Jackson Demonstration State Forest

Railroad Gulch 2014 Timber Sale

SUMMARY OF SALE INFORMATION

Bid Date:	May 6, 2014		Estimated Net Volume:	**3,631 Mbf**
Minimum Bid:			THP Number:	1-13-125 MEN
Redwood	$525	/Mbf	Information:	Brandon Rodgers
Fixed Price:			Phone:	(707) 964-5674
Douglas-fir	$40	/Mbf	Date:	3/26/2014
whitewoods	$40	/Mbf		

Table 1. Estimated Total Volume to be Harvested (Bf)

Species	Gross	Net	% Defect & Breakage	% Species Comp.
Redwood	3,036,539	2,641,790	13%	73%
Douglas-fir	872,175	758,790	13%	21%
Whitewoods	258,377	229,960	11%	6%
Totals	4,167,090	3,630,540		100%

Table 2a. Estimated Volume, Cable (Bf)

Species	Gross	Net
Redwood	1,099,280	956,370
Douglas-fir	513,420	446,680
Whitewoods	83,411	74,240
Totals	1,696,111	1,477,290

Table 2b. Estimated Volume, Tractor (Bf) 61%

Species	Gross	Net
Redwood	1,937,259	1,685,420
Douglas-fir	358,755	312,120
Whitewoods	174,966	155,720
Totals	2,470,979	2,153,260

Table 3. Estimated Acreage

	Plan ac.	NSO Buffer	Net ac.
Cable	87	0	87
Tractor	138	0	138
WLPZ	15	0	
Totals	240	0	225

Table 4. QMD by Species *(not including estimated cable corridor volume ~7%)*

Species	
Redwood	26
Douglas-fir	30
Whitewoods	29

GENERAL INFORMATION

The list below is not intended to be all inclusive and all requirements of the Railroad Gulch Timber Harvest Plan (1-13-125 MEN) apply. Copies of Sections I and II of the THP are available by request from the State Forest headquarters or available via the internet, ftp://thp.fire.ca.gov/THPLibrary/North_Coast_Region/THPs2013/1-13-125MEN/ . One complete copy will be provided to the LTO.

TIMBER HARVESTING PLAN

Item 5: The LTO shall be responsible for erosion control maintenance after timber operations have ceased and until certification of the Work Completion Report

Item 14d: All harvest trees are marked with blue paint.

Unmarked trees may be felled in the following situations:

1) To provide safe operating corridors for skyline cable operations. See Cable Clearance Trees below, Item 14g.
2) To provide stumps for cable-rigging purposes.
3) Compliance with Title 8 CCR, Logging and Sawmill Safety Orders.
4) As described in Item 14(g) below for damaged trees.

Item 14f: Tanoak will be harvested to reduce competition with conifers. Any harvested hardwood may be yarded to the nearest landing. Hardwoods with a DBH of 22" or greater will not be harvested unless necessary for safety, yarding or road construction.

Item 14g: Trees Substantially Damaged by Logging Activities: Damaged trees may not be felled if within a WLPZ, if marked for retention, or if the damaged tree has a cavity potentially used by wildlife. Otherwise, merchantable young growth trees damaged during timber operations shall be felled and yarded as approved and directed by the plan submitter.

Downed Trees: There shall be no cutting or removal of existing unmarked down trees or logs. These logs may be moved if necessary for clearing truck road rights-of-way and as otherwise necessary to harvest the designated timber. If windthrow of merchantable trees occurs in the logging area prior to completion of operations, windthrown trees outside of the WLPZ may be harvested upon approval of the plan submitter.

Cable Clearance Trees: Any tree (within the THP area only) may be harvested/felled if necessary for cable clearance, except for trees located within a WLPZ. Trees located within a WLPZ shall not be felled for cable corridors unless they directly impact the safety of cable yarding operations. These trees felled for safety may be harvested. No trees located within the channel zone of a class I or II watercourse may be felled for cable clearance. Compliance with all other applicable Forest Practice Rules and requirements in the THP is required.

Item 15: SOD Compliance: LTO is responsible for ensuring all vehicles are free from regulated host material. If logs will be delivered to a destination other than stated a minor amendment is required.

Item 16: With prior approval of the Plan Submitter's designee, the LTO may cable yard any area designated for ground based yarding provided it will afford equal or greater protection to the soil and residual stand.

Item 18: Soil stabilization treatments required under item 18 will be accomplished with weed free straw. In the THP the coverage rate states at least 90% of the surface to a depth of at least three inches. However, the requirement stated in the Timber Sale Contract shall be met: 95% surface coverage to a depth of at least four inches.

Traveled surfaces of logging roads shall be treated for dust abatement and kept in firm condition.

All waterbreaks shall be installed no later than the beginning of the winter period of the current year of timber operations.

