

# P R O S P E C T U S

## Lump Sum Sale

BUTTE FALLS RESOURCE AREA  
JACKSON MASTER UNIT

Medford Sale # ORM05- TS14-09  
August 28, 2014 (TG)

# 4 MOUSE TRAIL (5900) Jackson County, O&C

BID DEPOSIT REQUIRED: \$ 21,100.00

All timber designated for cutting in Govt. Lot 8, SE $\frac{1}{4}$ , Sec.19, NE $\frac{1}{4}$ , NW $\frac{1}{4}$ , N $\frac{1}{2}$ SW $\frac{1}{4}$ , SE $\frac{1}{4}$ SW $\frac{1}{4}$ , NE $\frac{1}{4}$ SE $\frac{1}{4}$ , W $\frac{1}{2}$ SE $\frac{1}{4}$ , Sec. 21, NE $\frac{1}{4}$ NW $\frac{1}{4}$ , S $\frac{1}{2}$ NW $\frac{1}{4}$ , NE $\frac{1}{4}$ SW $\frac{1}{4}$ , Sec. 27, NW $\frac{1}{4}$ NE $\frac{1}{4}$ , Sec. 28, NE $\frac{1}{4}$ , E $\frac{1}{2}$ NW $\frac{1}{4}$ , SW $\frac{1}{4}$ NW $\frac{1}{4}$ , NW $\frac{1}{4}$ SW $\frac{1}{4}$ , SE $\frac{1}{4}$ , Sec. 29, Govt. Lot 3, 4 Sec. 30, Govt. Lot 1, S $\frac{1}{2}$ SE $\frac{1}{4}$ , Sec. 31, N $\frac{1}{2}$ NW $\frac{1}{4}$ , SW $\frac{1}{4}$ NW $\frac{1}{4}$ , N $\frac{1}{2}$ SE $\frac{1}{4}$ , SW $\frac{1}{4}$ SE $\frac{1}{4}$ , Sec. 33, S $\frac{1}{2}$ NW $\frac{1}{4}$ , Sec. 34, T.32S., R.1W., SE $\frac{1}{4}$ NE $\frac{1}{4}$ , NE $\frac{1}{4}$ SE $\frac{1}{4}$ , Sec. 33, T.32S., R.2W., Govt. Lot 3, 4, E $\frac{1}{2}$ SW $\frac{1}{4}$ , SE $\frac{1}{4}$ , Sec.7, W $\frac{1}{2}$ NW $\frac{1}{4}$ , SE $\frac{1}{4}$ NW $\frac{1}{4}$ , NW $\frac{1}{4}$ SE $\frac{1}{4}$ , Sec. 9, Govt. Lot 2, SE $\frac{1}{4}$ NW $\frac{1}{4}$ , Sec. 10, S $\frac{1}{2}$ SE $\frac{1}{4}$ , Sec. 31 T.33S., R.1W., Govt. Lot 1, 2, S $\frac{1}{2}$ NE $\frac{1}{4}$ , SW $\frac{1}{4}$ NW $\frac{1}{4}$ , Sec. 3, SE $\frac{1}{4}$ NE $\frac{1}{4}$ , SE $\frac{1}{4}$ , Sec. 23, SE $\frac{1}{4}$ SW $\frac{1}{4}$ , Sec. 25, T.33S., R.2W., SW $\frac{1}{4}$ NE $\frac{1}{4}$ , SE $\frac{1}{4}$ NW $\frac{1}{4}$ , NE $\frac{1}{4}$ SW $\frac{1}{4}$ , NW $\frac{1}{4}$ SE $\frac{1}{4}$ , Sec. 1, T.34S., R.2W., Willamette Meridian.

Approx. Number Merch. Trees	Est. Volume MBF 32' Log	Species	Est. Volume MBF 16' Log	Appr. Price Per MBF*	Est. Volume Times Appraised Price
12,672	1,958	Douglas-fir	2,398	\$75.80	\$181,768.40
1,357	51	Incense-cedar	63	\$42.40	\$2,671.20
442	40	Ponderosa pine	52	\$33.50	\$1,742.00
66	15	Sugar pine	19	\$34.60	\$657.40
3,427	438	White fir	554	\$41.20	\$22,824.80
180	17	Western Hemlock	24	\$36.60	\$878.40
18,144	2,519	<b>Totals</b>	3,110		\$210,542.20

\*Stumpage values have been determined by market value estimates and analytical appraisal methods were used to compute the appraised price. Additional information concerning the appraised price is available at the Medford District Office.

\*\*Minimum stumpage values were used to compute the appraised price (10% of pond value).

CRUISE INFORMATION - Maps showing the location and description of 3P sample trees are available at the Medford District Office.

The sampling method for DF, WF, IC, WH, and PP was 3P sampling in all units.

With respect to merchantable trees of all conifer species: the average tree is 13.9 inches DBHOB; the average gross merchantable log contains 55 bd. ft.; the total gross volume is approximately 3537 M bd. ft; and 88% recovery is expected (Average DF is 14.0 inches DBHOB; average gross merchantable DF log contains 57 bd. ft.).

Bidders will be restricted to bidding on a unit (MBF) rate of the Douglas-fir volume. All other species will be sold at appraised price per unit (MBF). The minimum bid increment will be \$0.10 per MBF.

LOG EXPORT AND SUBSTITUTION RESTRICTIONS - All timber sold to the Purchaser under the terms of the contract, except exempted species, is restricted from export from the United States in the form of unprocessed timber and is prohibited from use as a substitute for exported private timber.

The BLM has revised the log export restrictions special provision to reduce the log branding and painting requirements. The new requirements include branding of one end of all logs with a scaling diameter of over 10 inches. All loads of 11 logs or more, regardless of the diameter of the logs, will have a minimum of 10 logs

branded on one end. All logs will be branded on loads of 10 logs or less. One end of all branded logs will be marked with yellow paint. At the discretion of the Contracting Officer, the Purchaser may be required to brand and paint all logs. The Purchaser shall bear any increased costs for log branding and painting.

CUTTING AREA – Fifty-two (52) units containing four hundred and seventy-seven (477) acres must be thinned, and four (4) right of way acres must be clear-cut for temporary road and helicopter landing construction.

CUTTING TIME - Contract duration will be thirty-six (36) months for cutting and removal of timber.

ACCESS - Access to the sale area is available via public roads, via existing BLM roads; via Right-of-Way and Road Use Agreement M-660 with Tristar Southwest Oregon Timberland, LLC; via Right-of-Way and Road Use Agreement M-2000E with Indian Hill, LLC; via Right-of-Way and Road Use Agreement M-768 with Lone Rock Timber Company; via Memorandum of Understanding between the BLM and the Oregon Department of Forestry and License Agreement LA-526 with the Oregon Department of Forestry; and via license agreement #836 with the Forest Service. Among other conditions, agreement M-660 with Tristar Southwest Oregon Timberland, LLC requires completion of a license agreement between the Purchaser and Tristar Southwest Oregon Timberland, LLC and road maintenance to be performed by the Purchaser. Among other conditions, agreement M-2000E with Indian Hill, LLC requires completion of a license agreement between the Purchaser and Indian Hill, LLC and road maintenance to be performed by the Purchaser. Among other conditions, agreement M-768 with Lone Rock Timber Company requires a license agreement between the Purchaser and Lone Rock Timber Company for the potential use of two helicopter landings on Lone Rock Timber Company controlled roads. Among other conditions, the Memorandum of Understanding and License Agreement LA-526 with the Oregon Department of Forestry requires completion of a license agreement between the Purchaser and the Oregon Department of Forestry and road maintenance to be performed by the Purchaser. Among other conditions, agreement #836 with the Forest Service requires completion of a license agreement between the Purchaser and the Forest Service and payment of a road maintenance fee of \$0.37 per thousand board feet log scale per mile, for the use of the FS1632A-D, FS1632G-H, FS1632-112, FS1632-118, FS3200, and FS3232-945 roads and a Special Use Permit (\$224.00) for the use of one helicopter landings from the Umpqua National Forest.

ROAD MAINTENANCE - The Purchaser will be required to maintain approximately 25.58 miles of existing BLM, Forest Service, Oregon Department of Forestry, and private control roads as described in Section 42, RC-2a (C)(5). The BLM will maintain approximately 31.26 miles of existing BLM and private roads as described in Section 42, RC-2 (C)(4). For Purchaser maintained roads, the Purchaser shall pay a rockwear fee of \$0.49/Mbf/Mile for all BLM, Oregon Department of Forestry, and privately controlled aggregate surface roads and the Purchaser shall pay a rockwear fee of \$0.37/Mbf/Mile for all Forest Service controlled aggregate surface roads. For BLM maintained roads, the Purchaser shall pay a rockwear and road maintenance fee of \$1.25/Mbf/Mile for allocated roads or \$1.46/Mbf/Mile for non-allocated roads for all aggregate surface roads. There is also an added allotment of \$15,341.60 for close out road maintenance requirements (Exhibit D).

SOIL DAMAGE PREVENTION - Pursuant to Section 26 of Form 5450-3, Timber Sale Contract, the Purchaser shall not operate or cause to have operated on the contract area any tractor-type logging equipment when soil moisture content at six (6) inch depth exceeds twenty five (25) percent by weight as determined by the oven dry method.

EQUIPMENT REQUIREMENTS - - A yarding tractor not greater than 9 feet in track width equipped with a integral arch and winch system capable of lining logs at least 75 feet. A tractor equipped with winged-toothed rippers. A skyline yarder capable of one end suspension of logs during in-haul and with a minimum lateral yarding capability of 75 feet while maintaining a fixed position of the carriage during lateral in-haul. A helicopter equipped with a dropline with a minimum length of 150 feet and capable of lifting logs vertically to a height above adjacent trees without horizontal movement.

SLASH DISPOSAL - Perform logging residue reduction and site preparation work on approximately one hundred (150) acres of harvest area as directed by the Authorized Officer.

CONTRACT TERMINATION - A revised Special Provision has been added to the contract which enables the Contracting Officer to suspend the contract to facilitate protection of certain plant or animal species, and /or to modify or terminate the contract when necessary to:

1. Comply with the Endangered Species Act, or;
2. Comply with a court order, or;
3. Protect occupied marbled murrelet sites in accordance with the Standards and Guidelines of the Medford District Record of Decision (ROD) and Resource Management Plan (RMP), or;
4. Protect species which were identified for protection through survey and manage and/or

protection buffer standards and guidelines established in the ROD and RMP.

This contract provision limits the liability of the Government to the actual costs incurred by the Purchaser which have not been amortized by timber removed from the contract area.

**PERFORMANCE BOND** - A performance bond in the amount of 20% of the total purchase price will be required.

**OTHER** –

1. No extension of time beyond the normal 30 days will be granted for completing bonding and contract signing requirements.
2. Various seasonal restrictions are placed on this sale.
3. There are log length restrictions within some units (see section 42 Special Provisions).
4. Directional falling is required.
5. Cleaning of equipment to eliminate noxious weed seeds is required prior to move-in of equipment onto federal lands.
6. Designated skid roads are required on all tractor units.
7. Ripping of all newly constructed temporary spur roads and helicopter landings is required.
8. Dust abatement is required.
9. Purchaser should be aware that logging residue reduction costs listed under SD-5 are in addition to costs assessed under SD-4. Refer to the appraisal for total assessed costs of logging residue reduction.
10. Purchaser will need to protect and not disturb the buried utility lines along road 32-1-33.1

**NARRATIVE DESCRIPTION OF HOW TO GET TO THE TIMBER SALE AREA** – From the town of Shady Cove, Proceed north on highway 62 approximately 3 miles to the junction of Highways 62 and 227. Turn left onto Highway 227 and proceed north for approximately 3 miles to West Fork Trail Creek Road.

**West Fork Trail Creek sale area:**

Turn left onto West Fork Trail Creek Road at Highway 62 and West Fork Trail Creek. Road Junction and proceed for approximately 1 mile to BLM 33-1-29-1. Turn left onto the 29-1 road to access the Cabin Canyon Units, Or continue west on West Fork Trail Creek Road for an additional 6 miles to section 3 sale area.

**Trail Creek sale area:**

From the junction of West Fork Trail Creek Road and highway 227 proceed north on 227 for approximately 4 miles to the junction of highway 227 and East Fork Trail Creek Road:

1. Eastside sale area - Follow East Fork Trail Creek Road into sale area.
2. Westside sale area - Continue north on highway 227 into the sale area.

**ENVIRONMENTAL ASSESSMENT** - An environmental assessment (DOI-BLM-OR-M050-2013-0004-EA) was prepared for this sale, and a Finding of No Significant Impact has been documented. Harvest unit 33-4 was analyzed under the environmental assessment (DOI-BLM-OR-M050-2010-0019-EA) and a finding of no significant impact has been documented. These documents are available for inspection as background for this sale at the Medford District Office.



# Seasonal Restriction Matrix

Sheet 1 of 2

Mouse Trail Timber sale

ORM05-TS14-09

 \*Possible Waived Times are Hatched

 \*Restricted Times are Shaded

Sale Area	Activity	Jan		Feb		Mar		Apr		May		June		July		Aug		Sept		Oct		Nov		Dec	
		1	15	1	15	1	15	1	15	1	15	1	15	1	15	1	15	1	15	1	15	1	15	1	15
<b>Units 9-5, 21-6, 21-10, 33-5</b>	Harvest activities <sup>1,3</sup>																								
	Heavy equipment operation, <sup>1,3</sup>																								
	Helicopter operation <sup>1,3</sup>																								
	Blasting, quarry activities <sup>1,3</sup>																								
	Log hauling, rock hauling <sup>1,2,3</sup>																								
	Road grading, <sup>1,3</sup>																								
	Roadside brushing, <sup>1,3</sup>																								
	Fuels site prep with chainsaws <sup>1,3</sup>																								
	Prescribed burning <sup>3</sup>																								
<b>Units: 1-1, 25-3</b>	Harvest activities <sup>1,4</sup>																								
	Chainsaw use <sup>1,4</sup>																								
	Heavy equipment operation <sup>1,4</sup>																								
	Helicopter operation <sup>1,4</sup>																								
	Blasting, quarry activities <sup>1,4</sup>																								
	Log hauling, rock hauling <sup>1,2,4</sup>																								
	Road grading, <sup>1,4</sup>																								
	roadside brushing <sup>1,4</sup>																								
	Fuels treatment																								
<b>Units: All other units</b>	Timber Falling and Bucking <sup>1</sup>																								
	Helicopter logging, <sup>1</sup>																								
	Log processing, Log loading <sup>1</sup>																								
	Tractor yarding <sup>1</sup>																								
	Log hauling, rock hauling <sup>1,2</sup>																								
	Road grading <sup>1</sup>																								
	Road side brushing <sup>1</sup>																								
	Fuels treatment																								

<sup>1</sup> Wet season restrictions may be shortened or extended depending on weather conditions.

<sup>2</sup> Hauling restriction may be shortened or extended depending on adequacy of road surfacing

<sup>3</sup> Spotted Owl seasonal restrictions from March 1 through September 30 may be shortened if it is determined that spotted owl nesting and/or fledgling activities are not occurring in the area.

<sup>4</sup> Raptor seasonal restrictions from March 1 through July 15 may be waived if surveys determine Great Gray owls are not nesting in the area

# Seasonal Restriction Matrix continued

Sheet 2 of 2

Musty Evans Timber sale

ORM05-TS14-09

 \*Possible Waived Times are Hatched

 \*Restricted Times are Shaded

Sale Area	Activity	Jan		Feb		Mar		Apr		May		June		July		Aug		Sept		Oct		Nov		Dec	
		1	15	1	15	1	15	1	15	1	15	1	15	1	15	1	15	1	15	1	15	1	15	1	15
<b>Skid Trails, Roads Landings and rock quarries :</b>	Construction <sup>1</sup>																								
	Reconstruction <sup>1</sup>																								
	Renovation <sup>1</sup>																								
	Decommissioning <sup>1</sup>																								
	Culvert removal and/or replacement <sup>1</sup>																								
	Quarry activities <sup>1</sup>																								
	Soil ripping <sup>1</sup>																								

<sup>1</sup> Wet season restrictions may be shortened or extended depending on weather conditions.

<sup>2</sup> Hauling restriction may be shortened or extended depending on adequacy of road surfacing

<sup>3</sup> Spotted Owl seasonal restrictions from March 1 through September 30 may be shortened if it is determined that spotted owl nesting and/or fledgling activities are not occurring in the area.

<sup>4</sup> Raptor seasonal restrictions from January 1 through July 15 may be waived if surveys determine that raptors are not nesting in the area

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THIS IS A SALE PROSPECTUS ONLY. THESE ARE THE SPECIAL PROVISIONS AS THEY WILL BE WRITTEN IN THE CONTRACT. ATTACHMENTS MAY NOT INCLUDE ALL EXHIBITS REFERRED TO IN THE CONTRACT PROVISIONS. THE COMPLETE CONTRACT, INCLUDING ALL EXHIBITS, IS AVAILABLE FOR INSPECTION AT THE MEDFORD INTERAGENCY OFFICE.

Sec. 41. TIMBER RESERVED FROM CUTTING - The following timber on the contract area is hereby reserved from cutting and removal under the terms of this contract and is retained as the property of Government.

- (A) AR-1 All timber on the Reserve Area(s) as shown on Exhibit A and all orange painted and posted trees which are on or mark the boundaries of the Reserve Area(s).
- (B) IR-1 Approximately seventeen thousand eighty-one (17,081) trees marked with yellow paint in units 19-2, 19-3, 19-10, 19-4, 19-5, 19-6, 19-9, 19-7, 21-1, 21-2, 21-6, 29-1, 29-2, 29-3, 29-4, 29-5, 29-7, 29-8, 29-9, 29-10, 31-10, 33-1, 33-5, 7-1, 7-2, 7-3, 7-4, 9-3, 9-4, 9-5, 10-5, 31-1S, 23-1, 25-3, and 1-1, as shown on exhibit A.
- (C) IR-2 All timber except approximately three thousand six hundred and seventy (3670) trees marked for cutting heretofore by the Government with blue paint above and below stump height in units 21-3, 21-4, 21-5, 21-8, 21-9, 21-10, 27-1, 28-1, 30-2, 30-3, 33-3, 34-2, 33-4, 3-1w, 3-2w, 3-4w, and 3-10w as shown on Exhibit A.
- (D) IR-5 All young growth conifers less than eight (8) inches in diameter D.B.H.O.B. not damaged in the normal course of logging in all units as shown on Exhibit A.
- (E) IR-6 All hardwood and Yew trees in all units as shown on Exhibit A.
- (F) IR-6 All non-hazardous snags in all units as shown on Exhibit A. Any felled hazard snags must remain where felled or as directed by the authorized officer.
- (G) IR-6 All pre-existing dead and down wood in all units as shown on Exhibit A
- (H) IR-8 All standing timber except trees located within painted and posted road or landing right-of-way clearing limit boundaries as shown on Exhibit A.

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Section 42

(A) Log Exports

- (1) LE-1 All timber sold to the Purchaser under the terms of the contract, except exempted species, is restricted from export from the United States in the form of unprocessed timber, and is prohibited from being used as a substitute for exported private timber. For the purpose of this contract, unprocessed timber is defined as: (1) any logs except those of utility grade or below, such as sawlogs, peeler logs and pulp logs; (2) cants or squares to be subsequently remanufactured exceeding eight and three-quarters (8¾) inches in thickness; (3) split or round bolts or other roundwood not processed to standards and specifications suitable for end-product uses; or (4) western red cedar lumber which does not meet lumber of American Lumber Standards Grades of Number 3 dimension or better, or Pacific Lumber Inspection Bureau R-List Grades of Number 3 Common or better. Thus, timber manufactured into the following will be considered processed: (1) lumber and construction timber, regardless of size, manufactured to standards and specifications suitable for end-product uses; (2) chips, pulp, and pulp products; (3) green or dry veneer and plywood; (4) poles and piling cut or treated for use as such; (5) cants, squares, and lumber cut for remanufacturing of eight and three-quarters (8¾) inches in thickness or less; (6) shakes and shingles.

Substitution will be determined under the definition found in 43 CFR 5400.0-5(n).

The Purchaser is required to maintain and upon request to furnish the following information:

- (a) Date of last export sale.
- (b) Volume of timber contained in last export sale.
- (c) Volume of timber exported in the past twelve (12) months from the date of last export sale.
- (d) Volume of Federal timber purchased in the past twelve (12) months from the date of last export sale.
- (e) Volume of timber exported in succeeding twelve (12) months from date of last export sale.
- (f) Volume of Federal timber purchased in succeeding twelve (12) months from date of last export sale.

In the event the Purchaser elects to sell any or all of the timber sold under this contract in the form of unprocessed timber, the Purchaser shall require each party buying, exchanging, or receiving such timber to execute a Form 5460-16

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(Certificate as to Nonsubstitution and the Domestic Processing of Timber). The original of such certification shall be filed with the Authorized Officer. Additionally, when the other party is an affiliate of the Purchaser, the Purchaser will be required to update information under item (2) of Form 5450-17 (Export Determination) and file the form with the Authorized Officer.

In the event an affiliate of the Purchaser has exported private timber within twelve (12) months prior to purchasing or otherwise acquiring Federal timber sold under this contract, the Purchaser shall, upon request, obtain from the affiliate information in a form specified by the Authorized Officer and furnish the information to the Authorized Officer.

Prior to the termination of this contract, the Purchaser shall submit to the Authorized Officer Form 5460-15 (Log Scale and Disposition of Timber Removed Report) which shall be executed by the Purchaser. In addition, the Purchaser is required under the terms of this contract to retain for a three-year period from the date of termination of the contract the records of all sales or transfer of logs involving timber from the sale for inspection and use of the Bureau of Land Management.

Unless otherwise authorized in writing by the Contracting Officer, the Purchaser shall brand clearly and legibly one end of all logs with a scaling diameter (small end inside bark) of over 10 inches, prior to the removal of timber from the contract area. All loads of 11 logs or more will have a minimum of 10 logs clearly and legibly branded on one end regardless of the diameter of the logs. All logs will be branded on loads of 10 logs or less. One end of all branded logs to be processed domestically will be marked with a 3 square inch spot of highway yellow paint. The purchaser will stop trucks for accountability monitoring at mutually agreed upon locations when notified by the Authorized Officer.

If multiple trailers (mule trains) are used, each bunked load shall be considered an individual load, and these guidelines will apply to each bunked load. If a flatbed stake trailer is used, each bundle will be treated as a separate load.

At the discretion of the Contracting Officer, the Purchaser may be required to brand and paint all logs. Any increased costs for log branding and painting shall be the responsibility of the Purchaser.

In the event of the Purchaser's noncompliance with this subsection of the contract, the Authorized Officer may take appropriate action as set forth in Section 10 of this contract. In addition, the Purchaser may be declared ineligible to receive future awards of Government timber for a period of one year.

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(B) Logging

- (1) L-1 Before beginning operations on the contract area for the first time or after a shutdown of seven (7) days or more, the Purchaser shall notify the Authorized Officer in writing of the date they plan to begin operations. The Purchaser shall also notify the Authorized Officer in writing if they intend to cease operations for any period of seven (7) or more days.
- (2) L-6 In all tractor units as shown on Exhibit A, all trees twenty one (21) inches D.B.H.O.B. and smaller designated for cutting shall be felled and yarded to approved landing locations either whole tree, or as log segments. If excessive stand damage occurs from whole tree yarding as determined by the authorized officer, bucking and/or limbing will be required.
- (3) L-6 In all tractor units as shown on Exhibit A, all trees over twenty one (21) inch D.B.H.O.B. designated for cutting shall be felled and cut into log lengths not to exceed forty-four (44) feet and be completely limbed prior to being yarded
- (3) L-6 In all skyline units as shown on Exhibit A, all trees designated for cutting shall be felled and cut into log lengths not to exceed forty-four (44) feet and be completely limbed prior to being yarded.
- (5) L-6 In all helicopter units as shown on Exhibit A, all trees designated for cutting shall be felled and yarded to approved landing locations either whole tree, or as log segments. If excessive stand damage occurs from whole tree yarding as determined by the authorized officer, bucking and/or limbing will be required.
- (6) L-7MC Yarding on the areas designated herein and shown on Exhibit A shall be done in accordance with the yarding requirements or limitations for the designated area.

Designated Area	Yarding Requirements or Limitations
Tractor Units 1-1, 19-2, 19-10 19-4, 19-5, 21-1 25-3, 29-1, 29-10 29-2, 29-3, 29-4, 29-5, 29-8, 29-9 3-2W, 30-3, 31-10, 31-1S, 33-1, 33-5 7-1, 7-3, 9-3, 9-4 9-5, 23-1,	<p>Yarding tractor width will not be greater than twelve (12) feet as measured from the outer edges of the standard width dozer blade in the straight position, or nine (9) feet as measured from the outer edges of standard width track shoes.</p> <p>Yarding tractors will be equipped with integral arches and winch systems capable of lining logs at least seventy five (75) feet.</p> <p>Wherever trees are cut to be removed, directionally fell trees away from dry draws and irrigation ditches. Fell trees toward skid trails. Protect irrigation ditches in the project area from damage and keep free of activity slash.</p>

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	<p>Ground-based equipment operations may be executed in winter conditions when snow depth is at least 18 inches if approved by the Authorized Officer. No logging would be allowed once the snow depth deteriorates below eighteen (18) inches as determined by the authorized officer.</p> <p>No mechanized equipment is allowed in riparian areas; all logs felled for riparian thinning purposes within riparian reserves will be cable winched to adjacent matrix land or existing roads. Trees felled for safety or operational reasons would be left in place.</p> <p>No front-end loaders are permitted.</p> <p>No yarding up or down draw bottoms is permitted.</p> <p>Restrict tractor and mechanical operations to slopes generally less than 35%. In areas where it is necessary to exceed these gradients to access adjacent tractor area, use ridge tops where possible.</p> <p>The use of ground based equipment on unstable areas within units is not permitted.</p> <p>Mechanized felling equipment must have an arm capable of reaching at least 20 feet.</p> <p>No tractor yarding is permitted when soil moisture content at six (6) inch depth exceeds twenty five (25) percent by weight as determined by the oven dry method. Yarding and mechanical harvesting will be further limited in accordance with Section 25 if detrimental soil damage is occurring, as determined by the authorized officer.</p> <p>Designate skid trails at an average of one hundred and fifty (150) foot spacing in order to minimize ground disturbance. The location of the tractor skid roads must be clearly designated on the ground, at locations approved by the Authorized Officer.</p> <p>Mechanized equipment capable of creating and walking on slash (such as a cut-to-length system) will be allowed to work off designated skid trails for one or two passes on at least 8 inches of slash and under dry soil conditions (less than 25% soil moisture content). Equipment must be 8 psi or less. Limit skid trails to a minimum of 50-foot spacing off designated skid trails. All other use of ground-based equipment will be restricted to</p>
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	<p>designated skid trails. This provision is designed to restrict the amount of compacted soil to less than 12% in a timber harvest unit,</p> <p>Mechanized equipment (feller buncher systems) will be allowed to work off designated skid trails during the dry season (soil moisture content less than 20%) for 1 or 2 passes only (one round-trip). These 1 to 2 pass trails must be spaced a minimum of 50 feet apart off of designated skid trails. Equipment must be 8 psi or less. All other use of ground-based equipment will be restricted to designated skid trails.</p> <p>When operationally feasible, yard all units in such a way that the coarse woody material remaining after logging will be maintained at or greater than current levels in order to protect the soil surface (riparian reserve areas only).</p> <p>Where skid trails encounter course woody debris (CWD) sixteen (16) inches and larger at the small end, a section of the CWD is to be bucked out for equipment access. The bucked out portion shall be as narrow as operationally feasible, (maximum of fourteen (14) feet). The remainder of the CWD shall be left in place and not disturbed.</p> <p>Log landing size shall not exceed one-quarter (1/4) acre.</p>
<p>Skyline Units 21-2, 10-5, 19-3, 19-7, 19-9 21-6 21-9, 28-1, 29-7, 7-2, 7-4</p>	<p>Yarding will be done with a cable yarding system which will suspend one end of the log clear of the ground during inhaul on the yarding corridor.</p> <p>A carriage which will maintain a fixed position on the skyline during lateral yarding and has a minimum lateral yarding capability of seventy-five (75) feet is required.</p> <p>Prior to marking or falling any timber in the unit, all yarding corridors, tail/lift trees and/or intermediate support trees shall be identified by the purchaser and approved by the authorized officer.</p> <p>Wherever trees are cut to be removed, directionally fell trees away from dry draws and irrigation ditches. Fell trees toward skid trails. Protect irrigation ditches in the project area from damage and keep free of activity slash.</p> <p>Existing cable corridors shall be used whenever possible. Corridors shall be spaced approximately one hundred fifty (150) feet apart, measured at the tailholds.</p>

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	<p>The width of the skyline corridors shall be as narrow as operationally feasible. The maximum width within Riparian reserves will be twelve [12] feet, and outside riparian reserves the maximum width will be fifteen [15] feet</p> <p>When yarding within riparian reserves maintain a maximum clearing width of 12 feet for cable corridors across no treatment areas. Space corridors a minimum of 150 feet apart. Require full suspension for any logs yarded through the no treatment areas.</p> <p>When operationally feasible, yard all units in such a way that the coarse woody material remaining after logging will be maintained at or greater than current levels in order to protect the soil surface (riparian reserve areas only).</p> <p>Apply native seed and certified weed-free straw mulch to the top 20 feet of the skyline-cable yarding corridor where yarding logs to the road results in extended soil exposure.</p> <p>No downhill yarding is allowed</p>
<p>Helicopter Units</p> <p>21-4, 19-6, 21-10 21-3, 21-4, 21-5 21-8, 27-1, 3-10W 3-1W, 3-4W, 30-2 33-3, 34-2, 33-4</p>	<p>All yarding will be done with an aerial system.</p> <p>Service landing pads and log landing pads can be constructed with prior approval of the Contract Administrator and shall not be larger than necessary.</p> <p>Landing size shall not exceed one (1) acre and all landings are to be approved by the Authorized Officer prior to construction.</p> <p>A dropline with a minimum length of one hundred fifty (150) feet is required.</p> <p>Logs to be yarded will be lifted vertically to a height above the adjacent leave trees without horizontal movement.</p> <p>When operationally feasible, yard all units in such a way that the coarse woody material remaining after logging will be maintained at or greater than current levels in order to protect the soil surface (riparian reserve areas only).</p> <p>Wherever trees are cut to be removed, directionally fell trees away from dry draws and irrigation ditches. Fell trees toward skid trails.</p>

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	<p>Protect irrigation ditches in the project area from damage and keep free of activity slash.</p> <p>All multiple log turns will be vertically lifted from a small enough radius to result in minimal damage to the residual forest stand as determined by the Authorized Officer.</p> <p>The purchaser may negotiate, in good faith, with adjacent landowners to build/use helicopter landings on private land.</p> <p>All aerial operations within 0.5 miles of any residence will be restricted to an operating time of 6:00 am to 6:00 pm Monday thru Friday.</p>
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- (7) L-9 No yarding or loading is permitted in or through plant sites, mollusk sites, or protected sites, shown on Exhibit A.
- (8) L-9 Restrict yarding through interior reserve areas (skips) where feasible. If an existing skid trail is within the skip, it may be used if it is determined that it will not cause damage to the resources in the skip. No yarding is allowed through buffered plant sites and wildlife areas.
- (9) L-11 No temporary spur roads, or new landings, shall be located within riparian reserves, wet areas, or 100 acre northern spotted owl activity centers as shown on Exhibit A. Landing or temporary route construction will be located away from unstable soil conditions and headwalls.
- (10) L-18 No tractor yarding operations shall be conducted between October 15 of one calendar year and May 15 of the following calendar year both days inclusive unless soil moisture is less than 25 percent when sampled at a 6 inch depth as determined by Authorized Officer.
- (11) L-18 Restrict soil ripping operations from October 15 of one calendar year and May 15 of the following calendar year both days inclusive or when soil moisture exceeds 25 percent; unless approved by the Authorized Officer.
- (12) L-18 Restrict all timber hauling, rock hauling, and landing operations, on all natural surfaced or rocked roads whenever soil moisture conditions or rain events could result in road damage or the transport of sediment to nearby stream channels (generally October 15 of one calendar year to May 15 of the following calendar year, both days inclusive). If the Authorized Officer determines that hauling would not result in road damage or the transport of sediment to nearby stream channels based on soil moisture conditions or rain events, the Contracting Officer may approve a conditional waiver for hauling. If soil moisture conditions

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or rain events are anticipated to cause unacceptable impacts to roads or stream water quality, as determined by the Authorized Officer, the waiver will be revoked.

- (13) L-18 No road construction, landing construction, road re-construction or renovation, culvert removal culvert replacement, road decommissioning, or road closure work, shall be conducted within the contract area between October 15 of one calendar year and May 15 of the following calendar year, both days inclusive.
- (14) L-18 No quarry work, and/or rock crushing operations whenever soil moisture conditions or rainstorms could cause the transport of sediment resulting from quarry operations to nearby streams (generally October 15 to May 15).
- (15) L-18a No harvest activities, heavy equipment operation, log hauling, rock hauling, roadside brushing, helicopter operations or blasting and/or quarry activities shall be conducted in units 9-5, 21-6, 21-10, 33-5, between March 1 and September 30, both days inclusive. This restriction will not apply if it can be shown from spotted owl surveys conducted in accordance with accepted standards that spotted owl nesting and/or fledgling activities are not occurring during the year of harvest.
- (16) L-18a No site preparation with chainsaws shall be conducted in units 9-5, 21-6, 21-10, 33-5, between March 1 and June 30, both days inclusive. This restriction will not apply if it can be shown from spotted owl surveys conducted in accordance with accepted standards that spotted owl nesting and/or fledgling activities are not occurring during the year of harvest.
- (17) L-18a No prescribed burning shall be conducted in units 9-5, 21-6, 21-10, 33-5, between March 1 and July 15, both days inclusive. This restriction will not apply if it can be shown from spotted owl surveys conducted in accordance with accepted standards that spotted owl nesting and/or fledgling activities are not occurring during the year of harvest.
- (18) L-18a No harvest activities, chainsaw use, heavy equipment operation, log hauling, rock hauling, roadside brushing, helicopter operations or blasting and/or quarry activities shall be conducted in units 1-1, and 25-3, between January 1 and July 15, both days inclusive. This restriction may be waived from May 1 to July 15 both days inclusive if it can be shown from raptor surveys conducted in accordance with accepted standards that raptor nesting and/or fledgling activities are not occurring during the year of harvest.
- (19) L-18a No harvest activities, heavy equipment operation, roadside brushing, or helicopter operations shall be conducted in units 1-1 within the elk winter range area between November 15 and April 1, both days inclusive.

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- (20) L-20 During logging operations, the operator shall keep the USFS 32 Rd (Wildcat Ridge Rd), 32 -1-19.0, 32-1-33.1, 32-1-29.2, 32-1-33.2, 33-1-8.0, 33-1-29.0, 33-2-13.1, 33-2-33.7, 34-2-1.0 roads, where they pass through the contract area, clear of trees, rock, dirt, and other debris (so far as practicable) to allow for vehicle traffic. These roads shall not be blocked for more than twenty (20) minutes. In addition, to these requirements, these roads shall have warning signs displayed a minimum of 300 feet in advance of the logging operation along all roads which pass through the logging operation. Warning Signs must be worded to describe the hazard, type of operation, or action to be taken which will alert oncoming traffic to the logging operation and/or dangers ahead. Warning sign size, color, and shape must comply with OR-OSHA applicable rules and guidelines.
- (21) L-24 Prior to the commencement of operations, the Purchaser shall obtain from the Authorized Officer written approval of a written operations and logging plan commensurate with the terms and conditions of the contract which shall include measures needed to assure protection of the environment and watershed. A pre-work conference between the Purchaser's authorized representative and the Authorized Officer's representative must be held at a location designated by the Authorized Officer before the logging plan will be approved. All logging shall be done in accordance with the plan developed by this provision.
- (22) L-26 In the contract area shown on Exhibit A, all trees designated for cutting which are within one hundred seventy (170) feet of the unit boundary shall be felled away from the unit boundary. The Purchaser shall notify the Authorized Officer three (3) days before beginning felling operations in the above area(s).
- (23) L-26 In the contract area shown on Exhibit A, all trees designated for cutting which are within one hundred seventy (170) feet of a private property line shall be felled away from the private property line. The Purchaser shall notify the Authorized Officer three (3) days before beginning felling operations in the above area(s).
- (24) L-26 In the contract area shown on Exhibit A, all trees designated for cutting which are within one hundred seventy (170) feet of the corner monument shall be felled away from the corner monument. The Purchaser shall notify the Authorized Officer three (3) days before beginning felling operations in the above area(s).
- (25) L-26 In the contract area shown on Exhibit A, all trees designated for cutting which are within one hundred seventy (170) feet of any plant site, mollusk site, protected site, or reserve area boundary as shown on Exhibit A shall be felled away from the painted and posted boundary. The Purchaser shall notify the Authorized Officer three (3) days before beginning felling operations in the above area(s).
- (26) L-29 In all skyline units as shown on Exhibit A, the Purchaser shall make cable yarding road changes by completely spooling the cables and restringing the layout

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from the head spar to the new tail hold to protect advance reproduction and/or reserve trees and snags present on these areas.

- (27) L-33 In accordance with the requirements of Sec. 8 of the contract it has been determined that it is in the best interest of the Government and within the provisions of 43 CFR 5402.0-6 to sell additional timber located in or adjacent to all units as shown on Exhibit A, which is obstructing needed cable yarding roads, ground based yarding skid roads, hazardous to workers, needed for guyline, tailhold, and/or tieback trees, or severely damaged from the normal conduct of felling or yarding operations to meet all applicable State safety laws, codes or regulations. This timber must be cut or removed so that the Purchaser can continue active falling and yarding operations. The Purchaser is, therefore, authorized to cut and remove such additional timber in accordance with the provisions of Section 8 of the contract: provided, however, that:
- (a) Trees reserved for the tree improvement program and trees reserved for the wildlife habitat objectives under Sec. 41 of the contract are not included in the authorization.
  - (b) The Purchaser shall identify each tree sold and cut in accordance with the provision by marking the cut surface of the stump immediately after falling with a large "X". The "X" shall be cut with a chain saw. The stump shall be marked by hanging red fluorescent flagging near the stump so that the stump can be visually located from a distance of not less than one hundred (100) feet.
  - (c) The volume and price for such timber shall be determined by the Authorized Officer in accordance with Bureau of Land Management prescribed procedures and paid for by the Purchaser in accordance with Sec. 3(a) or 3(c) of the contract as required by Sec. 8 of the contract.
  - (d) No timber may be cut or removed under the terms of this provision if all contract payments required by Sec. 3(a) or 3(c) of the contract have been made.
  - (e) The permission to cut and remove additional timber contained in this provision may be withdrawn by the Contracting Officer if the Authorized Officer determines that the Purchaser:
    - 1. Failed to properly mark any stump with the "X" cut.
    - 2. Failed to identify the location of any stump.
    - 3. Cut any tree that was reserved for tree improvement and/or wildlife habitat.
    - 4. Cut any tree in or adjacent to cable yarding corridors that was not necessary to facilitate cable yarding.
    - 5. Cut any reserve tree in or adjacent to tractor skid roads that was not necessary to facilitate ground based yarding.

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6. Failed to properly segregate any pulled over tree that was yarded to the landing.
7. Cut any reserve tree that was not severely (as defined during the prework conference and documented in the approved logging plan) damaged from felling and yarding operations.
8. Cut more than the minimum number of trees necessary to properly serve as guyline anchor stumps.
9. Cut or topped more than the minimum number of trees necessary to properly serve as tailhold trees.
10. Cut more than the minimum number of trees necessary to properly serve as tie-backs for topped tailhold trees.
11. Failed to maintain accurate and current (no more than 24 hours old) documentation of cut and removed timber.

If the permission to cut and remove additional timber provision is withdrawn, the Authorized Officer shall deliver to the Purchaser a written notice that additional sale of timber under this special provision is no longer approved.

If the permission to cut and remove additional timber provision is withdrawn, the Purchaser shall inform the Authorized Officer at least two working days prior to the need for cutting and yarding any guyline tree, tailhold tree, tie-back tree, danger tree, corridor tree, pulled over tree, and severely damaged tree. All sales of additional timber shall comply with Section 8 of the contract.

The Contracting Officer may order the Purchaser, in writing, to suspend, delay, or interrupt all or any part of the work of this contract for the period of time that the Contracting Officer determines appropriate for the Government to safely measure and mark additional timber.

All cable-yarding and ground based equipment skid roads upon which timber may be cut and removed in accordance with this special provision must be needed for the removal of timber sold under this contract and shall be limited to the narrowest width necessary for the yarding of logs with minimum damage to reserved trees. The Purchaser shall be liable for damages in accordance with Sec. 13 of the contract for any reserved timber cut or removed in violation of the terms of this special provision.

(C) Road Construction - Maintenance – Use

- (1) RC-1a The Purchaser shall construct, improve and/or renovate all roads and other structures in strict accordance with the plans and specifications shown on Exhibit C, which is attached hereto and made a part hereof.
- (2) RC-1b Prior to removal of any timber, except right-of-way timber from temporary route construction or helicopter landing construction, the Purchaser shall complete

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all construction, improvement, or renovation of structures and roads as specified in Exhibit C.

- (3) RC-1f Upon completion of logging activities, the Purchaser shall scarify all newly constructed helicopter landings and the entire roadway of all routes identified in Exhibit C-3a (Estimate of Quantities for Temporary Routes) in strips of not less than twenty-four (24) inches or more than twenty-eight (28) inches in width to a minimum depth of twelve (12) inches, provided that no scarification shall be required where the road traverses rock outcroppings. All natural water courses shall be opened to prevent erosion of the roadways. Barriers shall be constructed so as to prevent further use of the road by vehicles.
- (4) RC-2 The Purchaser is authorized to use the roads listed below and shown on Exhibit D-2 which are under the jurisdiction of the Bureau of Land Management, for the removal of Government timber sold under the terms of this contract, provided that the Purchaser pay the required maintenance obligations described in Section 42(C)(6). Any road listed below and requiring improvement or renovation in Exhibit C of this contract, shall be maintained by the Purchaser until receiving written acceptance of the improvement or renovation from the Authorized Officer. The Purchaser shall pay current Bureau of Land Management maintenance fees for the sale of additional timber under modification to the contract.

Road No. and Segment	Length Miles Used	Road Control	Road Surface Type
32-1-33.01 A-C	3.93	BLM	ASC
32-1-33.02 A-C	5.04	BLM	ASC
33-1-8.00 A-B	2.95	BLM	ASC
33-1-10.00 A-D	4.75	BLM	ASC
33-1-29.00 A-F	6.13	BLM	ASC
33-1-29.01 A1-B	5.40	BLM	ASC
33-1-33.00 A-B	2.16	BLM	ASC
33-2-13.00 A	0.90	BLM	ASC

- (5) RC-2a The Purchaser is authorized to use the roads listed below and shown on Exhibit D-2 which are under the jurisdiction of the Bureau of Land Management, Indian Hill, LLC., Tristar Southwest Oregon Timberland, LLC., Oregon Department of Forestry, and/or the Forest Service, for the removal of Government timber sold under the terms of this contract, provided that the Purchaser comply with the conditions set forth in Section 42(C)(10) and pay the required rockwear obligation described in Section 42(C)(9). The Purchaser shall pay current Bureau of Land Management or Forest Service rockwear fees for the sale of additional timber under modification to the contract.

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Road No. and Segment	Length Miles Used	Road Control	Road Surface Type
32-1-16.00	0.67	BLM	PRR
32-1-21.00	0.13	BLM	ASC
32-1-21.03	1.05	BLM	ASC
32-1-21.05	0.71	BLM	ASC
32-1-27.01	0.38	BLM	ASC
32-1-29.02	1.20	BLM	ASC
32-1-29.03	0.80	BLM	ASC
32-1-29.04	0.26	BLM	PRR
32-1-29.06	0.08	Indian Hill	PRR
32-1-29.07 A	0.33	BLM	ASC
32-1-29.07 B	0.11	BLM	NAT
32-1-33.03 A-B	1.53	BLM	ASC
33-1-5.00 A-E	3.24	BLM	ASC
33-1-5.04	1.25	BLM	PRR
33-1-7.00	0.76	BLM	ASC
33-1-8.01	1.36	BLM	ASC
33-1-9.01 A	0.11	TRISTAR	NAT
33-1-31.04 A	0.18	BLM	ASC
33-1-32.00 A	1.55	BLM	ASC
33-1-32.00 B	0.15	ODF	ASC
33-1-32.00 C	0.40	BLM	ASC
33-2-3.02	0.45	BLM	ASC
33-2-13.01 A1-A2	1.66	BLM	ASC
33-2-25.06	0.33	BLM	PRR
34-2-1.00	0.60	BLM	PRR
34-2-1.06	0.24	BLM	PRR
34-2-12.02 B3	0.11	BLM	ASC
FS1632 A-D	3.38	Forest Service	ASC
FS1632 G-H	0.42	Forest Service	ASC
FS1632-112	1.00	Forest Service	ASC
FS1632-118	0.03	Forest Service	ASC
FS3200	0.36	Forest Service	ASC
FS3232-945	0.75	Forest Service	ASC

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- (6) RC-2c The Purchaser shall pay the Government a road maintenance obligation in the amount of **nine thousand six hundred forty six and 43/100 dollars (\$9,646.43)** for the transportation of timber included in the contract price and for the transportation of any mineral material required under the terms of the contract over road or roads listed in Section 42(C)(4).

The above road maintenance amount is for use of 31.26 miles of road or less. Unless the total maintenance amount is paid prior to commencement of operations on the contract area, payments shall be made in installments of not less than five hundred and 00/100 dollars (\$500.00); payable in the same manner as and together with payments required in Sec. 3 of this contract.

- (7) RC-2d The Purchaser shall be authorized to use other roads not included in Section 42(C)(4) and/or Section 42(C)(5); provided, that in the use of such road(s), the Purchaser shall pay the Government current Bureau of Land Management road maintenance and/or rockwear fees for the particular surface type of the road(s) used.

For administrative purposes the total maintenance and rockwear obligation due shall be based upon the estimated volume set forth in Exhibit B of this contract and mileage of roads used as determined by the Authorized Officer.

In the event logs are hauled over more than one route, the estimated volume set forth in Exhibit B shall be proportioned on the basis of actual volume removed. Prior to the use of such roads, the Purchaser shall give written notice to the Authorized Officer of the roads intended for use in the removal of the timber purchased under this contract, together with an estimate of the volume to be hauled over such roads.

Section 42(C)(6) and Section 42(C)(9) of this contract shall be amended to include adjustments of fee obligations.

- (8) RC-2f The Authorized Officer may at any time by written notice, terminate the Purchaser's operator road maintenance obligations and require instead payment of current Bureau of Land Management road maintenance fees for the particular surface type of the road(s) involved. These fees will be applied to the remaining contract volume on the sale area to be transported over road or roads listed in Section 42(C)(5). The Purchaser shall pay the total maintenance amount for said road(s) within thirty (30) days following receipt of written notice; provided, however, that if the total amount exceeds five hundred and no/100 dollars (\$500.00), the Purchaser may elect to make payment in installments in the same manner as and together with payments required in Section 3 of this contract.
- (9) RC-2g The Purchaser shall also pay to the Government a road maintenance obligation for rockwear in the amount **one thousand one hundred seventy seven**

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**and 38/100 dollars (\$1,177.38)** for the transportation of timber included in the contract price and for transportation of any mineral material required under terms of the contract over road or roads listed in Section 42(C)(5). The amount of the rockwear shown above shall be paid prior to removal of timber from the contract area; provided, however, that if the total of such amount exceeds five hundred and no/100 dollars (\$500.00), the Purchaser may elect to make the payment in installments in the same manner as and together with payments required in Section 3 of this contract.

