operations cease, Fire patrol is required for two hours.
D	1. Immediately after Hot Saw or Masticator operations cease, Fire patrol is required for three hours. 2. No Dead Tree felling after 1:00 PM, except recently dead. 3. No burning, blasting, welding or cutting of metal after 1:00 PM, except by special permit.
Ev	1. The following activities may operate all day: a) Loading and hauling logs decked at approved landings. b) Loading and hauling chips stockpiled at approved landings. c) Servicing equipment at approved sites. d) Dust abatement, road maintenance (Chainsaw use prohibited), culvert installation within cleared area, chip sealing, paving, earth moving or rock aggregate stock pile loading and installation (does not include pit or quarry development). e) Chainsaw and log processing operations associated with loading logs or other forest products at approved landings. 2. Hot Saws or Masticators may operate until 1:00 PM; provided that: a) A tractor or other equipment with a blade capable of constructing fireline is on or adjacent to the active landing or within ¼ mile of the operating equipment. This piece of equipment shall have effective communication with the Hot Saw or Masticator. b) Any additional restrictions specified by the Forest. 3. All other conventional Mechanical Operations are permitted until 1:00 PM. 4. Some operations may be permitted after 1:00 PM, on a case-by-case basis, under the terms of a PAL Ev Variance Agreement. Activities for which a Variance may be issued are: • Rubber Tire Skidding • Chipping on Landings • Helicopter Yarding • Fire Salvage When approved by a Line Officer, a Variance Agreement can be implemented when the criteria specified in the agreement are met and mitigation measures are in place. This approval is good for ten (10) days unless cancelled sooner or extended by the Contracting Officer for an additional ten (10) days. Variance approval can be withdrawn at the sole discretion of the Forest Service. Variance approval is contingent on the 7-day fire weather forecast, fuel conditions, site characteristics, current fire situation, state of Contractor's equipment for prevention and suppression readiness, type of operation and social and community considerations etc. (See attached Project Activity Level Variance Agreement).
E	The following activities may operate all day: 1. Loading and hauling logs decked at approved landings. 2. Loading and hauling chips stockpiled at approved landings. 3. Servicing Equipment at approved sites. 4. Dust abatement, road maintenance (chainsaw use prohibited) or loading stock piles and rock aggregate installation (does not include pit or quarry development). 5. Chainsaw operation associated with loading at approved landings. All other activities are prohibited.

This Project utilizes "The Project Activity Level" (PAL), an industrial operation's fire precaution system. The following Climatology Chart indicates the Historic Activity Levels for the Project Fire Danger Rating Area or Fire Weather Station utilized on this Project. This is only a historical average of the Activity Levels for the identified Fire Danger Rating Area or Weather Station.

Project Activity Level Climatology								
Fire Danger Rating Area/Weather Station	Central/Quincy RD and Cashman RAWS				Years Analyzed		2013	
	A	B	C	D	Ev	E	Days	
Month	Expected Days per Month at Each PAL Value						Analyzed	
June			11	6	11	0	30	
July			5	6	20	0	31	
August								
September								

Project Activity Level Climatology								
Fire Danger Rating Area/Weather Station	West/Jarbo Gap and Pike County RAWS				Years Analyzed		2013	
	A	B	C	D	Ev	E	Days	
Month	Expected Days per Month at Each PAL Value						Analyzed	
June			22	1	0	0	30	
July			18	9	1	0	31	
August								
September								

Region 5 Project Activity Level (PAL) Ev Variance Application/Agreement

Project Name: _____

Contract Number: _____

Contractor Name: _____

Request # ____, for period: _____

Units/Subdivisions Affected: _____

Location of operation:	
Slope	
Aspect	
Elevation	
Fuels on site	
Fuels in surrounding area	
7 Day PAL Outlook	
Short range predictions (Red Flags)	
4) Fuel Moistures	
Response time of suppression resources	
Potential for ignition	
RAWS location	
Current Fire Situation:	
Draw down information	
National Readiness Level	
Contractual considerations:	
Normal Operating Season	
Frequency of recent contract fires in area	
Type of operation	
Contractors past/current performance & equipment readiness	
Other site specific mitigation or precaution (i.e. Contractors proposals)	
Social & Community Considerations:	
Proximity of high value resources	
Sensitivity of location	

Proposed Actions:

Description of Mitigation Measures:

Remarks:

Fire Management Officer Concurrence

Date

Line Officer Approval

Date

I have considered the above request and determined the specified mitigation measures or actions must be implemented to continue operations in Project Activity Level Ev. Unless extended, the approval remains in effect for ten (10) calendar days unless cancelled sooner or extended by the Forest Service for an additional ten (10) days. At the sole discretion of the Forest Service, this variance can be modified and/or cancelled at no cost to the government.

Contracting Officer

Date

Contractor Representative

Date