Installation of drainage facilities and structures is required from October 15 to November 15 and from April 1 to May 1 on all constructed skid trails and tractor roads prior to sunset if the National Weather Service forecast is a "chance" (30% or more) of rain within the next 24 hours.

Geology Map - Map Point G4 has ELZ flagged. No equipment allowed. Directional felling and possible end lining to occur in this area

Item 21: Where existing skid trails are to be used on the unstable areas and slopes over 50%, the skid trail network has been pre-flagged by the RPF.

Item 23: Year-round wet weather restrictions apply and shall be adhered to.

A winter operating plan is included in item 23 and shall be adhered to.

Item 25: A small segment of new road (approximately 150') is proposed for construction if it is determined necessary for access.

Item 26: The Class I watercourse have a 150 foot WLPZ and Class II watercourses have a 100 foot WLPZ. Class III watercourses (on tractor ground) have a 50' ELZ.

There is a water drafting plan and two approved Water Drafting sites with to two separate 1600 permits (1600-2013-0063-R1 & 1600-2013-0277-R1) One is identified as WD 17 on the Appurtenant Road Map and one at the confluence of Caspar Creek and SF Caspar Creek. A well and water tank at Woodlands Fire station are currently planned for installation in time for the 2014 logging season. Water may be available at this site if adequate water is produced by the well.

Item 30: Slash created and trees knocked down by timber operations within 100 feet of the edge of JDSF Road 700 and 50 feet of JDSF Road 705 shall be treated for hazard reduction. Please note that the harvest area is more than 100' from Road 700 in most locations.

Item 32: No timber operations shall occur until Northern Spotted Owl (NSO) protocol surveys have been completed for the current, and/or immediately preceding survey period, the results have been provided to CAL FIRE to be evaluated for consistency with the plan and the protocol, and the results have been amended into the plan.

Item 33: All snags within the timber harvest area shall be retained with the exception of snags that pose a fire or safety hazard. If the LTO determines a snag to be a hazard, the LTO has the option to fall the snag for safety purposes.

Item 36: A meeting between the RPF and LTO is required prior to operations.

Item 38: Prior to start of operations in the vicinity of the Forestry History Trail, “trail closed” signs shall be posted in locations approved by the RPF.

Prior to start of log hauling, signage shall be posted on Road 700 advising of logging traffic at locations approved by the RPF.

Prior to the start of operations, 15 MPH speed limit signs shall be posted on Road 700 in locations approved by the RPF.

The LTO shall provide flagmen with communication to the yarder anytime a cable yarding setting is needed to cross Road 700.

DAYS and HOURS OF OPERATION

From June 1 to September 1 of any year of operation, between the hours of 1900 to 0700, the LTO shall not conduct yarding and loading operations or use chainsaws.

No timber operations except equipment maintenance, water drafting, and watering of road surfaces, shall occur during the weekends or national holidays from June 1 to Sept. 1.

LTO shall notify Plan Submitter of scheduled road closures of Road 700 anticipated to last beyond one hour. Notifications shall be provided in advance of the closure to allow the Plan Submitter time to notify Woodlands Camp Association of date and duration of closure.

TIMBER SALE AGREEMENT

Page	Item	Description
3	2D	All timber scaled by “third party” scaling organization, using Revised Scribner Decimal C Log Rule.
3	3A	Unless written extension of time is granted by the Director of Forestry and Fire Protection, all merchantable timber designated for cutting shall be paid for and all timber operations shall be completed on or before November 15, 2014. Yarding and hauling operations shall not commence prior to August 4, 2014. All lopping shall be completed by January 31, 2015.
4	3B	Between June 1 and September 1 of any year of operations, there shall be no log hauling or timber operations except drafting, road watering and equipment maintenance on weekends and State holidays. The fueling and routine maintenance of logging equipment and the watering of logging roads are permitted between the hours of 7:00 a.m. and 11:00 p.m. Between June 1 and September 1, the operation of any power equipment on the sale area, including chain saws but not including licensed highway vehicles, shall be confined to the hours between 7:00 am and 7:00 pm..
5	7	Production and cost data with respect to all timber harvesting operations and other forestry activities shall be provided by the LTO. Required data includes person-hours and equipment-hours spent on each activity, and applicable rates for employees, machines and supervision, and costs for any materials or services needed for completion of activities. Daily water use data with respect to water drafting activities shall be provided.
6	10	The minimum log dimensions for utilization is 10 feet in length and 8 inches in small-end diameter. Any log segment presented for scaling shall be scaled as merchantable which has a net volume of at least 10 board feet, providing a net merchantable scale of at least 25 percent of the total volume.
7	11B	Payment for scaling and reporting services performed by the scaling organization shall be made by the Purchaser.
8	11J	Conduct a minimum of one check scale per month per scaler by the scaling organization, during the operating season, to document scaler proficiency.
9	11P	Weekly reports of faller days and volume by unit shall be provided by the LTO. This information is to be available for collection by the Timber Sale Officer or delivered to State Forest HQ no later than the following Tuesday.
10	13A	All terms, provisions and requirements of the Forest Practice Rules and the Timber Harvesting Plan (1-13-125 MEN) are made part of the Timber Sale Agreement. On completion of operations satisfactory to the Timber Sale Officer, the operator shall certify by letter to the STATE, all operations are complete and comply with Forest Practice Rules and THP.