- (10) RC-2h Except for road maintenance in accordance with Section 42(C)(11), (C)(12), (C)(13), and (C)(14), the Purchaser shall perform any required road repair and maintenance work on roads used by him, under the terms of Exhibit D, "Road Maintenance Specifications," of this contract, which is attached hereto and made a part hereof.
- (11) RC-3 In the use of road No. 32-1-29.06, the Purchaser shall comply with the conditions of Right-of-Way and Road Use Agreement No. M-2000E between the United States of America and Indian Hill, LLC. These conditions include: Payment to Indian Hill, LLC; a road rockwear obligation of **one and 33/100 dollars (\$1.33)** payable at the time indicated in the license agreement. This document is available for inspection at the Bureau of Land Management, Medford Interagency Office, 3040 Biddle Road, Medford, Oregon 97504. Prior to the use of said road, the Purchaser shall furnish the Authorized Officer a copy of the executed License Agreement. Default by the Purchaser of said Right-of-Way and Road Use Agreement, or any License Agreement executed pursuant thereto, for failure to pay appropriate road use fees shall be considered a violation of this contract. The amount of unpaid fees shall be considered as the amount of damage suffered by the Government as a result of the violation of this provision.
- (12) RC-3 In the use of road No. 33-1-9.01 Segment A, the Purchaser shall comply with the conditions of Right-of-Way and Road Use Agreement No. M-660 between the United States of America and Tristar Southwest Oregon Timberland, LLC. This document is available for inspection at the Bureau of Land Management, Medford Interagency Office, 3040 Biddle Road, Medford, Oregon 97504. Prior to the use of said road, the Purchaser shall furnish the Authorized Officer a copy of the executed License Agreement. Default by the Purchaser of said Right-of-Way and Road Use Agreement, or any License Agreement executed pursuant thereto, for failure to pay appropriate road use fees shall be considered a violation of this contract. The amount of unpaid fees shall be considered as the amount of damage suffered by the Government as a result of the violation of this provision.
- (13) RC-3 In the use of road No. 33-1-32.00 Segment B, the Purchaser shall comply with the conditions of the Memorandum of Understanding dated 25 May, 2000 between the United States of America and Oregon Department of Forestry and the License Agreement with BLM #526 and Oregon Department of Forestry #314.150068. These conditions include: Payment to Oregon Department of

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Forestry, an estimated rockwear obligation of **three and 38/100 dollars (\$3.38)** payable at the time indicated in the license agreement. This document is available for inspection at the Bureau of Land Management, Medford Interagency Office, 3040 Biddle Road, Medford, Oregon 97504. Prior to the use of said road, the Purchaser shall furnish the Authorized Officer a copy of the executed License Agreement. Default by the Purchaser of said Right-of-Way and Road Use Agreement, or any License Agreement executed pursuant thereto, for failure to pay appropriate road use fees shall be considered a violation of this contract. The amount of unpaid fees shall be considered as the amount of damage suffered by the Government as a result of the violation of this provision.

- (14) RC-3a In the use of road No.s FS1632A-D (BLM Road #32-1-19.00A-D), FS1632G-H (BLM Road #32-1-19.00 G-H), FS1632-112, FS1632-118, FS3200, and FS3232-945 (BLM Road #33-1-29.00FS), the Purchaser shall comply with the conditions of the Bureau of Land Management and Forest Service Interagency Right-of-Way and Road Use Agreement dated May 20, 1980, Exhibit A, Agreement No. 836. The conditions include: Payment to the Forest Service, a maintenance and rockwear obligation of **eight hundred forty one and 22/100 dollars (\$841.22)**, payable at the time indicated in the license agreement and a Special Use Permit that will be approximately \$224.00 needed for the use of the existing helicopter landing on Forest Service road FS1632-118.
- (15) RC-3d The Purchaser agrees that if they elect to use any other private road which is the subject of a right-of-way agreement with the Government for the removal of Government timber sold under the terms of this contract, the Purchaser shall request and agree to the modification of this contract to provide for such use and for allowances for amortization of the Government's share of the capital investment of any such road.
- (16) RC-4 No logging or hauling operations on the contract area shall be undertaken until the Purchaser has secured from the appropriate officials of the Forest Service and Oregon Department of Forestry, permission for the use of the existing road Nos. FS1632A-D (BLM Road #32-1-19.00A-D), FS1632G-H (BLM Road #32-1-19.00 G-H), FS1632-112, FS1632-118, FS3200, and FS3232-945 (BLM Road #33-1-29.00FS) from the Forest Service and existing road No. 33-1-32.00B from the Oregon Department of Forestry, as shown on Exhibit C-2.
- (17) RC-8 The Purchaser shall be required to secure written approval to use vehicles or haul equipment over Government owned or controlled roads and/or structures when that vehicle or equipment exceeds the maximum allowable weights or dimensions established by the State for vehicles operating without a permit.

Details of such equipment shall be furnished to the Authorized Officer for evaluation of load characteristics, at least fifteen (15) days prior to proposed move-in.

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Details shall include:

- (a) Axle weights when fully loaded.
- (b) Axle spacing.
- (c) Transverse wheel spacing.
- (d) Tire size.
- (e) Outside width of vehicle.
- (f) Operating speed.
- (g) Frequency of use.
- (h) Special features (e.g., running tracks, overhang loads, etc.)

The Purchaser shall be responsible for repair of any damage to roads or structures caused by the use of overweight or over-dimension vehicles (1) without written approval, (2) in violation of the conditions of a written approval, or (3) in a negligent manner. The amount of actual damage shall be determined by the Authorized Officer following a technical inspection and evaluation.

(D) Environmental Protection

- (1) E-1 In addition to the requirement set forth in Sec. 26 of this contract, the Purchaser shall prepare a Spill Prevention, Control, and Countermeasure Plan for all hazardous substances to be used in the contract area. Such plan shall include identification of Purchaser's representatives responsible for supervising initial containment action for releases and subsequent cleanup. In addition, such plan shall follow all applicable State of Oregon Department of Environmental Quality guidelines for spill prevention and containment of petroleum products (Oregon Administrative Rules, Chapter 340, Department of Environmental Quality, Division 142, Oil and Hazardous Materials Emergency Response Requirements).
- (2) E-1 In addition to the requirement set forth in Sec. 26 of this contract, the Purchaser shall not store, or cause to have stored, any fuel or other petroleum products inside any riparian reserve area. All petroleum products shall be stored in durable containers and located so that any accidental release will be contained and not drain into any stream system. Refueling of equipment shall be done outside of riparian reserve areas.
- (3) E-1 In addition to the requirement set forth in Sec. 26 of this contract, the Purchaser shall only be allowed to use logging, construction, rock crushing, brushing chipping, shredding or grinding and/or transportation equipment that is free of noxious weed seeds prior to entering federal lands in the contract area as shown on Exhibit A.

If equipment is not considered free of noxious weed seeds by the Government, it shall be cleaned prior to entering federal lands. Cleaning shall be defined as removal from all surfaces including the under carriage any dirt, grease, plant

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parts, and material that may carry noxious weed seeds onto federal lands. Cleaning prior to entering federal lands may be accomplished by using a pressure hose.

Equipment shall be subject to visual inspection by the Government to certify that the equipment is free of noxious weed seeds. Only equipment inspected by the government shall be allowed to operate on federal lands within the contract area. The purchaser shall make equipment available for government inspection at an agreed upon location off federal lands prior to any move-in of equipment.

Requirements as outlined above may be waived by the Government if move-in is from one "weed free area" to another "weed free area", as determined by the Government, or as conditions warrant.

- (4) E-1 In addition to the requirement set forth in Sec. 26 of this contract and as directed by the Authorized Officer, the Purchaser shall construct barricades on all pre-designated skid trails, designated skid trails, temporary roads and reconstruction roads as shown on Exhibit A, and at any location where an existing barricade has been removed to provide access to units as shown on exhibit A. Barricades shall be located where skid trails take off of system roads, temp spurs or landing areas and continue for the first one hundred (100) feet of skid trail length. Barricades shall be constructed by placing woody debris or other appropriate barriers (e.g. rocks, logs, and slash) on them to effectively inhibit access by all terrain vehicles. Barricades shall be in place by October 15 of each calendar year. If hauling on a temporary route is not completed in the same year the route is constructed, the route will be storm-proofed and blocked by October 15 or when soil moisture exceeds 25%.
- (5) E-1 In addition to the requirement set forth in Sec. 26 of this contract, the Purchaser shall construct road barricades as specified on Exhibit C, at locations where an existing barricade has been removed to provide for harvest access. Barricades shall be in place by October 15 of each calendar year.
- (6) E-1 In addition to the requirements set forth in Sec. 26 of this contract, the Purchaser shall;
- (a) Use a minimum 200 flywheel horsepower tractor with mounted rippers having shanks and teeth consistent with drawings and specifications shown on Exhibit R of this contract, which is attached hereto and made a part hereof.
  - (b) Rip to a depth of eighteen (18) inches or bedrock (which ever is shallower).
  - (c) Ripping will not occur unless soil moisture content is twenty-five (25) percent or less (at a six (6) inch depth) as determined by the oven-dry method.

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(d) Rip all pre-designated skid trails, temporary roads, newly constructed landings, and re-construction roads as shown on exhibit A, by October 15 of the year operations are completed. If harvest operations are not completed in the same year of use, skid trails will be storm-proofed and blocked by October 15.

(e) Rip and water bar pre-designated skid trail in unit 7-3 as shown on Exhibit A. In addition, re-establish drainage at draw crossing by pulling material back on both sides as needed to re-define the natural stream gradient and flow. Seed and mulch pre-designated skid trail and any exposed or disturbed soil below the landing area as directed by the authorized officer by October 15 of that year in which use occurs.

(f) Seed and mulch all temporary roads, newly constructed landings, reconstruction roads, and pre-designated skid trails, in all units as shown on Exhibit A.

(g) Seed and mulch all designated skid trails, in all units as shown on Exhibit A for a distance of one hundred (100) feet beginning where skid trails take off of system roads, or landing areas.

(h) Seed and mulch the top 20 feet of all skyline yarding corridors in all skyline units as shown on Exhibit A where yarding logs to the road has resulted in extended soil surface exposure.

Seeding and mulching activities must be completed by October 15 of the year logging operations are completed. If operations are not completed in the same year of use, these areas will be storm-proofed, blocked, and approved by the authorized officer by October 15 of that year in which use occurs.

The seed mix and straw shall be provided by the purchaser from an approved commercial source, or may be provided by the BLM if the purchaser is unable to locate and buy the certified seed and straw. The purchaser shall reimburse the government for the cost of seed and straw if provided by the government. The Purchaser shall furnish and apply to acres designated for treatment as directed by the Authorized Officer, a mixture of grass seed and mulch material at the following rate of application:

Grass seed	20 lbs./acre
Straw mulch	1000 lbs./acre (approx. 2 inches in depth)

The Purchaser shall furnish the following species of grass seed meeting corresponding germination, purity, and weed content requirements:

<u>Species</u>	<u>Germination Purity</u>		<u>Weed Content</u>
	<u>Min. %</u>	<u>Min. %</u>	<u>Max. %</u>
California Brome	85	95	0.2
Blue Wild Rye	85	95	0.2

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The grass seed furnished shall meet the minimum requirement for Blue Tag Seed as set forth in the latest edition of Oregon Certification Standards published by Oregon State University. Seed source shall be approved by the Authorized Officer and shall be from the general region where the project occurs. Straw mulch shall be from native grass or other approved grain crops which are certified weed free, and free of mold or other objectionable materials. Straw mulch shall be in an air-dry condition and suitable for placing in a uniform manner.

The Purchaser shall mix grass seed in the following proportions:

Percent of <u>Species</u>	<u>Total by Wt.</u>	<u>Lbs. per Acre</u>
California Brome	50%	10
Blue Wild Rye	50%	10
TOTALS	100%	20 lbs./ac.

The Purchaser shall furnish the Authorized Officer a Seed Test result from a certified seed testing lab (i.e. Oregon State University), which shall include: date of test; lot number of each kind of seed; seed source; and results of tests as to name, percentages of purity and of germination, weed species and percentage of weed content, for each kind of seed furnished and, in case of mixture, the proportions of each kind of seed. The seed must have been tested within the last year to be accepted for use on this contract. The seed and straw mulch shall be applied between August 1 and October 15. The Purchaser shall notify the Authorized Officer at least 5 days in advance of the date he intends to commence the specified soil stabilization work.

- (7) E-2 The water bars to be constructed as required by Sec. 26(c) shall be constructed in accordance with the specifications shown on Exhibit C-11, which is attached hereto and made a part hereof.
- (a) Water-bar all temporary roads, reconstruction roads, and pre-designated skid roads shown on Exhibit A by October 15 of the year operations are completed.
- (b) Water-bar all designated skid roads, used for logging activities by October 15 of the year operations are completed in all units shown on Exhibit A.
- (8) E-4 The Purchaser shall immediately discontinue specified construction or timber harvesting operations upon written notice from the Contracting Officer that:
- (1) threatened or endangered plants or animals protected under the Endangered Species Act of 1973, as amended, may be affected by the operation, and a determination is made that consultation or reinitiation of consultation is required concerning the species prior to continuing operation, or;

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- (2) when, in order to comply with the Endangered Species Act, or to protect occupied marbled murrelet sites in accordance with the Standards and Guidelines of the Medford District Record of Decision (ROD) and Resource Management Plan (RMP), the Contracting Officer determines it may be necessary to modify or terminate the contract, or;
- (3) federal proposed, federal candidate, Bureau sensitive or State listed species protected under BLM Manual 6840 - Special Status Species Management - have been identified, and a determination is made that continued operations would affect the species or its habitat, or;
- (4) other active raptor nests have been discovered, and a determination is made that continued operations under this contract would adversely affect the present use of the discovered nesting area by the raptor, or;
- (5) when, in order to comply with a court order which enjoins operations on the sale or otherwise requires the Bureau of Land Management to suspend operations, or;
- (6) when, in order to comply with a court order, the Contracting Officer determines it may be necessary to modify or terminate the contract, or;
- (7) species have been discovered which were identified for protection through survey and manage and/or protection buffer standards and guidelines established in the ROD and RMP, and the Contracting Officer determines that continued operations would affect the species or its habitat, or;
- (8) when, in order to protect species which were identified for protection through survey and manage and/or protection buffer standards and guidelines established in the ROD and RMP, the Contracting Officer determines it may be necessary to modify or terminate the contract.

Those operations necessary for a safe removal of personnel and equipment from the contract area and those directed by the Contracting Officer which are required in order to leave the contract area in an acceptable condition will be permitted. Discontinued operations may be resumed upon receipt of written instructions and authorization by the Contracting Officer.

During any period of suspension, the Purchaser may withdraw performance and payment bond coverage aside from that deemed necessary by the Authorized Officer to secure cut and/or removed timber for which the Bureau of Land Management has not received payment, and/or unfulfilled contract requirements associated with harvest operations that have already occurred and associated post-harvest requirements.

In the event of a suspension period or a combination of suspension periods that exceed a total of 30 days, the First Installment held on deposit may be temporarily reduced upon the written request of the Purchaser. For the period of suspension

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extending beyond 30 days, the First Installment on deposit may be reduced to five (5) percent of the First Installment amount listed in Section 3.b. of the contract. Any First Installment amount temporarily reduced may be refunded or transferred to another BLM contract at the request of the Purchaser. However, if the Purchaser has outstanding debt owing the United States, the Contracting Officer must first apply the amount of First Installment that could be refunded to the debt owed in accordance with the Debt Collection Improvement Act, as amended (31 USC 3710, *et seq.*). Upon Purchaser's receipt of a bill for collection and written notice from the Contracting Officer lifting the suspension, the Purchaser shall restore the First Installment to the full amount shown in Section 3.b. of the contract within 15 days after the bill for collection is issued, subject to Section 3.h. of the contract. The Purchaser shall not resume contract operations until the First Installment amount is fully restored.

In the event of a suspension period or a combination of suspension periods that exceed a total of 30 days, the unamortized Out-of-Pocket Expenses for road or other construction required pursuant to Exhibit C of the contract shall be refunded or transferred to another BLM contract at the request of the Purchaser. Upon written notice from the Contracting Officer lifting the suspension, the Purchaser shall reimburse the Government the amounts refunded or transferred. The Purchaser may choose to pay this reimbursement at once or in installments payable at the same time as payments are due for the timber under the contract and in amounts approximately equal to the expenses associated with the timber for which payment is due.

The 30 days can be the sum of days accruing during more than one operating season. Reappraisal may result in a decrease to the unit price bid per species. Reappraisal will be based on the loss of net volume due to the deterioration of logs during the period of delay and any associated changes in the amortization of logging costs per unit of volume, as determined by the Authorized Officer. Amortization of road construction cost over a reduced net volume will be considered as well as any additional move-in or logging costs caused by the delay, as determined by the Authorized Officer. Reappraisal will adjust Exhibit B volume and values, and will not consider changes in the market price of timber.

In the event that operating time is lost as a result of the incorporation of additional contract requirements, or delays due to Endangered Species Act consultation with the U.S. Fish and Wildlife Service or U.S. National Marine Fisheries Service, or court-ordered injunctions, the Purchaser agrees that an extension of time, without reappraisal, will constitute a full and complete remedy for any claim that delays due to the suspension hindered performance of the contract or resulted in damages of any kind to the Purchaser.

The Contracting Officer may determine that it is necessary to terminate the cutting and removal rights under the contract in order to comply with the Endangered Species Act, protect occupied marbled murrelet sites in accordance

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with the ROD and RMP, protect species that have been discovered which were identified for protection through survey and manage and/or protection buffer standards and guidelines established in the ROD and RMP, or comply with a court order. Following the issuance of a written notice that cutting and removal rights will be terminated, the Purchaser will be permitted to remove timber cut under the contract, if allowed by the Endangered Species Act, marbled murrelet occupied site protection in accordance with the ROD and RMP, survey and manage and/or protection buffer standards and guidelines established in the ROD and RMP, or court order requirements necessitating the modification or termination.

In the event cutting and removal rights are terminated under this subsection, the Purchaser agrees that the liability of the United States shall be limited to the actual costs incurred by the Purchaser which have not been amortized by timber removed from the contract area. This calculation of liability shall utilize actual Purchaser costs and Government estimates of timber volumes. At the Authorized Officer's request, the Purchaser agrees to provide documentation of the actual costs incurred in the performance of the contract. In addition, the Purchaser shall be released from the obligation to pay the contract price for any timber which is not authorized to be removed from the contract area.

The Purchaser specifically and expressly waives any right to claim damages, other than those described in the preceding paragraphs, based on an alleged breach of any duty to the Purchaser, whether express or implied, in regard to the manner in which the Government defended the litigation which resulted in the court order affecting the operation of the contract. This waiver also extends to any claims based on effects on the operation of the contract that arise from litigation against another agency. Furthermore, the Purchaser specifically acknowledges and agrees that a court ruling that the Government violated the Administrative Procedures Act cannot be interpreted, in itself, to mean that the Government had not acted reasonably in regard to its duties to the Purchaser under this contract.

- (9) E-5 The Purchaser shall immediately discontinue specified construction or timber harvesting operations upon written notice from the Authorized Officer that a spotted owl has been located in the sale area. Discontinued operations may be resumed upon receipt of written instructions and authorizations by the Authorized Officer.
- (10) E-6 The Purchaser shall notify the Authorized Officer in writing by February 1 of each calendar year in which operations are expected to take place on the contract area between March 1 and September 30, both days inclusive. If notification is not received by the Authorized Officer by February 1, felling, bucking, yarding, road construction, or any other activity with the potential to disturb nesting owls may not be allowed during this time period.

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Upon receipt of a notice that the Purchaser expects to perform such operations during this time period, the Government will conduct surveys in units 9-5, 21-6, 21-10, 33-5, to determine whether spotted owls are nesting within 0.25 miles of the harvest units to be logged using ground based logging systems. If it is determined that spotted owls are not nesting or that no young have been produced, the Authorized Officer may lift the seasonal restriction on such operations in writing. Without this written approval, such operations are prohibited from March 1 through September 30 of each year.

(E) Miscellaneous

- (1) M-2 The Government, at its option, may administratively check scale any portion of the timber removed from the contract area, and if necessary, conduct check scaling of independent scalers contracted to BLM for administrative check scaling purposes. The Purchaser hereby agrees to make such contract timber available for such scaling at a location or locations to be approved in writing by the Authorized Officer. At the approved location or locations, the Purchaser shall provide an area for logs to be safely rolled out for scaling, to unload logs from trucks, place logs in a manner so that both ends and three faces of each log are visible for scaling, and to reload or remove logs after scaling has been completed. In the event that BLM elects to administratively check scale and if such check scaling causes a delay in log transportation time, an adjustment will be made to the purchase price as follows: If the entire sale is check scaled, the purchase price of this contract shall be reduced by One Thousand Five Hundred Fifty Five and 00/100 dollars (\$1,555.00) In the event that only a portion of the contract timber is scaled, the purchase price shall be reduced by that portion of One Thousand Five Hundred Fifty Five and 00/100 dollars (\$1,555.00) which is equal to the percentage of timber sold which was actually scaled by the Government. For purposes of computing this price reduction, the percentage of timber sold which has been scaled shall be determined by the Government. Any reduction in purchase price under the terms of this provision shall be full compensation to the Purchaser for any expense or loss incurred as a result of such scaling. Scaling shall be conducted in accordance with the Northwest Log Rules Eastside Log Scaling Handbook, as amended, or supplemented by BLM before the first advertisement date of the sale, by BLM scalers, and/or independent scalers contracted to BLM. A copy of the scale report will be made available to the Purchaser upon request.
- (2) M-4 Notwithstanding the provisions of Section 5(c), when the Purchaser elects to furnish and operate under a payment bond as provided in Section 39(d), the value of right-of-way timber included in a billing shall be based on the value of timber removed from the right-of-way.
- (3) M-5 The Purchaser shall, without expense to the Government, be responsible for obtaining any necessary licenses and permits and for complying with any and all

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Federal, State, County, and municipal laws, codes, regulations, and administrative rules applicable to the performance of this contract. The Purchaser shall also be responsible for all damages to persons or property that arise out of any operations under this contract and result from any breach of contract or wrongful or negligent act or omission of the Purchaser, its contractors, subcontractors, or employees of any of them.

(F) Fire Prevention and Control

a. F-1a Fire Prevention and Control. Primarily for purposes of fire prevention and control, the Purchaser shall comply with the following provisions:

a. Prior to the operation of power driven equipment in construction or logging operations under this contract during the closed fire season or periods of fire danger, prepare a fire prevention and control plan to the satisfaction of the State of Oregon, Department of Forestry.

b. Provide and maintain in good repair, on the contract area, the following equipment for use during closed fire season or periods of fire danger:

1. F-2a Fire fighting tools shall be kept at each landing or at such other place as the Authorized Officer shall designate whenever people are working on the contract area. All fire fighting tools shall be kept in a sturdily constructed box which shall be painted red and lettered on the front or top in large letters, "For Fire Only." The box shall have a hinged lid and a hasp by which the lid can be sealed. One box may serve two landings not over six hundred (600) feet apart. When filled, the box shall not weigh over two hundred (200) pounds. The fire tools shall be in good condition, be tight on strong handles, and have sharp cutting edges. There shall not be less than four (4) tools in each box nor less than one (1) tool for each person working on the contract area. Three-fourths ( $\frac{3}{4}$ ) of all fire tools shall be shovels, hazel hoes, or other scraping tools. The fire tools shall be used only for fighting fire.

2. F-2b A round pointed size zero (0) or larger shovel in good condition, shall be within fifty (50) feet of any power saw when in operation.

3. F-2c At each landing during periods of operation one (1) tank truck. Each truck shall have three hundred (300) gallons minimum capacity with five hundred (500) feet minimum of hose and a nozzle acceptable to the Authorized Officer and a mounted or portable pump conforming to the standards set forth in Oregon Revised Statute (ORS) 477.645 through ORS 477.670 and any rule promulgated pursuant to those statutes. All hose couplings shall have the standard thread adopted by the State Fire

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Marshall pursuant to ORS 476.410 as amended or be provided with suitable adapters. At the close of each working day, all bulldozers and tank trucks shall be filled with fuel and made ready for immediate use. All tank trucks and portable tanks shall be filled with water and made available for immediate use.

4. F-2d Serviceable radio or radio-telephone equipment able to provide prompt and reliable communication between the contract area and Medford, Oregon. Such communication shall be available during periods of operation including the time watch-service is required.
5. F-2e A pair of headlights capable of being quickly attached to each bulldozer used on the contract area. The headlights shall be adequate to provide illumination sufficient to allow use of the bulldozers for fire fighting and construction of fire trails at night.
6. F-2f A headlight for each person in the woods crew adequate to provide sufficient illumination for night fire fighting. A headlight shall be of the type that can be fastened to the head so as to allow independent use of the hands. It shall be equipped with a battery case so designed that it can be either carried in the hip pocket or fastened to the belt. The head of the light and the battery case shall be connected by insulated wires. At least one extra set of batteries shall be provided for each such headlight.
7. F-2g Two (2) back-pack pumps at each landing and one (1) at each tail block, all to be kept full of water and in good operating condition.
8. F-2h A chemical fire extinguisher of at least eight (8) ounces minimum capacity of a type approved by the Oregon State Forester shall be carried during the closed fire season or periods of fire danger by each saw operator using a power saw on the contract area. Such fire extinguisher shall be filled and in effective operating condition and shall at all times be immediately available to the operator when the saw is being fueled or the motor of the saw is running. A size "0" or larger shovel shall be available with each gas can when refueling. Any fueling of a power saw shall be done in an area which has first been cleared of all flammable material. Power saws shall be moved at least twenty (20) feet from the place of fueling before the engine is started. Each power saw shall be equipped with an exhaust system and a spark arresting device which are of types approved by the Oregon State Forester.
9. F-5 Where blocks and cables are used on the contract area during periods of fire danger, the Purchaser shall remove all flammable material at least ten (10) feet from the place where the tail or any other block will hang when the cable is tight. Such clearings shall be inspected periodically by the Purchaser and shall be kept free of flammable material.

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10 F-8 Blasting caps and fuses shall not be used during closed fire season or any period of fire danger on any land administered by the Government. Blasting with electric detonators during the closed fire season or periods of fire danger is permitted only between the hours of 4:00 a.m. and 10:00 a.m.

(G) **Slash Disposal and Site Preparation**

- (1) **SD-4 Logging Residue Reduction:** In addition to the requirements of Sect.15 of this contract, and notwithstanding the Purchaser's satisfactory compliance with State laws and regulations regarding offsetting or abating the additional fire hazard created by this operation and the State's willingness to release the Purchaser from liability for such hazard, the Purchaser shall remain responsible to the Government for performance of the following logging residue reduction and site preparation measure(s) required by this contract:

Prior to commencement of any operation under this section of the contract, a slash disposal and site preparation pre-work conference between the purchaser's representative and the Authorized Officer must be held at a location designated by the Authorized Officer. All slash disposal and site preparation shall be done in accordance with the plans developed at this pre-work conference.

Slash, as defined for this section, shall mean all material (brush, limbs, tops, unmerchantable stems, and chunks) severed or knocked over as a result of purchasers operations under the terms of this contract, including material cut during slashing activities for the purposes of fuels reduction.

Refueling of chainsaws and other equipment will be done no closer than one hundred fifty (150) feet of any stream or wet area. Spilled fuel and oil would be cleaned-up and would be disposed of at an approved disposal site.

- (2) **SD-1f LOP AND SCATTER:** Lop and scatter all slash as directed by the Authorized Officer , concurrently with normal felling operations. All tops and side branches must be free of the central stem so that such slash is reduced to the point that it is within eighteen (18) inches of the ground at all points.
- (3) **SD-1i LANDING PILES:** In all units as shown in the Exhibit A, pile all slash located within fifty (50) feet on each side of each landing. Slash shall be piled by a grapple loader. Finished piles shall be tight and free of earth.
- a. A ten (10) foot by ten (10) foot cover of four (4) mil black plastic shall cap each pile to maintain a dry ignition point. The cover shall be firmly fixed to each pile to hold it in place. Landings shall be piled and covered during the same season that they are logged.

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(4) SD-5 Perform logging residue reduction and site preparation work on approximately one hundred (150) acres of harvest area as directed by the Authorized Officer.

(a) The required work shall consist of any treatment or combination of treatments listed in the table below, as determined by the Authorized Officer and specified in writing by the Contracting Officer. The number of acres of each treatment shall be determined by the Authorized Officer.

(b) The following treatments were assumed for appraisal purposes on this contract:

Treatment/Level	Cost Per Acre	Number of Acres	Total Cost Per Treatment Type
Hand pile slash	\$574.00	50	\$28,700.00
Hand pile burn	\$60.00	50	\$3,000
Lop and scatter L2	\$48.00	100	\$4,800.00
Total Appraised Cost			\$36,500.00

(c) The total Purchase Price set forth in Section 2 shall be adjusted by the amount that the total cost of the site preparation treatments designated pursuant to Section 41(G)(2)(a) differs from thirty six thousand five hundred dollars (\$36,500.00) as calculated by using the estimated acres determined by the Authorized Officer and the per acre costs listed in Section 41(G)(2)(a).

In case of injury to personnel or damage to equipment furnished by the Purchaser as required by this subsection, liability shall be borne by the Purchaser, unless such injury or damage is caused by Government negligence.

Time is of the essence in complying with this provision. In the event the Purchaser fails to provide the personnel and equipment required herein, the Purchaser shall be responsible for all additional costs incurred by the Government in disposing of slash including but not limited to the wages and other costs of providing federal employees and others as substitute labor force, the cost of providing substitute equipment and appropriate additional overhead expenses. If the Purchaser's failure results in deferral of burning and new conditions necessitate additional site preparation work and/or use of additional personnel and equipment to accomplish planned burning, the Purchaser also shall be responsible for such additional costs.

MOUSE TRAIL  
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(H) Quarry Development

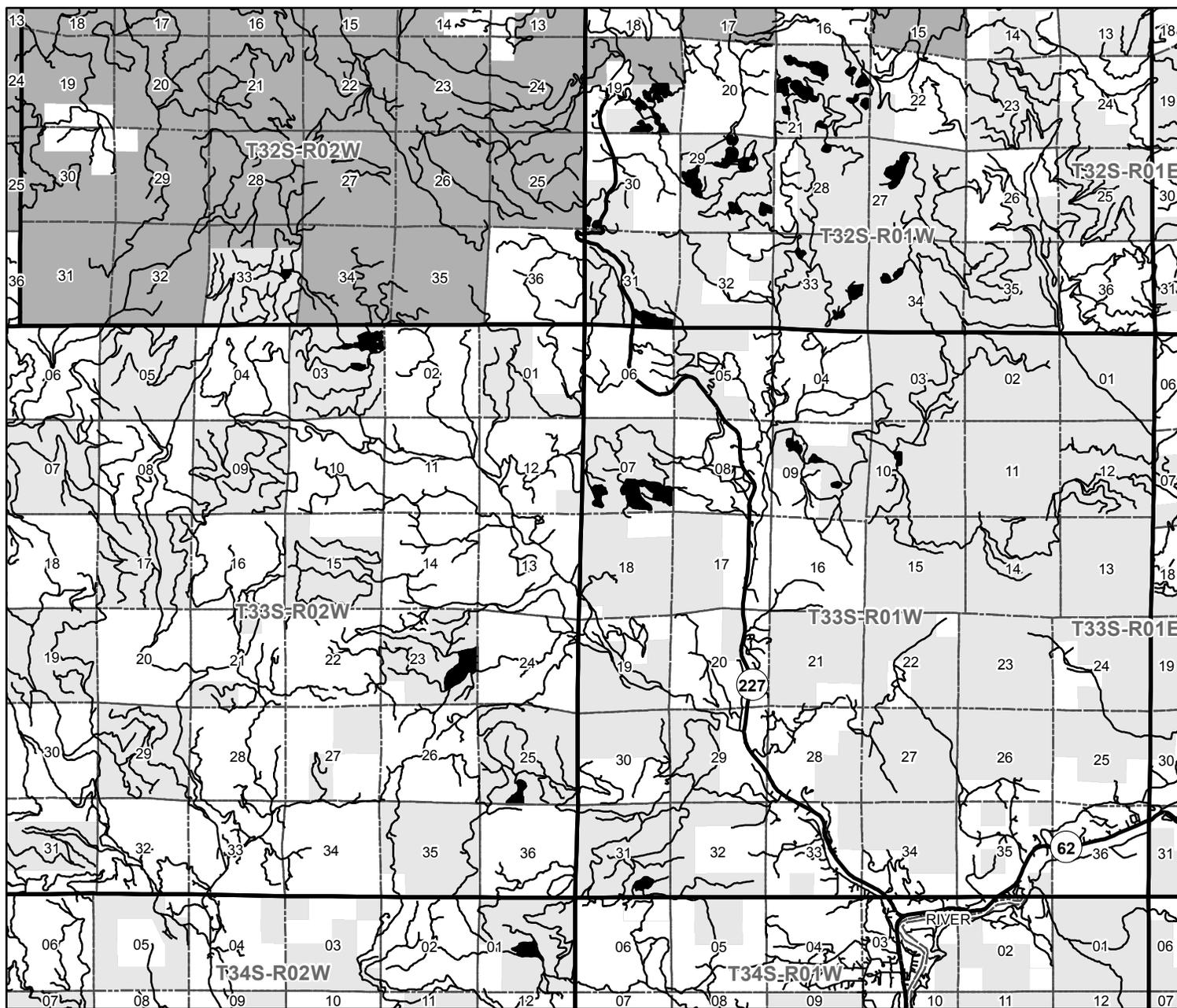
- (1) Q-1 The Purchaser shall develop a rock quarry in strict accordance with the plans and specifications shown on Exhibit C-11 which is attached hereto and made a part hereof. Exhibit C-11 contains 1 sheet.
  - (a) Q-1b Any quarry access road construction and site preparation shown on exhibit C-11 shall be completed at each quarry location shown on Exhibit C-11 prior to removal of any rock from such area.

(I) Equal Opportunity in Employment

- (1) Certification of Nonsegregated Facilities attached hereto and made a part hereof.

U.S.D.I BLM MEDFORD DISTRICT SALE NO. ORM05-TS14-09  
 MOUSE TRAIL TIMBER SALE  
 BUTTE FALLS RESOURCE AREA  
 JACKSON COUNTY

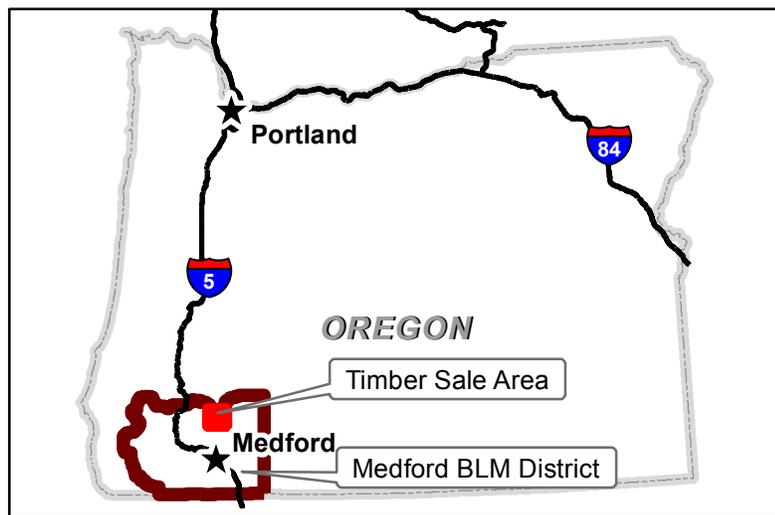
TIMBER SALE LOCATION MAP  
 CONTRACT NO. ORM05-TS14-09



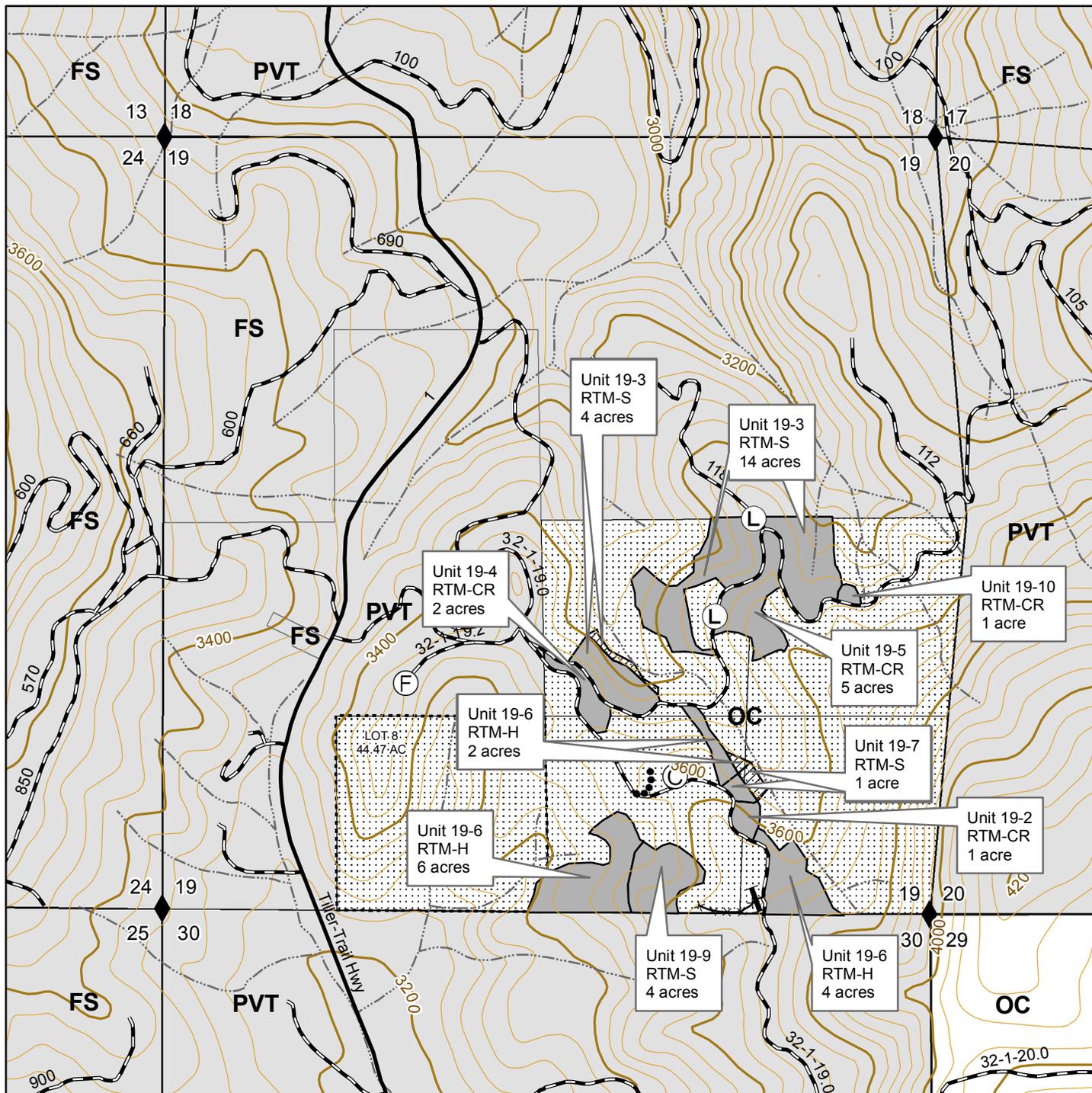
	BLM		Other
	USFS		



No warranty is made by the Bureau of Land Management as to the accuracy, reliability, or completeness of these data for individual or aggregate use with other data. Original data were compiled from various sources and may be updated without notification.





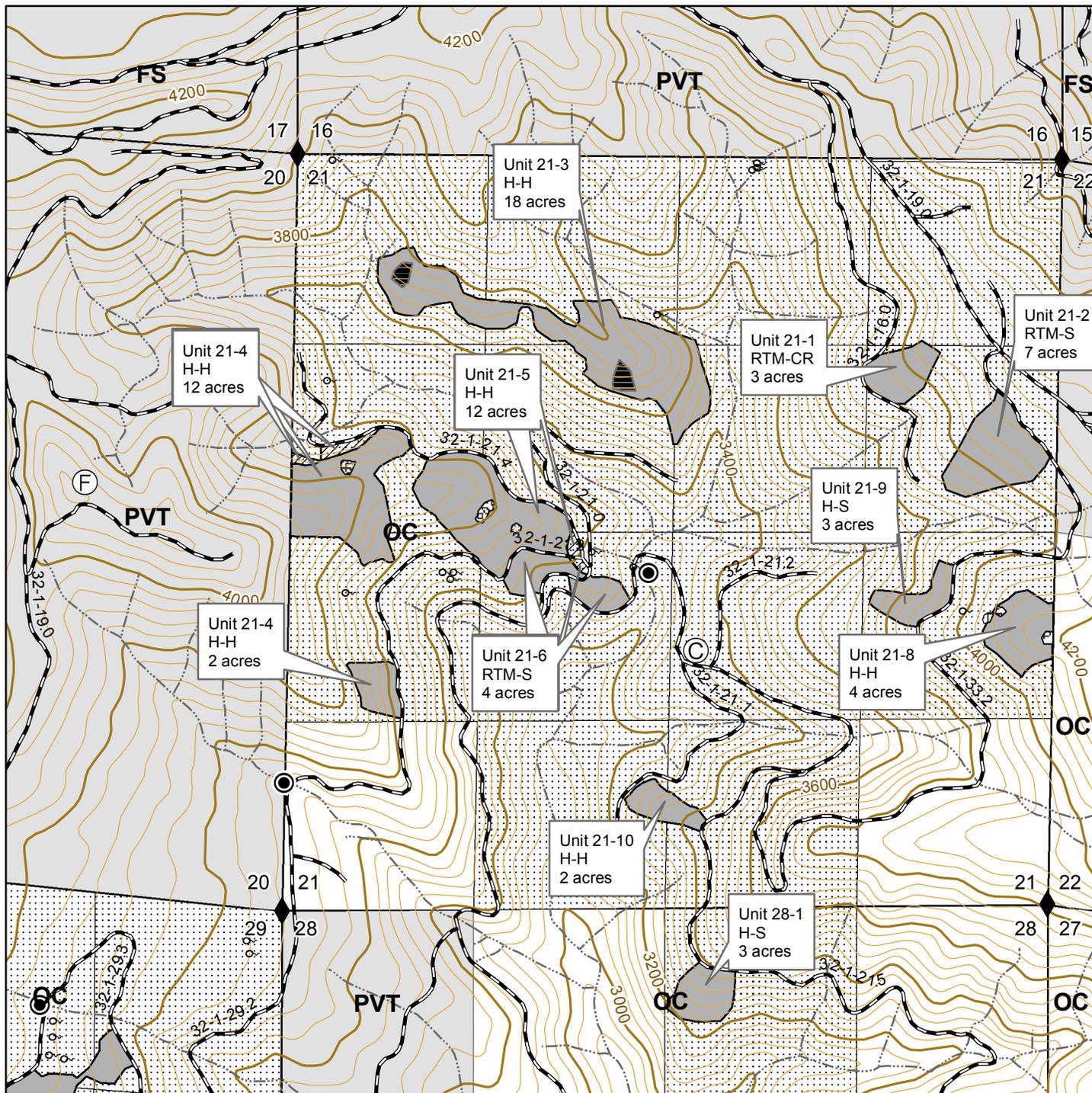


Medford District BLM  
 July 2014

1 inch = 1,000 feet  
 Contours = 40 feet



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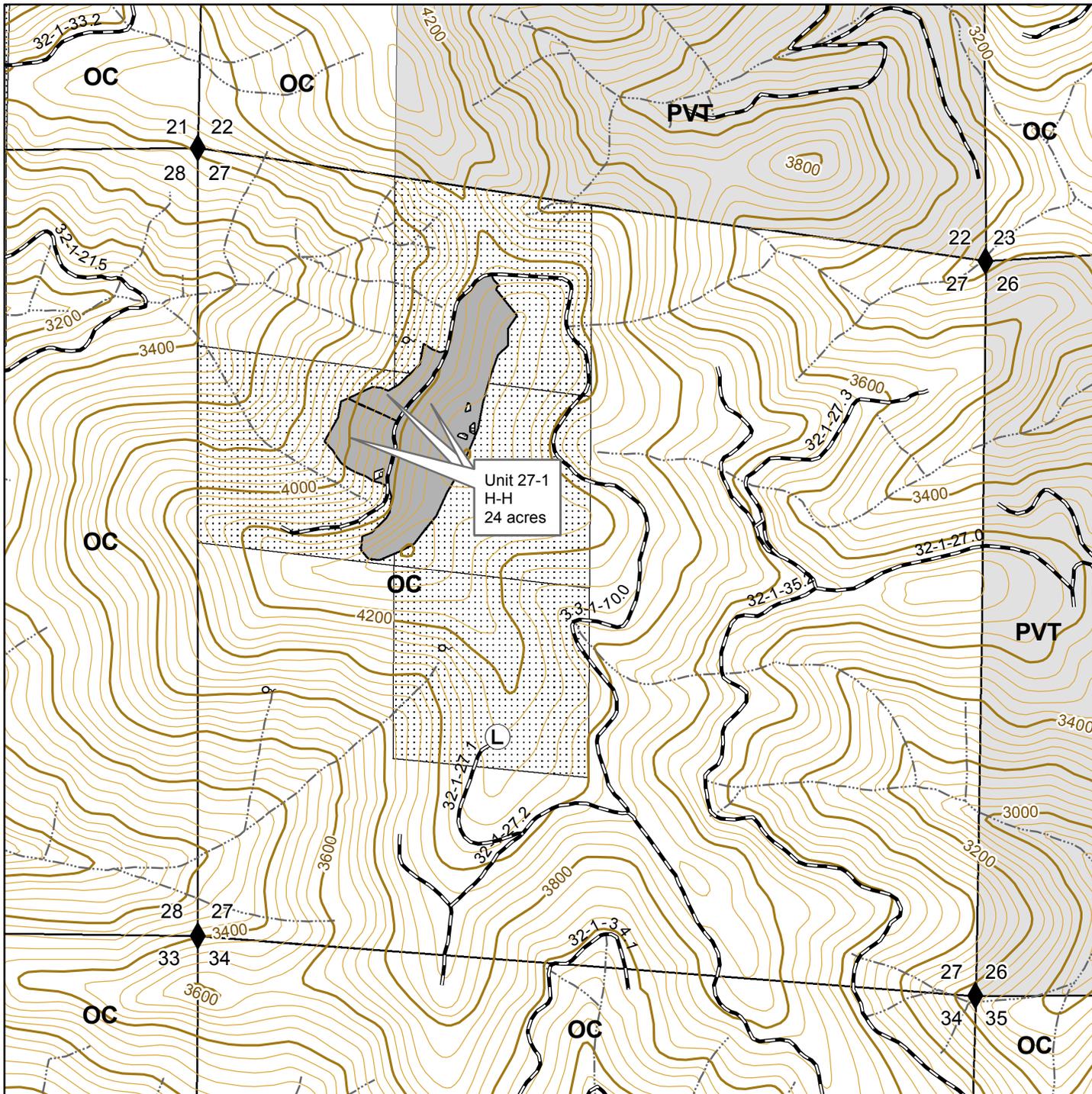


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 July 2014

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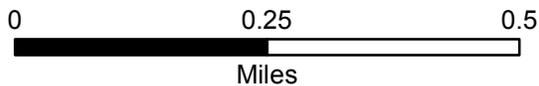


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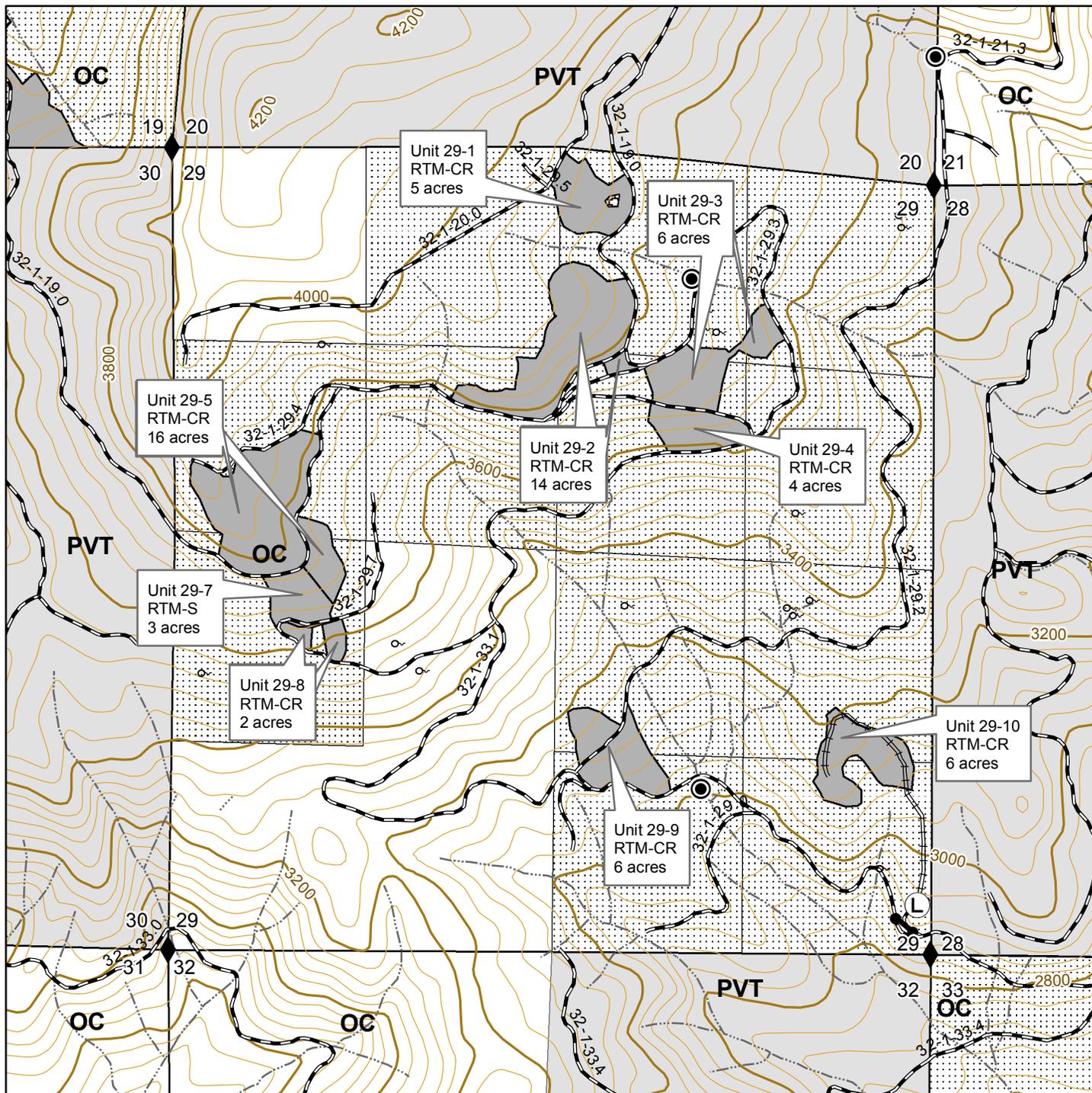


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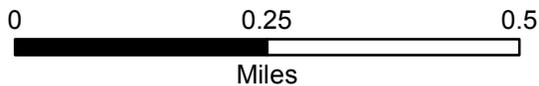


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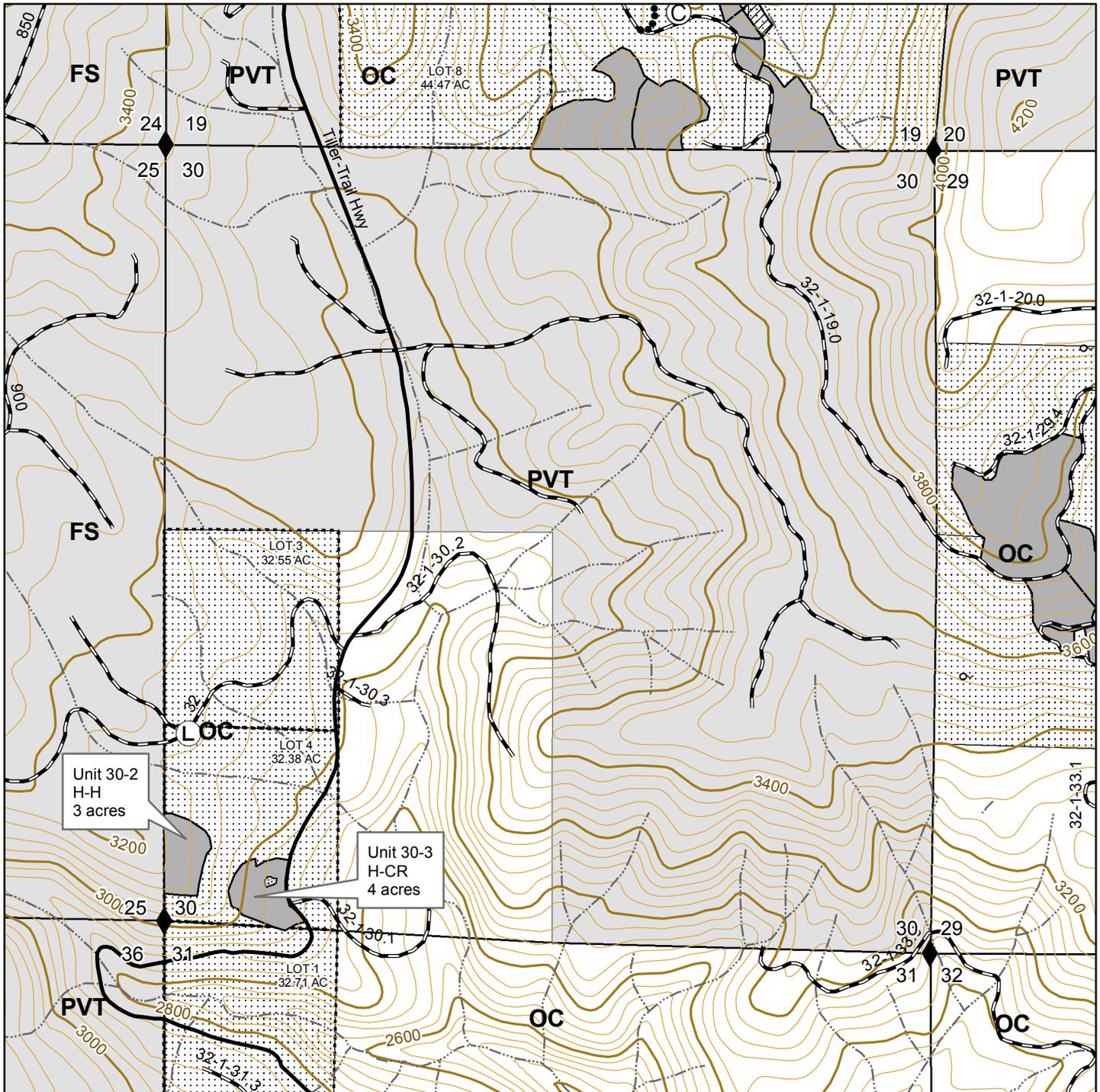


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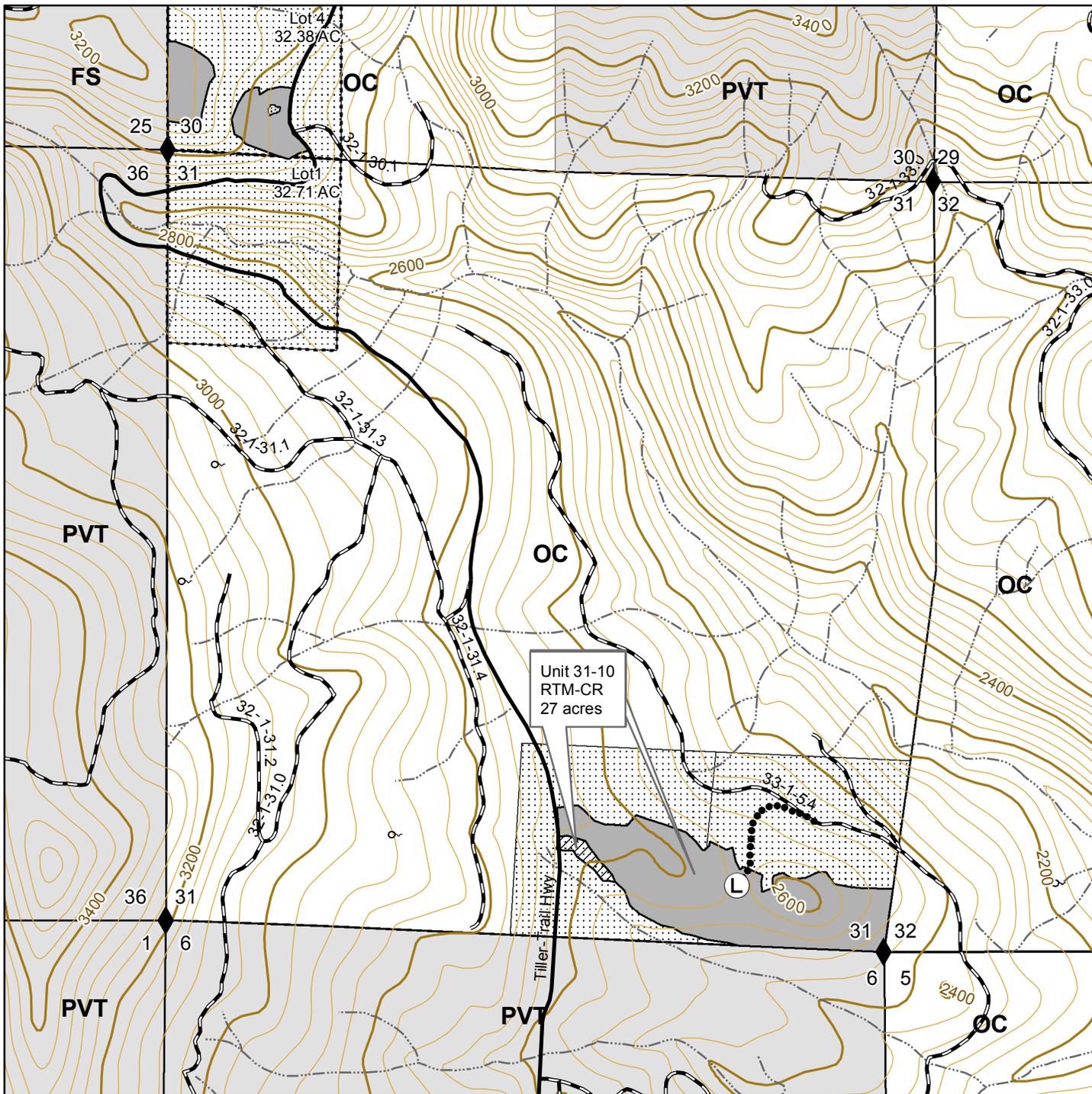


Medford District BLM  
 July 2014

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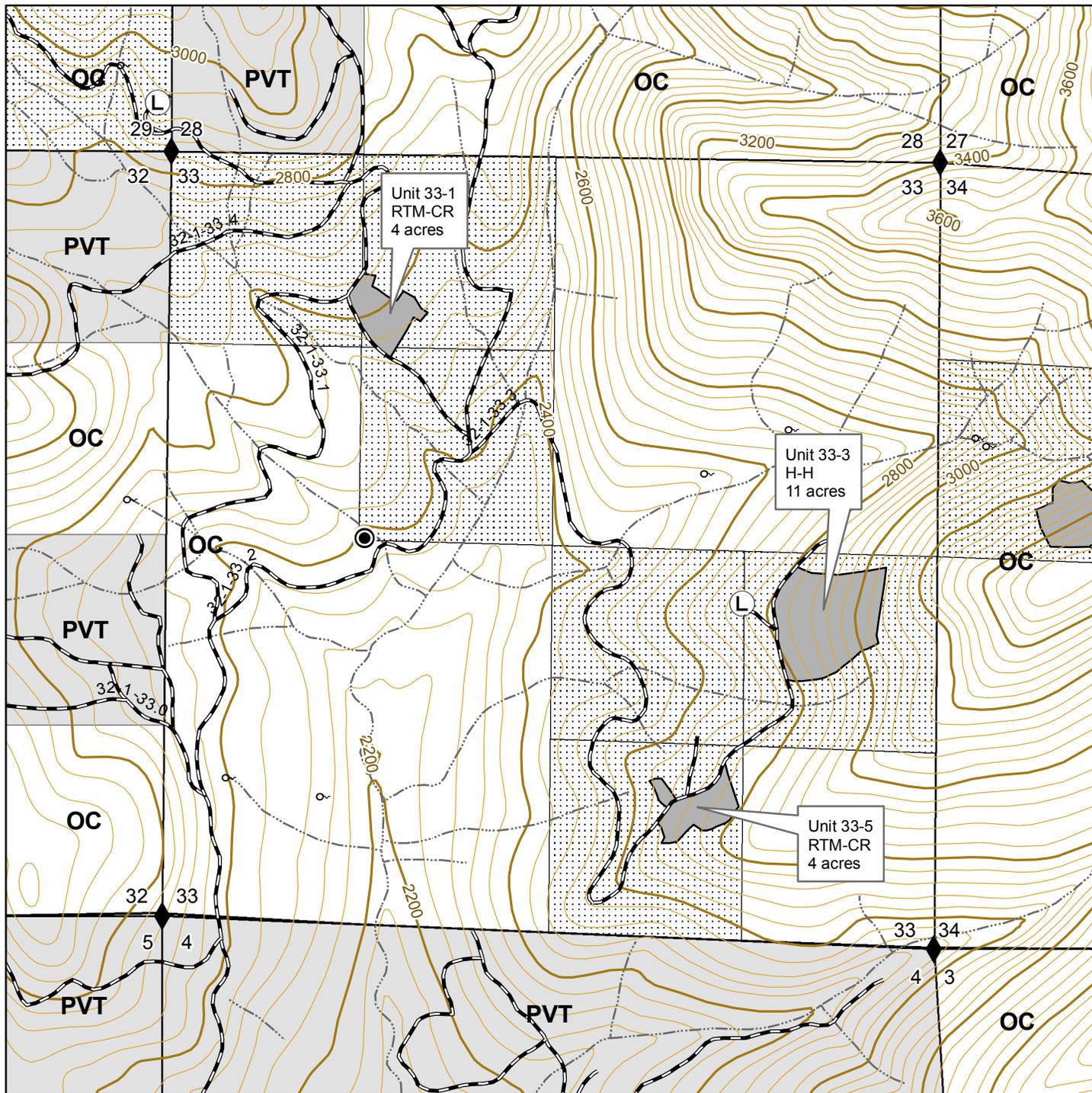


Medford District BLM  
 July 2014

1 inch = 1,000 feet  
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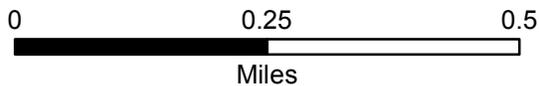


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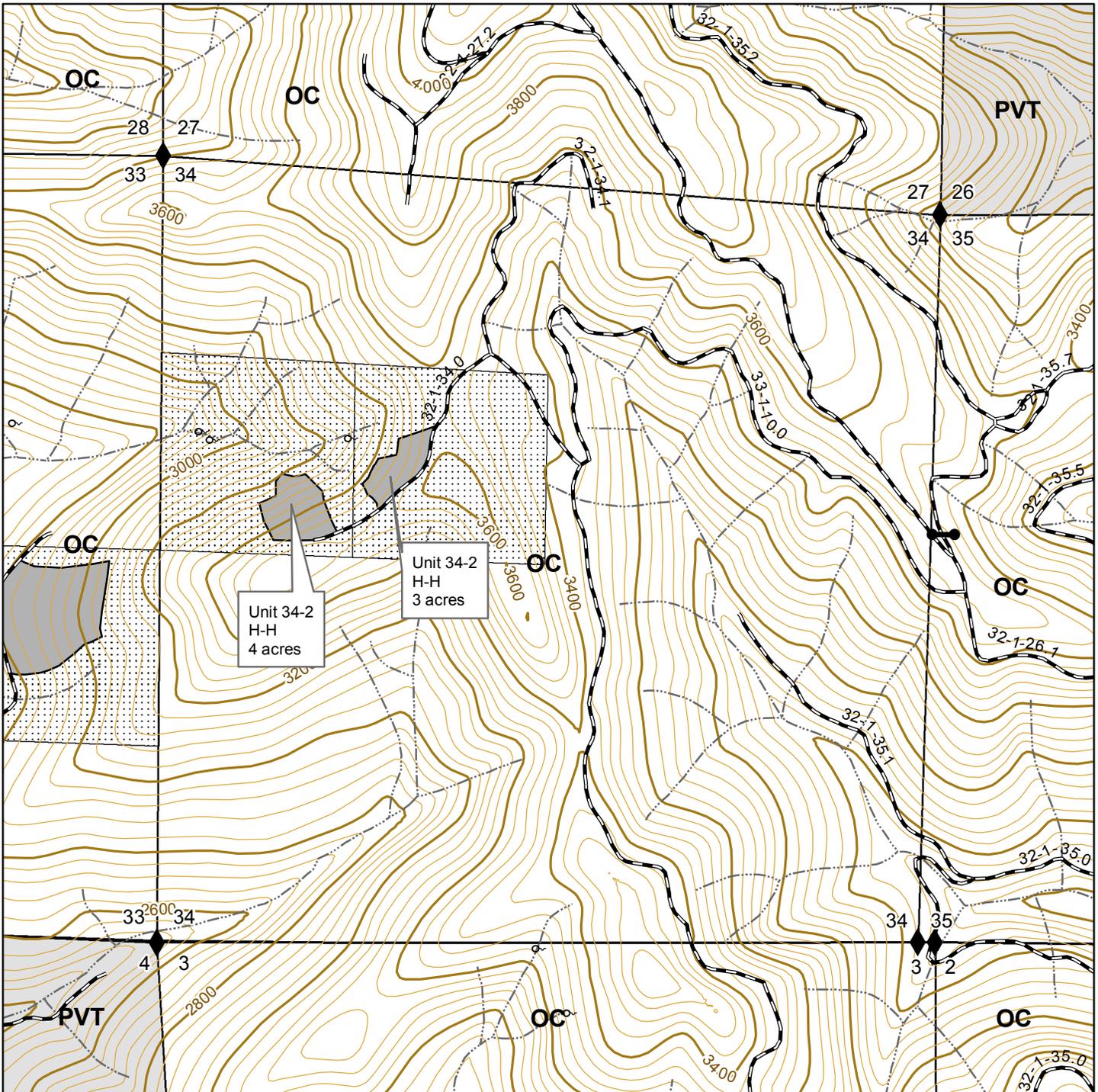


Medford District BLM  
July 2014

1 inch = 1,000 feet  
Contours = 40 feet



No warranty is made by the Bureau of Land Management as to the accuracy, reliability, or completeness of these data for individual or aggregate use with other data. Original data were compiled from various sources. This information may not meet National Map Accuracy Standards. This product was developed through digital means and may be updated without notification.

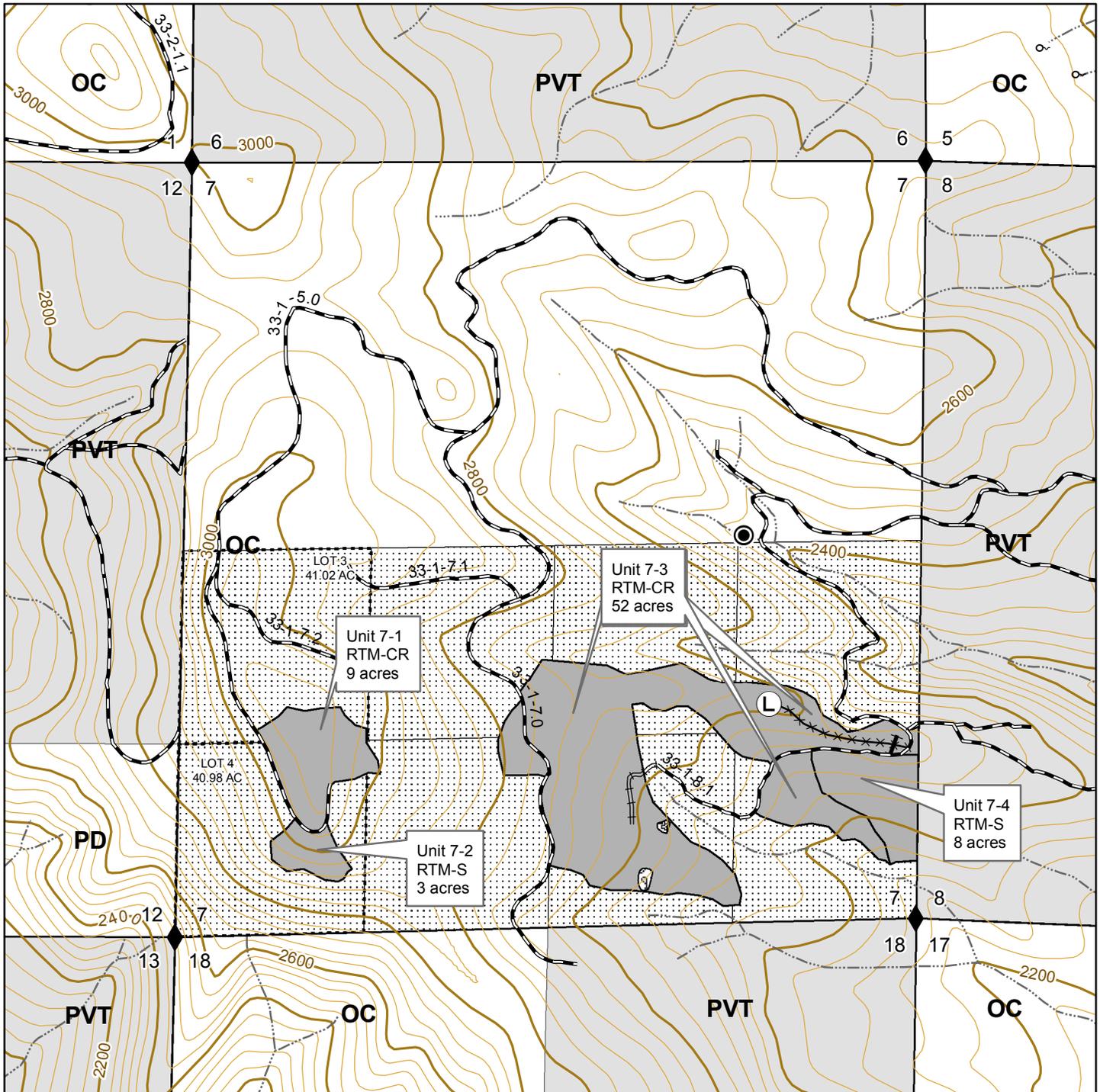


Medford District BLM  
 July 2014

1 inch = 1,000 feet  
 Contours = 40 feet



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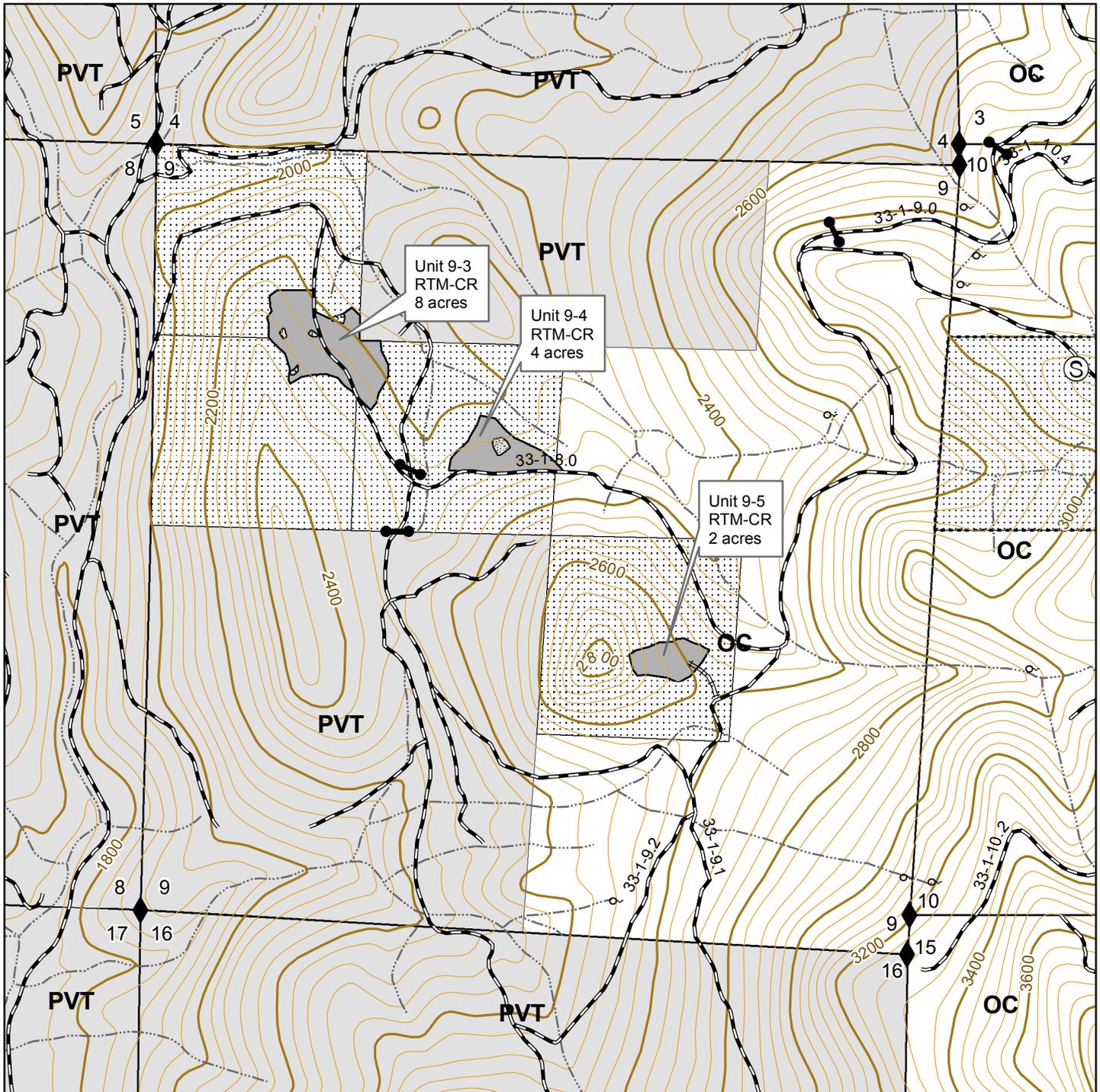


Medford District BLM  
 July 2014

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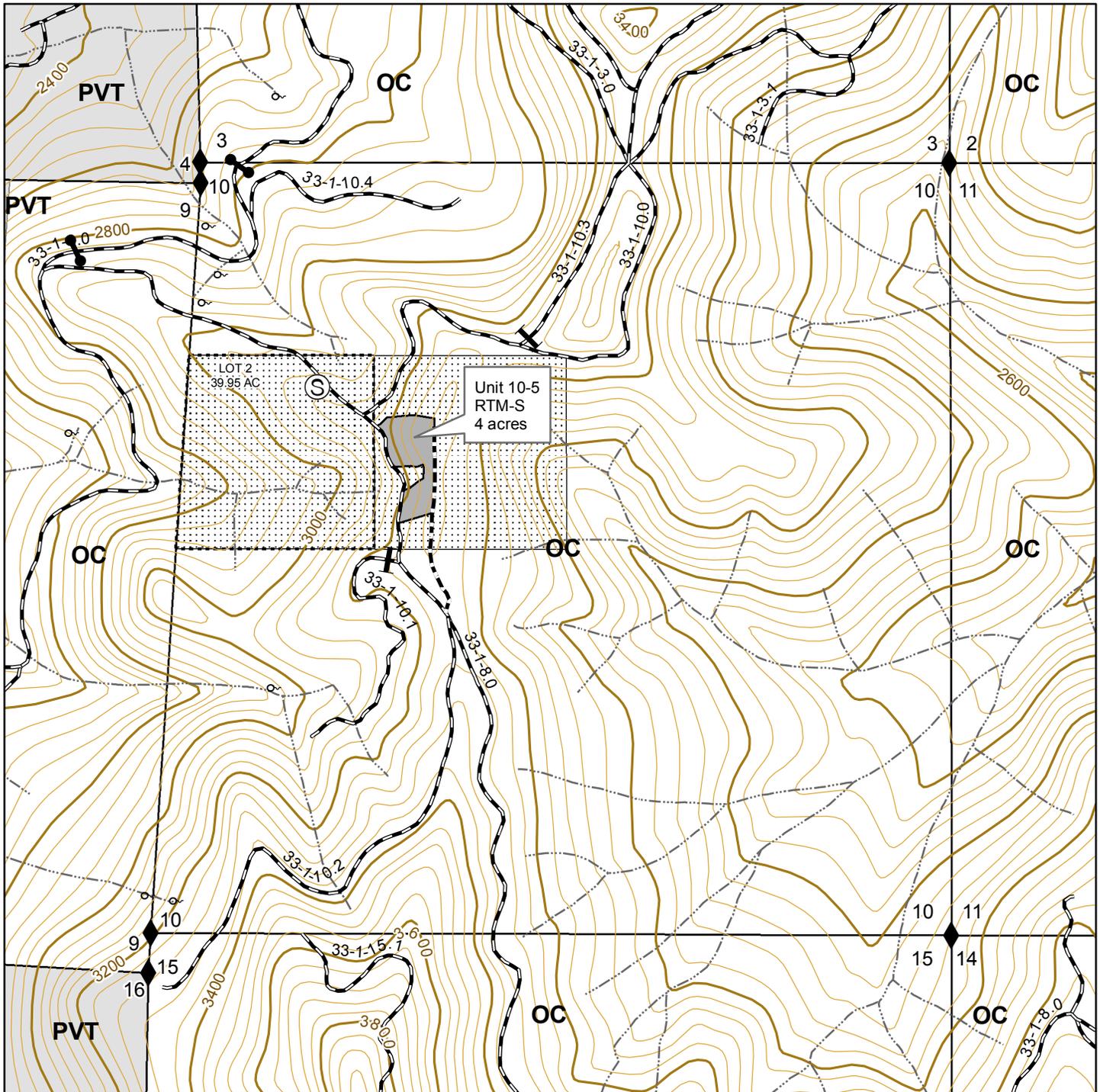


Medford District BLM  
July 2014

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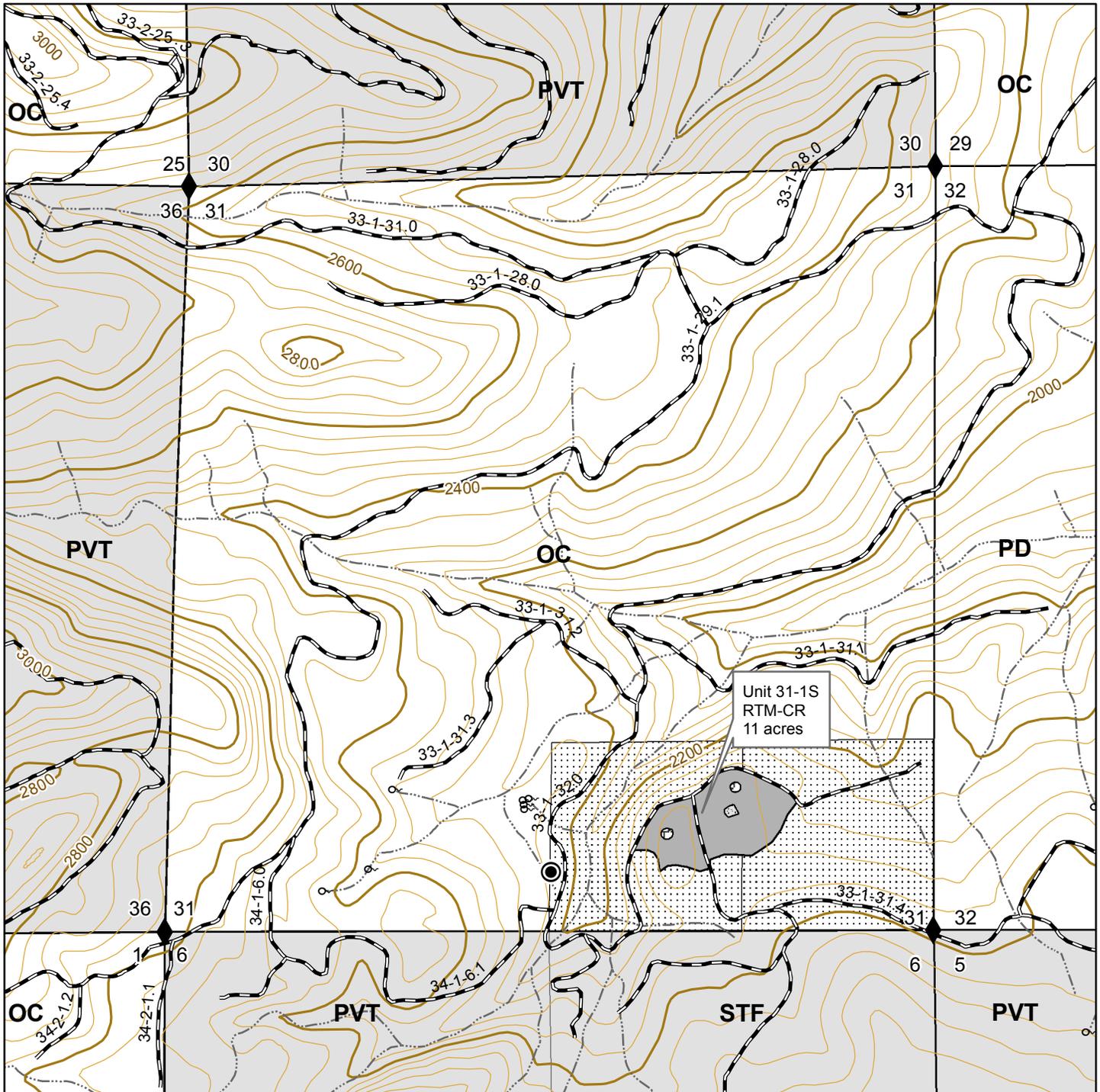


Medford District BLM  
 July 2014

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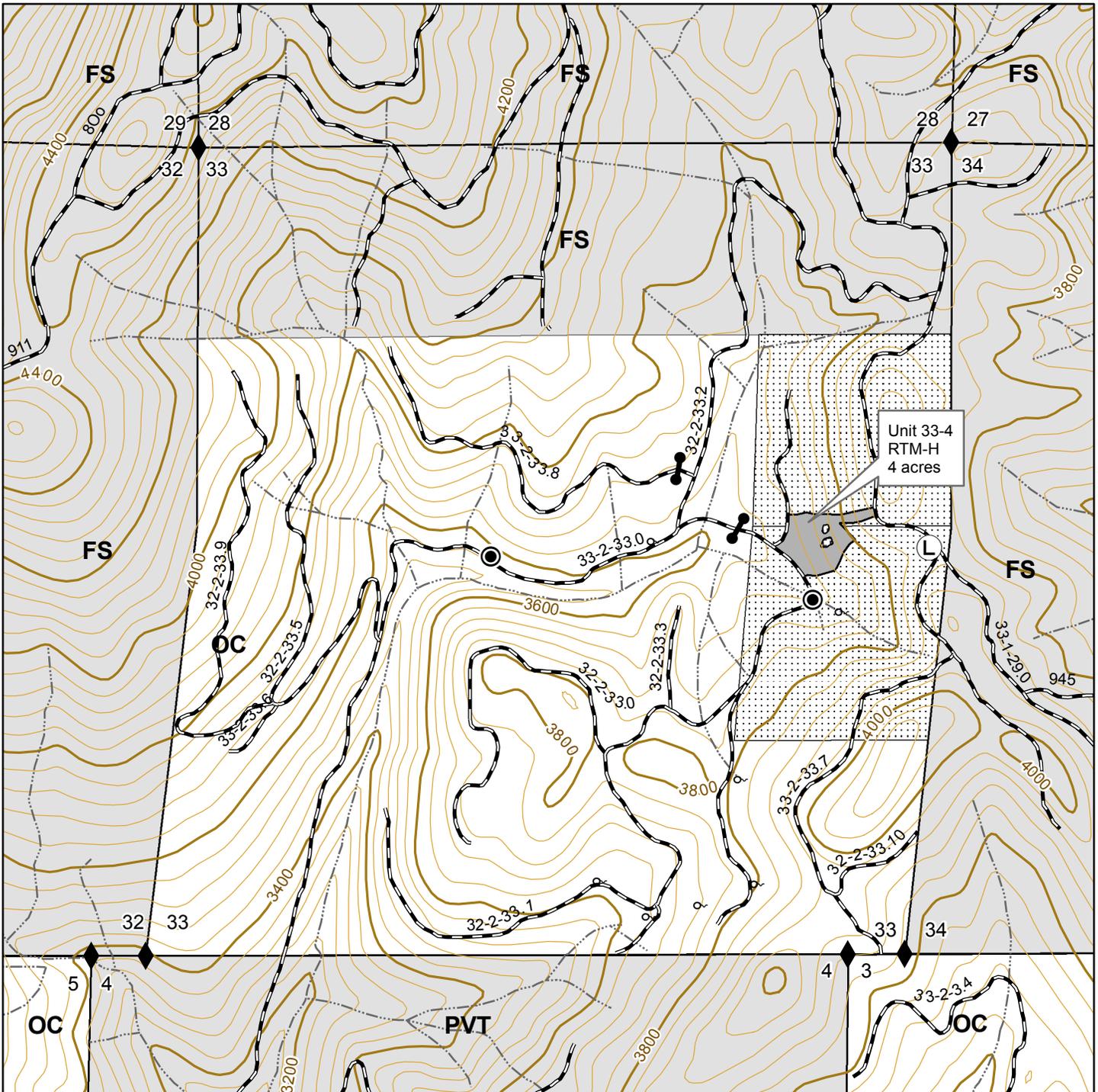


Medford District BLM  
 July 2014

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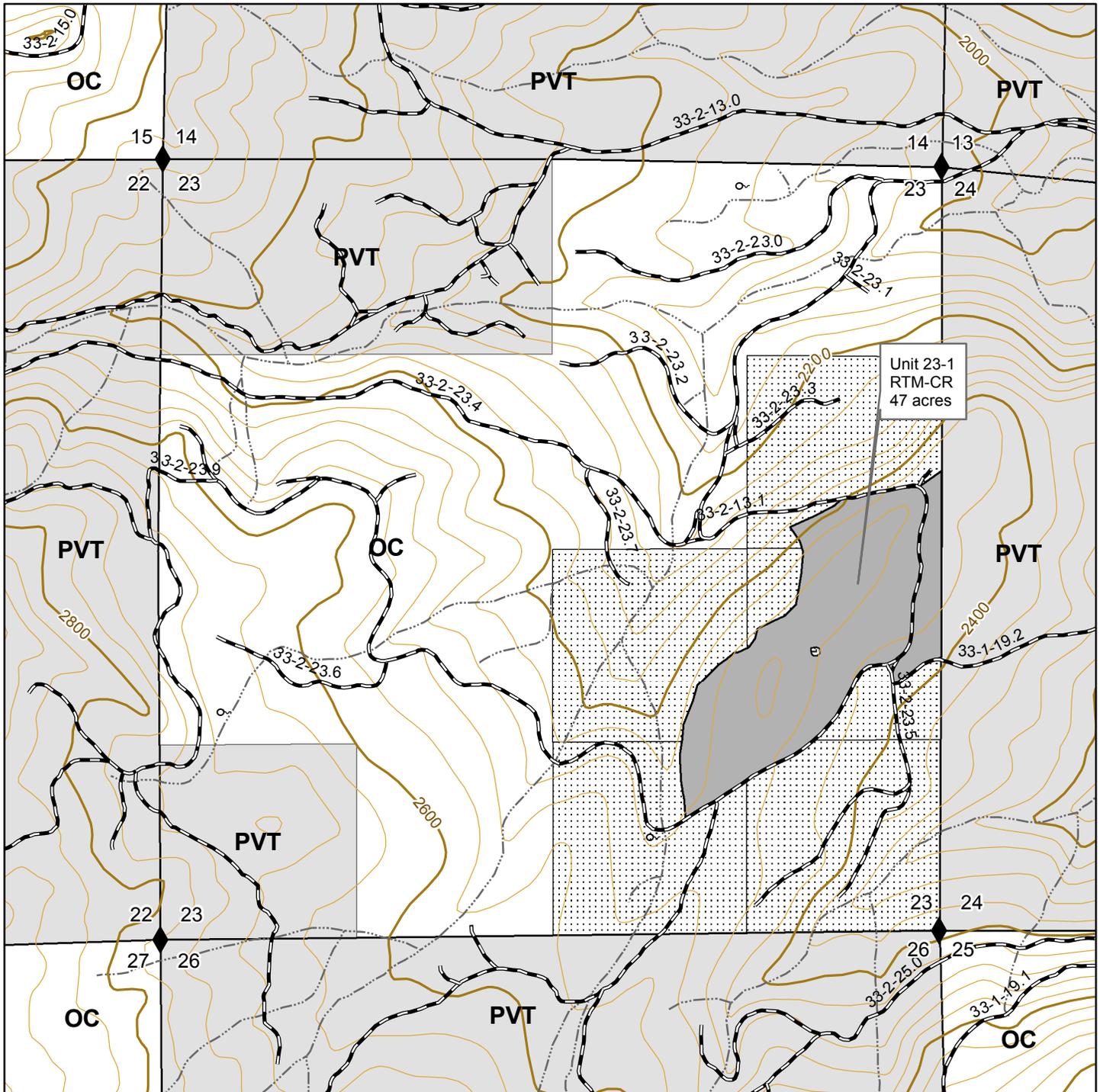
Medford District BLM  
 July 2014

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 Contours = 40 feet



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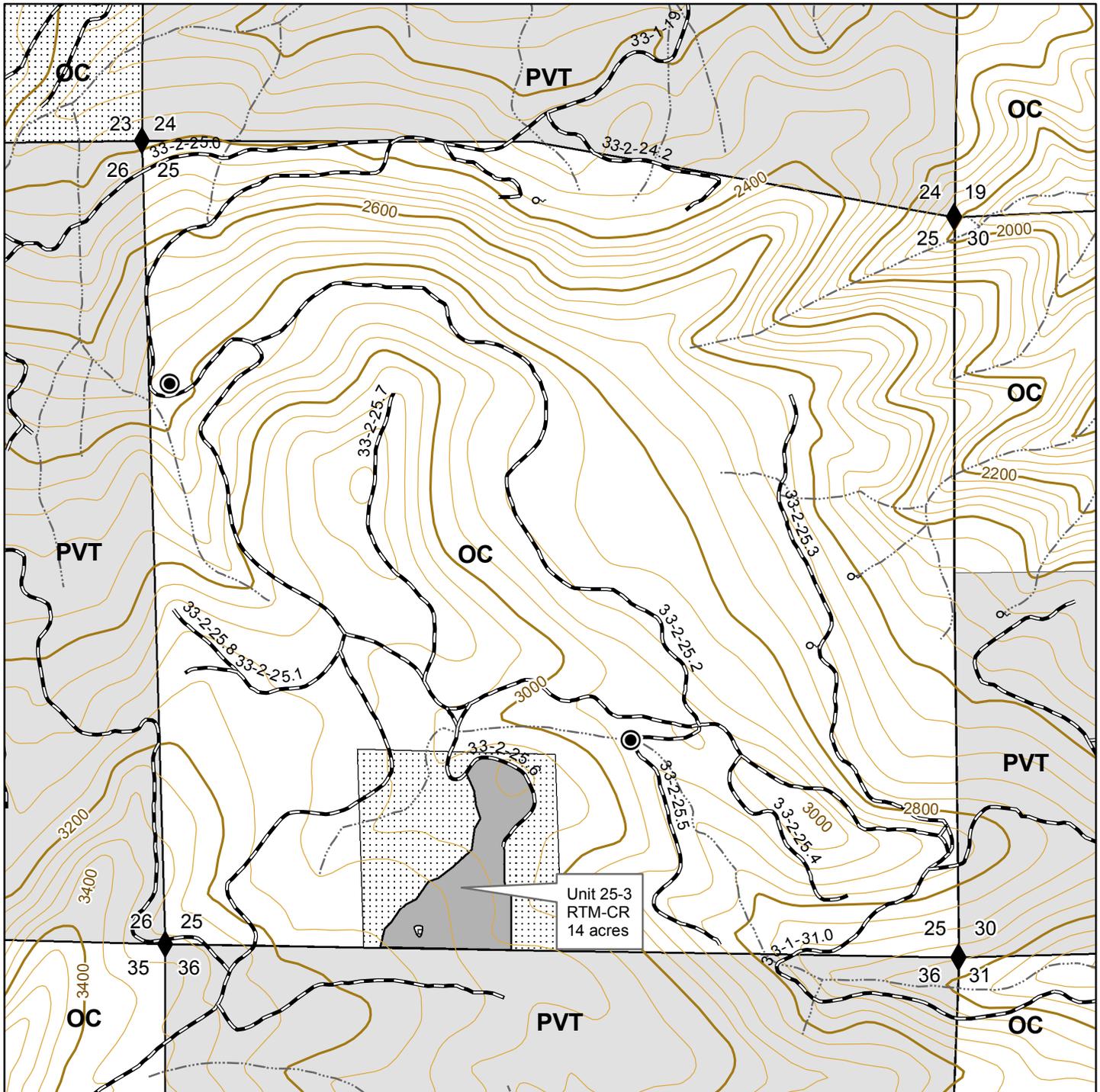


Medford District BLM  
 July 2014

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 Contours = 40 feet



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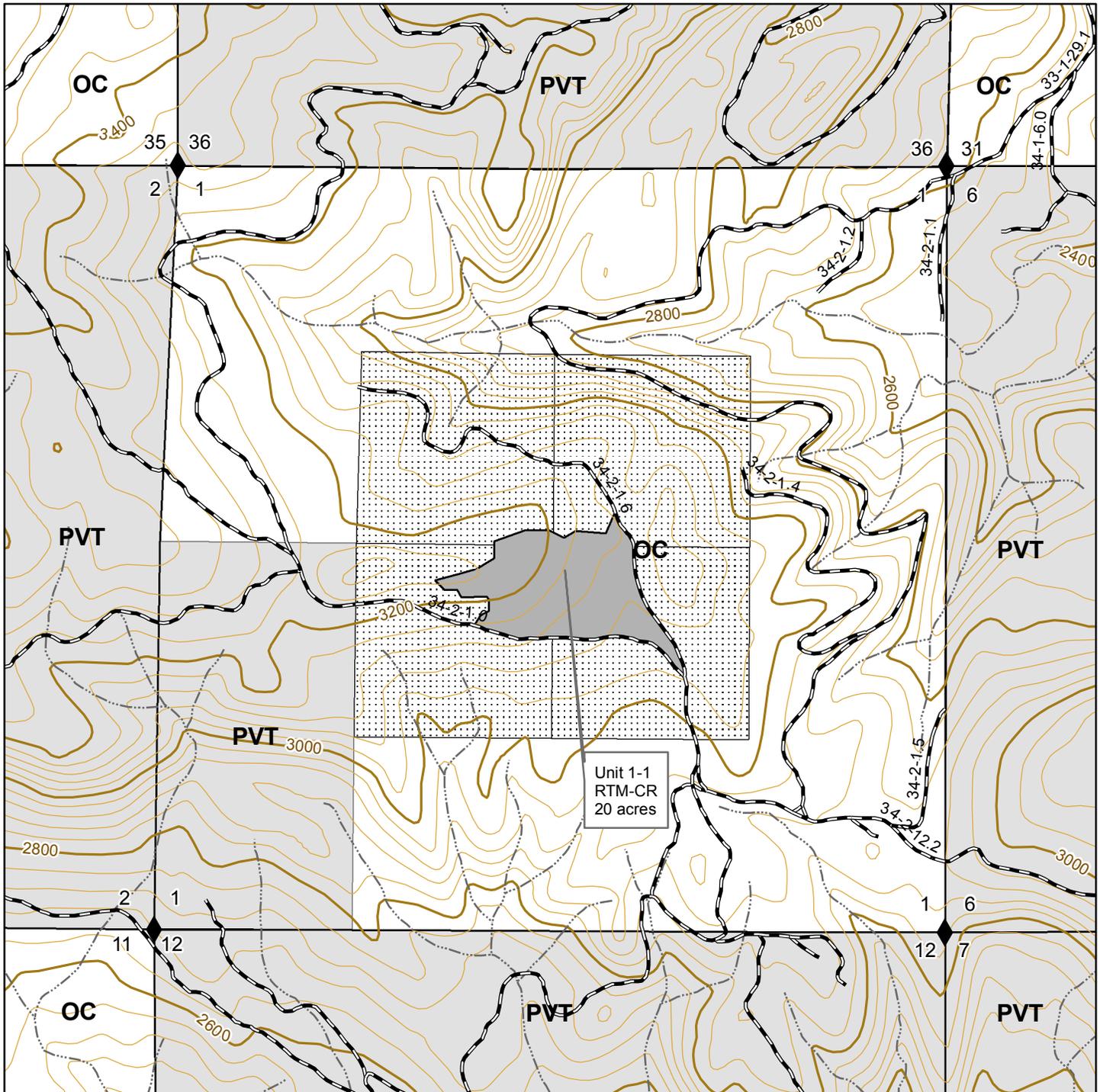


Medford District BLM  
 July 2014

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Medford District BLM  
 July 2014

1 inch = 1,000 feet  
 Contours = 40 feet



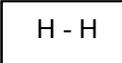
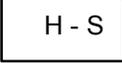
No warranty is made by the Bureau of Land Management as to the accuracy, reliability, or completeness of these data for individual or aggregate use with other data. Original data were compiled from various sources. This information may not meet National Map Accuracy Standards. This product was developed through digital means and may be updated without notification.