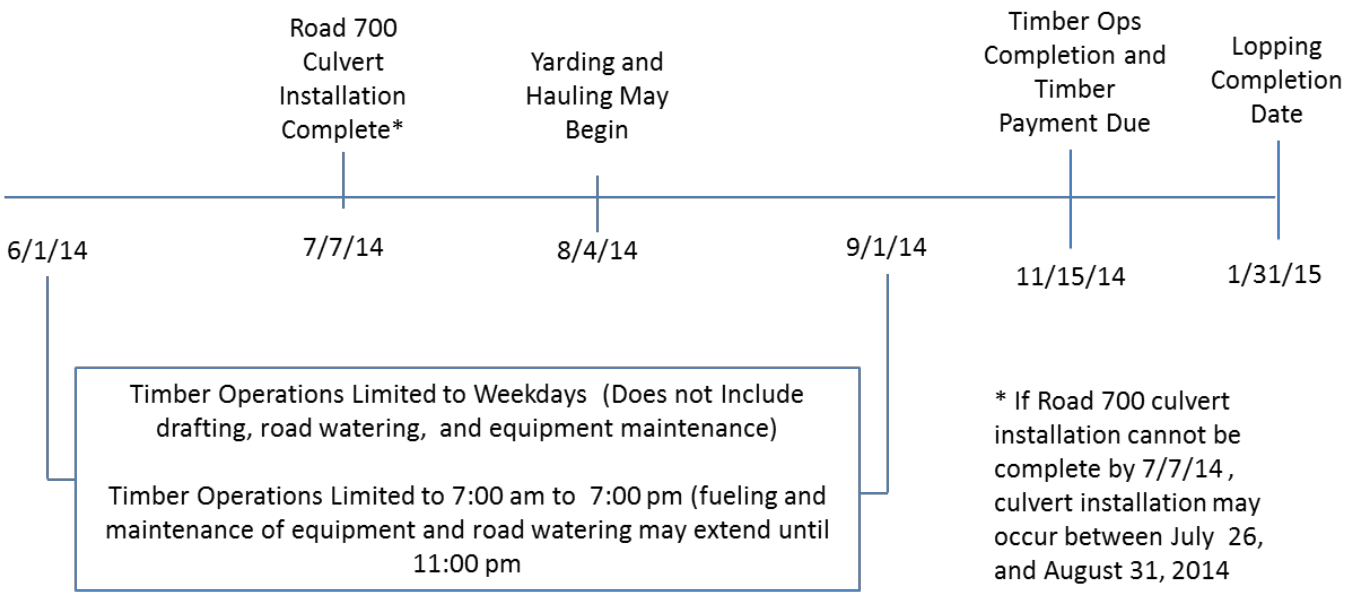
Page	Item	Description
10	13A1	A pre-work conference to be attended by representatives of the State and the Purchaser, including subcontractors is required before operations can begin. The Purchaser is responsible to ensure all contractors are provided with relevant applicable documentation.
11	13A2	No timber operations shall be conducted after January 31 of any year until the State or the Purchaser has completed required surveys for northern spotted owls, and extension of the No-Take determination has been received from the appropriate reviewing agency.
11	13A3	Flagging of all skid trails required at least two weeks in advance and notify the Timber Sale Officer for approval.
11	13A5	Minimum distance between new skid trails is 100 feet, unless waived by the Sale Officer.
12	13A7	Merchantable trees felled and bucked to log lengths, limbed to the 8-inch top, and the top bucked at the time of felling.
12	13A8	All slash created by timber operations within 100 feet of JDSF Road 700 and within 50 feet of JDSF Road 705 shall be lopped to the extent that no portion shall remain over 30 inches above the ground
12	13A9	Maximize the extent of spreading slash to avoid or minimize the need for piling and isolating slash for burning.
13	13A11	Cable yarding system requirements are given.
13	13A12	Location of cable corridors will be flagged, mapped and approved by Sale Officer prior to rigging. Distance between cable corridors, no less than 200 feet measured from the back of cable road.
14	13A16	No permanent painted messages. Temporary signs to be removed once function is complete.
14	13A18	Yarding patterns that require cable lines across JDSF Road 700 should be avoided. If not, the timing must be included in the work plan and the Timber Sale Officer shall be advised two working days prior to rigging. At any time that cable lines cross any JDSF Road 700, a person stationed on the road in communication with the yarder to control traffic when lines are being raised or lowered, or when cable road changes are being made must be in place.
14	13A20	Mulching standard is at least 95% coverage to a minimum depth of four inches.
14	13A22	Within areas designated for group openings, (delineated by red and black striped flagging and shown on the TSA map), unmerchantable vegetation shall be slashed and lopped. Slashing specifications include cutting all unmerchantable vegetation not designated for leaving which has a stem diameter of at least one inch and a height of at least six feet with the exception of madrone trees which shall be retained if feasible. Lopping specifications include lopping to height of 30 inches within the group openings. Approximately 10.5 acres are proposed for slash and lop treatment