U.S.D.I. BLM MEDFORD DISTRICT SALE NO. 14-09  
 T. 32S. R. 1W., SEC 19,21,27,28,29,30,31,33,34, WILL. MER.  
 T. 33S. R. 1W., SEC 7,9,10,31, WILL. MER.  
 T. 32S. R. 2W., SEC 33, WILL. MER.  
 T. 33S. R. 2W., SEC 3,23,25, WILL. MER.  
 T. 34S. R. 2W., SEC 1, WILL. MER.  
 MOUSE TRAIL TIMBER SALE

TIMBER SALE CONTRACT MAP  
 CONTRACT NO. ORM05 -TS14-09  
 EXHIBIT A  
 PAGE 18 OF 19

## Legend

 Heli-Const	 Boundary of Cutting Area
 LOG	 Boundary of Special Yarding Area
 SERVICE	 Reserve Area
 FUEL	 Mollusk Site
 Found Corner	 Plant Site
 Spring	 Protected Site
 Quarry	 Government Lot
 Water Source	 Contract Area
 Gate, Existing	 BLM Administered Land
 Barricade, Existing	 Non-BLM Land
 Road	
 Road_Renovation	
 Road reconstruction	
 Temporary Spur Road	
 Pre Designated Skid	
 Stream	

	RESERVE TREE MARK (YELLOW PAINT) HELICOPTER LOG: UNIT 19-6
	RESERVE TREE MARK (YELLOW PAINT) SKYLINE LOG: UNITS: 7-2, 7-4, 10-5, 19-3, 19-7, 19-9, 21-2, 21-6, 29-7
	RESERVE TREE MARK (YELLOW PAINT) TRACTOR LOG: UNITS: 1-1, 7-1, 7-3, 9-3, 9-4, 9-5, 19-2, 19-4, 19-5, 19-10, 21-1, 23-1, 25-3, 29-1, 29-2, 29-3, 29-4, 29-5, 29-8, 29-9, 29-10, 31-1S, 31-10, 33-1,33-5
	HARVEST TREE MARK (BLUE PAINT) HELICOPTER LOG: UNITS: 3-1W, 3-4W, 3-10W, 21-3, 21-4, 21-5, 21-8, 21-10, 27-1, 30-2, 33-3, 33-4, 34-2
	HARVEST TREE MARK (BLUE PAINT) SKYLINE LOG: UNITS: 21-9, 28-1
	HARVEST TREE MARK (BLUE PAINT) TRACTOR LOG: UNITS: 3-2W, 30-3

U.S.D.I. BLM MEDFORD DISTRICT SALE NO. 14-08  
 T. 32S. R. 3W., SEC. 34, 35 WILL. MER.  
 T. 33S. R. 3W., SEC. 3, 4, 5, 9,17, 33 WILL. MER.  
 T. 33S. R. 4W., SEC. 23, WILL. MER.  
 T. 34S. R. 4W., SEC. 11, WILL. MER.  
 T. 35S. R. 3W., SEC. 1, 3, 7, 9, 10, WILL. MER.

TIMBER SALE CONTRACT MAP  
 CONTRACT NO. ORM05-TS14-08  
 EXHIBIT A  
 PAGE 19 OF 19

Section Number	Unit Number	Unit Acres	Reserve Acres	Contract Acres
19	19-2, 19-3, 19-4, 19-5, 19-6, 19-7, 19-9, 19-10	44	160.47	204.47
21	21-1, 21-2, 21-3, 21-4 21-5, 21-6, 21-8, 21-9, 21-10	67	493	560
28	28-1	3	37	40
27	27-1,	24	136	160
29	29-1, 29-2, 29-3, 29-4, 29-5, 29-7, 29-8, 29-9, 29-10	62	418	480
30	30-2, 30-3,	7	97.93	104.93
31	31-10	27	53	80
33	33-1, 33-3, 33-5,	19	221	240
33	33-4	4	76	80
34	34-2,	7	73	80
7	7-1, 7-2, 7-3, 7-4,	72	250	322
9	9-3, 9-4, 9-5,	14	146	160
10	10-5	4	76	80
31	31-1S	11	69	80
3	3-1W, 3-2W, 3-4W, 3-10W	31	167.2	198.2
23	23-1	47	153	200
25	25-3	14	26	40
1	1-1	20	140	160
Totals		477	2792.6	3269.6



















**UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT**

Medford  
Mouse Trail  
ORM05-TS-14-09

**Unit 3-2W 3 Acres Value per Acre : \$0.00**

Species	Net Volume	Bid Price	Species Value
Douglas-fir	4		
Incense-cedar			
White Fir	8		
<b>Unit Totals</b>	<b>12</b>		

**Unit 33-1 4 Acres Value per Acre : \$0.00**

Species	Net Volume	Bid Price	Species Value
Douglas-fir	21		
Incense-cedar			
Ponderosa Pine			
<b>Unit Totals</b>	<b>21</b>		

**Unit 33-3 11 Acres Value per Acre : \$0.00**

Species	Net Volume	Bid Price	Species Value
Douglas-fir	88		
Incense-cedar			
Western Hemlock			
White Fir			
<b>Unit Totals</b>	<b>88</b>		

**Unit 33-4 4 Acres Value per Acre : \$0.00**

Species	Net Volume	Bid Price	Species Value
Douglas-fir	6		
Incense-cedar			
White Fir	15		
<b>Unit Totals</b>	<b>21</b>		

**Unit 33-5 4 Acres Value per Acre : \$0.00**

Species	Net Volume	Bid Price	Species Value
Douglas-fir	18		
Incense-cedar	1		
<b>Unit Totals</b>	<b>19</b>		

**Unit 34-2 7 Acres Value per Acre : \$0.00**

Species	Net Volume	Bid Price	Species Value
Douglas-fir	37		
<b>Unit Totals</b>	<b>37</b>		

**UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT**

Medford  
Mouse Trail  
ORM05-TS-14-09

**Unit 3-4W 20 Acres Value per Acre : \$0.00**

Species	Net Volume	Bid Price	Species Value
Douglas-fir	54		
Incense-cedar			
White Fir	43		
<b>Unit Totals</b>	<b>97</b>		

**Unit 7-1 9 Acres Value per Acre : \$0.00**

Species	Net Volume	Bid Price	Species Value
Douglas-fir	39		
Incense-cedar	1		
Ponderosa Pine			
White Fir	11		
<b>Unit Totals</b>	<b>51</b>		

**Unit 7-2 3 Acres Value per Acre : \$0.00**

Species	Net Volume	Bid Price	Species Value
Douglas-fir	20		
Incense-cedar			
Ponderosa Pine	2		
Sugar Pine	1		
<b>Unit Totals</b>	<b>23</b>		

**Unit 7-3 52 Acres Value per Acre : \$0.00**

Species	Net Volume	Bid Price	Species Value
Douglas-fir	276		
Incense-cedar	6		
Ponderosa Pine	7		
Sugar Pine	2		
White Fir	9		
<b>Unit Totals</b>	<b>300</b>		

**Unit 7-4 8 Acres Value per Acre : \$0.00**

Species	Net Volume	Bid Price	Species Value
Douglas-fir	53		
Incense-cedar			
Ponderosa Pine	1		
<b>Unit Totals</b>	<b>54</b>		



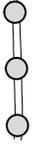




# EXHIBIT C2

## SHEET 1 OF 4

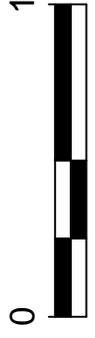
MOUSE TRAIL  
TIMBER SALE  
TRACT NO. ORM050-TS-2014.0009

-  BLM OWNERSHIP
-  T.S. UNITS
-  BST ROAD
-  ROCKED ROAD
-  NATURAL SURFACE ROAD
-  PRIMITIVE ROUTE
-  ROAD TO BE RENOVATED AND BRUSHED
-  ROAD TO BE RENOVATED AND SPOT ROCKED
-  EXISTING HELICOPTER LANDING
-  CONSTRUCT HELICOPTER LANDING
-  STOCKPILE SITE

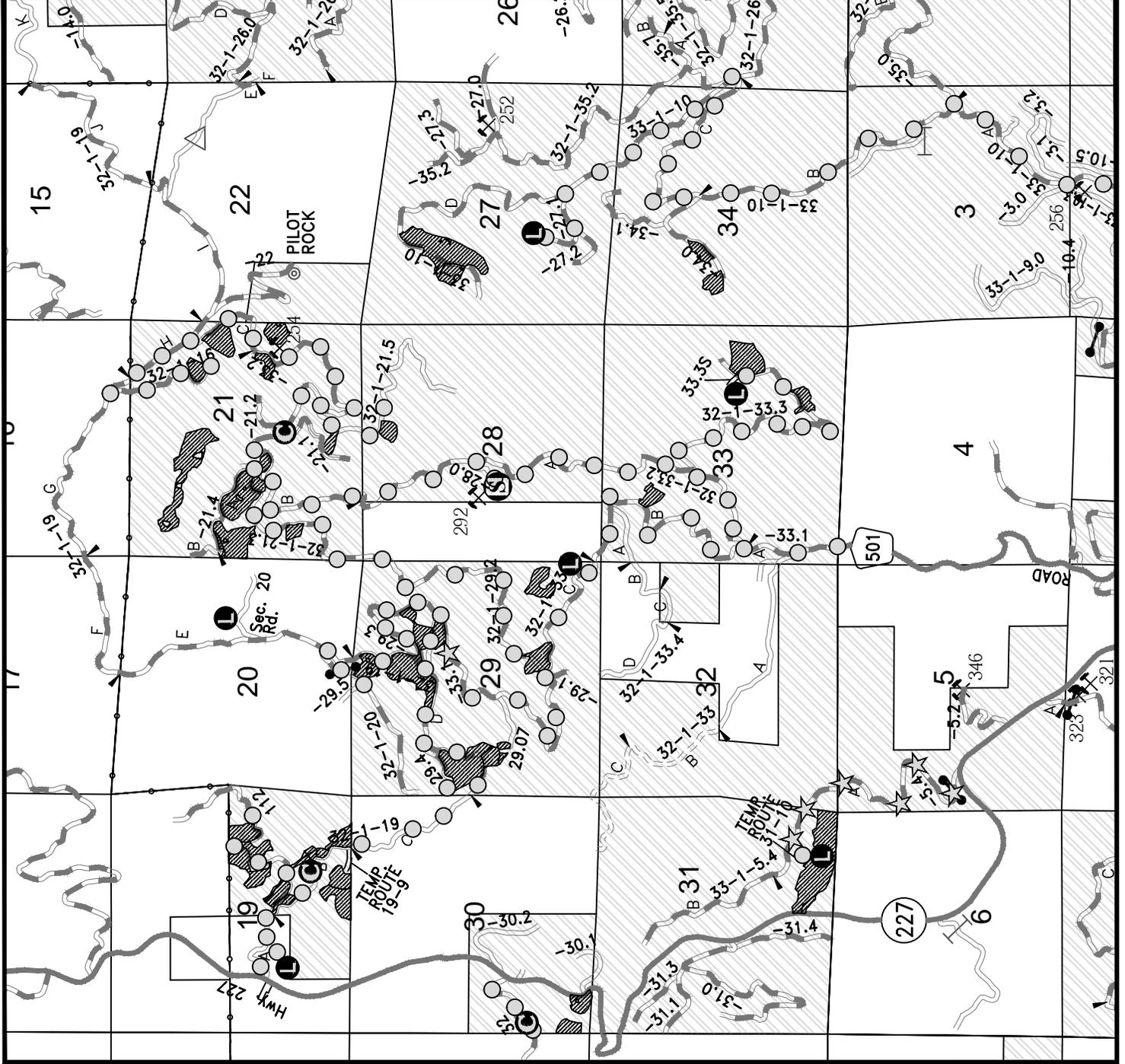
U.S.D.I. BLM MEDFORD DISTRICT

T.32S., R.1W. WILL. MER.  
T.33S., R.1W. WILL. MER.

ALWAYS  
**THINK**  
SAFETY



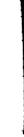
SCALE IN MILES



# EXHIBIT C2

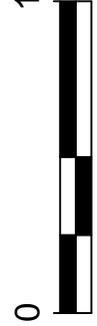
## SHEET 2 OF 4

MOUSE TRAIL  
TIMBER SALE  
TRACT NO. ORM050-TS-2014.0009

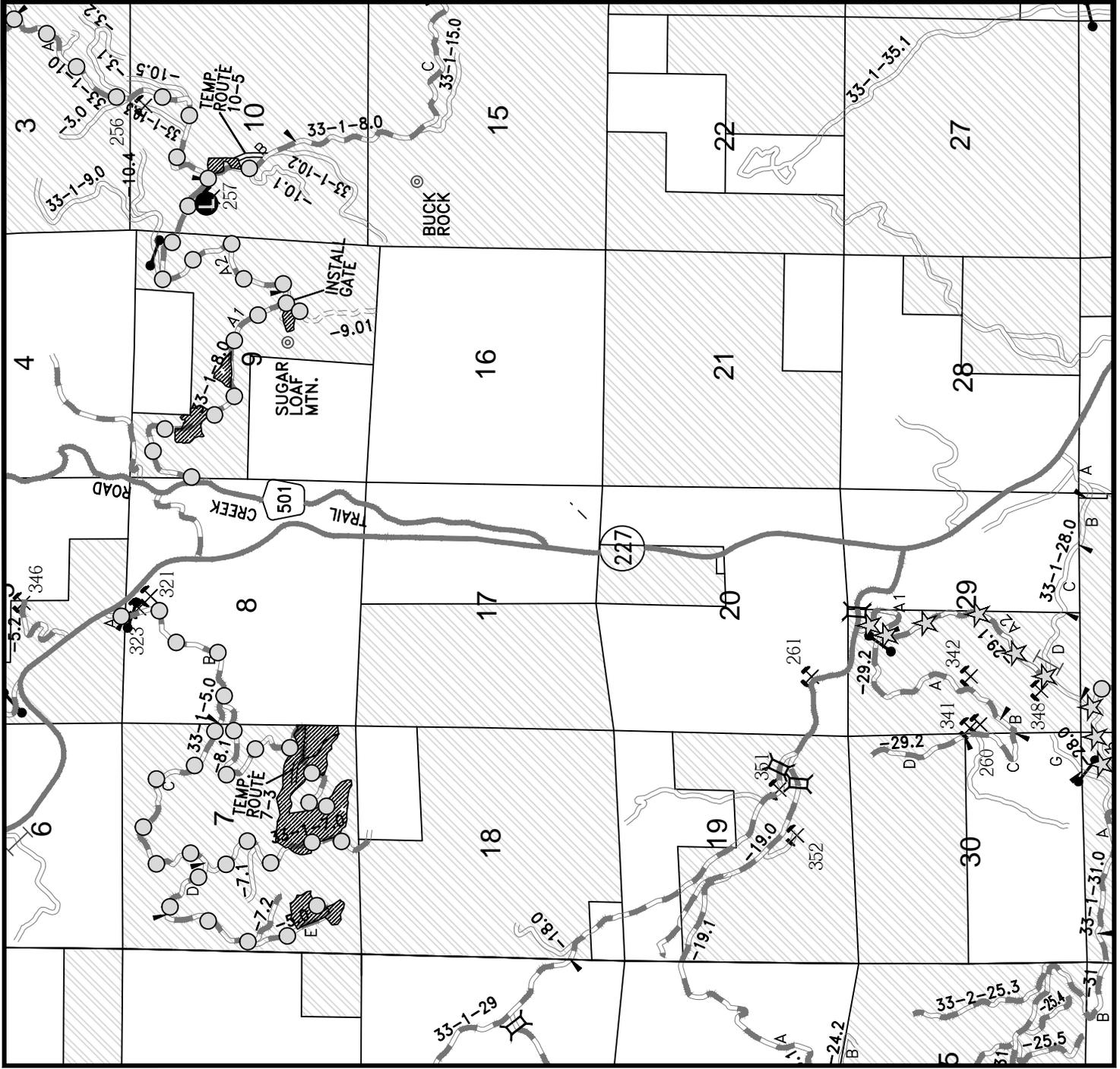
-  BLM OWNERSHIP
-  T.S. UNITS
-  BST ROAD
-  ROCKED ROAD
-  NATURAL SURFACE ROAD
-  PRIMITIVE ROUTE
-  ROAD TO BE RENOVATED AND BRUSHED
-  ROAD TO BE RENOVATED AND SPOT ROCKED
-  EXISTING HELICOPTER LANDING
-  CONSTRUCT HELICOPTER LANDING

U.S.D.I. BLM MEDFORD DISTRICT  
T.32S., R.1W. WILL. MER.

ALWAYS  
**THINK**  
SAFETY

SCALE IN MILES



# EXHIBIT C2

## SHEET 3 OF 4

MOUSE TRAIL  
TIMBER SALE  
TRACT NO. ORM050-TS-2014.0009

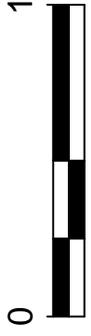
-  BLM OWNERSHIP
-  T.S. UNITS
-  BST ROAD
-  ROCKED ROAD
-  NATURAL SURFACE ROAD
-  PRIMITIVE ROUTE
-  ROAD TO BE RENOVATED AND BRUSHED
-  ROAD TO BE RENOVATED AND SPOT ROCKED
-  EXISTING HELICOPTER LANDING
-  CONSTRUCT HELICOPTER LANDING

U.S.D.I. BLM MEDFORD DISTRICT

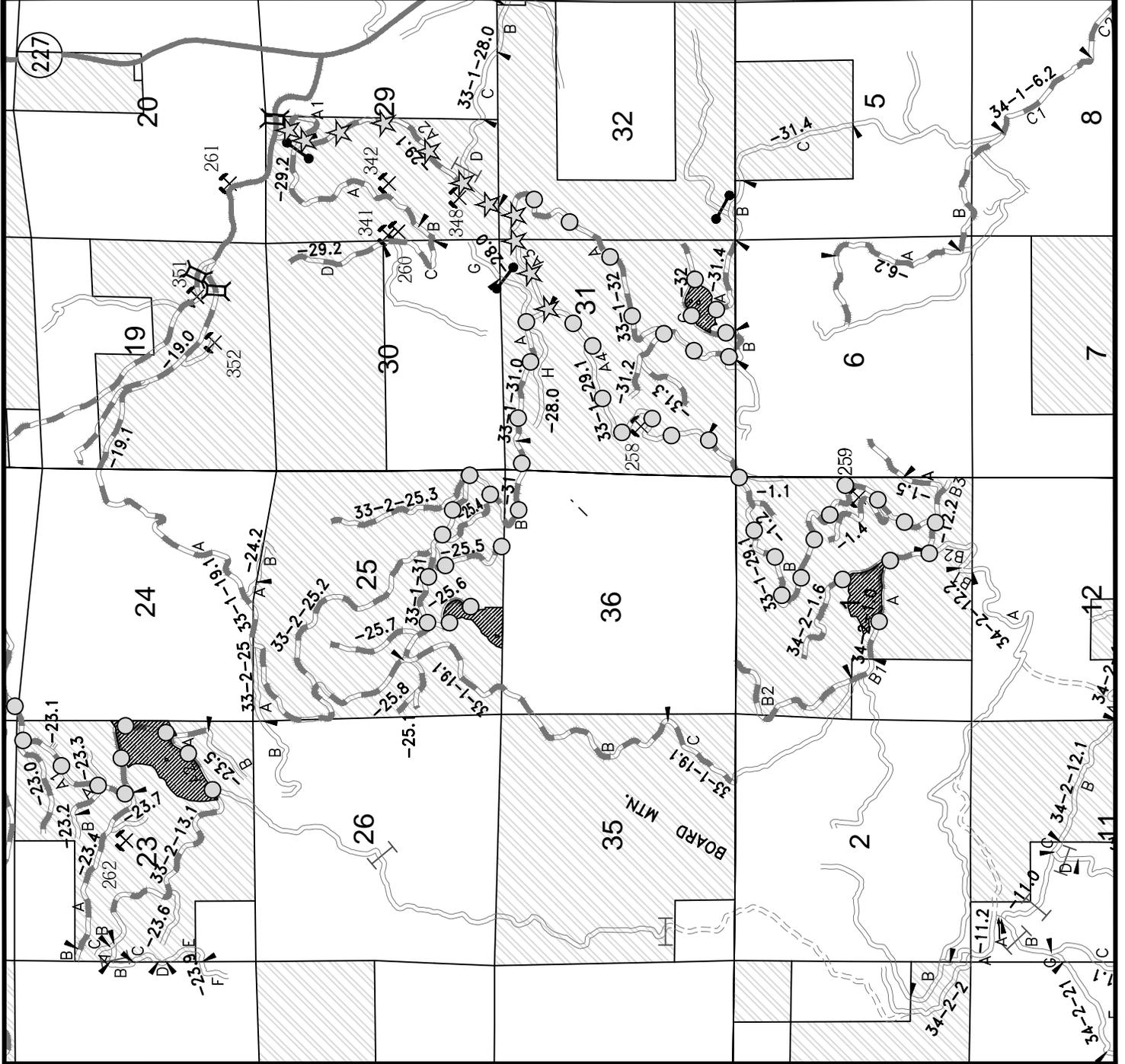
- T.33S., R.1W. WILL. MER.
- T.33S., R.2W. WILL. MER.
- T.34S., R.1W. WILL. MER.
- T.34S., R.2W. WILL. MER.

ALWAYS

**THINK**  
SAFETY



SCALE IN MILES











ROAD NUMBER	STATION OR MILE POST	TO STATION OR MILE POST	LENGTH OR MILE STATION	TYPICAL SECTION TYPE	ALIGNMENT MAXIMUM DEGREE OF CURVE	ROAD WIDTH (1-3)		GRADIENT		CLEARING WIDTH			SURFACING (4)				REMARKS	
						SUBGRADE	DITCH	MAXIMUM FAVORABLE	MAXIMUM ADVERSE	BEYOND		EXISTING (ROADS)		BASE COURSE		SURFACE COURSE		
										TOP CUT	TOE FILL	L	R	MINIMUM WIDTH	COMP. DEPTH	MINIMUM WIDTH		COMP. WIDTH
FS 32	0.00	0.38	0.38	5		14	3			4	4							
FS 112	0.00	0.91	0.91	5		14	3			4	4							
32-1W-16.00	0.00	0.63	0.63	5		12	3			4	4							
FS1632 / 32-1W-19.00-1	0.00	2.99	2.99	5		14	3			4	4							
FS1632 / 32-1W-19.00-3	5.39	5.84	0.45	5		14	3			4	4							
32-1W-19.02	0.00	0.17	0.17	3		12	0			4	4							
32-1W-20.00	0.00	0.25	0.25	3		14	3			4	4							
32-1W-21.00	2.27	2.40	0.13	3		14	3			4	4							
32-1W-21.03	1.20	2.27	1.07	5		14	3			4	4							
32-1W-21.05	0.00	0.71	0.71	5		12	3			4	4							
32-1W-27.01	0.00	0.38	0.38	5		12	3			4	4							
32-1W-29.02	0.00	1.20	1.20	5		16	3			4	4							
32-1W-29.03	0.00	0.76	0.76	5		14	3			4	4							
32-1W-29.04	0.00	0.26	0.26	3		12	0			4	4							
32-1W-29.06	0.00	0.06	0.06	3		12	0			4	4							
32-1W-29.07	0.00	0.44	0.44	3		12	0			4	4							
32-1W-33.01	0.00	3.96	3.96	5		16	3			4	4							
32-1W-33.02	0.00	5.04	5.04	5		16	3			4	4							
32-1W-33.03	0.00	1.53	1.53	5		14	3			4	4							
32-1W-33.03 S	0.00	0.04	0.04	3		14	0			4	4							

3. TURNOUTS: A. WIDTH TO BE IN ADDITION TO SUBGRADE WIDTH, OR AS SHOWN ON THE PLANS. B. LOCATED APPROXIMATELY AS SHOWN ON THE ROAD PLANS. C. INTERVISIBLE AND NOT MORE THAN \_\_\_\_\_ FT. APART.

4. SURFACING: TURNOUTS: CURVE WIDENING AND ROAD APPROACH APPROX. SHALL BE SURFACED. SEE SUBSECTION 2100

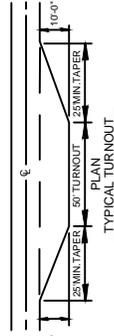
5. CLEARING WIDTH: SEE SUBSECTION 2100



REV. NO.	DESCRIPTION	DATE	APPROV.
	UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT MEDFORD DISTRICT MEDFORD, OREGON		

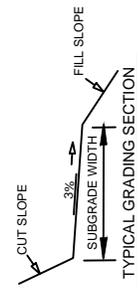
**SPECIFICATION SHEET**

DRAWN: LMK  
DATE: FEB 2014  
DRAWING NO. ORW05-TS-2014-0009-C4

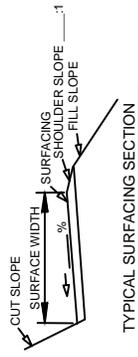


**NOTES**

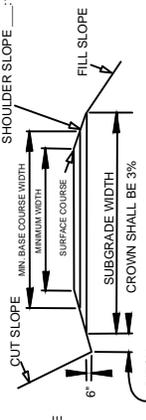
- EXTRA SUBGRADE WIDTHS: A. 12" FOR EACH SIDE OF TURNOUT FOR FILLS OF 18" FT. & 2 FT. FOR FILLS OVER 6 FT. WHEN THE INSIDE SHOULDER OF ALL CURVES AS FOLLOWS:  
1. 12" FOR CURVE OF 100 FT. OR MORE  
2. 22" FOR CURVE OF 75 FT. OR MORE  
3. 38" FOR CURVE OF 50 FT. OR MORE  
4. 56" FOR CURVE OF 25 FT. OR MORE
- SURFACING TYPE:  
A. FILL WITH ROCK MATERIAL  
B. GRID ROLLED ROCK MATERIAL  
C. SCREENED ROCK MATERIAL  
D. CRUSHED ROCK MATERIAL



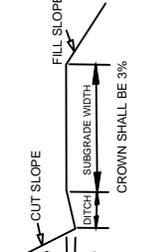
**TYPE 3**



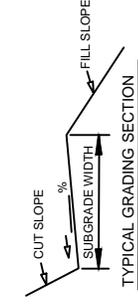
**TYPE 2**



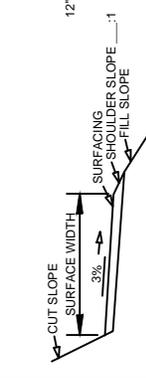
**TYPE 6**



**TYPE 5**



**TYPE 1**



**TYPE 4**

ROAD NUMBER	STATION OR OR MILE POST	TO STATION OR OR MILE POST	LENGTH MILE OR STATION	TYPICAL SECTION TYPE	ALIGNMENT		ROAD WIDTH (1-3)		GRADIENT		CLEARING WIDTH		SURFACING (4)				REMARKS
					MAXIMUM DEGREE OF CURVE	SUBGRADE	DITCH	MAXIMUM FAVORABLE	MAXIMUM ADVERSE	BEYOND TOE CUT	EXISTING ROAD(S)	MINIMUM WIDTH	COMP. DEPTH	TYPE (2)	MINIMUM WIDTH	COMP. WIDTH	
33-1W-5.00	0.00	3.24	3.24	5			14	3			L	4	4				
33-1W-5.04	0.00	1.25	1.25	3			14	3			L	4	4				
33-1W-7.00	0.00	0.76	0.76	3			14	3			L	4	4				
33-1W-8.00	0.00	2.95	2.95	5			16	3			L	4	4				
33-1W-8.01	0.00	1.36	1.36	5			14	3			L	4	4				
33-1W-9.01	0.00	0.11	0.11	3			14	0			L	4	4				
33-1W-10.00	0.00	4.75	4.75	5			16	3			L	4	4				
33-1W-29.00	0.00	6.25	6.25	5			16	3			L	4	4				
FS3232-945 / 33-1W-29.00FS	6.25	7.06	0.81	5			16	3			L	4	4				
33-1W-29.01	0.00	5.30	5.30	5			16	3			L	4	4				
33-1W-31.00	0.00	2.16	2.16	5			16	3			L	4	4				
33-1W-31.04	0.00	0.18	0.18	3			14	0			L	4	4				
33-1W-32.00	0.00	2.10	2.10	5			16	3			L	4	4				
33-2W-3.02	0.00	0.45	0.45	5			14	3			L	4	4				
33-2W-13.00	0.00	0.88	0.88	5			16	3			L	4	4				
33-2W-13.01	0.00	1.66	1.66	5			14	3			L	4	4				
33-2W-25.05	0.00	0.09	0.09	3			12	3			L	4	4				
33-2W-25.06	0.00	0.33	0.33	3			12	3			L	4	4				
34-2W-1.00	0.00	0.72	0.72	5			14	3			L	4	4				
34-2W-1.06	0.00	0.24	0.24	5			14	3			L	4	4				
34-2W-12.02	0.00	0.11	0.11	4			14	3			L	4	4				

**3. TURNOUTS**  
 A. WIDTH TOFT, IN ADDITION TO SUBGRADE WIDTH OR AS SHOWN ON PLAN.  
 B. LOCATED APPROXIMATELY AS SHOWN ON THE ROAD PLANS.  
 C. INTERVARIABLE AND NOT MORE THAN \_\_\_\_\_ FT. APART.

**4. SURFACING**  
 TURNOUTS TO BE CONSTRUCTIVE WIDENING AND ROAD APPROACH APRONS SHALL BE SURFACED.

**5. CLEARING MATERIAL**  
 SEE SUBSECTION 2100

**UNITED STATES DEPARTMENT OF THE INTERIOR**  
**BUREAU OF LAND MANAGEMENT MEDFORD DISTRICT**  
**MEDFORD, OREGON**

REV. NO. \_\_\_\_\_ DATE \_\_\_\_\_  
 DESCRIPTION \_\_\_\_\_ APPROV. \_\_\_\_\_

**SPECIFICATION SHEET**

DRAWN: LMK SCALE: NONE  
 DATE: FEB 2014 SHEET: 2 OF 2  
 DRAWING NO. ORM05-TS-2014-0005-C4

**TYPICAL GRADING SECTION TYPE 1**

**TYPICAL SURFACING SECTION TYPE 2**

**TYPICAL GRADING SECTION TYPE 3**

**TYPICAL SURFACING SECTION TYPE 4**

**TYPICAL GRADING SECTION TYPE 5**

**TYPICAL SURFACING SECTION TYPE 6**

**NOTES**

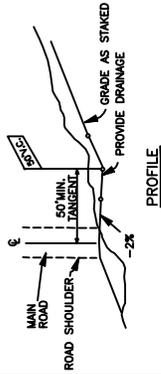
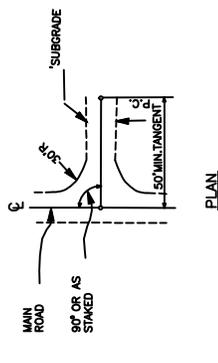
- EXTRA SUBGRADE WIDTHS ADD TO EACH FILL SHOULDER FT. FOR FILLS OF 1-6 FT. & 2 FT. FOR FILLS OVER 6 FT. WHEN THE INSIDE SHOULDER OF ALL CURVES IS TO BE CONSTRUCTED. WHEN THE DEGREE OF CURVE EQUALS 7-21 ADD 1 FT. 22-36 ADD 2 FT. 37-51 ADD 3 FT. 52-64 ADD 4 FT. 65-96 ADD 5 FT.

**MATERIALS** CUT SLOPES COMMON  
 SOFT ROCK & SHALE 1/2:1  
 SOLID ROCK 1:1  
 FILL BENCH CONSTRUCTION IS REQUIRED ON SIDE SLOPES EXCEEDING 60%  
 ANGLE OF REPOSE 1:1

**SURFACING TYPE**  
 A. CRUSHED ROCK MATERIAL  
 B. GRID ROLLED ROCK MATERIAL  
 C. SCREENED ROCK MATERIAL  
 D. CRUSHED ROCK MATERIAL

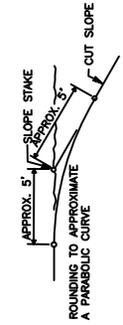
# EXHIBIT C-5 SHEET 1 OF 1

## TYPICAL ROAD APPROACHES

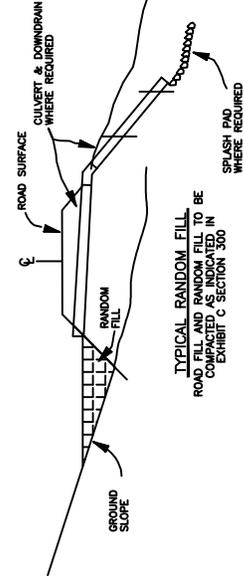


## TYPICAL SURFACING SECTION

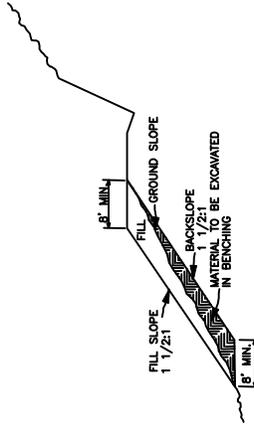
- NOTES:
- THE PROFILE OF EXISTING APPROACH ROADS SHALL BE TAPERED TO MEET THE SHOULDER LINE OF THE MAIN ROADWAY AND SHALL RECEIVE THE SAME WEARING SURFACE.
  - THE SAME GRAVITATION SHALL BE OF THE SAME GRAVITATION AS USED IN THE ADJACENT ROADBED.
  - APPROACHES SHALL BE FINISHED WITH THE SAME GRIT AS SHOWN FOR THE ADJACENT ROADBED.



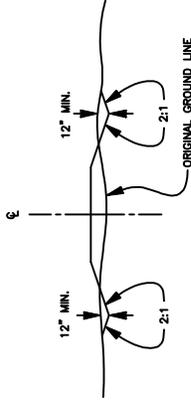
## CUT SLOPE ROUNDING



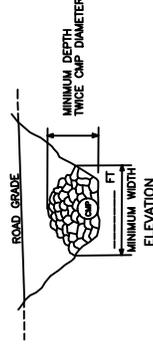
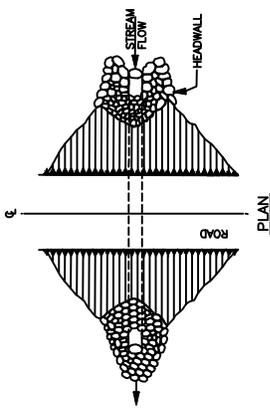
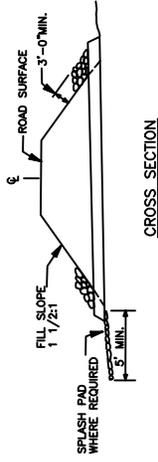
## TYPICAL RANDOM FILL ROAD FILL AND RANDOM FILL TO BE COMPACTED AS INDICATED IN EXHIBIT C SECTION 300



## TYPICAL ROAD SECTION FOR TURNPIKE CONSTRUCTION

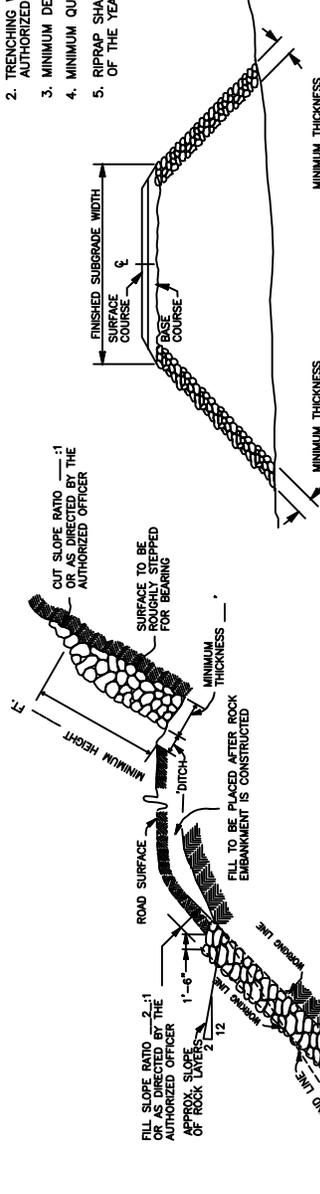


## TYPICAL ROAD SECTION FOR TURNPIKE CONSTRUCTION



## NOTES:

- ### RIPRAP AT CULVERTS
- RIPRAP SHALL BE PLACED IN SUCH A MANNER THAT IT WILL NOT DAMAGE THE CULVERT.
  - TRENCHING WILL BE DONE AS REQUIRED BY THE AUTHORIZED OFFICER.
  - MINIMUM DEPTH OF SPLASH PADS SHALL BE 1 FT.
  - MINIMUM QUANTITY IS STATED IN WORKLIST.
  - RIPRAP SHALL BE PLACED BEFORE OCTOBER FIRST OF THE YEAR THE CAP IS INSTALLED.



## ROCK BLANKETS AND STRUCTURE

SEE EXHIBIT C SECTION 1400

## SLOPE PROTECTION ROCK

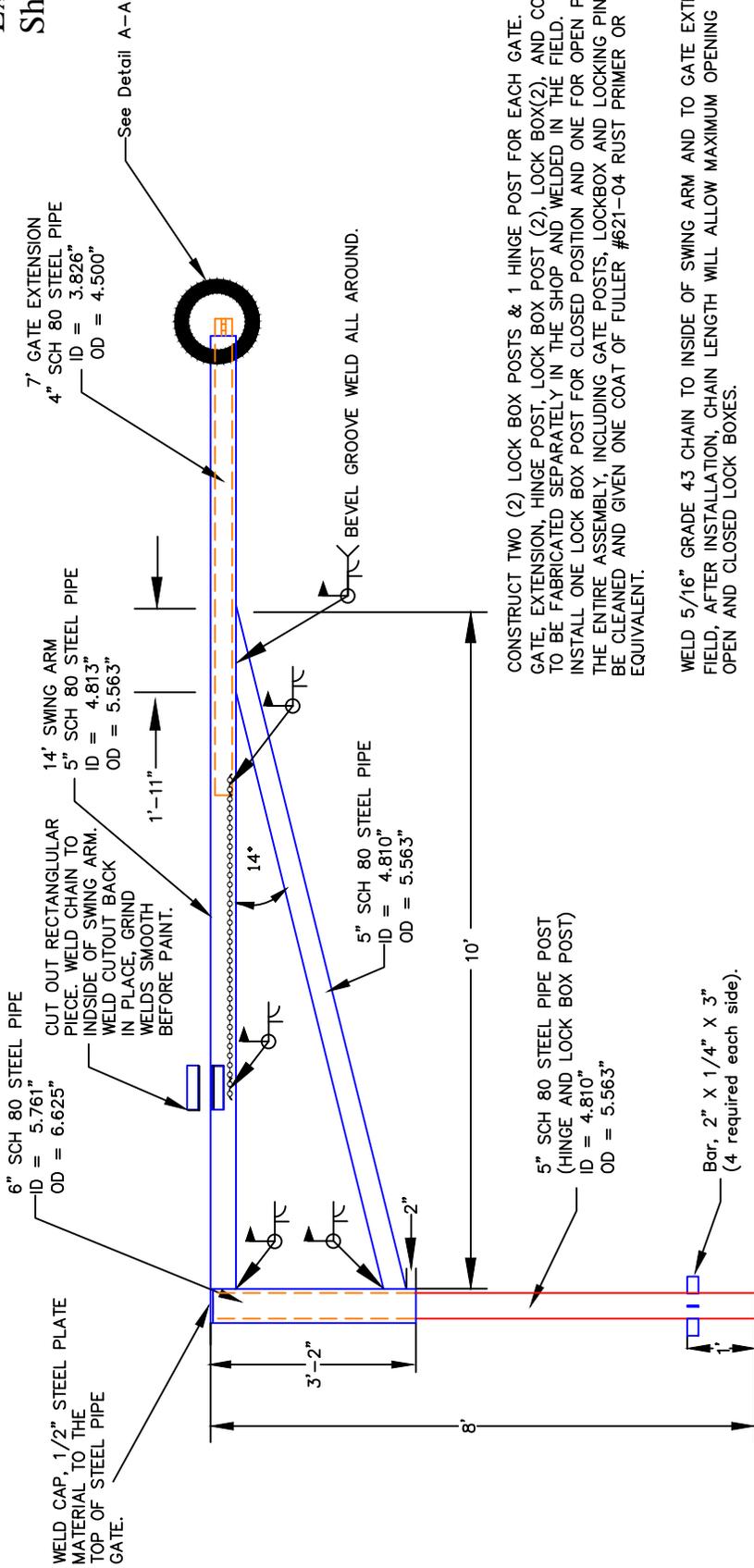
SEE EXHIBIT C SECTION 1400

ALWAYS THINK SAFETY

\* AS SHOWN IN RENOVATION WORKLIST.

REV. NO.	DESCRIPTION	DATE	APPROVED
	UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT MEDFORD DISTRICT MEDFORD, OREGON		
<b>TYPICAL ROAD DATA</b>			
DRAWN	BLM	SCALE	NONE
DATE	JULY 2013	SHEET	1 OF 1
DRAWING NO.	ORM05-TS-2014-0009-C5		

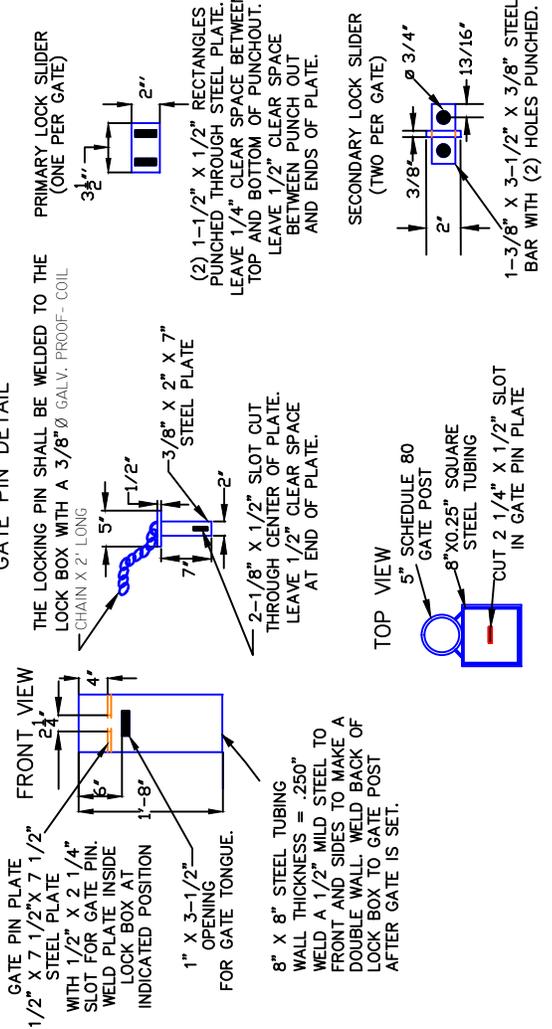
Exhibit C-6  
Sheet 1 of 2



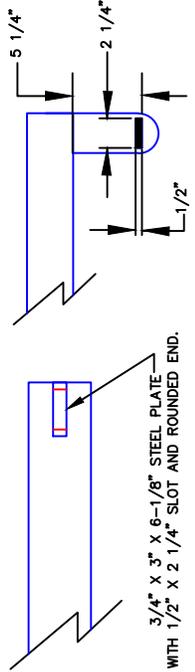
CONSTRUCT TWO (2) LOCK BOX POSTS & 1 HINGE POST FOR EACH GATE. GATE, EXTENSION, HINGE POST, LOCK BOX POST (2), LOCK BOX(2), AND COMPONENTS TO BE FABRICATED SEPARATELY IN THE SHOP AND WELDED IN THE FIELD. INSTALL ONE LOCK BOX POST FOR CLOSED POSITION AND ONE FOR OPEN POSITION THE ENTIRE ASSEMBLY, INCLUDING GATE POSTS, LOCKBOX AND LOCKING PIN SHALL BE CLEANED AND GIVEN ONE COAT OF FULLER #621-04 RUST PRIMER OR EQUIVALENT.

WELD 5/16" GRADE 43 CHAIN TO INSIDE OF SWING ARM AND TO GATE EXTENSION IN FIELD, AFTER INSTALLATION, CHAIN LENGTH WILL ALLOW MAXIMUM OPENING OF GATE FOR OPEN AND CLOSED LOCK BOXES.

GATE PIN DETAIL



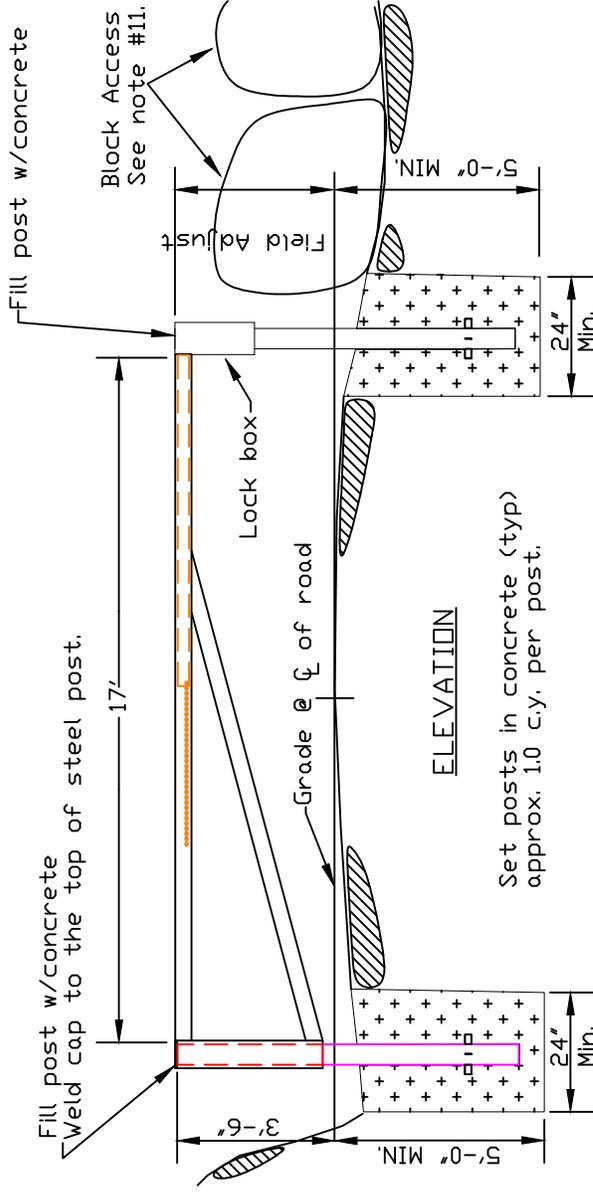
Detail A-A



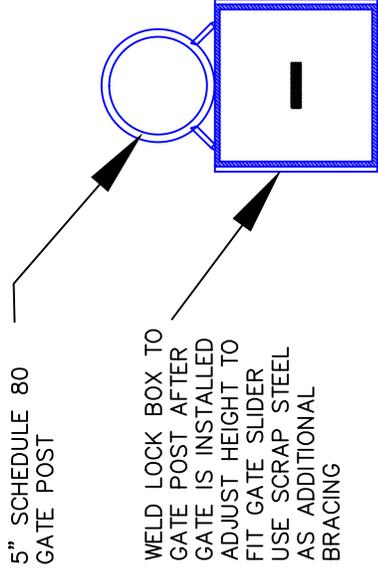
UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT MEDFORD DISTRICT Butte Falls Resource Area	
<b>STEEL PIPE MEGA GATE FABRICATION</b>	
DESIGNED	
REVIEWED	
APPROVED	
DRAWN BY:	SCALE: NONE
DATE: 6-2014	SHEET 1 OF 2
DRAWING NO. ORM05-TS-2014-0009-C6	

Exhibit C-6  
Sheet 2 of 2

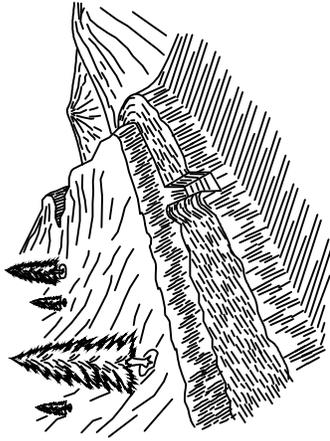
- NOTES:**
- CONTRACTORS SHALL FURNISH GATE, POSTS, LOCKBOX, LOCKING PINS, CHAIN, AND ALL MISCELLANEOUS HARDWARE.
  - PRIOR TO INSTALLATION, ANY BARE METAL SHALL BE CLEANED AND GIVEN ONE COAT OF FULLER O'BRIAN #621-04 RUST PRIMER OR EQUIVALENT.
  - PRIOR TO FIELD INSTALLATION, FINAL GATED LOCATION SHALL BE DETERMINED OR APPROVE BY THE GOVERNMENT.
  - POST HOLES WALLS SHALL BE NEAR VERTICAL AS SHOWN. CONSTRUCTION BY BACK HOE IS NOT PERMITTED.
  - GATE, POSTS AND LOCKBOXES SHALL BE INSTALLED AS SHOWN. POSTS SHALL BE SET PLUMB IN THE CONCRETE AND GATE SHALL HANG STRAIGHT AND LEVEL.
  - GATE UNIT SHALL BE INSTALLED WITH HINGED SECTION ON THE CUTSLOPE SIDE OF THE ROAD UNLESS OTHERWISE DIRECTED THE GOVERNMENT.
  - GATE SHALL BE INSTALLED TO OPEN IN THE DIRECTION SPECIFIED BY THE GOVERNMENT.
  - FIELD WELDS SHALL BE SLAGGED AND CLEANED.
  - CONCRETE SHALL BE 3000 PSI MINIMUM. CURE TIME: ALLOW CONCRETE TO CURE A MINIMUM OF 72 HOURS BEFORE PERFORMING OTHER WORK ON POSTS.
  - EXPOSED SURFACES OF CONCRETE SHALL BE CROWNED TO SHED WATER.
  - LARGE BOULDERS, PIT RUN ROCK BERMS, OR BARRICADE SHALL BE FURNISHED AND PLACED IF NECESSARY AT SIDES OF THE GATE TO PREVENT ACCESS BY MOTOR VEHICLES.
  - AFTER INSTALLATION IS COMPLETE, THE ENTIRE GATE ASSEMBLY, INCLUDING GATE, POSTS, LOCKBOXES AND PINS SHALL BE CLEANED AND GIVEN ONE FIELD COAT OF FULLER O'BRIAN #6112-32 HIGHWAY YELLOW HEAVY DUTY ENAMEL OR EQUIVALENT. PAINT SHALL BE APPLIED AS SPECIFIED BY THE MANUFACTURE.



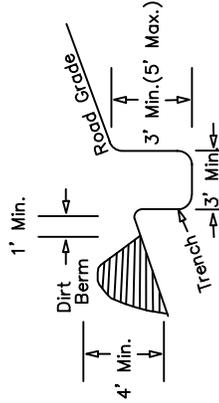
TOP VIEW



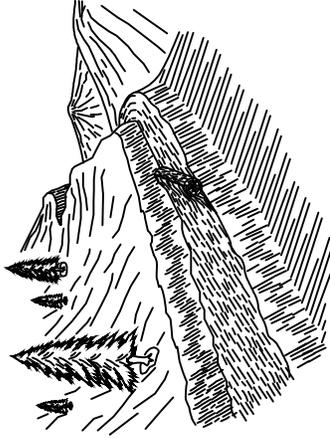
UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT	
MEDFORD DISTRICT	Butte Falls Resource Area
<b>STEEL PIPE MEGA GATE INSTALLATION</b>	
DESIGNED	
REVIEWED	
APPROVED	
DRAWN BY:	SCALE: NONE
DATE: 6-2014	SHEET 2 of 2
DRAWING NO. ORM05-TS-2014-0009-C6	



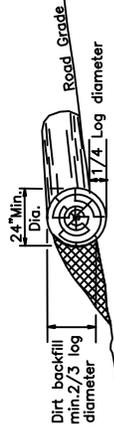
TRENCH BARRICADE



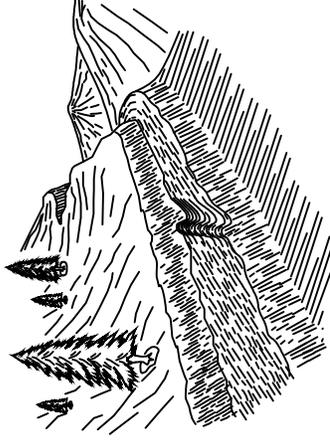
1. BARRICADE LENGTH SHALL EXTEND ACROSS THE ENTIRE ROAD SURFACE TO A POINT SUFFICIENT TO PROHIBIT MOTOR VEHICLE TRAFFIC.
2. THE EXACT LOCATION SHALL BE AS STAKED IN THE FIELD.
3. THE BARRICADE SHALL BE SKEWED AS NEEDED TO DRAIN OR AS DIRECTED BY THE AUTHORIZED OFFICERS REPRESENTATIVE.
4. A MINIMUM OF 1' IS OF LEVEL GROUND IS NEEDED BETWEEN TOE OF THE DIRT BERM AND THE EDGE OF THE TRENCH.



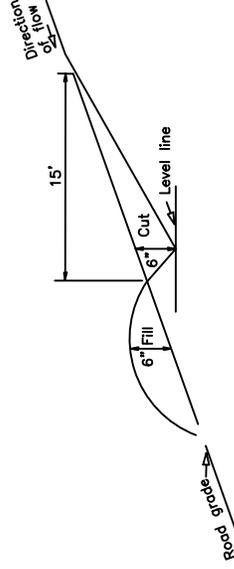
LOG BARRICADE



1. LOG BARRICADE SHALL BE CONSTRUCTED AS SHOWN ABOVE.
2. EXACT LOCATION WILL BE FLAGGED BY THE AUTHORIZED OFFICER PRIOR TO CONSTRUCTION.
3. ALL BARRICADES SHALL BE SKEWED 30 DEGREES.
4. THE LENGTH SHALL BE SUFFICIENT TO EXTEND FROM THE CUT BANK TO THE FILL SLOPE.
5. THE MINIMUM SMALL END DIAMETER OF THE LOG BARRICADE SHALL BE 24".

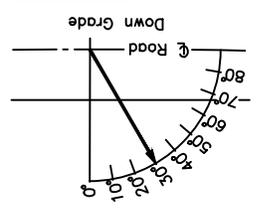


WATER BAR

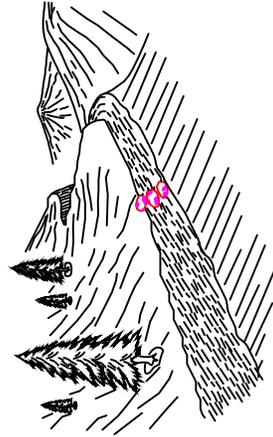


1. CROSS-DRAINS SHALL BE CONSTRUCTED AS SHOWN ABOVE.
2. EXACT LOCATION WILL BE FLAGGED BY THE AUTHORIZED OFFICER PRIOR TO CONSTRUCTION.
3. ALL CROSS DRAINS SHALL BE SKEWED 30 DEGREES.
4. THE CROSS-DRAINS INVERT SHALL BE SMOOTH AND FREE DRAINING.

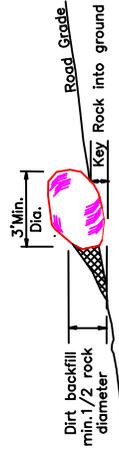
SKEW DIAGRAM



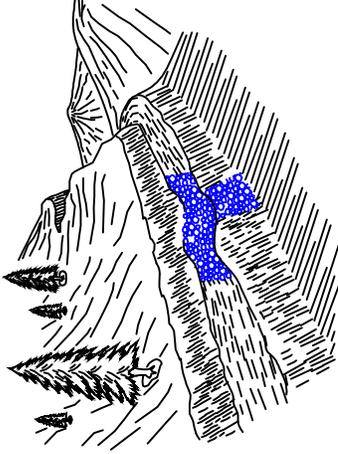
REV. NO.	DESCRIPTION	DATE	APPROV.
	UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT MEDFORD DISTRICT - MEDFORD, OREGON		
<b>DRAINAGE &amp; EROSION CONTROL INSTALLATION</b>			
DRAWN	JAB	SCALE	NONE
DATE	JULY 2013	SHEET	1 OF 2
DRAWING NO.	ORM05-TS-2014-0009-C7		



ROCK BARRICADE

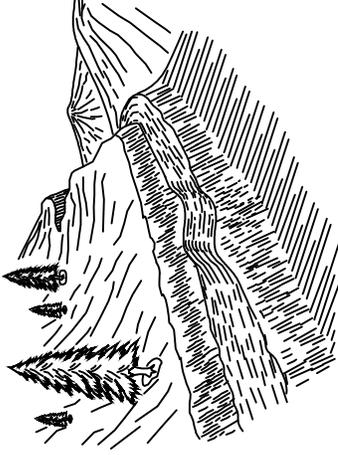


1. ROCK OR TRENCH BARRICADE SHALL BE CONSTRUCTED AS SHOWN.
2. EXACT LOCATION WILL BE FLAGGED BY THE AUTHORIZED OFFICER PRIOR TO CONSTRUCTION.
3. THE LENGTH SHALL BE SUFFICIENT TO BLOCK ROAD FROM VEHICLE USE.
4. THE MINIMUM DIAMETER OF ROCK SHALL BE 3 FEET.
5. THE MAXIMUM SPACE BETWEEN ROCKS SHALL BE 36" OR AS APPROVED BY THE AUTHORIZED OFFICER.

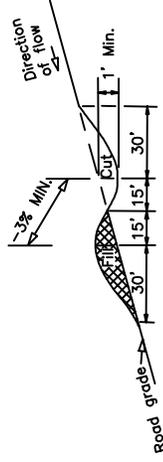


ARMORED WATER DIP

1. SEE EXHIBIT C-11 FOR ARMORED WATER DIP DETAILS.

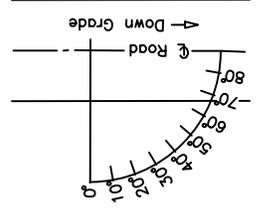


WATER DIP

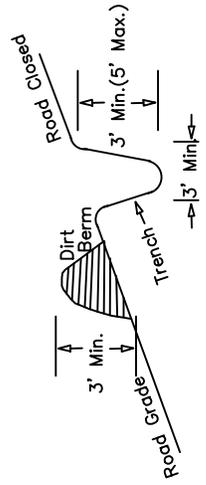


1. WATER DIPS SHALL BE CONSTRUCTED AS SHOWN ABOVE.
2. EXACT LOCATION WILL BE FLAGGED BY THE AUTHORIZED OFFICER PRIOR TO CONSTRUCTION.
3. ALL WATER DIPS SHALL BE SKEWED 30 DEGREES.
4. THE LENGTH SHALL BE SUFFICIENT TO EXTEND FROM THE CUT BANK TO THE FILL SLOPE AND BE READILY CROSSED BY HIGH CLEARANCE TYPE VEHICLES.

SKEW DIAGRAM

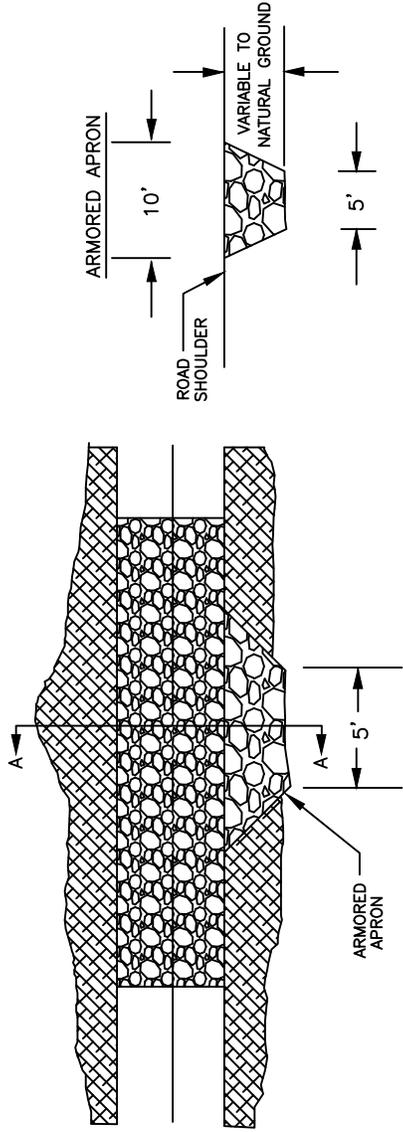


TRENCH BARRICADE

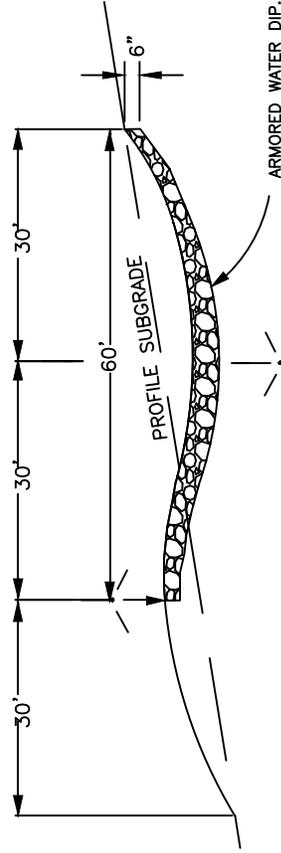


TYPICAL ARMORED WATER DIP CONSTRUCTION DETAIL

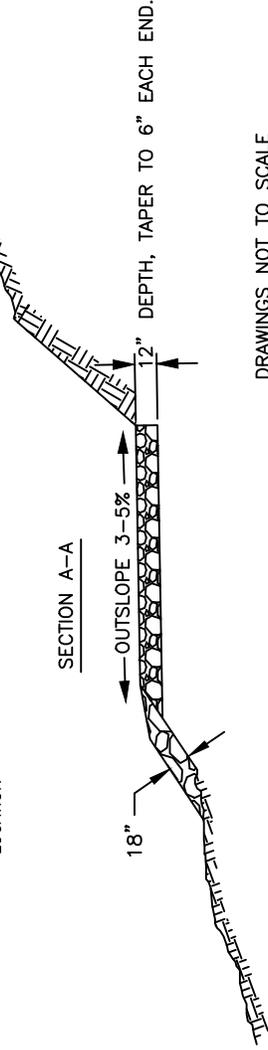
PLAN



PROFILE



SECTION A-A



DRAWINGS NOT TO SCALE

NOTES

- 1) THE WATER DIP INVERT SHALL BE SMOOTH AND FREE DRAINING.
- 2) THE MINIMUM DIFFERENCE IN ELEVATION BETWEEN THE SAG AND THE CREST OF THE WATER DIP ALONG THE CUTSLOPE HINGE POINT IS 1.0 FEET.
- 3) THE MINIMUM DIFFERENCE IN ELEVATION BETWEEN THE SAG AND THE CREST OF THE WATER DIP ALONG THE FILLSLOPE SHOULDER IS 1.5 FEET.
- 4) SKEW DIP MINIMUM 15-30 DEGREES FROM PERPENDICULAR TO CENTERLINE.
- 5) EXCAVATED MATERIAL SHALL BE UTILIZED IN CONSTRUCTION OF WATER DIP. SIDECASTING IS NOT PERMITTED.
- 6) PIT RUN ROCK MATERIAL SHALL BE PLACED ON FILL SLOPE OF ARMORED WATERDIP.
- 7) SEE ROAD RENOVATION WORKLIST FOR WATER DIPS TO BE ARMORED.
- 8) EACH DIP SHALL BE REINFORCED WITH 20 CUBIC YARDS OF 4" MINUS ROCK, ON ROADWAY AND PIT RUN AT OUTFALL.

LEGEND



CUT/FILL SLOPES



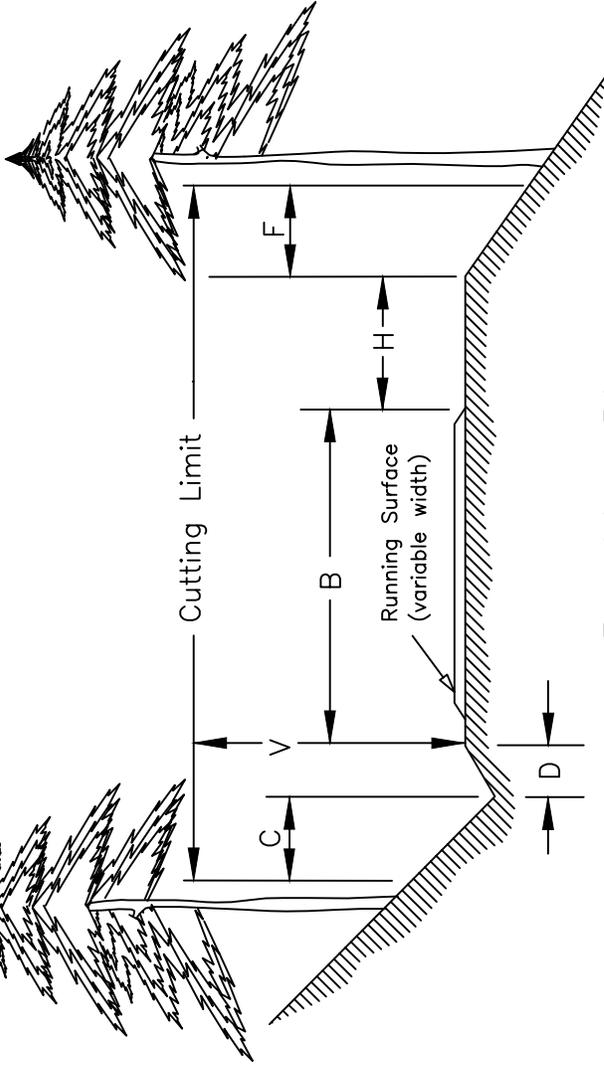
SUBGRADE ARMOR MATERIAL  
(4" minus)



FILL SLOPE ARMOR MATERIAL PIT RUN  
OR OTHER APPROVED MATERIAL.

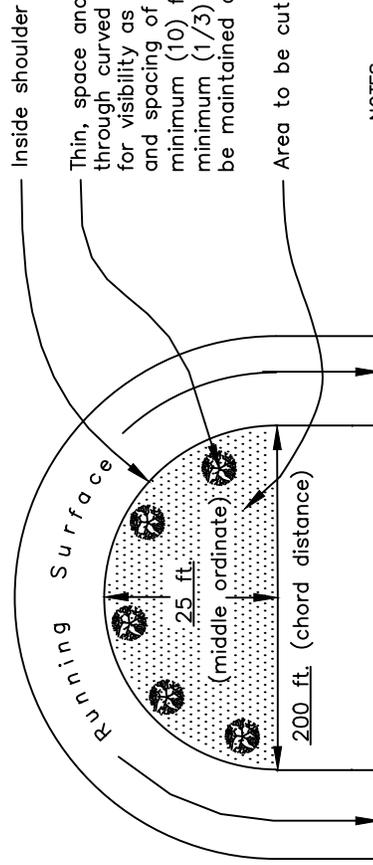
REV. NO.	DESCRIPTION	DATE	APPROV.
UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT MEDFORD DISTRICT - MEDFORD, OREGON			
<b>ARMORED WATER DIP CONSTRUCTION</b>			
DRAWN	JAB	SCALE	NONE
DATE	JULY 2013	SHEET	1 OF 1
DRAWING NO.	ORM05-TS-2014-0009-C8		

**EXHIBIT C-9**  
**SHEET 1 OF 1**



- Cutting Limit = C + D + B + H + F
- B = Basic lane width (includes turnouts)
- C =  $\frac{4}{4}$  ft - Distance to be brushed on cut slope beyond centerline of ditch
- D = Centerline of ditch to inside shoulder
- H = Variable distance between edge of basic lane and outside shoulder (does not include turnout widths)
- F = Distance to be brushed on fill slope beyond outside shoulder  
(F =  $\frac{4}{4}$  when H is  $\frac{4}{4}$  ft or less)  
(F =  $\frac{0}{0}$  when H is greater than  $\frac{4}{4}$  ft)
- V =  $\frac{14}{14}$  ft - Height of vertical cutting limit

Brushing Diagram



Sight Distance Diagram

NOTES:

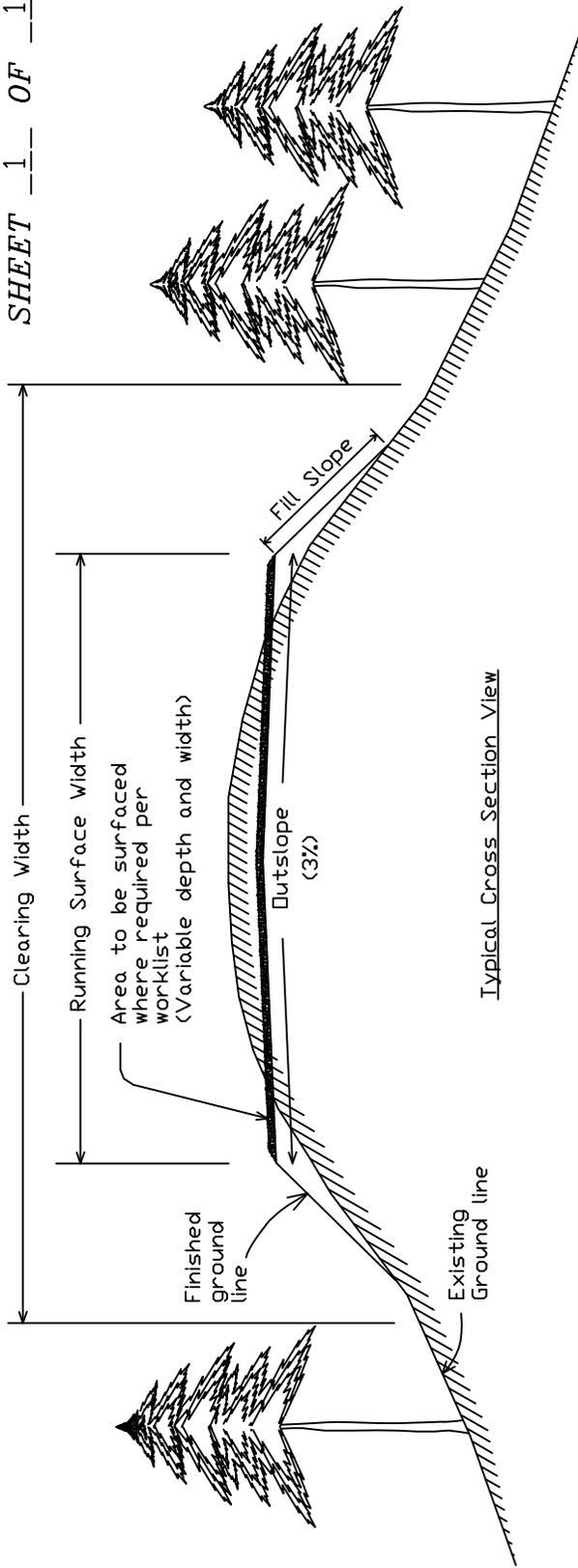
Cutting and Removal of vegetation from ditches and roadway is incidental to brushing within cutting limits.

All distances shown are horizontal except for V

- Typical Basic lane widths
- One lane low traffic volume . . . . . 12 to 16 ft
  - One lane medium traffic volume . . . . . 16 to 20 ft
  - Two lane high volume traffic . . . . . 20 to 40 ft
  - Turnouts . . . . . 10 ft

**ALWAYS  
THINK  
SAFETY**

REV. NO.	DESCRIPTION	DATE	APPROV.
UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT MEDFORD DISTRICT - MEDFORD, OREGON			
<b>ROADSIDE BRUSHING DETAIL</b>			
DRAWN	LWK	SCALE	NONE
DATE	FEB 2014	SHEET	1 OF 1
DRAWING NO. ORM05-TS-2014-0009-C9			



Typical Cross Section View

Notes

Potential helicopter landing sites that may be used are shown on Exhibit C-2. The Purchaser shall provide site plans to be reviewed at the Road Construction and Renovation Pre-work Conference. Each site plan shall include the following:

1. A diagram showing the dimensions to be cleared.
2. A diagram of proposed slash disposal locations and log decking areas.
3. A diagram of how much material will be excavated and where it will be placed. Landing sites requiring embankment depths greater than 15 ft or fill slopes greater than 30 ft in length shall be designed by the BLM. The Purchaser shall notify the BLM at least three weeks prior to anticipated construction to allow time to design the site.
4. A diagram showing the drainage pattern, percent grade and direction of the running surface slopes. Landings shall drain away from roads.

Clearing, grubbing and slash disposal shall be completed in accordance with Section 200. The Purchaser shall delineate perimeters of landing sites and access ramps to be cleared. Landings shall not be larger than necessary. The Authorized Officer shall review and approve the site and plans prior to commencement of clearing and grubbing activities.

Excavation and Embankment shall be completed in accordance with Section 300. Fill slopes shall be mulched and seeded in accordance with Section 1800.

Clearing limits have been flagged, posted, and painted.

See worklist for additional rocking or decommissioning of heliport work at specific locations.

Cut and Fill slope ratios:

Materials	Cut Slopes	Fill Slopes
Common	1/2:1	1 1/2:1
Soft Rock, Shale	1/2:1	1 1/3:1
Solid Rock	1/2:1	Angle of repose

Maintain existing road prisms adjacent to landings at their present grade and alignment unless otherwise directed by the Authorized Officer.

REV. NO.	DESCRIPTION	DATE	APPROV

UNITED STATES DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
MEDFORD DISTRICT - MEDFORD, OREGON

HELICOPTER  
LANDING  
CONSTRUCTION

DRAWN: BLM	SCALE: NONE
DATE: APRIL 2014	SHEET: 1 OF 1
DRAWING NO. DRM05-TS-2014-0005-C10	

## MOUSE TRAIL TIMBER SALE

### Road Renovation and Improvement Work list

Renovation: This consists of road work to be performed on the road prior to its use. The work includes, but not limited to, blading and rolling the road surface, ditching, cleaning, or enlarging catch basin, flushing corrugated metal pipes (CMP) and/or culverts, removing brush near inlet or outlet of pipe, cleaning outlet end of pipe, and removing brush, limbs, and trees along the roadway to improve sight distance. All drainage structures including culverts, and water dips shall be inspected and required work performed so that water flow is not impeded, and brought to the design standard as shown on the plans.

AWD – Armored water dip

CMP – Corrugated metal pipe

Cu. Yds = CY = Cubic yards

Jct. – Junction

ASC - Aggregate Surface Course

NAT – Natural surface

PRR - Pit Run Rock

#### **FS Road 32 (Beaver Springs West) ASC**

(Brush, Renovate.)

##### **MP**    **Remarks**

- 0.00 Jct. Jackson County 227. Begin brushing. Begin renovation.
- 0.07 Existing culvert, stream.
- 0.08 Jct. unnumbered spur (right)
- 0.19 Existing culvert, cross drain.
- 0.26 Existing culvert, draw.
- 0.30 Existing culvert, draw.
- 0.32 Construct helicopter landing.  
(Spot rock after use w/ portion of maintenance rock. See Exhibit D Section 3102)
- 0.38 Property line. End brushing. End renovation.

#### **FS Road 112 (Trail Divide) ASC**

(Brush, Renovate.)

##### **MP**    **Remarks**

- 0.00 Jct. with road 32-1W-19.00. Begin brushing. Begin renovation.
- 0.07 Existing culvert, cross drain.
- 0.11 Existing culvert, draw.
- 0.18 Existing culvert, draw.
- 0.22 Existing culvert, draw.
- 0.26 Existing culvert, draw.
- 0.34 Existing culvert, cross drain.
- 0.46 Existing culvert, cross drain.
- 0.55 Jct. FS 118 (left). Existing landing (left).
- 0.60 Existing culvert, cross drain.
- 0.66 Existing culvert, cross drain.
- 0.71 Existing culvert, draw.

- 0.80 Existing culvert, draw.
- 0.88 Existing culvert, draw.
- 0.91 Existing small turnaround. End brushing. End renovation.

**Road 32-1W-16.00 (Shed Camp Ridge) NAT**

(Brush, Renovate.)

**MP Remarks**

- 0.00 Jct. End 32-1W-19.00. Begin brushing. Begin renovation.
- 0.19 Existing culvert, draw.
- 0.33 Existing culvert, draw.
- 0.35 Existing culvert, cross drain.
- 0.49 Existing culvert, cross drain.
- 0.53 Existing culvert, draw.
- 0.63 End of road. End renovation.

**Road FS 1632 (32-1W-19.00-1 Ragsdale Butte Divide) ASC**

(Brush, Renovate.)

**MP Remarks**

- 0.00 Jct. State Hwy 227. Begin brushing. Begin renovation.
- 0.01 Existing culvert, cross drain.
- 0.06 Existing culvert, cross drain.
- 0.15 turnout loop (right).
- 0.17 turnout loop (right).
- 0.18 Jct. 32-1W-19.01 (left).
- 0.49 Jct. 32-1W-19.02 (right), Y intersection.
- 0.50 Jct. 32-1W-19.02 (right), Y intersection.
- 0.54 Jct. FS 112 (left).
- 0.55 Property line.
- 0.84 Construct temporary spur and helicopter landing (left).
- 1.07 Jct. spur (right), barricaded.
- 1.09 Existing K-tag.
- 1.14 Existing culvert, draw.
- 1.28 Existing culvert, cross drain.
- 1.43 Jct. unnumbered spur (left).
- 1.71 Property line.
- 2.12 Jct. 32-1W-29.04 (left).
- 2.13 Existing culvert, cross drain.
- 2.25 Existing culvert, draw.
- 2.42 Jct. 32-1W-33.01 (right).
- 2.45 Jct. 32-1W-29.03 (right, Y intersection).
- 2.55 Jct. 32-1W-29.03 (right, Y intersection).
- 2.64 Existing culvert, cross drain.
- 2.71 Existing culvert, draw.
- 2.83 Existing culvert, cross drain.
- 2.86 Existing culvert, draw, minor.

- 2.91 Existing culvert, cross drain.
- 2.93 Existing culvert, draw.
- 2.99 Jct. 32-1W-20.00 (left). Existing culvert, cross drain. End brushing. End renovation. MP 2.99 to 3.30 access service/fuel landing. No brushing. No renovation.
- 3.14 Existing dip.
- 3.21 Jct. unnumbered spur (left, barricaded).
- 3.30 Jct. unnumbered spur, Lone Rock Sec. 20 Spur (right).

**Spur Lone Rock Section 20 (Service landing Spur) ASC**

(No brushing. No renovation.)

**MP Remarks**

- 0.00 Jct. 32-1W-19.00 (right). No brushing. No renovation.
- 0.21 Proposed service/fuel landing.

**Road FS 1632 (32-1W-19.00-3 Ragsdale Butte Divide) ASC /part**

(Brush, Renovate.)

**MP Remarks**

- 5.39 Jct. 32-1W-16.00 (right).
- 5.84 Jct. 32-1W-33.02 (left). End brushing. End renovation.

**Road 32-1W-19.02 (Lone Rock Pit) NAT**

(Brush, Renovate.)

**MP Remarks**

- 0.00 Jct. 32-1W-19.00, Y intersection. Begin brushing. Begin renovation.
- 0.13 Lone Rock Pit landing.
- 0.17 Lone Rock pit. End brushing. End renovation. No vehicle access to BLM.
- 0.23 Property line.

**Road 32-1W-20.00 (Old NW Microwave) ASC**

(Brush, Renovate.)

**MP Remarks**

- 0.00 Jct. 32-1W-19.00. Begin brushing. Begin renovation.
- 0.05 Existing culvert, cross drain.
- 0.07 Existing pipe gate (sags).
- 0.18 Existing culvert, cross drain.
- 0.20 Jct. unnumbered spur (right).
- 0.25 End brushing. End renovation.

**Road 32-1W-21.00 (Shed Camp Connect) ASC Admin use.**

(Brush, Renovate. )

**MP Remarks**

- 2.27 Jct. 32-1W-21.03. Begin brushing. Begin renovation.
- 2.34 Existing culvert, cross drain.
- 2.40 Jct. 32-1W-33.02. End brushing. End renovation.

**Road 32-1W-21.03 (Shed Camp Connect 21.03)** ASC Admin use.

(Brush, Renovate.)

**MP** **Remarks**

- 1.20 Property line. End 32-1W-29.02. Begin brushing. Begin renovation.
- 1.26 Existing culvert, cross drain.
- 1.33 Jct. unnumbered spur (left, overgrown).
- 1.36 Existing culvert, draw.
- 1.49 Existing pump chance (left). Existing culvert, overflow.
- 1.57 Existing culvert, cross drain.
- 1.86 Existing culvert, cross drain.
- 1.92 Existing culvert, draw.
- 2.01 Existing culvert, cross drain.
- 2.06 Existing culvert, cross drain.
- 2.10 Existing culvert, cross drain.
- 2.17 Existing culvert, cross drain.
- 2.25 Jct. 32-1W-21.04 (left).
- 2.27 Jct. 32-1W-21.00 (left, right). Continue brushing. Continue renovation.

**Road 32-1W-21.05 (Upper Trail Creek Spur)** ASC

(Brush, Renovate. )

**MP** **Remarks**

- 0.00 Jct. 32-1W-33.02. Begin brushing. Begin renovation.
- 0.10 Existing culvert, cross drain.
- 0.16 Existing culvert, cross drain.
- 0.23 Existing culvert, draw.
- 0.27 Existing culvert, cross drain.
- 0.34 Existing culvert, cross drain.
- 0.46 Existing culvert, cross drain.
- 0.53 Existing culvert, draw.
- 0.67 Existing culvert, draw.
- 0.71 End brushing. End renovation.

**Road 32-1W-27.01 (Blue Chip Quarry)** ASC

(Brush, Renovate.)

**MP** **Remarks**

- 0.00 Jct. 33-1W-10.00. Begin brushing. Begin renovation. Existing culvert, cross drain.
- 0.10 Existing culvert, cross drain.
- 0.14 Jct. 32-1W-27.02.
- 0.18 Existing culvert, cross drain.
- 0.29 Existing quarry.
- 0.38 End of road. End brushing. End renovation.

**Road 32-1W-29.02 (Shed Camp Connect 29.02)** ASC Admin use. MP 0.16 to MP 1.20

(Brush, Renovate. )

**MP** **Remarks**

- 0.00 Jct. 32-1W-33.01. Begin brushing. Begin renovation.

- 0.09 Timber sale boundary (left).
- 0.11 Existing culvert, cross drain.
- 0.12 Timber sale boundary (left).
- 0.18 Existing culvert, draw.
- 0.25 Existing culvert, draw.
- 0.33 Existing culvert, cross drain.
- 0.38 Existing culvert, cross drain.
- 0.42 Existing culvert, draw.
- 0.48 Existing culvert, cross drain.
- 0.55 Existing culvert, cross drain.
- 0.68 Existing culvert, cross drain.
- 0.82 Existing culvert, draw.
- 0.95 Existing culvert, cross drain.
- 1.05 Existing culvert, draw.
- 1.10 Existing culvert, draw, minor.
- 1.20 Property line. End 32-1W-29.02, Begin 32-1W-21.03. Continue brushing. Continue renovation.

**Road 32-1W-29.03 (Snowmobile Connect) ASC**

(Brush, Renovate.)

**MP Remarks**

- 0.00 Jct.32-1W-33.01 (east). Begin brushing. Begin renovation.
- 0.05 Existing culvert, cross drain.
- 0.23 Existing culvert, draw.
- 0.43 Jct. unnumbered spur (right).
- 0.50 Existing pump chance. Existing culvert, overflow.
- 0.65 Jct. 32-1W-19.00 Y intersection (left).
- 0.72 Existing culvert, cross drain.
- 0.76 Jct.32-1W-19.00 Y intersection. End brushing. End renovation.

**Road 32-1W-29.04 (Northwest Spur) PRR**

(Brush, Renovate.)

**MP Remarks**

- 0.00 Jct. 32-1W-19.00. Begin brushing. Begin renovation.
- 0.04 Existing old quarry (right).
- 0.26 End brushing. End renovation.

**Road 32-1W-29.06 (Private Spur) PRR**

(Brush, Renovate.)

**MP Remarks**

- 0.00 Jct. 32-1W-33.01. Begin brushing. Begin renovation.
- 0.01 Existing private gate.
- 0.06 Jct. Skid/ jeep road (left). End brushing. End renovation.

**Road 32-1W-29.07 (Upper Trail Spur 7) ASC**

(Brush, Renovate. Re-establish water bars after use.)

**MP Remarks**

0.00 Jct. 32-1W-33.01. Begin brushing. Begin renovation.  
 0.04 Existing water bar.  
 0.09 Existing water bar.  
 0.12 Existing water bar.  
 0.14 Existing culvert, cross drain.  
 0.17 Existing water bar.  
 0.20 Existing culvert, cross drain.  
 0.26 Existing water bar.  
 0.32 Jct. unnumbered spur (left).  
 0.44 Jct. unnumbered spur (right). End brushing. End renovation.

**Road 32-1W-33.01 (Upper Trail Creek ML) ASC**

(Brush, Renovate. Slump /20 CY crushed rock.)

**Note:** Buried utility line along road.

**MP    Remarks**

0.00 Jct. End county 501, private driveway (left). Begin brushing. Begin renovation.  
 0.01 Existing culvert, cross drain.  
 0.10 Existing culvert, cross drain.  
 0.19 Jct. 32-1W-33.00 Mushmouse Mt. (left).  
 0.28 Existing culvert, cross drain.  
 0.33 Existing culvert, draw.  
 0.39 Existing culvert, draw.  
 0.42 Existing culvert, draw.  
 0.44 Jct. 32-1W-33.02 (right).  
 0.53 Existing culvert, draw.  
 0.58 Existing culvert, draw.  
 0.61 Existing culvert, draw.  
 0.66 Existing culvert, cross drain.  
 0.78 Existing culvert, draw.  
 0.94 Existing culvert, cross drain.  
 1.10 Existing culvert, draw, major.  
 1.21 Jct. unnumbered spur (right).  
 1.23 Existing culvert, cross drain.  
 1.34 Existing culvert, cross drain.  
 1.37 Existing culvert, cross drain.  
 1.42 Jct. unnumbered spur (right, barricaded, overgrown). Existing culvert, cross drain.  
 1.47 Jct. 32-1W-33.04 (left).  
 1.51 Existing culvert, cross drain.  
 1.57 Existing culvert, cross drain.  
 1.62 Existing culvert, draw. **Begin re-establish ditch.**  
 1.66 Existing culvert, cross drain. **End re-establish ditch.**  
 1.69 Existing culvert, cross drain.  
 1.71 Existing culvert, cross drain.  
 1.72 Existing culvert, cross drain.  
 1.74 Jct. 32-1W-29.06 (right, gate).  
 1.82 Existing culvert. cross drain.

- 1.86 Existing culvert, draw.
- 1.97 Existing culvert, cross drain.
- 2.06 Existing culvert, draw.
- 2.07 Jct. unnumbered spur (left, barricaded, overgrown).
- 2.12 Existing culvert, draw.
- 2.14 Existing culvert, draw.
- 2.15 Existing culvert, draw. Existing pump chance.
- 2.25 Existing culvert, cross drain.
- 2.31 Jct. 32-1W-29.01 (left, overgrown).
- 2.34 Jct. 32-1W-29.02 (right).
- 2.44 Existing culvert, cross drain.
- 2.49 Existing culvert, draw, minor.
- 2.57 Existing culvert, cross drain.
- 2.63 Existing culvert, cross drain.
- 2.69 Existing culvert, cross drain.
- 2.71 Existing culvert, draw.
- 2.73 Jct. unnumbered spur (left, barricaded)
- 2.80 Existing culvert, cross drain.
- 2.81 Jct. unnumbered spur (left, barricaded, overgrown).
- 2.84 Existing culvert, cross drain.
- 2.89 Existing dip.
- 2.90 Existing culvert, cross drain.
- 2.95 Existing culvert, cross drain.
- 3.03 Existing slump, **Place 20 CY crushed rock.**
- 3.04 Existing culvert, draw.
- 3.10 Jct. 32-1W-29.08 (left).
- 3.12 Existing culvert, draw.
- 3.16 Existing culvert, cross drain.
- 3.26 Existing culvert, cross drain.
- 3.28 Existing culvert, draw.
- 3.29 Existing culvert, cross drain.
- 3.33 Existing culvert, cross drain.
- 3.45 Existing culvert, cross drain.
- 3.47 Existing culvert, cross drain.
- 3.48 Existing culvert, draw.
- 3.56 Existing culvert, cross drain.
- 3.64 Existing culvert, cross drain.
- 3.66 Jct. 32-1W-29.03 (right).
- 3.69 Existing culvert, cross drain.
- 3.78 Existing culvert, cross drain.
- 3.89 Existing culvert, cross drain.
- 3.96 Jct. 32-1W-19.00 (left, right). End brushing. End renovation.

**Road 32-1W-33.02 (Shed Camp ML)** ASC  
(Brush, Renovate.)

**MP** **Remarks**

- 0.00 Jct. 32-1W-33.01. Begin brushing. Begin renovation.
- 0.10 Existing culvert, draw.
- 0.16 Existing culvert, cross drain.
- 0.25 Existing culvert, cross drain.
- 0.31 Existing culvert, draw. Existing pump chance (left).
- 0.39 Existing culvert, cross drain.
- 0.50 Existing culvert, draw.
- 0.55 Jct. 32-1W-33.03 (right).
- 0.56 Jct. unnumbered spur (left, barricaded).
- 0.61 Existing culvert, draw.
- 0.68 Existing culvert, cross drain.
- 0.85 Existing culvert, cross drain.
- 0.91 Existing culvert, cross drain.
- 0.96 Existing culvert, cross drain.
- 1.03 Existing ditchout (right).
- 1.06 Existing ditchout (left).
- 1.15 Existing culvert, cross drain.
- 1.24 Existing culvert, cross drain.
- 1.40 Existing culvert, draw.
- 1.50 Existing culvert, draw.
- 1.60 Existing culvert, cross drain.
- 1.65 Jct. 32-1W-28.00, Sec. 28 quarry (left).
- 1.77 Existing culvert, cross drain.
- 1.84 Existing culvert, cross drain.
- 1.92 Existing culvert, draw.
- 2.00 Existing culvert, cross drain.
- 2.08 Existing culvert, cross drain.
- 2.23 Existing culvert, draw.
- 2.28 Existing culvert, draw. Boundary tag (left).
- 2.42 Existing culvert, cross drain.
- 2.50 Existing culvert, cross drain.
- 2.58 Existing culvert, cross drain.
- 2.76 Existing culvert, draw.
- 2.78 Existing culvert, draw.
- 2.90 Jct. 32-1W-21.00. Existing culvert, cross drain.
- 2.95 Existing culvert, draw.
- 3.05 Existing culvert, cross drain.
- 3.14 Existing culvert, draw.
- 3.15 Jct. 32-1W-Sec. 21 PC, Existing pump chance (right).
- 3.20 Existing culvert, cross drain.
- 3.25 Existing culvert, cross drain.
- 3.31 Jct. 32-1W-21.01 (right).
- 3.35 Jct. 32-1W-21.02 (left). Construct helicopter landing.
- 3.36 Existing culvert, cross drain.
- 3.41 Existing culvert, cross drain.
- 3.46 Existing culvert, cross drain.

- 3.57 Existing culvert, draw, major.
- 3.63 Jct. 32-1W-21.05 (right). Existing culvert, cross drain.
- 3.72 Existing culvert, cross drain.
- 3.79 Existing culvert, cross drain.
- 4.03 Existing culvert, cross drain.
- 4.23 Existing culvert, draw, major.
- 4.31 Existing culvert, draw, minor.
- 4.37 Existing culvert, cross drain.
- 4.45 Existing quarry (right). Existing crushed rock stockpile, ~ 200 Cu. Yds. (left).
- 4.52 Existing culvert, cross drain.
- 4.64 Existing culvert, cross drain.
- 4.73 Existing culvert, draw.
- 4.78 Existing culvert, cross drain.
- 4.90 Existing culvert, cross drain.
- 4.97 Existing culvert, cross drain.
- 5.04 Jct. 32-1W-19.00 (left, right). End brushing. End renovation.

**Road 32-1W-33.03 (Lower Spur) ASC**

(Brush, Renovate.)

**MP    Remarks**

- 0.00 Jct. 32-1W-33.02. Begin brushing. Begin renovation.
- 0.03 Existing culvert, draw.
- 0.09 Existing bottomless arch. Existing Pump chance (left).
- 0.24 Jct. unnumbered spur (left, barricaded, overgrown).
- 0.25 Existing culvert, cross drain.
- 0.36 Existing culvert, draw.
- 0.43 Existing culvert, cross drain.
- 0.49 Existing culvert, cross drain.
- 0.56 Existing culvert, cross drain.
- 0.62 Existing culvert, draw.
- 0.67 Existing culvert, draw.
- 0.81 Existing culvert, cross drain.
- 0.96 Existing landing (right).
- 0.98 Existing culvert, cross drain.
- 1.00 Existing old guard rail barricade.
- 1.12 Existing culvert, cross drain.
- 1.22 Existing culvert, draw.
- 1.29 Existing culvert, draw.
- 1.37 Existing culvert, draw.
- 1.42 Existing culvert, cross drain.
- 1.47 Jct. landing spur 32-1W-33.03S (left, barricaded). End brushing. End renovation.
- 1.53 End of road.

**Spur 32-1W-33.03S (Lower Spur) ASC**

(Brush, Renovate, Barricade.)

**MP    Remarks**

- 0.00 Jct. 32-1W-33.03. Begin brushing. Begin renovation. Existing barricade. **Barricade - after use.**  
 0.04 Existing landing. End brushing. End renovation.

**Road 33-1W-5.00 (Dwinnel)** ASC

(Brush, Renovate.)

<b><u>MP</u></b>	<b><u>Remarks</u></b>
0.00	Jct. State Hwy 227 (Tiller Hwy). Begin brushing. Begin renovation.
0.08	Existing pipe gate.
0.10	Property line.
0.12	Existing culvert, draw.
0.26	Existing quarry, private.
0.31	Jct. unnumbered spur (right).
0.35	Existing culvert, draw.
0.39	Existing culvert, draw.
0.40	Jct. unnumbered spur (left).
0.47	Existing culvert, cross drain.
0.57	Existing culvert, cross drain.
0.63	Jct. unnumbered spur (left).
0.66	Existing culvert, cross drain.
0.83	Jct. 33-1W-8.01 (left).
0.95	Existing culvert, cross drain.
1.05	Existing culvert, cross drain.
1.16	Existing culvert, cross drain.
1.26	Existing culvert, cross drain.
1.28	Jct. unnumbered spur (right).
1.49	Existing culvert, cross drain.
1.80	Existing culvert, draw.
1.87	Existing culvert, draw.
2.01	Existing culvert, cross drain.
2.04	Jct. 33-1W-7.00 (left).
2.13	Existing culvert, cross drain.
2.32	Existing culvert, draw.
2.45	Existing culvert, cross drain.
2.65	Existing culvert, cross drain.
2.74	Jct. 33-1W-7.01 (left).
2.77	Existing culvert, cross drain.
3.04	Existing culvert, cross drain.
3.24	End brushing. End renovation.

**Road 33-1W-5.04 (Wall Creek)** NAT, PRR

(Brush, Renovate, Spot Rock w/ 160 CY pit run )

<b><u>MP</u></b>	<b><u>Remarks</u></b>
0.00	Jct. State Hwy. 227. Begin brushing. Begin renovation.
0.02	Existing pipe gate, (N key required).
0.10	Existing culvert, cross drain.
0.15	Jct. private spur, gate. (left). Existing culvert, draw. <b>Begin spot rock w/ 40 CY.</b>

- 0.21 Existing culvert, cross drain.
- 0.31 Existing culvert, draw. **End spot rock.**
- 0.39 **Spot rock w/ 20 CY.**
- 0.45 **Begin spot rock w/ 40 CY.**
- 0.48 Existing culvert, cross drain.
- 0.53 Existing culvert, cross drain.
- 0.61 Existing culvert, cross drain.
- 0.65 Existing culvert, draw. **Begin re-establish ditch line.**
- 0.67 **End spot rock.**
- 0.70 **End re-establish ditch line.**
- 0.76 Existing culvert, cross drain. **Begin re-establish ditch line.**
- 0.77 **Spot rock w/ 20 CY.**
- 0.82 **End re-establish ditchline.**
- 0.83 Existing culvert, cross drain.
- 0.84 Existing landing.
- 0.94 Existing culvert, draw.
- 1.00 Existing culvert, cross drain.
- 1.10 Existing culvert, cross drain.
- 1.21 **Begin spot rock w/ 40 CY.**
- 1.24 Existing culvert, cross drain.
- 1.25 Jct. Temp. spur (left). **End spot rock.** End brushing. End renovation.

**Road 33-1W-7.00 (Old Ben Spur)** ASC

(Brush, Renovate.)