Page	Item	Description
16	17A7	The locations and extent of all new landings shall be approved in advance by the Sale Officer.
17	17D	All required culvert installations on JDSF Road 700 shall be completed prior to July 7, 2014 or between July 26 and August 31 2014. All required culvert installations and replacements on JDSF Road 705 shall be completed prior to log hauling on those roads, and not later than October 15, 2014 Dispose culverts at an off-forest public disposal site.
19	17I	One application of calcium lignosulfonate (lignin), or an equivalent dust treatment substance applied on 3.4 miles of Road 700. If County Road 409 is used for log hauling, one application of calcium lignosulfonate (lignin) or an equivalent shall be applied 1.45 miles of County Road 409. The STATE and the PURCHASER shall meet with a representative of the Mendocino County Transportation Department prior to any work on County Road 409. The PURCHASER shall place temporary signs provided by the STATE to notify the public of road work on County Road 409.
19	17K	Maintenance work shall also be done within 15 days of the end of hauling operations on each road, and immediately on completion of hauling on any road after October 15.
19	17M	100-150 feet of new seasonal road is proposed if deemed necessary to access timber.
19	17O	The PURCHASER shall provide, haul, place and compact 229 cubic yards of ¾" minus crushed rock for road stabilization and 140 cubic yard cobble/rip rap for armoring at crossing at locations specified by the Timber Sale Officer.
20	17P	Prior to hauling on JDSF Road 700, the PURCHASER shall provide, install, anchor, and maintain temporary speed humps at 4 locations approved by the Timber Sale Officer.
20	17Q	Numerous research plots exist throughout the plan area. Use reasonable effort to avoid damaging the plastic PVC center post. If knocked down or damaged, do not attempt to reestablish it. Nails with identification tags that are affixed to trees near breast height shall be removed and affixed into the stump of that same tree prior to felling.
20	17R	provide and post the following traffic warning signs along Road 700 at locations specified by the Timber Sale Officer, within the timeframe specified by the Timber Sale Officer. All signs shall be retained by the STATE upon completion of this Agreement. 1) Four 15 mile per hour speed limit signs. The signs shall be standard aluminum road signs at least 18" X12" with black lettering on a white background. 2) Two signs with the text "Speed Bumps Ahead" The signs shall be standard aluminum road signs at least 18" X12" with black lettering on a white background 3) Two road signs advising of logging activity with the text "CAUTION, LOG TRUCK TRAFFIC". The signs shall be highly visible, at least 11" x 22" or as otherwise approved by the Timber Sale Officer.

21	20	In addition to required fire tools complement, have available to the sale area for fire suppression purposes a “Park wagon” or similar self-propelled vehicle of at least 1,000 gallon capacity.
33	1	A deposit of $42,000 must be submitted with the bid.
34	3	Furnish STATE copies of Timber Yield Tax calculations and reporting forms.
48	4	Performance security of $93,000 required prior to contract approval.

RAILROAD GULCH THP FLAGGING CODE

/ = Striped ● = Polka dot ■ = Checkered

DESIGNATED ACTIVITY	FLAGGING COLOR
Proposed Road- grade & centerline	solid orange Site-Mark® "TRUCK ROAD" in black lettering
Timber harvesting boundary	pink-glo Site-Mark® “TIMBER HARVEST BOUNDARY” in black lettering
Class II watercourse (Centerline)	blue/white stripe
Wet Area/Spring (Centerline)	blue/white stripe
Class I/Class II/Spring/Wet Area WLPZ	blue/white stripe Site-Mark® "LAKE AND WATERCOURSE PROTECTION ZONE" in black lettering
Class III watercourse (centerline)	blue●white polka-dot
Tractor/Cable boundary	red/white stripe
Tractor road (skid trail)	solid yellow Site-Mark® "Skidtrail” in black lettering
Message flag	pink/black stripe & yellow (combination)
Equipment Limitation Zone (ELZ) & Equipment Exclusion Zone (EEZ)	solid red & solid white (combination)
Group Opening Perimeter	black/red stripe
Silviculture Boundary	Orange/White Checkered
Map Point	solid white & solid orange (combination)
Research Plot	Solid purple

Quick Reference Timeline