- | <b><u>MP</u></b> | <b><u>Remarks</u></b>                             |
|------------------|---|
| 0.00             | Jct. 33-1W-5.00 Begin brushing. Begin renovation. |
| 0.03             | Existing culvert, draw.                           |
| 0.05             | Existing culvert, draw.                           |
| 0.10             | Existing culvert, cross drain.                    |
| 0.12             | Existing culvert, cross drain.                    |
| 0.20             | Existing culvert, cross drain.                    |
| 0.25             | Jct. 33-1W-7.01 (right, overgrown).               |
| 0.40             | Existing culvert, draw.                           |
| 0.42             | Existing culvert, draw.                           |
| 0.54             | Existing culvert, cross drain.                    |
| 0.65             | Existing culvert, cross drain.                    |
| 0.76             | Jct. jeep road, End brushing. End renovation.     |

**Road 33-1W-8.00 (Buck Rock)** ASC

(Brush, Renovate.)

- | <b><u>MP</u></b> | <b><u>Remarks</u></b>  |
|------------------|--|
| 0.00             | Jct. County 501 (East Fork Trail Creek). Begin brushing. Begin renovation. |
| 0.10             | Existing culvert, cross drain.   |
| 0.20             | Existing culvert, cross drain.   |
| 0.26             | Existing culvert, cross drain.   |

- 0.40 Existing culvert, cross drain.
- 0.43 Jct. private driveway (left).
- 0.50 Existing culvert, cross drain.
- 0.57 Existing culvert, cross drain.
- 0.63 Existing culvert, draw.
- 0.83 Existing culvert, Jct. private driveway (right).
- 0.85 Existing culvert, draw.
- 0.99 Existing culvert, cross drain.
- 1.04 Existing culvert, cross drain.
- 1.11 Existing culvert, draw.
- 1.22 Existing culvert, cross drain.
- 1.33 Existing culvert, cross drain.
- 1.44 Jct. 33-1W-9.01 (right).
- 1.45 Existing culvert, draw.
- 1.55 Existing culvert, cross drain.
- 1.61 Existing culvert, cross drain.
- 1.73 Existing culvert, cross drain.
- 1.81 Existing culvert, draw.
- 1.93 Existing culvert, cross drain.
- 2.02 Existing culvert, cross drain.
- 2.12 Existing culvert, cross drain.
- 2.15 Jct. 33-1W-9.00 (left).
- 2.25 Existing culvert, cross drain.
- 2.32 Existing culvert, cross drain.
- 2.43 Existing culvert, cross drain.
- 2.49 Existing culvert, cross drain.
- 2.54 Existing culvert, cross drain.
- 2.56 Jct. quarry landing service (right).
- 2.57 Jct. Sec 10 quarry landing service (right).
- 2.64 Jct. 33-1W-10.00 (left).
- 2.66 Existing culvert, cross drain.
- 2.75 Existing culvert, cross drain.
- 2.86 Jct. 33-1W-10.01 (right, barricaded, overgrown).
- 2.90 Existing culvert, cross drain.
- 2.95 Jct. Temp Route 10-5 (left). End brushing. End renovation.
- 2.96 Jct. 33-1W-10.02 (right).

**Road 33-1W-8.01 (Dwinnel Road Easement)** ASC

(Brush, Renovate, AWD.)

- | <b><u>MP</u></b> | <b><u>Remarks</u></b>                             |
|------------------|---|
| 0.00             | Jct. 33-1W-5.00 Begin brushing. Begin renovation. |
| 0.04             | Existing culvert, cross drain.                    |
| 0.15             | Hole in road. <b>Construct AWD.</b>               |
| 0.21             | Existing culvert, cross drain.                    |
| 0.27             | Existing culvert, cross drain.                    |
| 0.37             | Existing culvert, draw.                           |

- 0.43 Existing pump chance. Existing culvert, overflow.
- 0.71 Existing culvert, draw.
- 0.89 Jct. Temp Route 7-3 (right). Jct. unnumbered spur (left).
- 0.98 Existing culvert, cross drain.
- 1.11 Existing culvert, draw.
- 1.16 Existing culvert, cross drain.
- 1.21 Existing culvert, cross drain.
- 1.27 Existing culvert, cross drain.
- 1.36 End brushing. End renovation.

**Road 33-1W-9.01 (Buck Rock Spur South) PRR**

(Brush, Renovate, Water bar, Gate.)

**MP**    **Remarks**

- 0.00 Jct. 33-1-8.00 (Buck Rock). Begin brushing. Begin renovation.
- 0.03 **Construct water bar.**
- 0.04 **Install mega gate.**
- 0.05 **Re-establish existing water bar.**
- 0.07 **Re-establish existing water bar.**
- 0.09 **Re-establish existing water bar.**
- 0.11 Jct. small turn around, ridge. End brushing. End renovation.

**Road 33-1W-10.00 (Oliver Springs ML) ASC**

(Brush, Renovate.)

**MP**    **Remarks**

- 0.00 Jct. 33-1W-8.00 (Buck Rock). Begin brushing. Begin renovation.
- 0.01 Existing culvert, cross drain.
- 0.11 Existing culvert, cross drain.
- 0.24 Existing culvert, cross drain.
- 0.33 jct. jeep trail (right).
- 0.34 Jct. 33-1W-10.03 (left, barricaded, overgrown).
- 0.51 Existing culvert, cross drain.
- 0.71 Existing culvert, cross drain.
- 0.74 Jct. Road 33-1W-10.03, (left, north end). Existing quarry (left).
- 0.84 Jct. jeep road (left)
- 0.88 Existing culvert, cross drain.
- 0.95 Existing culvert, cross drain.
- 1.15 Existing culvert, cross drain.
- 1.22 Existing culvert, cross drain.
- 1.32 Existing culvert, cross drain.
- 1.42 Jct. 32-1W-35.00 (right)
- 1.51 Existing culvert, cross drain.
- 1.59 Existing culvert, cross drain.
- 1.67 Existing culvert, cross drain.
- 1.74 Existing culvert, cross drain.
- 1.75 Jct. jeep road (left).

- 1.88 Existing culvert, cross drain.
- 1.99 Existing culvert, cross drain.
- 2.08 Existing culvert, cross drain.
- 2.21 Existing culvert, cross drain.
- 2.33 Jct. jeep trail (left).
- 2.42 Existing culvert, cross drain.
- 2.48 Existing culvert, cross drain.
- 2.60 Existing culvert, draw.
- 2.69 Existing culvert, cross drain.
- 2.72 Jct. 32-1W-34.00 (left)
- 2.84 Existing culvert, cross drain.
- 3.04 Existing culvert, draw.
- 3.16 Existing culvert, draw.
- 3.30 Existing culvert, cross drain.
- 3.45 Existing culvert, cross drain.
- 3.63 Existing culvert, cross drain.
- 3.72 Jct. 32-1W-26.01 (right)
- 3.84 Existing culvert, cross drain.
- 3.85 Jct. 32-1W-35.02 (right)
- 4.09 Existing culvert, cross drain.
- 4.16 Existing culvert, cross drain.
- 4.24 Existing culvert, cross drain.
- 4.35 Existing culvert, cross drain.
- 4.45 Existing culvert, cross drain.
- 4.56 Existing culvert, cross drain.
- 4.75 Jct. 32-1W-27.01 (left). End brushing. End renovation.

**Road 33-1W-29.00 (West Branch Trail Creek) ASC**

(Brush, Renovate.)

MP 0.00 to MP 2.42 is county road.

**MP**    **Remarks**

- 0.00 Jct. state Hwy. 227 (Tiller/Trail Hwy.). Begin existing BST.  
Begin county road (West Branch Trail Creek).
- 0.47 Jct. 33-1W-29.01 (left).
- 1.13 Jct. 33-1W-19.00 (left). End existing BST.
- 2.42= End county road (West Branch Trail Creek). Begin brushing. Begin renovation.
- 0.00
- 0.04 Jct. 33-1W-18.00 (right).
- 0.10 Existing culvert, cross drain.
- 0.23 Existing culvert, draw.
- 0.30 Existing culvert, draw.
- 0.31 Jct. jeep road (right), re-establish barricades (2).
- 0.39 Existing culvert, cross drain.
- 0.45 Existing culvert, draw.
- 0.47 Jct. 33-2W-13.00 Walpole (left). Jct. jeep trail (right).
- 0.48 Existing culvert, cross drain.

- 0.57 Existing culvert, cross drain.
- 0.66 Existing culvert, cross drain.
- 0.71 Existing culvert, draw.
- 0.86 Existing culvert, draw.
- 0.87 Jct. jeep spur (right, barricaded).
- 0.88 Existing culvert, draw.
- 0.92 Existing culvert, draw.
- 0.93 Jct. unnumbered spur (right, barricaded).
- 0.95 Existing culvert, cross drain.
- 1.00 Existing culvert, cross drain.
- 1.04 Existing culvert, cross drain.
- 1.09 Existing culvert, cross drain.
- 1.16 to 1.21 parallel jeep trail, mud.
- 1.24 Jct. unnumbered spur (left), bridge, gate.
- 1.26 Existing culvert, cross drain.
- 1.33 Existing culvert, draw, minor.
- 1.37 Jct. unnumbered spur Y intersection (right).
- 1.40 Jct. unnumbered spur Y intersection (right).
- 1.53 Existing culvert, draw.
- 1.55 Existing culvert, cross drain.
- 1.59 Existing culvert, cross drain.
- 1.64 Existing culvert, cross drain.
- 1.72 Existing culvert, draw, stream. Jct. unnumbered spur, gate (right).
- 1.86 Existing culvert, cross drain.
- 1.90 Existing culvert, draw.
- 1.95 Existing culvert, cross drain.
- 2.00 Jct. 33-2W-12.00 (right).
- 2.03 Existing culvert, draw.
- 2.08 Jct. unnumbered spur (right, Y intersection).
- 2.09 Jct. unnumbered spur (right, Y intersection).
- 2.12 Existing culvert, draw.
- 2.14 Jct. unnumbered spur (right).
- 2.15 Jct. unnumbered spur, gate (right).
- 2.23 Existing culvert, cross drain.
- 2.34 Existing culvert, cross drain.
- 2.40 Existing culvert, cross drain.
- 2.48 Existing culvert, cross drain.
- 2.56 Existing culvert, cross drain.
- 2.55 Existing culvert, cross drain.
- 2.62 Existing culvert, draw.
- 2.68 Existing culvert, cross drain.
- 2.77 Existing culvert, cross drain.
- 2.88 Jct. jeep spur (right).
- 2.91 Existing culvert, cross drain.
- 2.98 Existing culvert, draw.
- 3.13 Existing culvert, cross drain.

- 3.25 Existing culvert, draw.
- 3.33 Jct. 33-2W-10.00 Y intersection barricaded (left).
- 3.35 Jct. 33-2W-10.00 (left).
- 3.40 Existing culvert, cross drain.
- 3.63 Jct. 33-2W-3.06 (right), Existing barricade.
- 3.70 Jct. 33-2W-3.00 (left)
- 3.76 Existing culvert, cross drain.
- 3.86 Existing culvert, draw.
- 3.89 Existing culvert, draw.
- 4.01 Jct. 33-2W-3.01 (left), Y intersection.
- 4.03 Jct. 33-2W-3.01 (left), Y intersection. Existing culvert, draw.
- 4.12 Existing culvert, cross drain.
- 4.21 Existing culvert, draw.
- 4.27 Existing culvert, draw.
- 4.38 Existing culvert, cross drain.
- 4.40 Existing culvert, draw, minor.
- 4.45 Jct. 33-2W-3.02 (right)
- 4.48 Existing culvert, cross drain.
- 4.58 Existing culvert, cross drain.
- 4.66 Existing culvert, cross drain.
- 4.76 Existing culvert, draw.
- 4.85 Existing culvert, cross drain.
- 4.91 Existing culvert, cross drain.
- 5.09 Existing culvert, cross drain.
- 5.20 Existing culvert, draw.
- 5.27 Existing culvert, cross drain.
- 5.42 Existing culvert, cross drain.
- 5.48 Jct. 33-2W-3.03 (left, barricaded). Stockpile ~50 CY (right).
- 5.59 Jct. 33-2W-3.04 (left).
- 5.71 Existing culvert, draw.
- 5.91 Existing culvert, cross drain.
- 5.96 Jct. 33-2W-3.05 (right, overgrown).
- 6.17 Existing culvert, cross drain.
- 6.21 Existing culvert, cross drain.
- 6.23 Existing culvert, cross drain.
- 6.25 Jct. spur (right, overgrown). End ASC. Begin PRR.  
Continue brushing. Continue renovation.

**Road FS 3232-945 (33-1W-29.00FS Upper West Branch Trail) PRR**

(Brush, Renovate.)

**MP**      **Remarks**

- 6.25 Jct. spur (right, overgrown). End ASC. Begin PRR. Begin brushing. Begin renovation.
- 6.29 Existing culvert, cross drain.
- 6.31 Bearing tree (right). Property line.
- 6.36 Existing culvert, cross drain.
- 6.44 Existing culvert, cross drain.

- 6.52 Existing culvert, cross drain.
- 6.59 Existing culvert, cross drain.
- 6.66 Existing culvert, cross drain.
- 6.81 Existing culvert, cross drain.
- 6.83 Existing culvert, draw.
- 6.90 Existing culvert, draw, minor
- 6.97 Existing culvert, cross drain.
- 7.02 Jct. 32-2W-33.07 (left, right).
- 7.06 Proposed landing. End brushing. End renovation.

**Road 33-1W-29.01 (Cabin Canyon ML)** ASC

(Brush, Renovate, Spot rock w/ 250 CY 1 1/2"minus.)

**MP**    **Remarks**

- 0.00 Jct. 33-1W-29.00 (West Branch Trail Creek). Begin brushing. Begin renovation.  
**Begin spot rocking.**
- 0.03 Existing culvert, cross drain.
- 0.16 Existing culvert, draw.
- 0.25 Existing culvert, draw.
- 0.32 Jct. 33-1W-29.02 (right), Y intersection.
- 0.43 Existing culvert, cross drain.
- 0.54 Existing culvert, cross drain.
- 0.60 Existing culvert, cross drain.
- 0.66 Existing culvert, cross drain.
- 0.76 Existing culvert, cross drain.
- 0.78 Jct. 33-1W-29.04 (right).
- 0.87 Existing culvert, cross drain.
- 0.99 Existing culvert, cross drain.
- 1.09 Existing culvert, cross drain.
- 1.17 Jct. 33-1W-28.00 (left).
- 1.19 Existing culvert, draw.
- 1.21 Jct. unnumbered spur (right).
- 1.30 Existing culvert, cross drain.
- 1.39 Existing culvert, draw.
- 1.43 Jct. 33-1W-32.00 (left).
- 1.48 Existing culvert, cross drain.
- 1.55 Existing culvert, cross drain.
- 1.62 Existing culvert, cross drain.
- 1.77 Existing culvert, cross drain.
- 1.88 Existing culvert, cross drain.
- 1.91 Jct. 33-1W-31.00 (right). **End spot rocking.**
- 1.98 Existing culvert, cross drain.
- 2.22 Existing culvert, draw.
- 2.28 Existing culvert, draw.
- 2.41 Existing culvert, cross drain.
- 2.50 Existing culvert, cross drain.
- 2.59 Existing culvert, draw.

- 2.67 Existing culvert, cross drain.
- 2.89 Existing small landing (right).
- 2.90 Cabin Canyon pit (right). Pit run source.
- 3.00 Cabin Canyon pit. Large rock area.
- 3.09 Existing culvert, cross drain.
- 3.20 Jct. 34-1W-6.00 (left). Existing culvert, cross drain.
- 3.27 Existing culvert, cross drain.
- 3.41 Jct. 33-1W-1.01 (left). Existing culvert, cross drain.
- 3.42 Jct. unnumbered spur (right, barricaded).
- 3.53 Existing culvert, cross drain.
- 3.56 Jct. 33-1W-1.02 (left, overgrown).
- 3.64 Existing culvert, cross drain.
- 3.71 Existing culvert, cross drain.
- 3.77 Existing culvert, draw.
- 3.89 Existing culvert, cross drain.
- 4.04 Existing culvert, cross drain.
- 4.09 Existing culvert, draw.
- 4.32 Existing culvert, cross drain.
- 4.49 Existing culvert, cross drain.
- 4.61 Existing culvert, draw.
- 4.76 Existing culvert, draw.
- 4.85 Existing old quarry (right).
- 5.00 Existing culvert, cross drain.
- 5.02 Jct. 33-1W-1.04 (right).
- 5.10 Existing culvert, draw.
- 5.30 Jct. 34-2W-12.02 Y intersection (left, right). End brushing. End renovation.

**Road 33-1W-31.00 (Cabin Board Mt. Tie) ASC**

(Brush, Renovate.)

<b><u>MP</u></b>	<b><u>Remarks</u></b>
0.00	Jct. 33-1W-29.01. Begin brushing. Begin renovation.
0.10	Jct. 33-1W-28.00 H1 (right).
0.13	Jct. 33-1W-28.00 H2 (left).
0.20	Existing culvert, cross drain.
0.39	Existing culvert, draw.
0.47	Existing culvert, cross drain.
0.50	Existing culvert, cross drain.
0.61	Existing culvert, cross drain.
0.66	Existing culvert, cross drain.
0.75	Existing culvert, cross drain.
0.82	Existing culvert, draw.
0.87	Existing culvert, cross drain.
1.00	Existing culvert, cross drain.
1.08	Existing culvert, draw.

- 1.17 Existing culvert, cross drain.
- 1.24 Existing culvert, cross drain.
- 1.32 Existing culvert, cross drain.
- 1.34 Jct. unnumbered spur (right).
- 1.38 Jct. 33-2W-25.03 (right).
- 1.44 Existing culvert, cross drain.
- 1.51 Existing culvert, cross drain.
- 1.69 Existing culvert, cross drain.
- 1.70 Jct. 33-2W-25.04 (left).
- 1.78 Jct. 33-2W-25.02 (right). Jct. 33-2W-25.05 (left).
- 1.83 Existing culvert, cross drain.
- 1.93 Existing culvert, cross drain.
- 2.03 Existing culvert, cross drain.
- 2.12 Jct. 33-2W-25.06 (left), y intersection.
- 2.16 Jct. 33-2W-25.06 (left), y intersection. End brushing. End renovation.

**Road 33-1W-31.04 (Cabin Canyon Left Spur 4) NAT**

(Brush, Renovate, Water bar.)

**MP Remarks**

- 0.00 Jct. 33-1W-32.00. Begin brushing. Begin renovation.
- 0.17 Existing ditchout (right).
- 0.18 Jct. unnumbered spur (right). End brushing. End renovation.

**Road 33-1W-32.00 (Cabin Canyon Left) ASC**

(Brush, Renovate.)

**MP Remarks**

- 0.00 Jct. 33-2W-29.01 (big intersection). Begin brushing. Begin renovation.
- 0.05 Existing culvert, cross drain.
- 0.12 Existing culvert, cross drain.
- 0.16 Existing culvert, cross drain.
- 0.23 Existing culvert, draw.
- 0.28 Existing culvert, cross drain.
- 0.35 Existing culvert, cross drain.
- 0.40 Existing culvert, draw.
- 0.44 Existing culvert, cross drain.
- 0.51 Existing culvert, cross drain.
- 0.59 Existing culvert, draw.
- 0.70 Existing culvert, cross drain.
- 0.80 Existing culvert, cross drain.
- 0.93 Existing culvert, draw.
- 1.02 Existing culvert, draw.
- 1.05 Jct. 33-1W-31.01 (left).
- 1.12 Existing culvert, draw.
- 1.17 Jct. 33-1W-31.02 (right).
- 1.18 Existing culvert, cross drain.
- 1.25 Existing culvert, cross drain.

- 1.35 Existing culvert, draw.
- 1.39 Existing culvert, draw.
- 1.45 Existing culvert, overflow.
- 1.50 Existing pump chance (right).
- 1.52 Jct. 33-1W-31.02 (right).
- 1.55 Existing culvert, draw.
- 1.60 Jct. unnumbered spur (right, barricaded).
- 1.64 Existing culvert, draw.
- 1.70 Existing culvert, draw.
- 1.76 Existing culvert, cross drain.
- 1.86 Existing culvert, cross drain.
- 1.91 Jct. 33-1W-31.04 (right).
- 2.03 Existing culvert, cross drain.
- 2.10 Existing barricade. End brushing. End renovation.

**Road 33-2W-3.02/ FS 3205 (Snowshoe Spring 2) ASC**

(Brush, Renovate, Scarify potholes, as needed)

**MP    Remarks**

- 0.00 Jct. 33-1W-29.00. Begin brushing. Begin renovation.
- 0.07 Existing culvert, cross drain.
- 0.17 Existing culvert, cross drain.
- 0.25 Existing culvert, cross drain.
- 0.45 End brushing. End renovation.

**Road 33-2W-13.00 (Walpole Creek ML) ASC**

(Brush, Renovate.)

**MP    Remarks**

- 0.00 Jct. 33-1W-29.00. Begin brushing. Begin renovation.
- 0.03 Jct. creek access spur (left). Possible water source.
- 0.05 Existing culvert (West Branch Trail Creek).
- 0.18 Existing culvert, cross drain.
- 0.23 Existing culvert, cross drain.
- 0.31 Existing culvert, cross drain.
- 0.32 Existing culvert, draw.
- 0.40 Existing culvert, draw.
- 0.51 Existing culvert, draw.
- 0.64 Existing culvert, cross drain.
- 0.76 Existing culvert, draw.
- 0.84 Existing culvert, cross drain.
- 0.88 Jct. 33-2W-13.01 (left). End brushing. End renovation.

**Road 33-2W-13.01 (Walpole )** ASC

(Brush, Renovate, Spot rock / 100 Cu. Yds. pit run )

<b><u>MP</u></b>	<b><u>Remarks</u></b>
0.00	Jct. 33-2W-13.00. Begin brushing. Begin renovation. Existing culvert, ditch drain.
0.02	<b>Spot rock w/ 10 CY pit run</b>
0.05	Existing culvert, draw.
0.19	Existing culvert, cross drain.
0.22	Jct. 33-2W-23.00 (right).
0.24	Existing culvert, draw.
0.32	Jct. creek access (right).
0.33	Existing culvert, draw.
0.37	Jct. 33-2W-23.01 (left).
0.39	<b>Spot rock w/ 20 CY pit run</b>
0.44	Existing culvert, cross drain.
0.55	Existing culvert, cross drain.
0.61	Existing culvert, cross drain. <b>Spot rock w/ 10 CY pit run</b>
0.63	Jct. 33-2W-23.03 (left). <b>Spot rock w/ 20 CY pit run</b>
0.64	Jct. 33-2W-23.02 (right).
0.73	Existing culvert, cross drain.
0.76	Jct. 33-2W-23.04, Y intersection, (right). <b>Spot rock w/ 20 CY pit run</b>
0.78	Jct. 33-2W-23.04, Y intersection, (right).
0.84	Existing culvert, cross drain.
0.92	Existing culvert, cross drain.
1.04	Existing culvert, cross drain.
1.19	Existing culvert, cross drain.
1.34	Jct. 33-2W-23.05 (left) y intersection. Existing culvert, cross drain. <b>Spot rock w/ 20 CY pit run</b>
1.45	Existing culvert, cross drain.
1.55	Existing culvert, cross drain.
1.66	Jct. 33-2W-23.10 (left). Existing culvert. cross drain. End brushing. End renovation.

**Road 33-2W-25.05 (Rocky View 5)** PRR

(Brush, Renovate.)

<b><u>MP</u></b>	<b><u>Remarks</u></b>
0.00	Jct. 33-1W-33.01. Begin brushing. Begin renovation.
0.09	Existing pump chance. End brushing. End renovation.

**Road 33-2W-25.06 (Rocky View 6)** PRR

(Brush, Renovate.)

<b><u>MP</u></b>	<b><u>Remarks</u></b>
0.00	Jct. 33-1W-33.01, Y intersection. Begin brushing. Begin renovation.
0.03	Jct. 33-1W-33.01, Y intersection. Brush intersection.
0.05	Existing culvert, draw.
0.33	End of road. End brushing. End renovation.

**Road 34-2W-1.00 (Right Fork Long Branch) PRR**

(Brush, Renovate.)

**MP**    **Remarks**

- 0.00 Jct. 34-2W-12.02, Y intersection. Begin brushing. Begin renovation.
- 0.03 Jct. 34-2W-12.02, Y intersection.
- 0.08 Existing culvert, cross drain.
- 0.15 Jct. 34-2W-1.06 (right). Existing culvert, cross drain.
- 0.22 Existing culvert, draw.
- 0.40 Existing culvert, cross drain.
- 0.48 Existing culvert, cross drain.
- 0.58 Existing culvert, cross drain.
- 0.72 Jct. unnumbered spur (left, barricaded). Existing landing. End brushing. End renovation.

**Road 34-2W-1.06 (Board East Spur 6) PRR**

(Brush, Renovate.)

**MP**    **Remarks**

- 0.00 Jct. 34-2W-1.00. Begin brushing. Begin renovation.
- 0.24 End brushing. End renovation.

**Road 34-2W-12.02 (Long Branch Loop) ASC**

(Brush, Renovate.)

**MP**    **Remarks**

- 0.00 Jct. 33-1W-29.01. Begin brushing. Begin renovation.
- 0.01 Existing culvert, cross drain.
- 0.11 Jct. 34-2W-1.00, Y intersection. End brushing. End renovation.

## MOUSE TRAIL TIMBER SALE

### Temp Route Work List

**Temp Route 19-9**      **T32S-R1W-Section 19**   NAT.   off of 32-1W-19.00 (Divide)  
(Renovate. Place pit run rock / 20 CY. Decommission. Barricade.)

<u>MP</u>	<u>Remarks</u>
0.00	Jct. 32-1W-19.00. Begin temp route renovation. Decommission after use (rip, water bar, seed, mulch, and barricade).
0.01	Place 20 CY pit run. Construct barricade after use.
0.10	Construct helicopter landing. End temp route renovation.

**Temp Route 31-10**      **T32S-R1W-Section 31**   NAT.   off of 33-1W-5.04 (Wall Creek)  
(Construct. Decommission. Barricade.)

<u>MP</u>	<u>Remarks</u>
0.00	Jct. 33-1W-5.04. Begin temp route construction. Decommission after use (rip, water bar, seed, mulch, and barricade).
0.01	Construct barricade after use.
0.16	Jct. old skid trail.
0.31	Proposed landing location. End temp route construction.

**Temp Route 10-5**      **T33S-R2W-Section 10**   NAT.   off of 33-1W-8 (Buck Rock Road)  
(Re-construct. Decommission. Barricade (3).)

<u>MP</u>	<u>Remarks</u>
0.00	Jct. 33-1W-8.00. Begin temp route re-construction. Decommission after use (rip, water bar, seed, mulch, and barricade).
0.01	Construct barricade after use.
0.04	Construct barricade after use.
0.06	Construct barricade after use.
0.23	Proposed landing location. End temp route re-construction.

**Temp Route 7-3**      **T33S-R1W-Section 7**   NAT.   off of 33-1W-8.01 (Dwinnel)  
(Renovate. Decommission. Barricade.)

<u>MP</u>	<u>Remarks</u>
0.00	Jct. 33-1W-8.01 Begin temp route renovation. Decommission after use (rip, water bar, seed, mulch, and barricade).
0.01	Construct barricade after use.
0.20	Proposed landing location. End temp route renovation.

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## TIMBER SALE ROAD SPECIFICATIONS

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500	Renovation and Improvement of Existing Roads
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2800	Decommissioning

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## TIMBER SALE ROAD SPECIFICATIONS

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### GENERAL – 100

101 - Prewrite Conference(s):

A prework conference will be held prior to the start of new construction, improvements, and renovation operations. The Purchaser shall request the conference at least 72 hours prior to the time it is to be held. The conference will be attended by the Purchaser and/or his representatives, subcontractors and/or his or their representatives and the Authorized Officer and/or his representatives.

The purpose of the prework conference will be to review the required work, exhibits and specifications, and to establish a work schedule and a list of the Purchaser's representatives and subcontractors.

102 - Definitions:

AASHTO - American Association of State Highway and Transportation Officials.  
Current editions of tests and specifications.

ACI - American Concrete Institute

ASTM - American Society for Testing and Materials.

Base Course - Surfacing structure consisting of crushed gravel or stone, crushed sandstone, pitrun rock, bank or river-run gravels, etc., to provide support and, in the event no surface course is placed, the running surface for traffic load.

BLM - Bureau of Land Management

Borrow - Excavated material required for embankments and other portions of the work.

Culvert - A pipe, pipe-arch, arch, or box structure constructed of metal, concrete, plastic or wood which provides an opening under the roadway primarily for the conveyance of liquids, pedestrians or livestock.

Curve Widening - Widening required on inside of curves to accommodate long log and equipment hauling trucks.

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## TIMBER SALE ROAD SPECIFICATIONS

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Embankment - A structure of soil, aggregate, or rock material placed on a prepared ground surface and constructed to subgrade.

End Haul - Excavated material moved, other than by dozer, to an embankment or waste area to prevent sidecasting material outside of the road prism.

Excess Excavation - Material from the roadway in excess of that needed for construction of the designed roadway (waste).

Grading - Leveling to grade, shaping and smoothing of a road subgrade; the shaping of roadside ditches as to grade and contour. In some instances includes smoothing of the cut bank.

Overhaul - Distance excavated material is transported in excess of the distance included in the cost for excavation.

Pioneer Road - Temporary construction access built along the route of the project.

Plans - The approved drawings, or exact reproductions thereof which show the locations, character, dimensions, and details of the work to be done.

Purchaser - The individual, partnership, joint venture, or corporation contracting with the Government under the terms of a Timber Sale Contract and acting independently or through their, or its agents, employees, or contractors.

Roadbed - The graded portion of the road within top and side slopes, prepared as a foundation for the pavement structure and shoulders.

Road Centerline - The longitudinal center of a roadbed.

Road Improvement - Work done to an existing road which improves it over its original design standard.

Road Renovation - Work done to an existing road which restores it to its original design.

Roadway - The portion of a road within limits of construction. Usually from the toe

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## TIMBER SALE ROAD SPECIFICATIONS

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of the fill slope to a point where the cut slope intersects natural ground line. Synonym - road prism.

Scarification - The process of loosening or breaking up of the surface layer of soil or road, usually to a specified depth.

Shoulder - The portion of the roadbed contiguous with the traveled way designed for accommodation of stopped vehicles, safety, and lateral support of base and surface courses.

Spalls - Flakes or chips of stone.

Specifications - A general term applied to all directions, provisions, and requirements pertaining to performance of the work.

Structures - Bridges, culverts, catch basins, retaining walls, underdrains, flumes, splash pads, downspouts, and other project features which may be involved in the work and not otherwise classified in these specifications.

Surface Course - Top layer of a road structure consisting of finely crushed gravels or asphalt designed to provide a smooth running surface for traffic load.

Subgrade - The top surface of a roadbed upon which the traveled way and shoulders are constructed.

Timber - Standing trees, downed trees, or logs which can be measured in board feet.

Traveled Way - The portion of the roadbed used for the movement of vehicles, exclusive of shoulders.

Typical Cross Sections - Cross-sectional plane of a typical roadway; showing natural ground line and designed roadway in relation to cut and fill, through cut, and through fill.

Turnout - Extra widening of the roadbed at appropriate intervals on single-lane roads for passing purposes.

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## TIMBER SALE ROAD SPECIFICATIONS

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102a - Tests Used in These Specifications:

<u>AASHTO T 11</u>	Quantity of rock finer than No. 200 sieve.
<u>AASHTO T 27</u>	Sieve analysis of fine and coarse aggregate using sieves with square openings; gradation.
<u>AASHTO T 89</u>	Liquid limit of material passing the No. 40 sieve. Water content at which the soil passes from a plastic to a liquid state.
<u>AASHTO T 90</u>	Plastic limits and plasticity index of soil. a. Plastic limit - lowest water content at which the soil remains plastic. b. Plasticity index - range of water content, within which the material is in a plastic state. Numerical difference between the liquid and plastic limits of the soil.
<u>AASHTO T 96</u>	Resistance to abrasion of small size coarse aggregate by use of the Los Angeles machine.
<u>AASHTO T 99</u>	Relationship between soil moisture and density of soil. Method A - 4" mold, soil passing a No. 4 sieve 25 blows/layer & 3 layers. Method C - 4" mold, soil passing a 3/4 inch sieve 25 blows/layer & 3 layers. Method D - 6" mold, soil passing a 3/4 inch sieve. 56 blows/layer & 3 layers.
<u>AASHTO T 176</u>	Shows relative portions of fine dust or claylike materials in soil or graded aggregate.
<u>AASHTO T 180</u>	(OSHD 106-71) moisture density relationship of soil same as AASHTO T 99 proctor but uses a 10-lb rammer & 18-in drop height.

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## TIMBER SALE ROAD SPECIFICATIONS

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<u>AASHTO T 191</u>	<u>Sand Cone.</u> Density of soil in place: For subgrade use 6-inch or 12-inch cone. For rock surfacing for 1-1/2-inch minus to 3-inch minus use 12-inch cone.
<u>AASHTO T 205</u>	<u>Rubber balloon.</u> Density of soil in place. Use for compacted or firmly bonded soil.
<u>AASHTO T 209</u>	Maximum Specific Gravity of Bituminous Paving Mixtures.
<u>AASHTO T 210</u>	Durability of aggregates based on resistance to produce fines.
<u>AASHTO T 224</u>	Correction for coarse particles in the soil.
<u>AASHTO T 238</u>	Density of Soil and Soil-Aggregate in place by nuclear methods.
<u>AASHTO T 248</u>	Reducing field samples of aggregate to testing size by mechanical splitter, quartering, or miniature stockpile sampling.
<u>ASTM D 4564</u>	Determination of relative density of cohesionless soils.
<u>DMSO (dimethyl sulfide)</u>	Determines volume of expanding clays in aggregates. Usually associated with marine basalts.

103 - Compaction equipment shall meet the following requirements:

103f - Vibratory roller. The drum diameter shall be not less than 48 inches, the drum width not less than 58 inches, and have a turning radius of 15 feet or less. Vibration frequency shall be regulated in steps to 1400, 1500, and 1600 vibrations per minute (VPM), corresponding to engine speeds of 1575, 1690, and 1800 RPM. The centrifugal force developed shall be 7 tons at 1600 RPM. It shall be activated by a power unit of not less than 25 horsepower. The vibratory roller shall be self-propelled or drawn by a vehicle of sufficient horsepower to enable the unit to travel through a loose layer of material at a speed ranging from 0.9 mile to 1.8 miles per hour, as directed by the Authorized Officer.

103g - Vibratory compactor. Vibratory compactors shall consist of multiple or gang-type

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## TIMBER SALE ROAD SPECIFICATIONS

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compacting units or pads with a minimum variable width of 2 feet. It shall be self-contained and capable of compacting material as required.

103i - Other. Compaction equipment approved by the Authorized Officer.

### CLEARING AND GRUBBING – 200

- 201 - This work shall consist of clearing, grubbing, removing and disposing of vegetation, debris, surface objects, and protruding obstructions within the clearing limits in accordance with these specifications and conforming to the lines, grades, dimensions and typical cross sections shown on the plans and as staked on the ground.
- 201a - This work shall consist of clearing, grubbing, removing and disposing of vegetation, debris, surface objects, and protruding obstructions from borrow pits, quarries, channel changes, stockpile sites, etc., in accordance with these specifications.
- 202 - Where clearing limits have not been staked, established by these specifications or shown on the plans, the limits shall extend 2 feet back of the top of the cut slope and 5 feet out from the toe of the fill slope.
- 202a - Where clearing limits for structures have not been staked or shown on the plans, the limits shall extend 10 feet out from the outside edge of the structure.
- 202b - Where clearing limits for quarries and stockpile sites have not been staked or shown on the plans, the limits shall extend 10 feet back of the top of the cut slope and 5 feet outside of the outside slope lines.
- 203 - Clearing shall consist of the removal and disposal of trees, logs, rotten material, brush, and other vegetative materials and surface objects in accordance with these specifications and within the limits established for clearing as specified under Subsections 202, 202a, and 202b.
- 203b - Standing trees and snags to be cleared shall be felled within the limits established for clearing unless otherwise authorized.

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## TIMBER SALE ROAD SPECIFICATIONS

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- 203c - Disposal of logs from private timber cleared within the limits established or as shown on the plans shall consist of decking at a location shown on the plans or at a location designated by the Authorized Officer.
- 204 - Grubbing shall consist of the removal and disposal of stumps, roots, and other wood material embedded in the ground and protruding obstacles remaining as a result of the clearing operation between the top of the cut slope and the toe of the fill slope.
- 205 - Clearing and grubbing debris shall not be placed or permitted to remain in or under road embankment sections.
- 208 - Trees and limbs 4 inches in diameter and smaller, and rotten logs and similarly decomposed, degradable vegetation shall be broken down into pieces not larger than 4 inches in diameter and 3 feet in length, and shall be distributed in thin layers throughout those embankment portions which are 3 feet or more below subgrade elevation. The debris shall be placed in a manner to prevent bunching or nesting and be clear of culvert pipe and structures.
- 208c - Clearing debris shall be placed outside the roadway in a neat, compacted windrow laid approximately parallel and along the toe-line of embankment slopes. The top of the windrow shall not extend above the subgrade. Material in the windrow shall be matted down with construction equipment to form a compact and uniform pile. Windrows shall have 16-foot minimum breaks at least every 100 feet. Windrows shall not be placed against trees. The clearing debris may remain within the clearing limits if it does not adversely affect the road/landing construction and their use, as determined by the Authorized Officer.
- 210 - Disposal of clearing, grubbing debris, stumps, and cull logs shall be by scattering over government owned lands outside of established clearing limits in a manner acceptable to the Authorized Officer. The areas for such scattering shall have the prior approval of the Authorized Officer.
- 210b - Clearing, grubbing debris, stumps, and cull logs resulting from road construction on non-Government property shall be loaded and hauled to designated areas, as shown on the plan. Disposal shall be by scattering in accordance with Subsection 210 and or piling in accordance with Subsection 211.

## **TIMBER SALE ROAD SPECIFICATIONS**

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- 211 - Disposal of clearing, grubbing debris, stumps, and cull logs shall be by piling on government lands outside of established clearing limits in an area and in a manner acceptable to the Authorized Officer.
- 213 - No clearing or grubbing debris shall be left lodged against standing trees.

### RENOVATION AND IMPROVEMENT OF EXISTING ROADS – 500

- 501 - This work shall consist of reconditioning and preparing the roadbed and shoulders, minor excavation and/or embankment, cleaning and shaping drainage ditches, trimming vegetation from cut and embankment slopes, and cleaning and repairing drainage structures of existing roads in accordance with these specifications, as shown on the plans, and as marked on the ground with stakes.
- 501a - This work shall include the removal and disposal of slides in accordance with these specifications.
- 502 - The existing road surface shall be bladed and shaped to the lines, grades, dimensions, and typical cross sections shown on the plans.
- 502b - Drainage ditches shall be bladed and shaped in accordance with the lines, grades, dimensions, typical cross sections shown on the plans, and as directed by the Authorized Officer.
- 504a - Minimum compaction required shall be 1 hour of continuous rolling for each 3 stations of road, or fraction thereof, as measured along the centerline per layer of material.
- 506 - The inlet end of all existing drainage structures shall be cleared of vegetative debris and boulders that are of sufficient size to obstruct normal stream flow. Pipe inverts shall be cleared of sediment and other debris lodged in the barrel of the pipe. The outflow area of all pipe structures shall be cleared of rock and vegetative obstructions which will impede the structure's designed outflow configuration. Catch basins shall conform to the lines, grade, dimensions, and typical diagram shown on the plans.

## **TIMBER SALE ROAD SPECIFICATIONS**

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- 509 - The finished grading shall be approved by the Authorized Officer 1 day prior to surfacing operations. The Purchaser shall give the Authorized Officer 3days notice prior to final inspection of the grading operations.

### WATERING – 600

- 601 - This work shall consist of furnishing and applying water required for the compaction of embankments, roadbeds, backfills, base courses, surface courses, finishing and reconditioning of existing roadbeds, laying dust, or for other uses in accordance with these specifications.
- 602 - Water, when needed for compaction or laying dust, shall be applied at the locations, in the amounts, and during the hours as directed by the Authorized Officer. Amounts of water to be provided will be the minimum needed to properly execute the compaction requirements in conformance with these specifications, and for laying dust during work periods.
- 603 - Water trucks used in this work shall be equipped with a distributing device of ample capacity and of such design as to ensure uniform application of water on the road bed.
- 605 - The Purchaser shall secure the necessary water permits and pay all required water fees for use of the water sources selected by the Purchaser and approved by the Authorized Officer.

### AGGREGATE BASE COURSE - 700 PITRUN ROCK MATERIAL

- 701 - This work shall consist of furnishing, hauling and placing one or more layers of pitrun rock material on roadbeds and landings approved for placing pitrun materials in accordance with these specifications and conforming to the dimensions and typical cross sections shown on the plans.
- 702 - Pitrun rock materials used in this work shall be obtained from sources shown on the plans.

## **TIMBER SALE ROAD SPECIFICATIONS**

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- 702a - Pitrun rock materials used in this work may be obtained from sources selected by the Purchaser at his option, providing the materials furnished comply with these specifications and the source is approved in writing by the Authorized Officer prior to use.
- 703 - Pitrun rock materials shall consist of talus rock, bank run or river run gravels, partly decomposed granite or basalt, cinders, or other approved materials. The materials shall be reasonably free from vegetative matter or other deleterious material. The material obtained from the sources shall consist of the best material available from these sources as designated by the Authorized Officer.
- 704 - Pitrun rock material shall consist of native materials of such a size and grading that it can be taken directly from the source and placed on the road without crushing or screening. The material shall contain only occasional oversize particles to be removed. The term "oversize" shall be construed to mean material greater than 6 inches.
- 705 - Pitrun rock material shall be placed in layers of sufficient thickness to accommodate the material, except that the maximum thickness of any layer shall not exceed 6 inches. Where the total specified thickness is greater than 6 inches the material shall be placed in two or more layers of equal thickness.
- 706 - Oversize material that cannot be accommodated in the layer shall be removed at the source or on the road, and shall be disposed of as directed by the Authorized Officer.
- 707 - When so indicated by the plans, filler or binder obtained from the sources shall be uniformly blended with pitrun rock material on the road.
- 708 - The roadbed as shaped and compacted under sections 300 and 500 of these specifications shall be approved by the Authorized Officer prior to placement of pitrun rock material.
- 709 - Pitrun rock material shall be placed on roadbed, blade processed and spread to required dimensions.
- 710 - Pitrun rock material shall be compacted by routing construction and hauling equipment over the full width of each layer placed.

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## **TIMBER SALE ROAD SPECIFICATIONS**

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- 711 - Layers of pitrun rock material placed and shaped as specified shall be uniformly moistened or dried to the optimum moisture content for maximum density and compacted to full width by compacting equipment conforming to the requirements of Subsections 103f, 103g, 103h, or 103i. Minimum compaction shall be (6) passes over each full-width layer, or fraction thereof.
- 712 - Pitrun rock material shall be surface bladed during the compaction operation to remove irregularities and to produce a smooth running surface.

### AGGREGATE SURFACE COURSE - 1200 CRUSHED ROCK MATERIAL

- 1201 - This work shall consist of furnishing, hauling, and placing one or more layers of crushed rock material on roadbeds and base courses approved for placing crushed rock material in accordance with these specifications and conforming to the dimensions and typical cross sections shown on the plans. Material not conforming to these specifications will be rejected and shall be removed from the road.
- 1202 - Crushed rock materials used in this work shall consist of quarry rock, stone, gravel, or other approved materials obtained from sources shown on the plans. Development and mining of such sources shall be in accordance with Subsection 1601 of these specifications.
- 1202a - Crushed rock materials used in this work may be obtained from commercial sources selected by the Purchaser at his option and expense, providing the rock materials furnished comply with the specifications.
- 1204 - Crushed rock material shall consist of hard durable rock fragments conforming to the following gradation requirements:

#### TABLE 1204

### AGGREGATE SURFACE COURSE CRUSHED ROCK MATERIAL

Percentage by weight passing square mesh sieves

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**TIMBER SALE ROAD SPECIFICATIONS**

AASHTO T 11 & T 27  
 GRADATION

Sieve Designation	C	C-1	D	D-1	E	E-1
1-1/2-inch	100	<b>100</b>	-	-	-	-
1-inch	-	-	100	100	-	-
3/4-inch	50-90	<b>60-90</b>	-	70-98	100	100
1/2-inch	-	-	-	-	-	70-98
No. 4	25-50	<b>30-55</b>	30-60	36-60	40-75	44-70
No. 8	-	<b>22-43</b>	-	25-47	-	30-54
No. 30	-	<b>11-27</b>	-	12-31	-	15-34
No. 40	5-25	-	5-30	-	5-35	-
No. 200	2-15	<b>3-15</b>	3-15	3-15	2-15	3-15

1205 - Crushed rock material retained on the No. 4 sieve shall have a percentage of loss of not more than 35 at 500 revolutions, as determined by AASHTO T 96.

1206 - Crushed rock material shall show a durability value of not less than 35 as determined by AASHTO T210.

1208a - Each layer of crushed rock material shall be thoroughly mixed on the roadbed by alternately blading, to full depth, until a uniform mixture has been obtained. The mixture shall then be spread to full width. When completed, the spreading shall produce a surface which is smooth, presents uniform shoulder lines, and conforms to the specified cross section.

1209 - Shaping and compacting of roadbed shall be completed and approved in writing, prior to placing crushed rock material. Notification for final inspection prior to rocking shall be 3 days prior to the inspection and shall be 10 days prior to start of surfacing operations.

1210 - Crushed rock material conforming to the requirements of these specifications shall be placed on the approved roadbed in accordance with these specifications and conforming to the lines, grades, dimensions, and typical cross sections shown on the plans and staked on the ground. Compacted layers shall not exceed 4 inches in depth. When more than

**TIMBER SALE ROAD SPECIFICATIONS**

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one layer is required, each shall be shaped, processed, compacted, and approved in writing by the Authorized Officer before the succeeding layer is placed. Irregularities or depressions that develop during compaction of the top layer shall be corrected by loosening the material at these places and then adding or removing crushed rock material until the surface is smooth and uniform.

- 1210a - Crushed rock material used to repair or reinforce soft, muddy, frozen, yielding, or rutted roadbed shall not be construed as surfacing required by this specification.
- 1212 - Each layer of crushed rock material placed, processed, and shaped as specified shall be moistened or dried to a uniform moisture content suitable for maximum compaction and compacted to full width by compacting equipment conforming to the requirements of Sections 103 . Minimum compaction shall be 1 hour of continuous compacting for each 150 cubic yards of crushed rock material placed.
- 1215 - The Purchaser is authorized to remove crushed rock material from BLM stockpiles for placement on the roads in accordance with the requirements and details shown on the plans and as follows:

Stockpile Name	Willamette Meridian			Subdivision
	Sec.	T.	R.	
Sec. 28	28	32S	01W	SW1/4SW1/4

SOIL STABILIZATION – 1800

- 1802a - Soil stabilization work consisting of seeding and mulching shall be performed on road renovation and improvements, landings, disturbed areas, and disposal sites in accordance with these specifications and as shown on the plans.
- 1803 - Soil stabilization work as specified under Subsections 1802 and 1802a shall be

## TIMBER SALE ROAD SPECIFICATIONS

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performed during the following seasonal periods:

From: August 15	To: October 15
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The Authorized Officer may modify the above seasonal dates to conform to existing weather conditions and changes in the construction schedule.

- 1804 - The BLM shall provide native grass/forb seed for this project. If BLM is unable to provide native seed, the Purchaser shall furnish species of grass/forb seed as designated by the Authorized Officer.

The Purchaser shall provide seed mixtures that is free of noxious weed species.

- 1808a - Straw mulch shall be from native grass or other approved grain crops which are certified weed free, and free from noxious weeds, mold, or other objectionable materials. Straw mulch shall be in an air-dry condition and suitable for placing in a uniform manner. Straw mulch shall be applied evenly in treatment areas to a depth of 2 inches (approximately 1000 lbs/ac), or as directed by the Authorized Officer.
- 1809 - Mulch material shall be delivered to the work area in a dry state. Material found to be wet will not be accepted. Material to be used in the mulching operation may be stockpiled along the road designated for treatment provided that it is maintained in a dry state and has the approval of the Authorized Officer.
- 1810 - Bulk mulching material required under these specifications shall be delivered to the work area bound either by twine, string or hemp rope. Wire binding will not be permitted.
- 1812 - The Purchaser shall furnish, unless Government furnished, and apply to the areas designated for treatment as shown on the plans and as specified, a mixture of grass seed and mulch, material at the application rate to be determined by the Authorized Officer based on visual observation of trial applications.

Mulches shall be spread/placed in treatment areas to a depth of 2 inches to allow seed germination or as directed by the Authorized Officer. Treatment area will be covered

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### TIMBER SALE ROAD SPECIFICATIONS

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evenly and completely. Mulch can be broadcast onto the soil surface by hand or with hand/mechanical operated spreaders.)

Grass Seed	15 lbs./acre
Fertilizer	320 lbs./acre
Mulch	2000 lbs./acre

- 1814 - The Purchaser may reduce the application rate on partially covered slopes and refrain from application on areas already well stocked with grass or on rock surfaces as determined by the Authorized Officer.
- 1819 - The Purchaser shall notify the Authorized Officer at least 3 day in advance of date he intends to commence the specified soil stabilization work.
- 1821 - Mulch that collects at the end of culverts or accumulates to excessive depths on the slopes shall be evenly spread by hand methods, as directed by the Authorized Officer.
- 1822 - No materials shall be applied when wind velocities would prevent a uniform application of the mix or slurry or when winds would drift the mix or slurry spray outside of the designated treatment area.
- 1824 - Twine, rope, sacks, and other debris resulting from the soil-stabilization operation shall be picked up and disposed of to the satisfaction of the Authorized Officer.

#### ROADSIDE BRUSHING – 2100

- 2101 - This work shall consist of the removal of vegetation from the road prism - variable distance, and inside curves in accordance with these specifications and conforming to the lines, grades, dimensions, and typical cross sections shown on the Roadside Brushing Detail Sheet of this exhibit, at designated locations as shown in the plans.
- 2102 - Roadside brushing may be performed mechanically with self powered, self-propelled equipment and or manually with hand tools, including chain saws.

## **TIMBER SALE ROAD SPECIFICATIONS**

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- 2103 - Vegetation cut manually and / or mechanically less than 6 inches in diameter when measured D.B.H. shall be cut to a maximum height of 2 inches above the ground surface or above obstructions such as rocks or stumps on cut and fill slopes and all limbs will be severed from the trunk.
- 2103a - Vegetation shall be cut and removed from the road bed between the outside shoulders and the ditch centerline and such vegetation shall be cut to a maximum height of 1 inch above the ground and running surface. All limbs will be severed from the trunk. Sharp pointed ends will not be permitted. Cuts shall be parallel to the ground line or running surface.
- 2104 - Trees in excess of 6 inches in diameter at D.B.H. shall be limbed, so that no limbs extend into the treated area or over the roadbed to a height of 14 feet above the running surface of the roadway on cut and fill slopes, within the road prism-variable distance. Limbs shall be cut to within 1 inch of the trunk to produce a smooth vertical face. Removal of trees larger than 6 inches in diameter for sight distance or safety may be directed by the Authorized Officer.
- 2105 - Vegetation that is outside of the road prism-variable distance that protrudes into the road prism and within 14 feet in elevation above the running surface shall be cut, to within 1 inch of the trunk to produce a smooth vertical face.
- 2106 - Vegetative growth capable of growing 1 foot in height or higher shall be cut, within the road prism-variable distance or as directed by the Authorized Officer.
- 2107 - Inside curves shall be brushed out for a sight distance of 200 feet chord distance and a middle ordinate distance of 25 feet. Overhanging limbs and vegetation in excess of 1 foot in height shall be cut within these areas.
- 2108 - Self propelled equipment shall not be permitted on cut and fill slopes or in ditches.
- 2109 - Debris resulting from this operation shall be scattered downslope from the roadway. Debris shall not be allowed to accumulate in concentrations. Debris in excess of 1 foot in length and 2 inches in diameter shall not be allowed to remain on cut slopes, ditches, roadways or water courses, or as directed by the Authorized Officer.

## **TIMBER SALE ROAD SPECIFICATIONS**

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- 2115 - Mechanical brush cutters shall not be operated when there are people and occupied vehicles within 400 feet of the immediate operating area.
- 2116 - Traffic warning signs shall be required at each end of the work area. Signs shall meet the requirements of the Manual on Uniform Traffic Devices.

### TEMPORARY LOGGING SPURS 2700

- 2701 - Clearing, Grubbing and Excavation activities of temporary spur roads shown on Exhibit A shall be performed in accordance with Exhibit C, sections 200 and 300 with prior approval of the Authorized Officer.
- 2702 - Construction of temporary spur roads shall be to minimum width and to typical grading section 3 as shown in Exhibit C-4.
- 2703 - Temporary spur roads are to be constructed, used, ripped, water barred, seeded, mulched and blocked during the same operating season.

### ROAD DECOMMISSIONING 2800

- 2801 - If a road requires renovation, and then decommissioning after use, both operations shall be performed the same operating season.
- 2810 - Full decommissioning shall consist of the following treatments:
  - a. Remove all cross drain and draw culverts, restore stream channel to the same adjacent stream gradient. The side slopes will be no steeper than 2 to 1 or match existing stream channel as directed by the authorized officer. Potentially unstable fills will be removed and all disturbed soil will be seeded and mulched.
  - b. Rip the roadways to a depth of 18" with 12" spacing, with wing toothed ripper or subsoiler.
  - c. Construct water bars at 100' spacing, or as staked or directed by the Authorized

## **TIMBER SALE ROAD SPECIFICATIONS**

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Officer's Representative.

- d. Seed and straw mulch roads and disturbed areas, with Government furnished seed, and Purchaser furnished straw. See Section 1800.
- e. The Purchaser shall construct two log/earth barricades near the beginning of each road to be decommissioned. The final locations will be staked by the Authorized Officer's Rep.
- f. All existing culverts removed as specified in the plans or as directed by the Authorized Officer shall be hauled away and properly disposed of by the Purchaser.

## SPECIAL PROVISIONS

1. SEASONAL RESTRICTION . - . Waivers may be granted if conditions are favorable.

<u>ACTIVITY</u>	<u>START DATE</u>	<u>END DATE</u>
Road renovation	May 15	Oct. 15
In stream	June 15	Sept. 15

2. START-UP and SHUTDOWN:

- Before the initial start of road renovation, construction, reconstruction, or surfacing operations, or after a shutdown of 7 or more days, the Purchaser shall notify the Authorized Officer 48 hours in advance of the date they plan to begin operations. The Purchaser shall also notify the Authorized Officer if they intend to cease operations for any period of 30 or more days.

3. PERMITS:

- All permits required are the responsibility of the Purchaser.

4. WATER SOURCE:

- The Purchaser is responsible for obtaining water and associated rights and permits.

5. DAMAGE:

- The contractor shall protect and is responsible for any damage to existing telephone lines, transmission lines, fiber optic lines, fences, ditches, and other existing improvements as required in Section 14. Damage to utilities and existing improvements shall be promptly paid for or repaired to a condition which is, in the opinion of the Authorized Officer and the governing utility company, at least as good as the condition just prior to such damage.

6. DUST ABATEMENT:

- The application of dust abatement materials such as Lignin, Mag-chloride, or approved petroleum based dust abatement products shall be restricted from application just after wet weather or at stream crossings or other locations that could result in direct delivery to a water body.

7. SOIL STABILIZATION:

- All disturbed soil shall be seeded and mulched. Purchaser shall apply native grass seed and Certified Weed Free straw mulch for soil stabilization operations. BLM will furnish native grass seed, if available. BLM will furnish certified weed free straw, if available. The Purchaser shall supply certified weed free straw in not available from the BLM.

INDEX

SECTION	DESCRIPTION
3000	General
3100	Operational Maintenance
3200	Seasonal Maintenance
3300	Final Maintenance
3400	Other Maintenance
3500	Decommissioning
	Exhibit D Map

**GENERAL – 3000**

- 3001 The Purchaser shall be required to maintain all roads listed and/or referenced in section 41, as shown on the Exhibit D-2 maps of this contract in accordance with Sections 3000, 3100, 3200, 3300, and 3400 of this exhibit.
- 3002 The Purchaser shall maintain the cross section of existing dirt or graveled roads to the existing geometric standards. Any roads required to be constructed, improved, or renovated under terms of this contract shall be maintained to the geometric standards required in Exhibit C of this contract.
- 3003 The minimum required maintenance on any roads shall include the provisions specified in Subsections 3101, 3104, and 3105.
- 3004 The Purchaser shall be responsible for providing timely maintenance and cleanup on any roads with logging units substantially completed prior to moving operations to other roads. The maximum length of non-maintained or non-cleanup of the road prism shall not exceed the sum of one (1) mile at any time. Release of maintenance requirements may be granted, upon written request, when the conditions specified in Sections 3300 and 3400 are met satisfactorily.

**OPERATIONAL MAINTENANCE – 3100**

- 3101 The Purchaser shall blade and shape the road surface and shoulders with a motor grader. Banks shall not be undercut. Back blading with tractors or similar equipment will be allowed only around landings and other areas when approved by the Authorized Officer.
- 3102 The Purchaser shall place 200 cu. yds. of stockpiled aggregate conforming to the requirements in Section 1200 of Exhibit C of this contract on the roadway at locations and in the amounts designated by the Authorized Officer.

Stockpiled aggregate shall be obtained from the following BLM stockpiles:

Stockpile Name	Section	T.	R.	Approx. Cubic Yards	Road Number
Section 28 Pit	28	32S	1W	200	

This aggregate shall be used to repair surface failures and areas of depleted surface depth excluding damages covered by Section 12 of this contract. The aggregate shall be furnished, hauled, placed, spread, and compacted by use of dump trucks, water trucks, and motor grader or

similar equipment.

- 3103 The purchaser shall maintain established berms and place additional berms using adjacent material where needed to protect fills as directed by the Authorized Officer.
- 3104 The purchaser shall perform other road cleanup including removal of debris, fallen timber, bank slough, and slides which can practicably be accomplished by a motor grader, rubber tired front end bucket loader, rubber tired backhoe or comparable equipment, and by the use of hand tools.
- 3104a Removal of bank slough and slide material includes placement of material at the nearest designated, suitable disposal site where material cannot erode into streams, lakes, or reservoirs or cause undue damage to road fill slopes which have been planted or mulched to control soil erosion as directed by the Authorized Officer.
- 3104b The Purchaser shall be responsible for removal of all slides or slough, up to fifteen station yards in quantity, at any one site. This work includes unlimited multiple sites on all roads required to be maintained by the purchaser.

Prior to removal of any slough or slide material exceeding fifteen station yards at any one site, the Purchaser and the Authorized Officer or their Authorized Representatives shall agree in writing, in the field, to the quantity of material, method of disposal, and the disposal site. Work may commence immediately after agreement.

Upon completion of agreed upon work, a reduction in timber sale purchase price will be made to offset the cost of the work, based on current BLM Road Cost Guide. Adjustments in purchase price for completed work shall be made as necessary and no less than once per year when actual work is ongoing.

- 3105 The Purchaser shall be responsible for maintaining normal flow in drainage structures. This includes cleaning out drainage ditches, catch basins, clearing pipe inverts of sediment and other debris lodged in the barrel of the pipe, and maintaining water dips and water-bars using equipment specified in Subsection 3104 and other culvert cleaning and flushing equipment.
- 3106 The Purchaser shall be responsible for repair and replacement of all materials eroded from road shoulders and fill slopes, up to fifteen station yards in quantity, at any one site. This work includes unlimited multiple sites on all roads required to be maintained by the Purchaser. Prior to repair and replacement of eroded material exceeding fifteen station yards at any one site, the Purchaser and the Authorized Officer or their Authorized Representatives shall agree in writing, in the field, to the quantity of material, borrow source and method of repair. Work may commence immediately after agreement.

Upon completion of agreed upon work, a reduction in timber sale purchase price will be made to offset the cost of the work based upon current BLM Road Cost Guide. Adjustments in purchase price for completed work shall be made as necessary and no less than once per year when actual work is ongoing.

3107 The Purchaser shall cut or trim trees and brush which obstructs vision or prevents the safe passage of traffic along the traveled way when directed by the Authorized Officer.

The Purchaser shall also cut trees or brush encroaching on the road prism that are a result of his activities or winter damage during the contract period. Disposal of such vegetative material shall be in accordance with Section 2100 of Exhibit C.

3108 The Purchaser shall avoid fouling gravel or bituminous surfaces through covering with earth and debris from side ditches, slides or other sources. The Purchaser shall also avoid blading surfacing material off the running surface of the roadway. Skidding of logs on the roadway in or outside designated logging units is not authorized without prior written approval by the Authorized Officer. Repair required caused by such skidding activity is not considered maintenance and shall be repaired at the Purchaser's expense.

3108a The Purchaser shall perform logging operations on gravel roadways only where the locations have been marked on the ground and/or approved by the Authorized Officer. The Purchaser shall furnish gravel for necessary repairs at designated locations. Repair of the roads is not considered maintenance and shall be repaired at the Purchaser's expense.

### **SEASONAL MAINTENANCE - 3200**

3201 The Purchaser shall perform preventative maintenance at the end of Purchaser's hauling each season and during non-hauling periods which occur between other operations on the contract area. This includes requirements specified in Section 3100.

3202 The purchaser shall perform and complete maintenance specified in Sections 3000, 3100, and 3200 on all roads maintained by him, prior to October 15 each year, except as specified in Subsection 3203, after initial commencement of construction or logging operations. Thereafter, all roads shall have continuous preventive maintenance and road cleanup until suspension of seasonal operations. This includes all roads used and not used during the preceding operating seasons.

3203 The Purchaser shall complete road cleanup and maintenance, as specified in Section 3100, at the completion of logging operations on any roads located in an area separate from the area where logging activities will resume.

3204 The Purchaser shall be responsible for performing post storm inspections and maintenance during the winter season to minimize erosion and potential road or watershed damage.

**FINAL MAINTENANCE - 3300**

3301 The Purchaser shall complete final maintenance and/or damage repairs on all roads used under terms of their contract within thirty 30 calendar days following the completion of hauling and in accordance with Sec. 16(b) of this contract. This work shall include any maintenance and/or damage repairs specified in Sections 3000, 3100, and 3200 necessary to meet the conditions specified in Subsection 3002 and shall be executed in accordance with Subsection 3302 of this section.

The Authorized Officer may grant acceptance of Purchaser's maintenance responsibility in part where certain individual roads or road segments are no longer of any use to the Purchaser's remaining removal operations, providing that all contract requirements as specified under Sec. 16(b), Special Provisions Sections 3000, 3100, 3200 and 3300 of the maintenance specifications have been completed and a relinquishment of cutting and removal rights on cutting units tributary to these roads is signed by the Purchaser. Request for partial acceptance must be submitted in writing by the Purchaser.

3302 The Purchaser shall perform final road maintenance only when weather or soil moisture conditions are suitable for normal maintenance equipment operations as determined by the Authorized Officer.

If final maintenance is delayed after the date required in Subsection 3301 of this contract by adverse soil moisture or unsuitable equipment operating conditions, the Purchaser will be notified by the Authorized Officer when soil moisture and equipment operating conditions are suitable. The Purchaser shall then be required to complete final maintenance within 30 days.

**OTHER MAINTENANCE – 3400**

3401 The Purchaser shall repair any damage to road surfaces that was specified under Subsection 3108 and 3108a. This repair includes restoring the roadway to the designed standard and replacement of surfacing with approved surface material. This repair is not limited to use of equipment specified in Subsection 3104.

3402 The Purchaser shall be permitted to remove ice and snow from roads authorized for use under this contract only when prior written approval has been secured from the Authorized Officer.

The Purchaser shall submit a written request for permission to remove ice and snow in advance of the date operations are to begin.

Upon receiving written authorization for ice or snow removal, the Purchaser will perform the work according to the conditions and equipment requirements set forth in the authorization.

3403

The Purchaser shall be required to furnish and apply non-saline water during dry hauling periods, when directed by the Authorized Officer, for the purpose of laying dust and to prevent loss of surface material. The first application of water shall be made at the rate of one-half gallon per yd<sup>2</sup> of road surface traveled. Subsequent applications shall be made for each 40 MBF of timber or 120 yds<sup>3</sup> of rock hauled. Subsequent watering may be done at a rate less than one-half gallon per yd<sup>2</sup> when a specified lesser rate is approved by the Authorized Officer.

The roads shown in Exhibit C shall be watered.

The Purchaser shall secure any necessary water permits and pay all required water fees for use of the water sources selected by the Purchaser and approved by the Authorized Officer.

Water required under these specifications shall be obtained at the times and at the locations indicated below:

Common Name	Willamette Meridian			Dates Available	
	Section	T	R	From	To
Sec. 21 Pump Chance	21	32	1W		
29.03 Pump Chance	29	32	1W		
33.01 ML Pump Chance	29	32	1W		
33.02 ML Pump Chance	33	32	1W		
8.01 Pump Chance	7	33	1W		
19.00 ML Pump Chance	19	33	1W		
19.00 Pump Chance	19	33	1W		
32.00 ML Pump Chance	31	33	1W		
3.01 Pump Chance	3	33	2W		

25.05 Pump Chance	25	33	2W		
-------------------	----	----	----	--	--

During drought periods when the transportation of water from the source to the roads noted above exceeds 12 miles, a reduction shall be made in the total purchase price to reflect the additional haul or the substitution of other acceptable dust palliatives in lieu of watering based on equipment rental rates from the current BLM Road Cost Guide.

- 3403a During dry hauling conditions when watering is not required, the Purchaser shall reduce hauling speeds or restrict the number of loads hauled to reduce dust as directed by the Authorized Officer.  
 Adjustments to the above schedules may be made by the Authorized Officer at his option as hauling conditions improve. The Purchaser, at his option and expense, may elect to substitute watering or other dust palliatives in lieu of the above hauling requirements provided that written approval is received from the Authorized Officer. Such authorization shall include the approval of product specifications for the application and the product to be used.
- 3404 The Purchaser may at his option and expense substitute lignin sulfonate or magnesium chloride for water on any or all road segments listed in Subsection 3403 provided that written approval is received from the Authorized Officer. Such authorization shall include the approval of product specifications for the application of the product to be used. Multiple applications may be required to maintain the conditions specified in Subsection 3403.
- 3408 Dust palliatives shall be applied with standard commercial distribution equipment operated in a manner that the material is uniformly applied on variable widths of surface at controlled rates.
- 3410 The Purchaser shall submit an application schedule for all dust palliative work to the Authorized Officer for approval. All work shall be in accordance with the approved plan.

**DECOMMISSIONING – 3500**

- 3501 Decommissioning shall consist of ripping or subsoiling, installing water bars, placement of soil stabilization materials, and / or blocking road from access by vehicles. This work is not required for road acceptance under Section 18 of this contract.
- 3503 Decommissioning shall be performed on existing roads in accordance with these specifications, and as shown on the plans at the following locations:

Road No or Site	From Sta/MP	To Sta/MP	Decommission
Temp Route 19-9	0.00	0.10	full
Temp Route 31-10	0.00	0.20	full

Temp Route 10-5	0.00	0.23	full
Temp Route 7-3	0.00	0.20	full

3504 Decommissioning work shall be completed after road use. All decommissioning work shall be performed during the following seasonal periods:

From: Sept. 15	To: Oct. 15 (of the same year)
----------------	-----------------------------------

3506 Stockpiled slash shall be used to protect exposed areas created by the Purchaser's decommissioning operations described in these sections. Slash shall be uniformly spread and placed without bunching. The operation shall produce a dense, uniform mat. Where slash is no longer available or remaining exposed soil areas shall be stabilized in accordance with Section 1800.

3507 Culverts not designated as salvage by the Authorized Officer for the Government shall become the property of the Purchaser. The Purchaser shall be responsible for disposal of materials in a legal manner and for payment of any fees required. Sale of material on site is not allowed unless authorized in writing by the Authorized Officer.

3508 Protect areas mulched and treated with slash placement from damage by Purchaser traffic or construction equipment. Damaged areas shall be repaired by the Purchaser.

3509 Access shall be blocked with barricades as shown on the typical detail sheet and at locations as shown on Exhibit C-12.

3511 Ripping and water barring shall be done on designated roadways, temporary roads, disturbed areas, and landings. Ripping shall be performed with wing-toothed rippers, or excavator modified for tillage.

3513 Water bars shall be installed across full width of roadway at spacing shown in the specifications. Water bars shall be constructed as shown on Exhibit C-7.

3514 Protection of exposed surfaces shall be accomplished by placement of soil stabilization material in accordance with Section 1800 and/or placement of slash described in Subsection 3506 on designated roadways, temporary roads, disturbed areas, landings, cut banks, fill slopes and other areas disturbed by the purchaser's decommissioning operations in accordance with these specifications and as shown in the plans.

# EXHIBIT D2

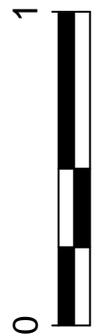
## SHEET 1 OF 4

MOUSE TRAIL  
TIMBER SALE  
TRACT NO. ORM050-TS-2014.0009

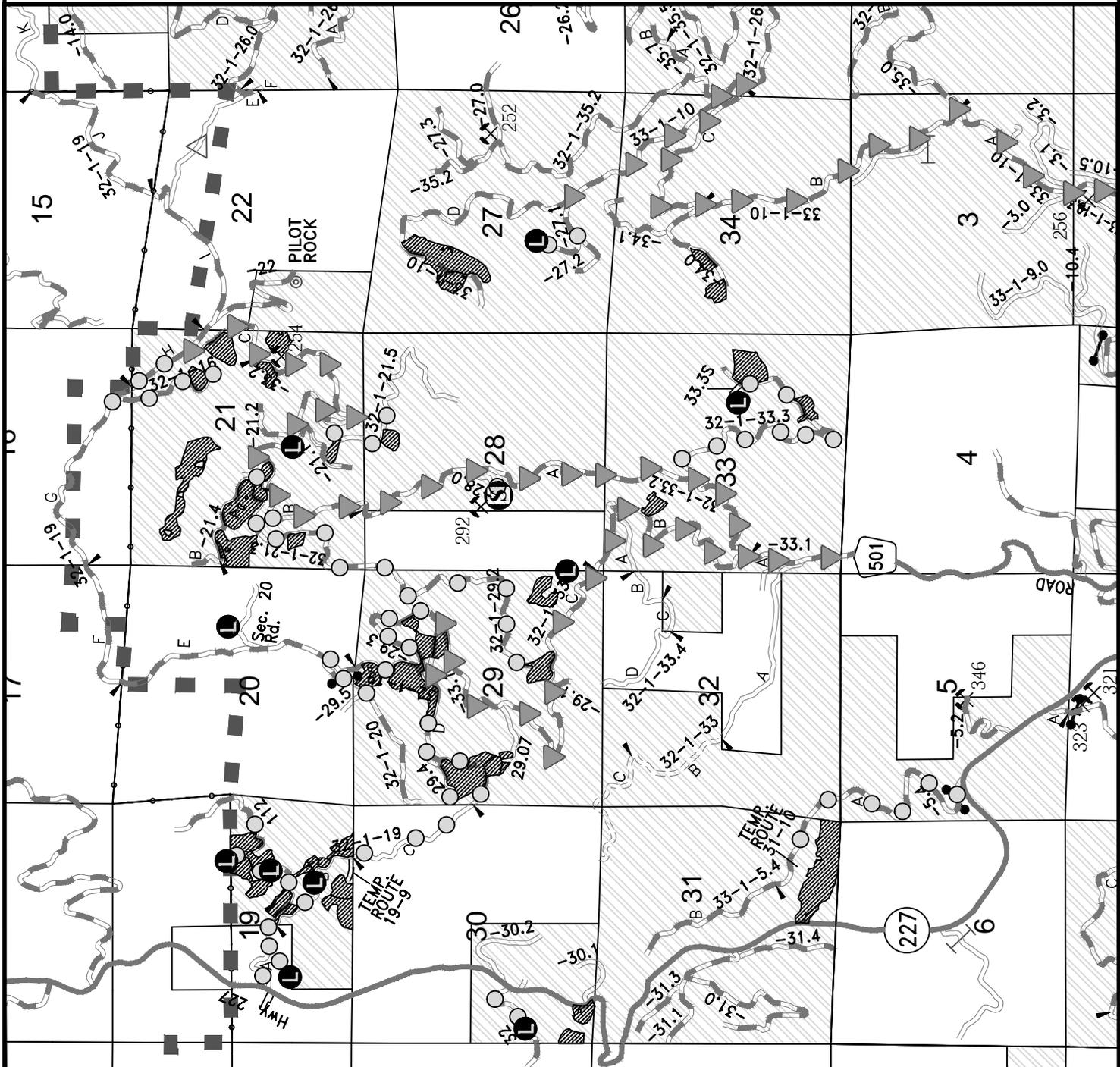
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-  T.S. UNITS
-  BST ROAD
-  ROCKED ROAD
-  NATURAL SURFACE ROAD
-  PRIMITIVE ROUTE
-  PURCHASER MAINTENANCE
-  BLM MAINTENANCE
-  LANDING
-  STOCKPILE SITE

U.S.D.I. BLM MEDFORD DISTRICT  
T.32S., R.1W. WILL. MER.  
T.33S., R.1W. WILL. MER.

ALWAYS  
**THINK**  
SAFETY

SCALE IN MILES

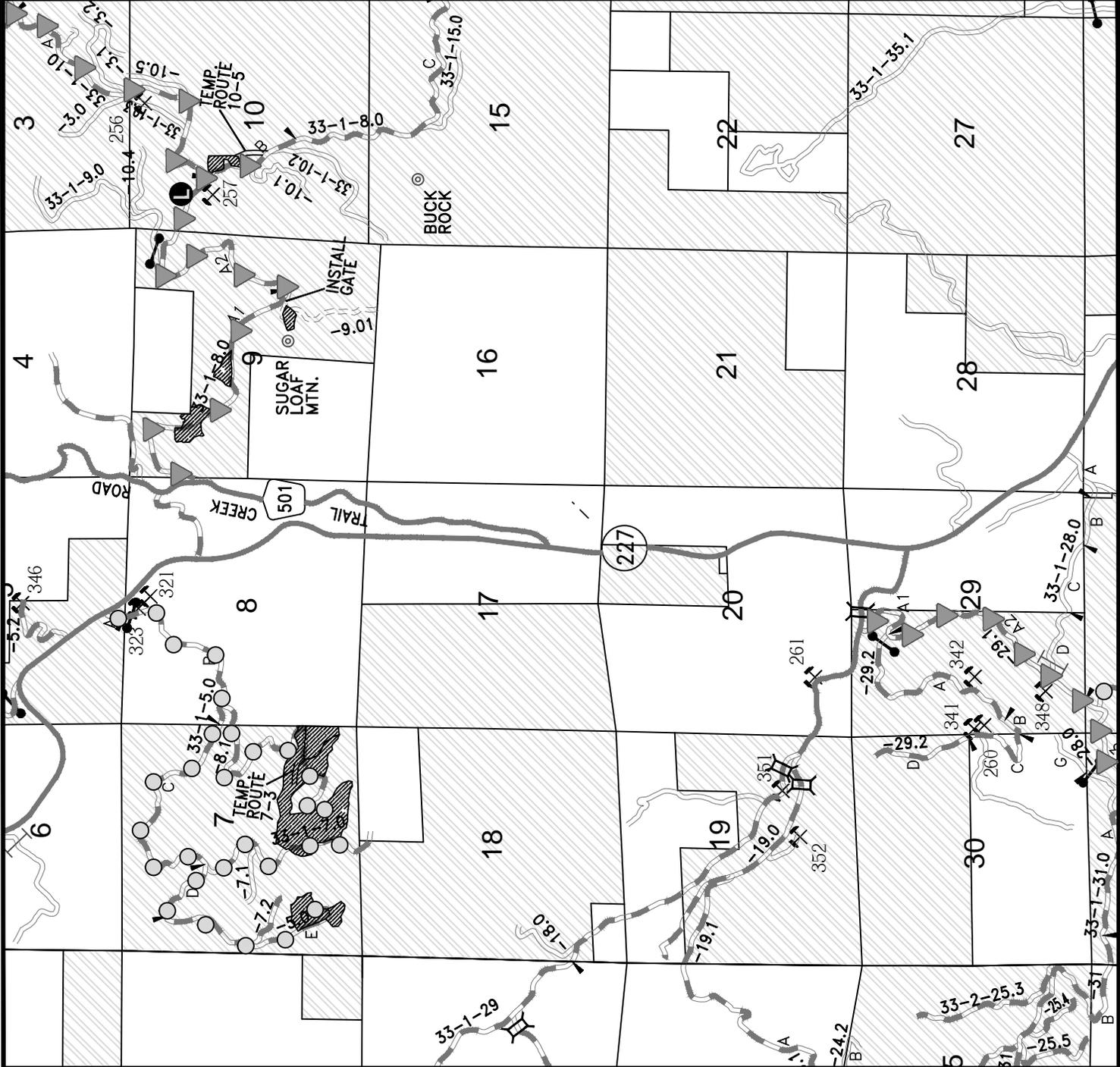


# EXHIBIT D2

## SHEET 2 OF 4

MOUSE TRAIL  
TIMBER SALE  
TRACT NO. ORM050-TS-2014.0009

- BLM OWNERSHIP
- T.S. UNITS
- BST ROAD
- ROCKED ROAD
- NATURAL SURFACE ROAD
- PRIMITIVE ROUTE
- PURCHASER MAINTENANCE
- BLM MAINTENANCE
- HELICOPTER LANDING



U.S.D.I. BLM MEDFORD DISTRICT  
T.32S., R.1W. WILL. MER.

ALWAYS  
**THINK**  
SAFETY

0 1  
SCALE IN MILES

# EXHIBIT D2

## SHEET 3 OF 4

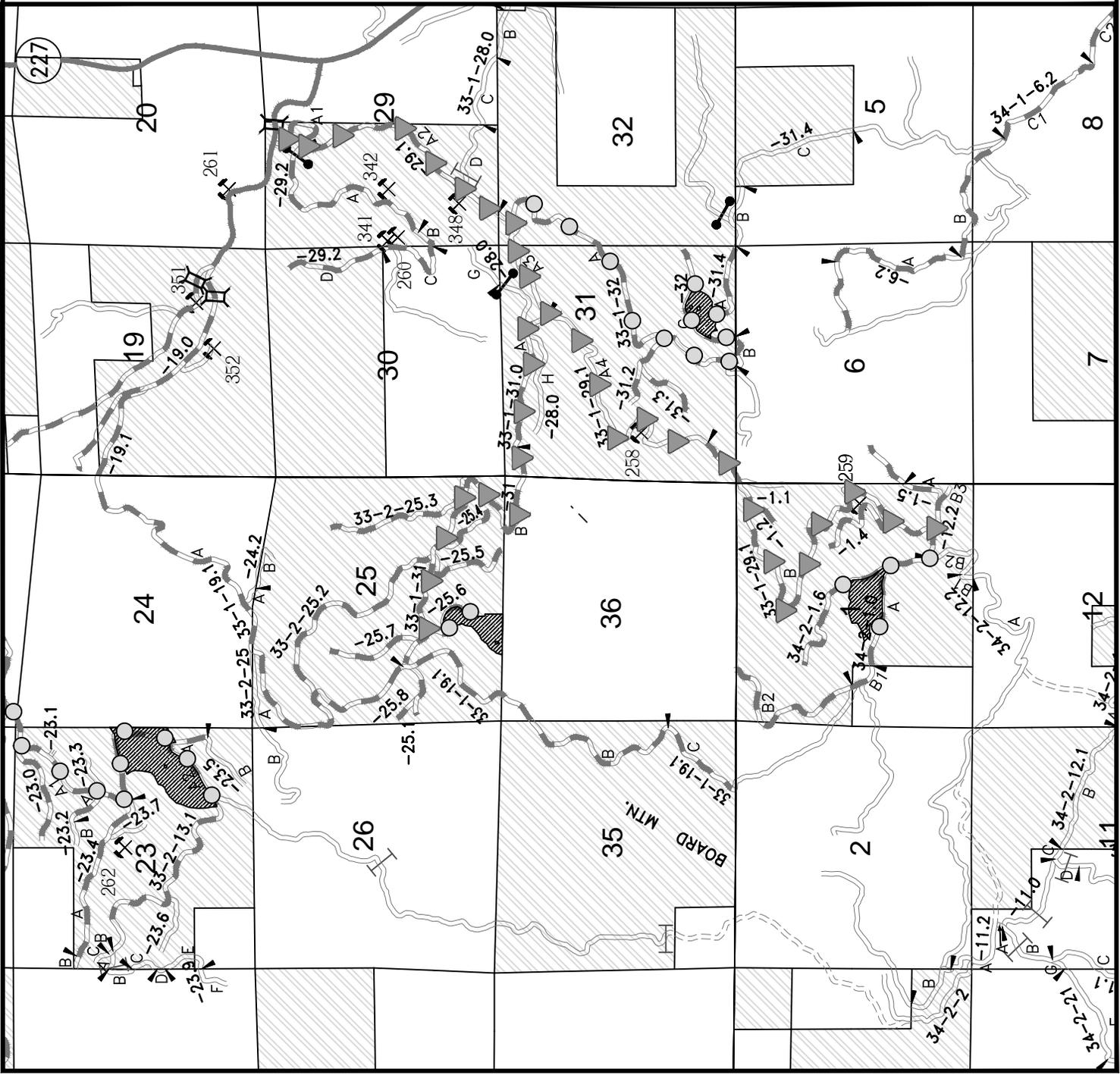
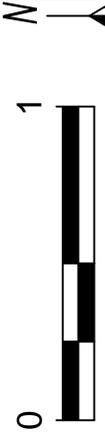
MOUSE TRAIL  
TIMBER SALE  
TRACT NO. ORM050-TS-2014.0009

-  BLM OWNERSHIP
-  T.S. UNITS
-  BST ROAD
-  ROCKED ROAD
-  NATURAL SURFACE ROAD
-  PRIMITIVE ROUTE
-  PURCHASER MAINTENANCE
-  BLM MAINTENANCE
-  HELICOPTER LANDING

U.S.D.I. BLM MEDFORD DISTRICT

T.33S., R.1W. WILL. MER.  
T.33S., R.2W. WILL. MER.  
T.34S., R.1W. WILL. MER.  
T.34S., R.2W. WILL. MER.

ALWAYS  
**THINK**  
SAFETY



# EXHIBIT D2

## SHEET 4 OF 4

MOUSE TRAIL  
TIMBER SALE  
TRACT NO. ORM050-TS-2014.0009

- BLM OWNERSHIP
- T.S. UNITS
- BST ROAD
- ROCKED ROAD
- NATURAL SURFACE ROAD
- PRIMITIVE ROUTE
- PURCHASER MAINTENANCE
- BLM MAINTENANCE
- HELICOPTER LANDING

U.S.D.I. BLM MEDFORD DISTRICT

T.32S., R.1W. WILL. MER.  
T.32S., R.2W. WILL. MER.  
T.33S., R.1W. WILL. MER.  
T.33S., R.2W. WILL. MER.

ALWAYS  
**THINK**  
SAFETY

SCALE IN MILES

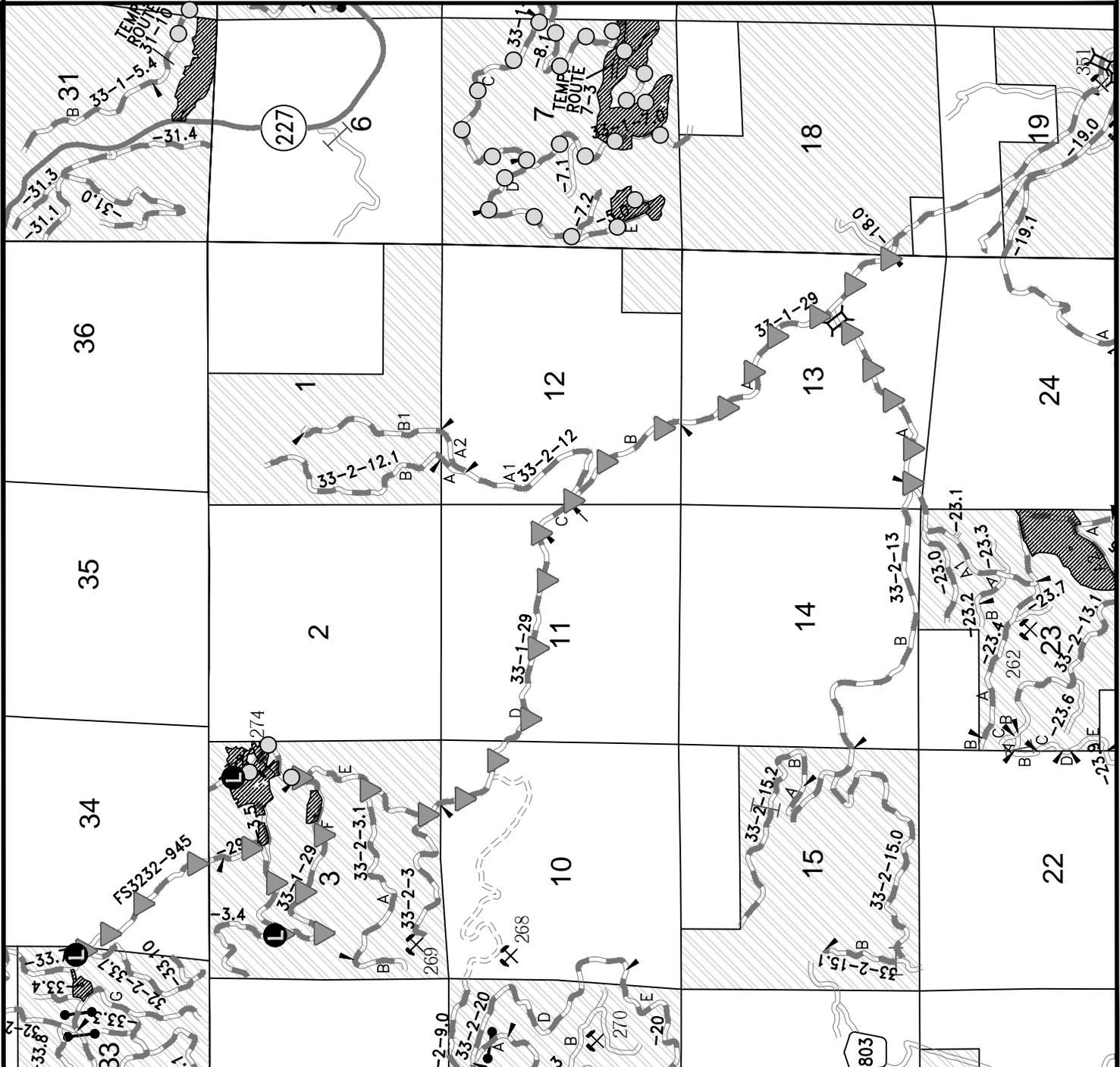
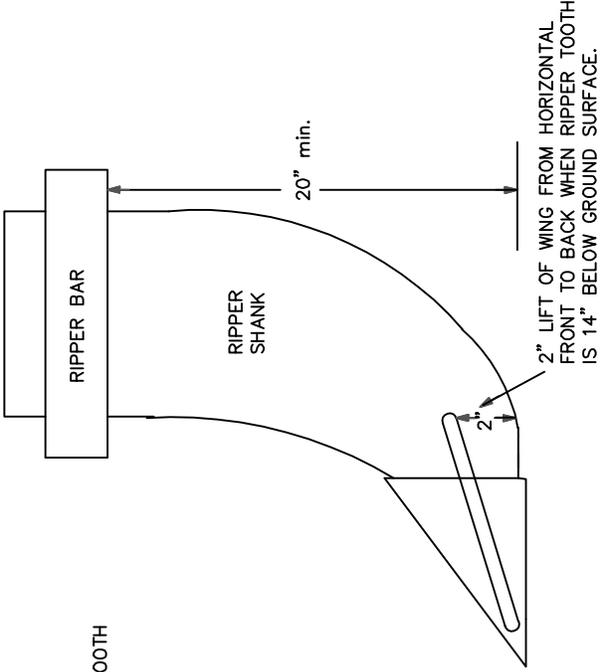
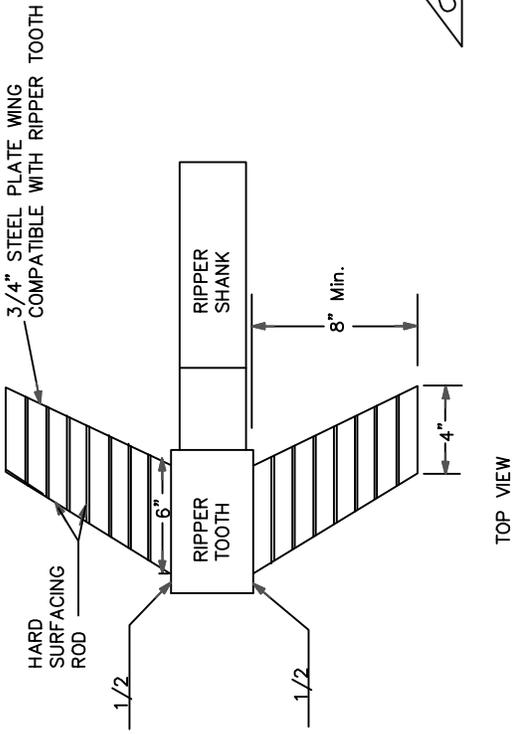




EXHIBIT R  
SHEET 1 OF 1

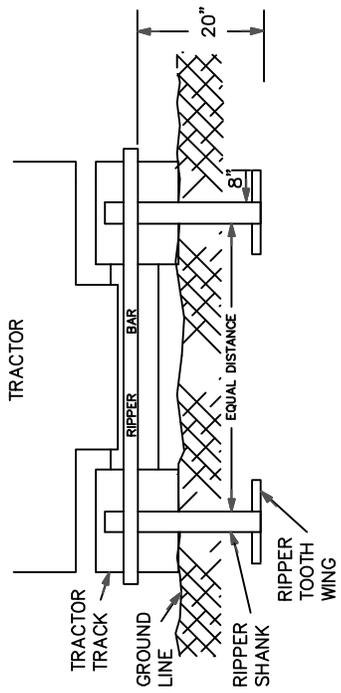


SIDE VIEW



TOP VIEW

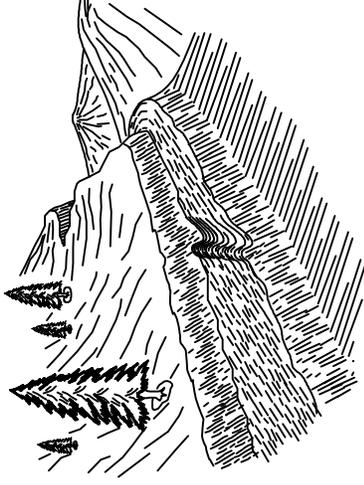
TYPICAL RIPPER POSITION



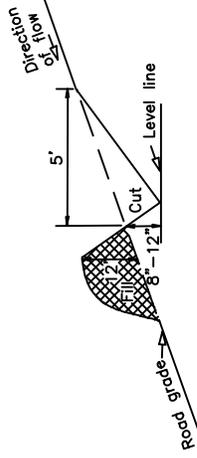
- NOTES: TYPICAL RIPPER TOOTH CONSTRUCTION
1. USE HARD SURFACING ROD FOR ALL EDGE AND SURFACE REINFORCEMENT.
  2. WELD THAT ATTACHES WINGS TO RIPPER TEETH MUST BE COMPATIBLE WITH METAL IN TEETH AND WINGS.
  3. RIPPER SHANKS AND RIPPER TEETH MAY BE NEW OR USED.
  4. WINGS SHALL PROVIDE TWO (2) INCHES OF LIFT FROM THE HORIZONTAL WHEN TEETH ARE EXTENDED FOURTEEN (14) INCHES BELOW THE GROUND SURFACE.

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT ASHLAND RESOURCE AREA MEDFORD DISTRICT	
<b>WING RIPPER DETAIL</b>	
DESIGNED	
REVIEWED	
APPROVED	
OFF: BUREAU OF ENGINEERING OR SURVEY ENGINEER	
DRAWN: JWR	SCALE: NONE
DATE: October 2009	SHEET 1 OF 1
DRAWING NO.	

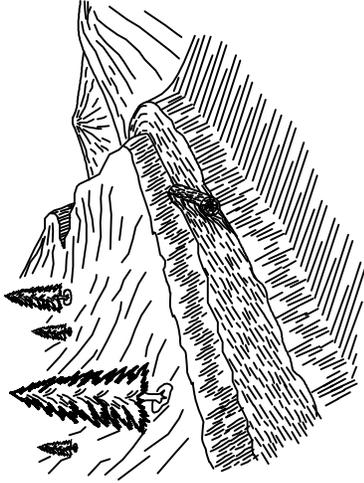




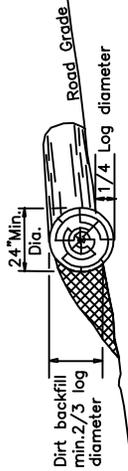
WATER BAR



1. WATER BARS SHALL BE CONSTRUCTED AS SHOWN ABOVE.
2. EXACT LOCATION WILL BE FLAGGED BY THE AUTHORIZED OFFICER PRIOR TO CONSTRUCTION.
3. ALL WATER BARS SHALL BE SKEWED 30 DEGREES UPON COMPLETION OF SKIDDING LOGS, FOR THE LOGGING SEASON. EACH SKID ROAD WILL HAVE CROSS DRAINAGE CONSTRUCTED AS SHOWN ABOVE.
4. PRIOR TO BLOCKING, EACH ROAD WILL HAVE CROSS DRAINAGE CONSTRUCTED AS SHOWN ABOVE.

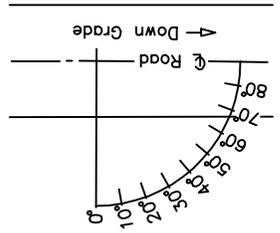


LOG BARRICADE



1. LOG BARRICADE SHALL BE CONSTRUCTED AS SHOWN ABOVE.
2. EXACT LOCATION WILL BE FLAGGED BY THE AUTHORIZED OFFICER PRIOR TO CONSTRUCTION.
3. ALL BARRICADES SHALL BE SKEWED 30 DEGREES FROM THE CUT BANK TO THE FILL SLOPE.
4. THE LENGTH SHALL BE SUFFICIENT TO EXTEND FROM THE CUT BANK TO THE FILL SLOPE.
5. THE MINIMUM SMALL END DIAMETER OF THE LOG BARRICADE SHALL BE 24".

SKEW DIAGRAM



WATER BAR SPACING \*

ROAD GRADE %	LOAM OR CLAY	DECOMPOSED LOAM GRANITE	FEET
4-6	400	300	
7-9	300**	200**	
10-14	200	150	
15-20	150	90	
21-40	90	50	
41-60	50	25	

\* DISTANCES ARE MAXIMUM.  
\*\* ON GRADES IN EXCESS OF 10% CONSTRUCT WATER BARS.

UNITED STATES DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
MEDFORD DISTRICT — MEDFORD, OREGON

**DRAINAGE & EROSION  
CONTROL INSTALLATION**

DESIGNED	BLM
REVIEWED	
APPROVED	
DRAWN	DCM
DATE	October 2009
SHEET	1 OF 1
DRAWING NO.	OR-11-9113.4-8
SCALE	NONE





**United States of America**  
**Department of the Interior**  
**Bureau Of Land Management**  
**Timber Sale Appraisal**

---

**District :** Medford  
**Sale Name :** Mouse Trail  
**Sale Date :** 08/28/2014  
**Appraisal Method :** 16' MBF

**Contract # :** ORM05-TS-14-09  
**Job File # :** M11308  
**Master Unit :** Jackson  
**Planning Unit :** Butte Falls

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**UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT**

Medford  
Mouse Trail  
ORM05-TS-14-09

**Timber - Sale - Summary**

**Legal Description**

Forest Type	Township	Range	Section	Subdivision
O&C	32S	1W	19	Govt. Lot 8, SE1/4.
O&C	32S	1W	21	NE1/4 NE1/4, S1/2 NE1/4, NW1/4, N1/2 SW1/4, SE1/4 SW1/4, NE1/4 SE1/4, W1/2
O&C	32S	1W	27	NE1/4 NW1/4, S1/2 NW1/4, NE1/4 SW1/4.
O&C	32S	1W	28	NW1/4 NE1/4.
O&C	32S	1W	29	NE1/4, E1/2 NW1/4, SW1/4 NW1/4, NW1/4 SW1/4, SE1/4.
O&C	32S	1W	30	Govt. Lot 3, 4.
O&C	32S	1W	31	Govt. Lot 1, S1/2 SE1/4.
O&C	32S	1W	33	N1/2 NW1/4, SW1/4 NW1/4, N1/2 SE1/4, SW1/4 SE1/4.
O&C	32S	1W	34	S1/2 NW1/4.
O&C	32S	2W	33	SE1/4 NE1/4, NE1/4 SE1/4.
O&C	33S	1W	7	Govt. Lot 3, 4, E1/2 SW1/4, SE1/4.
O&C	33S	1W	9	W1/2 NW1/4, SE1/4 NW1/4, NW1/4 SE1/4.
O&C	33S	1W	10	Govt. Lot 2, SE1/4 NW1/4.
O&C	33S	1W	31	S1/2 SE1/4.
O&C	33S	2W	3	Govt. Lot 1, 2, S1/2 NE1/4, SW1/4 NW1/4.
O&C	33S	2W	23	SE1/4 NE1/4, SE1/4.
O&C	33S	2W	25	SE1/4 SW1/4.
O&C	34S	2W	1	SW1/4 NE1/4, SE1/4 NW1/4, NE1/4 SW1/4, NW1/4 SE1/4.

**UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT**

Medford  
Mouse Trail  
ORM05-TS-14-09

**Cutting Volume (16' MBF)**

Unit	DF	WF	IC	PP	WH	SP			Total	Regen	Partial	ROW
23-1	154	18	13	15		12			212	0	47	0
25-3	39	25	0	2		1			67	0	14	0
7-1	39	11	1	0					51	0	9	0
7-3	276	9	6	7		2			300	0	52	0
7-4	53		0	1					54	0	8	0
21-2	46	11	1						58	0	7	0
30-2	27	7	0	4					38	0	3	0
30-3	20	8							28	0	4	0
31-10	96	20	5	7		1			129	0	27	0
9-3	49	5	2	0		1			57	0	8	0
9-4	24			1					25	0	4	0
9-5	19		0	0					19	0	2	0
10-5	45	0	0	1					46	0	4	0
29-5	103	52	5						160	0	16	0
29-1	8	23	0						31	0	5	0
29-2	46	98	6						150	0	14	0
29-3	16	19	2						37	0	6	0
1-1	78	7	5	8		1			99	0	20	0
7-2	20		0	2		1			23	0	3	0
19-3	98	17	0			6			121	0	18	0
3-1W	8	8	1						17	0	4	0
3-2W	4	8	0						12	0	3	0
3-4W	54	43	0						97	0	20	0
3-10W	25	11	1	3					40	0	4	0
34-2	37								37	0	7	0
31-1S	41			0		0			41	0	11	0
27-1	220	17	0						237	0	24	0
33-1	21		0	0					21	0	4	0
33-3	88	0	0			0			88	0	11	0
33-5	18		1						19	0	4	0
28-1	17								17	0	3	0
21-1	34	8							42	0	3	0
21-3	133	4							137	0	18	0
21-4	81	8				16			105	0	14	0
21-5	68	4							72	0	12	0
21-6	26	2				0			28	0	4	0
21-8	35	2				0			37	0	4	0
21-9	25	6							31	0	3	0
21-10	14	0				2			16	0	2	0
29-4	7	12	0	0					19	0	4	0
29-7	8	12	2						22	0	3	0
29-8	4	3	1						8	0	2	0
29-9	22	0	2	1		0			25	0	6	0
29-10	28	2	1	0		0			31	0	6	0
19-2	4	3	0						7	0	1	0
19-4	4	4				0			8	0	2	0

**UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT**

Medford  
Mouse Trail  
ORM05-TS-14-09

19-5	17	4	1						22	0	5	0
19-6	65	37	6	0					108	0	12	0
19-7	7	1	0						8	0	1	0
19-9	20	10	1						31	0	4	0
19-10	1		0						1	0	1	0
33-4	6	15	0						21	0	4	0
<b>Totals</b>	<b>2,398</b>	<b>554</b>	<b>63</b>	<b>52</b>	<b>24</b>	<b>19</b>			<b>3,110</b>	<b>0</b>	<b>477</b>	<b>0</b>

**Logging Costs per 16' MBF**

Stump to Truck	\$	232.04
Transportation	\$	43.02
Road Construction	\$	52.60
Road Amortization	\$	0.00
Road Maintenance	\$	8.69

Other Allowances :

Fuels Treatment	\$ 11.74
Other Costs	\$ 10.61
<b>Total Other Allowances :</b>	<b>\$ 22.34</b>

Total Logging Costs per 16' MBF

**\$ 358.69**

**Utilization Centers**

Center #1 : White City, OR 26 Miles  
Center #2 0 Miles  
Weighted distance to Utilization Centers 26

**Length of Contract**

Cutting and Removal Time 36 Months  
Personal Property Removal Time 1 Months

**Profit & Risk**

Total Profit & Risk 14 %  
Basic Profit & Risk 11 % + Additional Risk 3 %  
Back Off 0 %

**Tract Features**

Avg Log Douglas-fir : 57 bf All : 55 bf  
Recovery Douglas-fir : 89 % All : 88 %  
Salvage Douglas-fir : 0 % All : 0 %  
Avg Volume ( 16' MBF per Acre) 7  
Avg Yarding Slope 35 %  
Avg Yarding Distance (feet) 400  
Avg Age 120  
Volume Cable 14 %  
Volume Ground 54 %  
Volume Aerial 32 %  
Road Construction Stations 0.00  
Road Improvement Stations 0.00  
Road Renovation Stations 0.00  
Road Decommission Stations 0.00

**Cruise**

Cruised By s, Worman, Siemer, Darner, Rentz  
Date 06/02/2014  
Type of Cruise 3P  
County, State Jackson, OR

**Net Volume**

Green (16' MBF) 3,110  
Salvage (16' MBF) 0  
Douglas-fir Peeler 281  
Export Volume 0  
Scaling Allowance (\$0.50 per 16' MBF) \$1,555.00

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**Stumpage Summary**

**Stumpage Computation (16' MBF)**

Species	Trees	Net Volume	Pond Value	(-) Profit & Risk	(-) Logging Cost	(+) Marginal Log Value	(-) Back Off	Appraised Price	Appraised Value
DF	12,672	2,398	\$ 504.84	\$ 70.68	\$ 358.69	\$ 0.36		\$ 75.80	\$ 181,768.40
WF	3,427	554	\$ 411.59	\$ 57.62	\$ 358.69			\$ 41.20	\$ 22,824.80
IC	1,357	63	\$ 424.18	\$ 59.38	\$ 358.69			\$ 42.40	\$ 2,671.20
PP	442	52	\$ 334.68	\$ 46.86	\$ 358.69			\$ 33.50	\$ 1,742.00
WH	180	24	\$ 366.47	\$ 51.31	\$ 358.69			\$ 36.60	\$ 878.40
SP	66	19	\$ 346.04	\$ 48.45	\$ 358.69			\$ 34.60	\$ 657.40
<b>Totals</b>	<b>18,144</b>	<b>3,110</b>							<b>\$ 210,542.20</b>

**Log Code by Percent**

Species	Code #1	Code #2	Code #3	Code #4	Code #5	Code #6
White Fir			3.0	43.0	47.0	7.0
Incense-cedar				7.0	65.0	28.0
Sugar Pine				72.0	25.0	3.0
Ponderosa Pine				34.0	50.0	16.0
Douglas-fir			11.0	45.0	36.0	8.0
Western Hemlock				44.0	47.0	9.0

**Marginal Log Volume**

Species	Grade #7	Grade #8
White Fir		
Incense-cedar		
Sugar Pine		
Ponderosa Pine		
Douglas-fir	7	
Western Hemlock		

**Appraised By :** \_\_\_\_\_ **Date :** \_\_\_\_\_  
**Area Approval By :** \_\_\_\_\_ **Date :** \_\_\_\_\_  
**District Approval By :** \_\_\_\_\_ **Date :** \_\_\_\_\_

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**Prospectus**

Appraisal Method : (16' MBF)

Species	Trees	Net Volume 16' MBF	Net Volume 32' MBF	Net Volume CCF
Douglas-fir	12,672	2,398	1,958	
White Fir	3,427	554	438	
Incense-cedar	1,357	63	51	
Ponderosa Pine	442	52	40	
Western Hemlock	180	24	17	
Sugar Pine	66	19	15	
<b>Total</b>	<b>18,144</b>	<b>3,110</b>	<b>2,519</b>	

**All Species**

Gross Volume	Number Trees	Avg bf Volume Per Tree	DBH	Gross Merch Volume	Merch Logs	Avg bf Gross Merch Log
3,537	18,144	194	13.9	3,419	61,769	55

Merch Logs	Cull Logs	Total Logs	Logs per Tree	Net Volume	Gross Volume	Recovery
61,769	3,103	64,872	3.6	3,110	3,537	88 %

**Douglas-fir**

Gross Volume	Number Trees	Avg bf Volume Per Tree	DBH	Gross Merch Volume	Merch Logs	Avg bf Gross Merch Log
2,683	12,672	211	13.9	2,626	46,163	57

Merch Logs	Cull Logs	Total Logs	Logs per Tree	Net Volume	Gross Volume	Recovery
46,163	1,622	47,785	3.8	2,398	2,683	89 %

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**Cutting Areas**

<b>Unit</b>	<b>Regen Acres</b>	<b>Partial Cut Acres</b>	<b>Right Of Way Acres</b>	<b>Total Acres</b>
23-1		47		47
25-3		14		14
7-1		9		9
7-3		52		52
7-4		8		8
21-2		7		7
30-2		3		3
30-3		4		4
31-10		27		27
9-3		8		8
9-4		4		4
9-5		2		2
10-5		4		4
29-5		16		16
29-1		5		5
29-2		14		14
29-3		6		6
1-1		20		20
7-2		3		3
19-3		18		18
3-1W		4		4
3-2W		3		3
3-4W		20		20
3-10W		4		4
34-2		7		7
31-1S		11		11
27-1		24		24
33-1		4		4
33-3		11		11
33-5		4		4
28-1		3		3
21-1		3		3
21-3		18		18
21-4		14		14
21-5		12		12
21-6		4		4
21-8		4		4
21-9		3		3
21-10		2		2
29-4		4		4
29-7		3		3
29-8		2		2
29-9		6		6
29-10		6		6
19-2		1		1
19-4		2		2
19-5		5		5
19-6		12		12
19-7		1		1

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19-9		4		4
19-10		1		1
33-4		4		4
<b>Totals :</b>		<b>477</b>		<b>477</b>



















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**Unit 3-4W 20 Acres Value per Acre : \$0.00**

Species	Net Volume	Bid Price	Species Value
Douglas-fir	54		
Incense-cedar			
White Fir	43		
<b>Unit Totals</b>	<b>97</b>		

**Unit 7-1 9 Acres Value per Acre : \$0.00**

Species	Net Volume	Bid Price	Species Value
Douglas-fir	39		
Incense-cedar	1		
Ponderosa Pine			
White Fir	11		
<b>Unit Totals</b>	<b>51</b>		

**Unit 7-2 3 Acres Value per Acre : \$0.00**

Species	Net Volume	Bid Price	Species Value
Douglas-fir	20		
Incense-cedar			
Ponderosa Pine	2		
Sugar Pine	1		
<b>Unit Totals</b>	<b>23</b>		

**Unit 7-3 52 Acres Value per Acre : \$0.00**

Species	Net Volume	Bid Price	Species Value
Douglas-fir	276		
Incense-cedar	6		
Ponderosa Pine	7		
Sugar Pine	2		
White Fir	9		
<b>Unit Totals</b>	<b>300</b>		

**Unit 7-4 8 Acres Value per Acre : \$0.00**

Species	Net Volume	Bid Price	Species Value
Douglas-fir	53		
Incense-cedar			
Ponderosa Pine	1		
<b>Unit Totals</b>	<b>54</b>		



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**Volume Summary**

**Sale Volume Totals**

477 Acres                      0 Regen                      477 Partial                      0 R/W                      52 Units

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Net	16' MBF GM	16' MBF Gross	32' MBF Net	32' MBF GM	32' MBF Gross	CCF Net	CCF GM	CCF Gross
Douglas-fir	12,672	46,163	1,622	2,398	2,626	2,683	1,958	2,149	2,199	0	0	0
White Fir	3,427	11,259	1,303	554	621	679	438	490	544	0	0	0
Incense-cedar	1,357	2,266	101	63	68	70	51	56	57	0	0	0
Ponderosa Pine	442	1,293	41	52	56	57	40	42	43	0	0	0
Western Hemlock	180	532	26	24	27	27	17	20	20	0	0	0
Sugar Pine	66	256	10	19	21	21	15	16	17	0	0	0
<b>Totals</b>	<b>18,144</b>	<b>61,769</b>	<b>3,103</b>	<b>3,110</b>	<b>3,419</b>	<b>3,537</b>	<b>2,519</b>	<b>2,773</b>	<b>2,880</b>	<b>0</b>	<b>0</b>	<b>0</b>

**Unit Totals**

Unit : 23-1                      47 Acres                      0 Regen                      47 Partial                      0 R/W

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	1,018	2,966	104	172	169	154
White Fir	142	356	41	21	20	18
Ponderosa Pine	132	353	11	17	16	15
Sugar Pine	33	135	5	13	13	12
Incense-cedar	291	449	20	14	13	13
<b>Unit Totals</b>	<b>1,616</b>	<b>4,259</b>	<b>181</b>	<b>237</b>	<b>231</b>	<b>212</b>

Unit : 25-3                      14 Acres                      0 Regen                      14 Partial                      0 R/W

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	299	751	26	44	43	39
White Fir	208	498	58	30	27	25
Ponderosa Pine	16	39	1	2	2	2
Sugar Pine	6	18	1	1	1	1
Incense-cedar	4	14	1			
<b>Unit Totals</b>	<b>533</b>	<b>1,320</b>	<b>87</b>	<b>77</b>	<b>73</b>	<b>67</b>

Unit : 7-1                      9 Acres                      0 Regen                      9 Partial                      0 R/W

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	239	747	26	43	42	39
White Fir	76	222	26	13	12	11

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Incense-cedar	21	29	1	1	1	1
Ponderosa Pine	1	2				
<b>Unit Totals</b>	<b>337</b>	<b>1,000</b>	<b>53</b>	<b>57</b>	<b>55</b>	<b>51</b>

**Unit : 7-3                      52 Acres                      0 Regen                      52 Partial                      0 R/W**

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	2,138	5,320	187	309	303	276
White Fir	78	176	20	11	10	9
Ponderosa Pine	55	180	6	8	8	7
Incense-cedar	159	209	9	6	6	6
Sugar Pine	10	33	1	3	3	2
<b>Unit Totals</b>	<b>2,440</b>	<b>5,918</b>	<b>223</b>	<b>337</b>	<b>330</b>	<b>300</b>

**Unit : 7-4                      8 Acres                      0 Regen                      8 Partial                      0 R/W**

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	336	1,018	36	59	58	53
Ponderosa Pine	6	27	1	1	1	1
Incense-cedar	8	13	1			
<b>Unit Totals</b>	<b>350</b>	<b>1,058</b>	<b>38</b>	<b>60</b>	<b>59</b>	<b>54</b>

**Unit : 21-2                      7 Acres                      0 Regen                      7 Partial                      0 R/W**

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	191	893	31	52	51	46
White Fir	76	215	25	13	12	11
Incense-cedar	16	30	1	1	1	1
<b>Unit Totals</b>	<b>283</b>	<b>1,138</b>	<b>57</b>	<b>66</b>	<b>64</b>	<b>58</b>

**Unit : 30-2                      3 Acres                      0 Regen                      3 Partial                      0 R/W**

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	122	522	18	30	30	27
White Fir	38	141	16	9	8	7
Ponderosa Pine	23	91	3	4	4	4
Incense-cedar	1	3				
<b>Unit Totals</b>	<b>184</b>	<b>757</b>	<b>37</b>	<b>43</b>	<b>42</b>	<b>38</b>

**Unit : 30-3                      4 Acres                      0 Regen                      4 Partial                      0 R/W**

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	94	379	13	22	22	20

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White Fir	34	153	18	9	8	8
<b>Unit Totals</b>	<b>128</b>	<b>532</b>	<b>31</b>	<b>31</b>	<b>30</b>	<b>28</b>

**Unit : 31-10                      27 Acres                      0 Regen                      27 Partial                      0 R/W**

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	714	1,846	65	107	105	96
White Fir	145	422	49	25	23	20
Ponderosa Pine	78	180	6	8	8	7
Incense-cedar	130	174	8	5	5	5
Sugar Pine	6	15	1	1	1	1
<b>Unit Totals</b>	<b>1,073</b>	<b>2,637</b>	<b>129</b>	<b>146</b>	<b>142</b>	<b>129</b>

**Unit : 9-3                      8 Acres                      0 Regen                      8 Partial                      0 R/W**

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	350	947	33	55	54	49
White Fir	43	99	11	6	5	5
Incense-cedar	29	56	2	2	2	2
Sugar Pine	2	16	1	1	1	1
Ponderosa Pine	2	5				
<b>Unit Totals</b>	<b>426</b>	<b>1,123</b>	<b>47</b>	<b>64</b>	<b>62</b>	<b>57</b>

**Unit : 9-4                      4 Acres                      0 Regen                      4 Partial                      0 R/W**

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	164	463	16	27	26	24
Ponderosa Pine	8	19	1	1	1	1
<b>Unit Totals</b>	<b>172</b>	<b>482</b>	<b>17</b>	<b>28</b>	<b>27</b>	<b>25</b>

**Unit : 9-5                      2 Acres                      0 Regen                      2 Partial                      0 R/W**

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	130	361	13	21	21	19
Incense-cedar	2	2				
Ponderosa Pine	1	8				
<b>Unit Totals</b>	<b>133</b>	<b>371</b>	<b>13</b>	<b>21</b>	<b>21</b>	<b>19</b>

**Unit : 10-5                      4 Acres                      0 Regen                      4 Partial                      0 R/W**

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	249	868	31	50	49	45
Ponderosa Pine	5	19	1	1	1	1

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Incense-cedar	1	2				
White Fir	2	5	1			
<b>Unit Totals</b>	<b>257</b>	<b>894</b>	<b>33</b>	<b>51</b>	<b>50</b>	<b>46</b>

**Unit : 29-5                      16 Acres                      0 Regen                      16 Partial                      0 R/W**

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	233	1,981	70	115	113	103
White Fir	276	1,062	123	64	59	52
Incense-cedar	70	196	9	6	6	5
<b>Unit Totals</b>	<b>579</b>	<b>3,239</b>	<b>202</b>	<b>185</b>	<b>178</b>	<b>160</b>

**Unit : 29-1                      5 Acres                      0 Regen                      5 Partial                      0 R/W**

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
White Fir	163	471	55	28	26	23
Douglas-fir	54	156	5	9	9	8
Incense-cedar	6	9				
<b>Unit Totals</b>	<b>223</b>	<b>636</b>	<b>60</b>	<b>37</b>	<b>35</b>	<b>31</b>

**Unit : 29-2                      14 Acres                      0 Regen                      14 Partial                      0 R/W**

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
White Fir	604	1,993	231	120	110	98
Douglas-fir	261	887	31	52	50	46
Incense-cedar	134	231	10	7	7	6
<b>Unit Totals</b>	<b>999</b>	<b>3,111</b>	<b>272</b>	<b>179</b>	<b>167</b>	<b>150</b>

**Unit : 29-3                      6 Acres                      0 Regen                      6 Partial                      0 R/W**

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
White Fir	121	384	44	23	21	19
Douglas-fir	75	314	11	18	18	16
Incense-cedar	30	59	3	2	2	2
<b>Unit Totals</b>	<b>226</b>	<b>757</b>	<b>58</b>	<b>43</b>	<b>41</b>	<b>37</b>

**Unit : 1-1                      20 Acres                      0 Regen                      20 Partial                      0 R/W**

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	487	1,506	53	88	86	78
Ponderosa Pine	52	202	6	9	9	8
White Fir	45	132	15	8	7	7
Incense-cedar	110	177	8	5	5	5



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<b>Unit Totals</b>	434	1,930	139	113	107	97
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**Unit : 3-10W                      4 Acres                      0 Regen                      4 Partial                      0 R/W**

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	121	481	17	28	27	25
White Fir	81	225	26	14	12	11
Ponderosa Pine	30	74	2	3	3	3
Incense-cedar	8	21	1	1	1	1
<b>Unit Totals</b>	<b>240</b>	<b>801</b>	<b>46</b>	<b>46</b>	<b>43</b>	<b>40</b>

**Unit : 34-2                      7 Acres                      0 Regen                      7 Partial                      0 R/W**

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	77	716	25	42	41	37
<b>Unit Totals</b>	<b>77</b>	<b>716</b>	<b>25</b>	<b>42</b>	<b>41</b>	<b>37</b>

**Unit : 31-1S                      11 Acres                      0 Regen                      11 Partial                      0 R/W**

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	294	795	28	46	45	41
Sugar Pine	1	1				
Ponderosa Pine	2	5				
<b>Unit Totals</b>	<b>297</b>	<b>801</b>	<b>28</b>	<b>46</b>	<b>45</b>	<b>41</b>

**Unit : 27-1                      24 Acres                      0 Regen                      24 Partial                      0 R/W**

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	534	4,213	147	246	237	220
White Fir	50	339	39	20	19	17
Incense-cedar	1	2				
<b>Unit Totals</b>	<b>585</b>	<b>4,554</b>	<b>186</b>	<b>266</b>	<b>256</b>	<b>237</b>

**Unit : 33-1                      4 Acres                      0 Regen                      4 Partial                      0 R/W**

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	137	398	14	23	23	21
Incense-cedar	5	7				
Ponderosa Pine	2	3				
<b>Unit Totals</b>	<b>144</b>	<b>408</b>	<b>14</b>	<b>23</b>	<b>23</b>	<b>21</b>

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**Unit : 33-3                      11 Acres                      0 Regen                      11 Partial                      0 R/W**

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	383	1,702	60	99	97	88
Incense-cedar	1	3				
Western Hemlock	1	1				
White Fir	1	8	1			
<b>Unit Totals</b>	<b>386</b>	<b>1,714</b>	<b>61</b>	<b>99</b>	<b>97</b>	<b>88</b>

**Unit : 33-5                      4 Acres                      0 Regen                      4 Partial                      0 R/W**

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	150	348	12	20	20	18
Incense-cedar	13	31	1	1	1	1
<b>Unit Totals</b>	<b>163</b>	<b>379</b>	<b>13</b>	<b>21</b>	<b>21</b>	<b>19</b>

**Unit : 28-1                      3 Acres                      0 Regen                      3 Partial                      0 R/W**

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	55	323	11	19	18	17
<b>Unit Totals</b>	<b>55</b>	<b>323</b>	<b>11</b>	<b>19</b>	<b>18</b>	<b>17</b>

**Unit : 21-1                      3 Acres                      0 Regen                      3 Partial                      0 R/W**

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	136	654	23	38	37	34
White Fir	29	156	18	9	9	8
<b>Unit Totals</b>	<b>165</b>	<b>810</b>	<b>41</b>	<b>47</b>	<b>46</b>	<b>42</b>

**Unit : 21-3                      18 Acres                      0 Regen                      18 Partial                      0 R/W**

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	431	2,556	90	149	145	133
White Fir	25	89	10	5	5	4
<b>Unit Totals</b>	<b>456</b>	<b>2,645</b>	<b>100</b>	<b>154</b>	<b>150</b>	<b>137</b>

**Unit : 21-4                      14 Acres                      0 Regen                      14 Partial                      0 R/W**

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	303	1,561	55	91	89	81
Western Hemlock	111	347	17	18	18	16
White Fir	48	158	18	10	9	8

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<b>Unit Totals</b>	462	2,066	90	119	116	105
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**Unit : 21-5**                      **12 Acres**                      **0 Regen**                      **12 Partial**                      **0 R/W**

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	269	1,314	46	76	75	68
White Fir	21	80	9	5	4	4
<b>Unit Totals</b>	<b>290</b>	<b>1,394</b>	<b>55</b>	<b>81</b>	<b>79</b>	<b>72</b>

**Unit : 21-6**                      **4 Acres**                      **0 Regen**                      **4 Partial**                      **0 R/W**

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	134	500	18	29	28	26
White Fir	14	33	4	2	2	2
Western Hemlock	2	3				
<b>Unit Totals</b>	<b>150</b>	<b>536</b>	<b>22</b>	<b>31</b>	<b>30</b>	<b>28</b>

**Unit : 21-8**                      **4 Acres**                      **0 Regen**                      **4 Partial**                      **0 R/W**

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	153	678	24	39	39	35
White Fir	16	35	4	2	2	2
Western Hemlock	1	3				
<b>Unit Totals</b>	<b>170</b>	<b>716</b>	<b>28</b>	<b>41</b>	<b>41</b>	<b>37</b>

**Unit : 21-9**                      **3 Acres**                      **0 Regen**                      **3 Partial**                      **0 R/W**

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	93	478	17	28	27	25
White Fir	24	120	14	7	7	6
<b>Unit Totals</b>	<b>117</b>	<b>598</b>	<b>31</b>	<b>35</b>	<b>34</b>	<b>31</b>

**Unit : 21-10**                      **2 Acres**                      **0 Regen**                      **2 Partial**                      **0 R/W**

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	48	263	9	15	15	14
Western Hemlock	13	37	2	2	2	2
White Fir	1	3				
<b>Unit Totals</b>	<b>62</b>	<b>303</b>	<b>11</b>	<b>17</b>	<b>17</b>	<b>16</b>

**Unit : 29-4**                      **4 Acres**                      **0 Regen**                      **4 Partial**                      **0 R/W**

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
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**Unit : 19-2                      1 Acres                      0 Regen                      1 Partial                      0 R/W**

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	24	79	3	5	4	4
White Fir	15	51	6	3	3	3
Incense-cedar	9	17	1	1	1	
<b>Unit Totals</b>	<b>48</b>	<b>147</b>	<b>10</b>	<b>9</b>	<b>8</b>	<b>7</b>

**Unit : 19-4                      2 Acres                      0 Regen                      2 Partial                      0 R/W**

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
White Fir	28	74	9	4	4	4
Douglas-fir	21	70	2	4	4	4
Western Hemlock	1	1				
<b>Unit Totals</b>	<b>50</b>	<b>145</b>	<b>11</b>	<b>8</b>	<b>8</b>	<b>8</b>

**Unit : 19-5                      5 Acres                      0 Regen                      5 Partial                      0 R/W**

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	125	319	11	19	18	17
White Fir	35	75	9	5	4	4
Incense-cedar	20	30	1	1	1	1
<b>Unit Totals</b>	<b>180</b>	<b>424</b>	<b>21</b>	<b>25</b>	<b>23</b>	<b>22</b>

**Unit : 19-6                      12 Acres                      0 Regen                      12 Partial                      0 R/W**

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	389	1,243	44	72	71	65
White Fir	220	816	94	53	48	37
Incense-cedar	104	190	9	8	7	6
Ponderosa Pine	1	2				
<b>Unit Totals</b>	<b>714</b>	<b>2,251</b>	<b>147</b>	<b>133</b>	<b>126</b>	<b>108</b>

**Unit : 19-7                      1 Acres                      0 Regen                      1 Partial                      0 R/W**

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	44	139	5	8	8	7
White Fir	9	27	3	2	1	1
Incense-cedar	1	2				
<b>Unit Totals</b>	<b>54</b>	<b>168</b>	<b>8</b>	<b>10</b>	<b>9</b>	<b>8</b>

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**Unit : 19-9                      4 Acres                      0 Regen                      4 Partial                      0 R/W**

<b>SpeciesName</b>	<b># of Trees</b>	<b>Merch Logs</b>	<b>Cull Logs</b>	<b>16' MBF Gross</b>	<b>16' MBF GM</b>	<b>16' MBF Net</b>
Douglas-fir	133	386	14	22	22	20
White Fir	67	204	24	12	11	10
Incense-cedar	15	33	2	1	1	1
<b>Unit Totals</b>	<b>215</b>	<b>623</b>	<b>40</b>	<b>35</b>	<b>34</b>	<b>31</b>

**Unit : 19-10                      1 Acres                      0 Regen                      1 Partial                      0 R/W**

<b>SpeciesName</b>	<b># of Trees</b>	<b>Merch Logs</b>	<b>Cull Logs</b>	<b>16' MBF Gross</b>	<b>16' MBF GM</b>	<b>16' MBF Net</b>
Douglas-fir	6	20	1	1	1	1
Incense-cedar	7	13	1			
<b>Unit Totals</b>	<b>13</b>	<b>33</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>1</b>

**Unit : 33-4                      4 Acres                      0 Regen                      4 Partial                      0 R/W**

<b>SpeciesName</b>	<b># of Trees</b>	<b>Merch Logs</b>	<b>Cull Logs</b>	<b>16' MBF Gross</b>	<b>16' MBF GM</b>	<b>16' MBF Net</b>
White Fir	82	314	36	19	17	15
Douglas-fir	17	117	4	7	7	6
Incense-cedar	1	5				
<b>Unit Totals</b>	<b>100</b>	<b>436</b>	<b>40</b>	<b>26</b>	<b>24</b>	<b>21</b>

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**Stump to Truck Costs**

Total (16' MBF)

Total Stump to Truck Costs	Net Volume	Cost / Net Volume
\$ 721,654.56	3,110	\$ 232.04

**Detail**

**Yarding & Loading**

Yarding System	Unit Of Measure	Units	Cost / Unit	Total Cost
Med Twr=40-70	GM MBF	484	\$ 193.01	\$ 93,416.84
Track Skidder	GM MBF	1,857	\$ 79.48	\$ 147,594.36
Helicopter	GM MBF	1,078	\$ 435.67	\$ 469,652.26
<b>Subtotal</b>				<b>\$ 710,663.46</b>

**Other Costs**

Explanation	Unit Of Measure	Units	Cost / Unit	Total Cost
Directional Falling	MBF	35	\$ 11.46	\$ 401.10
Deadman Anchors	each	2	\$ 450.00	\$ 900.00
<b>Subtotal</b>				<b>\$ 1,301.10</b>

**Additional Move-Ins**

Equipment	# Move-In	Cost / Move In	Total Cost
Yarder / Loader	12	\$ 450.00	\$ 5,400.00
Feller Buncher	13	\$ 330.00	\$ 4,290.00
<b>Subtotal</b>			<b>\$ 9,690.00</b>

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**Other Allowances Costs**

**Total (16' MBF)**

Total Other Allowances Costs	Net Volume	Cost / Net Volume *	Total Buy Out Cost
\$69,482.90	3,110	\$22.34	\$0.00

Fuels Treatment

**Detail (16' MBF)**

Cost Item	Total Cost	Cost / Net Vol *	Buy Out	Buy Out Cost
Hand Pile, Cvr - Level 3	\$ 28,700.00	\$ 9.23	N	\$ 0.00
Hand Pile Brn-Level 3	\$ 3,000.00	\$ 0.96	N	\$ 0.00
Lop and Scatter-Lvl 3	\$ 4,800.00	\$ 1.54	N	\$ 0.00
<b>Subtotal</b>	<b>\$ 36,500.00</b>	<b>\$ 11.74</b>		<b>\$ 0.00</b>

Other Costs

**Detail (16' MBF)**

Cost Item	Total Cost	Cost / Net Vol *	Buy Out	Buy Out Cost
	\$ -	\$ -		\$ 0.00
Equipment Washing	\$ 740.00	\$ 0.24	N	\$ 0.00
Equipment Washing	\$ 1,000.00	\$ 0.32	N	\$ 0.00
Flaggers (2)	\$ 2,016.00	\$ 0.65	N	\$ 0.00
Skid Location	\$ 546.90	\$ 0.18	N	\$ 0.00
Skid Construction	\$ 1,875.00	\$ 0.60	N	\$ 0.00
Landing Construction	\$ 2,250.00	\$ 0.72	N	\$ 0.00
Landing Clean up	\$ 3,000.00	\$ 0.96	N	\$ 0.00
Barricades	\$ 5,000.00	\$ 1.61	N	\$ 0.00
Hand Seeding @ 17 lb seed per hour	\$ 880.00	\$ 0.28	N	\$ 0.00
Mulching (2 hours/5 bales)	\$ 2,400.00	\$ 0.77	N	\$ 0.00
Waterbar Skids	\$ 11,775.00	\$ 3.79	N	\$ 0.00
Ripping	\$ 1,500.00	\$ 0.48	N	\$ 0.00
<b>Subtotal</b>	<b>\$ 32,982.90</b>	<b>\$ 10.61</b>		<b>\$ 0.00</b>

\* Cost / Net Volume has been rounded to the nearest \$0.01 Subtotals may not tie to Sale Total Cost / Net Volume.

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**Consolidated Comments**

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**General**

**Yarding & Loading**

Track Skidder = Feller buncher (<20"), wheel skidder, loader, stroke delimeter & manually falling trees 20" and larger.  
Additional Move-Ins #1 = (Yarder / Yoader / Loader) @ 3hr each @ \$150/hr.  
Additional Move-Ins #2 = Feller Buncher/skidder/stroke delimeter/cat.  
Deadman Anchors possible in unit 19-9 as per lead layout.

**Road Costs**

(see Engineering Appraisal for details).

**Transportation**

(see Transportation appendix for details).

**Other Allowances**

SD-5 costs from Fuels shop.  
Equipment Washing #1 = loader and yarder  
Equipment Washing #2 = skidder, stroke delimeter, feller buncher, cat.  
Flaggers = L-21 stip in contract, flaggers needed in units along Hwy. (30-3 and 31-10).Flaggers also needed for heli operations in Sections 19 & 21.

**Prospectus**

All species 3P cruised with combined sampling error of 9.6%.  
Form Class of 85 used for White Fir. Southern portion of sale (units 23-1, 25-3, 7-1, 7-2, 7-3, 7-4, 9-3, 9-4, 9-5, 10-5, 31-1S, sec. 3W)  
Douglas-fir FC = 76. Rest of units in sale Douglas-fir FC = 80. Form Class IC = 66, PP & SP = 80, WH.  
Additional risk added due to helicopter operations



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Summary of All Roads and Projects

Updated: 5/1/2013

T.S. Contract Name: Mouse Trail T S    Tract No: 2014-0009    Sale Date: 9-14  
Prepared by: L. Kalvels    Ph: 618-2288    Print Date: 7/7/2014 4:42:24 PM  
Construction: 22.18 sta  
Improve: 0.00 sta    Renov: 3031.77 sta    Decom: 0.00 sta    Temp: 0.00 sta

200 Clearing and Grubbing: 2.6 acres .....	\$4,260.49
Clearing: 28.5 sta    Grubbing: 2.6 acres	
Slash Treatment: 2.6 acres	
300 Excavation: .....	\$0.00
Haul: 0 sta-yds	
400 Drainage: .....	\$0.00
Culvert: 0 lf    wt = 0 lbs	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation: .....	\$92,414.31
Blading 57.84 mi	
Slide Removal 50 cy	
Surfacing: .....	\$8,348.23
1200 Quarry Name: stockpile 20 cy	
700 Quarry Name: sec. pit PR 280 cy	
1000 Quarry Name: 227 private 250 cy	
1300 Geotextiles: .....	\$0.00
1400 Slope Protection: .....	\$0.00
1800 Soil Stabilization: 0.0 acres .....	\$0.00
1900 Cattleguards: .....	\$0.00
2100 RoadSide Brushing: 56.0 acres .....	\$30,428.13
2300 Engineering: 0.00 sta. ....	\$0.00
2400 Minor Concrete: .....	\$0.00
2500 Gabions: .....	\$0.00
8000 Miscellaneous: .....	\$23,135.16
Mobilization: Const. \$0.00    Surf. \$5,000.00.....	\$5,000.00
Quarry Development: .....	\$0.00
Total: 3,419 mbf @ \$47.846/mbf = \$163,586.32	

Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities are COMPACTED in place cubic yards.

File S:\Butte Falls\ENGINEERING\BF\_Timber\_Sales\2014 Timber Sales\14trailTS\14-6 Mouse Trail TS -  
lsale\mousetrailcost - w improvements.mdb

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Mouse Trail T S Sale Date: 9-14  
**Road Number: 32-1W-16.00** Road Name: Shed Camp Connect  
 Road Renovation: 0.63 mi 14 ft Subgrade 3 ft ditch

5/1/2013

200 Clearing and Grubbing: 0.0 acres .....	\$0.00
Clearing:0.0 sta    Grubbing:0.0 acres	
Slash Treatment:0.0 acres	
300 Excavation: .....	\$0.00
400 Drainage: .....	\$0.00
Culvert: 0 lf    wt = 0 lbs    factor = 1.2	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation: .....	\$1,011.32
Blading 0.63 mi	
Surfacing: .....	\$0.00
1300 Geotextiles: .....	\$0.00
1400 Slope Protection: .....	\$0.00
1800 Soil Stabilization: 0.0 acres .....	\$0.00
1900 Cattleguards: .....	\$0.00
2100 RoadSide Brushing: 0.6 acres .....	\$167.00
2300 Engineering: 0.00 sta. ....	\$0.00
2400 Minor Concrete: .....	\$0.00
2500 Gabions: .....	\$0.00
8000 Miscellaneous: .....	\$0.00
Mobilization: Const. \$0.00 Surf. \$0.00.....	\$0.00
Quarry Development: .....	\$0.00

Total: \$1,178.33

Notes:

Quantities shown are estimates only and not pay items.  
 Surfacing Quantities shown are COMPACTED in place cubic yards.

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Mouse Trail T S Sale Date: 9-14  
**Road Number: 32-1W-19.00-1** Road Name: Ragsdale Butte Divid  
 Road Renovation: 2.99 mi 14 ft Subgrade 3 ft ditch

5/1/2013

200 Clearing and Grubbing: 0.0 acres .....	\$0.00
Clearing:0.0 sta    Grubbing:0.0 acres	
Slash Treatment:0.0 acres	
300 Excavation: .....	\$0.00
400 Drainage: .....	\$0.00
Culvert: 0 lf    wt = 0 lbs    factor = 1.2	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation: .....	\$4,774.87
Blading 2.99 mi	
Surfacing: .....	\$0.00
1300 Geotextiles: .....	\$0.00
1400 Slope Protection: .....	\$0.00
1800 Soil Stabilization: 0.0 acres .....	\$0.00
1900 Cattleguards: .....	\$0.00
2100 RoadSide Brushing: 2.9 acres .....	\$807.19
2300 Engineering: 0.00 sta. ....	\$0.00
2400 Minor Concrete: .....	\$0.00
2500 Gabions: .....	\$0.00
8000 Miscellaneous: .....	\$2,492.16
Mobilization: Const. \$0.00 Surf. \$0.00.....	\$0.00
Quarry Development: .....	\$0.00
Total:	\$8,074.22

Notes:

Quantities shown are estimates only and not pay items.  
 Surfacing Quantities shown are COMPACTED in place cubic yards.

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Mouse Trail T S Sale Date: 9-14

Road Number: 32-1W-19.00-3 Road Name: Ragsdale Butte Divid

Road Renovation: 0.45 mi 16 ft Subgrade 3 ft ditch 5/1/2013

200 Clearing and Grubbing: 0.0 acres .....	\$0.00
Clearing:0.0 sta   Grubbing:0.0 acres	
Slash Treatment:0.0 acres	
300 Excavation: .....	\$0.00
400 Drainage: .....	\$0.00
Culvert: 0 lf    wt = 0 lbs    factor = 1.2	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation: .....	\$526.29
Blading 0.45 mi	
Surfacing: .....	\$0.00
1300 Geotextiles: .....	\$0.00
1400 Slope Protection: .....	\$0.00
1800 Soil Stabilization: 0.0 acres .....	\$0.00
1900 Cattleguards: .....	\$0.00
2100 RoadSide Brushing: 0.4 acres .....	\$111.34
2300 Engineering: 0.00 sta. ....	\$0.00
2400 Minor Concrete: .....	\$0.00
2500 Gabions: .....	\$0.00
8000 Miscellaneous: .....	\$0.00
Mobilization: Const. \$0.00 Surf. \$0.00.....	\$0.00
Quarry Development: .....	\$0.00
Total:	\$637.62

Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are COMPACTED in place cubic yards.

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Mouse Trail T S Sale Date: 9-14

**Road Number: 32-1W-19.02** Road Name: Lone Rock Pit

Road Renovation: 0.17 mi 14 ft Subgrade 0 ft ditch 5/1/2013

200 Clearing and Grubbing: 0.0 acres .....	\$0.00
Clearing:0.0 sta Grubbing:0.0 acres	
Slash Treatment:0.0 acres	
300 Excavation: .....	\$0.00
400 Drainage: .....	\$0.00
Culvert: 0 lf wt = 0 lbs factor = 1.2	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation: .....	\$207.98
Blading 0.17 mi	
Surfacing: .....	\$0.00
1300 Geotextiles: .....	\$0.00
1400 Slope Protection: .....	\$0.00
1800 Soil Stabilization: 0.0 acres .....	\$0.00
1900 Cattleguards: .....	\$0.00
2100 RoadSide Brushing: 0.2 acres .....	\$111.34
2300 Engineering: 0.00 sta. ....	\$0.00
2400 Minor Concrete: .....	\$0.00
2500 Gabions: .....	\$0.00
8000 Miscellaneous: .....	\$0.00
Mobilization: Const. \$0.00 Surf. \$0.00.....	\$0.00
Quarry Development: .....	\$0.00
Total:	\$319.31

Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are COMPACTED in place cubic yards.

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Mouse Trail T S Sale Date: 9-14

**Road Number: 32-1W-20.00** Road Name: Old NW Microwave

Road Renovation: 0.25 mi 12 ft Subgrade 3 ft ditch 5/1/2013

200 Clearing and Grubbing: 0.0 acres .....	\$0.00
Clearing:0.0 sta Grubbing:0.0 acres	
Slash Treatment:0.0 acres	
300 Excavation: .....	\$0.00
400 Drainage: .....	\$0.00
Culvert: 0 lf wt = 0 lbs factor = 1.2	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation: .....	\$392.04
Blading 0.25 mi	
Surfacing: .....	\$0.00
1300 Geotextiles: .....	\$0.00
1400 Slope Protection: .....	\$0.00
1800 Soil Stabilization: 0.0 acres .....	\$0.00
1900 Cattleguards: .....	\$0.00
2100 RoadSide Brushing: 0.2 acres .....	\$55.67
2300 Engineering: 0.00 sta. ....	\$0.00
2400 Minor Concrete: .....	\$0.00
2500 Gabions: .....	\$0.00
8000 Miscellaneous: .....	\$0.00
Mobilization: Const. \$0.00 Surf. \$0.00.....	\$0.00
Quarry Development: .....	\$0.00
Total:	\$447.70

Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are COMPACTED in place cubic yards.

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Mouse Trail T S Sale Date: 9-14  
**Road Number: 32-1W-21.00** Road Name: Shed Camp Connect  
 Road Renovation: 0.13 mi 16 ft Subgrade 3 ft ditch

5/1/2013

200 Clearing and Grubbing: 0.0 acres .....	\$0.00
Clearing:0.0 sta    Grubbing:0.0 acres	
Slash Treatment:0.0 acres	
300 Excavation: .....	\$0.00
400 Drainage: .....	\$0.00
Culvert: 0 lf    wt = 0 lbs    factor = 1.2	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation: .....	\$918.41
Blading 0.13 mi	
Surfacing: .....	\$0.00
1300 Geotextiles: .....	\$0.00
1400 Slope Protection: .....	\$0.00
1800 Soil Stabilization: 0.0 acres .....	\$0.00
1900 Cattleguards: .....	\$0.00
2100 RoadSide Brushing: 0.1 acres .....	\$55.67
2300 Engineering: 0.00 sta. ....	\$0.00
2400 Minor Concrete: .....	\$0.00
2500 Gabions: .....	\$0.00
8000 Miscellaneous: .....	\$0.00
Mobilization: Const. \$0.00 Surf. \$0.00.....	\$0.00
Quarry Development: .....	\$0.00
Total:	\$974.08

Notes:

Quantities shown are estimates only and not pay items.  
 Surfacing Quantities shown are COMPACTED in place cubic yards.

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Mouse Trail T S Sale Date: 9-14  
**Road Number: 32-1W-21.03** Road Name: Shed Camp Connect  
 Road Renovation: 1.07 mi 16 ft Subgrade 3 ft ditch

5/1/2013

200 Clearing and Grubbing: 0.0 acres .....	\$0.00
Clearing:0.0 sta    Grubbing:0.0 acres	
Slash Treatment:0.0 acres	
300 Excavation: .....	\$0.00
400 Drainage: .....	\$0.00
Culvert: 0 lf    wt = 0 lbs    factor = 1.2	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation: .....	\$1,699.71
Blading 1.07 mi	
Surfacing: .....	\$0.00
1300 Geotextiles: .....	\$0.00
1400 Slope Protection: .....	\$0.00
1800 Soil Stabilization: 0.0 acres .....	\$0.00
1900 Cattleguards: .....	\$0.00
2100 RoadSide Brushing: 1.0 acres .....	\$556.68
2300 Engineering: 0.00 sta. ....	\$0.00
2400 Minor Concrete: .....	\$0.00
2500 Gabions: .....	\$0.00
8000 Miscellaneous: .....	\$0.00
Mobilization: Const. \$0.00 Surf. \$0.00.....	\$0.00
Quarry Development: .....	\$0.00
Total:	\$2,256.39

Notes:

Quantities shown are estimates only and not pay items.  
 Surfacing Quantities shown are COMPACTED in place cubic yards.

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Mouse Trail T S Sale Date: 9-14  
**Road Number: 32-1W-21.05** Road Name: Upper Trail Ck Spur  
 Road Renovation: 0.71 mi 12 ft Subgrade 3 ft ditch

5/1/2013

200 Clearing and Grubbing: 0.0 acres .....	\$0.00
Clearing:0.0 sta   Grubbing:0.0 acres	
Slash Treatment:0.0 acres	
300 Excavation: .....	\$0.00
400 Drainage: .....	\$0.00
Culvert: 0 lf      wt = 0 lbs      factor = 1.2	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation: .....	\$1,125.61
Blading 0.71 mi	
Surfacing: .....	\$0.00
1300 Geotextiles: .....	\$0.00
1400 Slope Protection: .....	\$0.00
1800 Soil Stabilization: 0.0 acres .....	\$0.00
1900 Cattleguards: .....	\$0.00
2100 RoadSide Brushing: 0.7 acres .....	\$389.68
2300 Engineering: 0.00 sta. ....	\$0.00
2400 Minor Concrete: .....	\$0.00
2500 Gabions: .....	\$0.00
8000 Miscellaneous: .....	\$0.00
Mobilization: Const. \$0.00 Surf. \$0.00.....	\$0.00
Quarry Development: .....	\$0.00
Total:	\$1,515.29

Notes:

Quantities shown are estimates only and not pay items.  
 Surfacing Quantities shown are COMPACTED in place cubic yards.

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Mouse Trail T S Sale Date: 9-14

Road Number: 32-1W-27.01 Road Name: Blue Chip Quarry

Road Renovation: 0.38 mi 14 ft Subgrade 3 ft ditch 5/1/2013

200 Clearing and Grubbing: 0.0 acres .....	\$0.00
Clearing:0.0 sta   Grubbing:0.0 acres	
Slash Treatment:0.0 acres	
300 Excavation: .....	\$0.00
400 Drainage: .....	\$0.00
Culvert: 0 lf    wt = 0 lbs    factor = 1.2	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation: .....	\$606.00
Blading 0.38 mi	
Surfacing: .....	\$0.00
1300 Geotextiles: .....	\$0.00
1400 Slope Protection: .....	\$0.00
1800 Soil Stabilization: 0.0 acres .....	\$0.00
1900 Cattleguards: .....	\$0.00
2100 RoadSide Brushing: 0.4 acres .....	\$222.67
2300 Engineering: 0.00 sta. ....	\$0.00
2400 Minor Concrete: .....	\$0.00
2500 Gabions: .....	\$0.00
8000 Miscellaneous: .....	\$0.00
Mobilization: Const. \$0.00 Surf. \$0.00.....	\$0.00
Quarry Development: .....	\$0.00
Total:	\$828.67

Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are COMPACTED in place cubic yards.

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Mouse Trail T S Sale Date: 9-14  
**Road Number: 32-1W-29.02** Road Name: Shed Camp Connect  
 Road Renovation: 1.20 mi 16 ft Subgrade 3 ft ditch

5/1/2013

200 Clearing and Grubbing: 0.0 acres .....	\$0.00
Clearing:0.0 sta    Grubbing:0.0 acres	
Slash Treatment:0.0 acres	
300 Excavation: .....	\$0.00
400 Drainage: .....	\$0.00
Culvert: 0 lf    wt = 0 lbs    factor = 1.2	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation: .....	\$1,913.67
Blading 1.20 mi	
Surfacing: .....	\$0.00
1300 Geotextiles: .....	\$0.00
1400 Slope Protection: .....	\$0.00
1800 Soil Stabilization: 0.0 acres .....	\$0.00
1900 Cattleguards: .....	\$0.00
2100 RoadSide Brushing: 1.2 acres .....	\$668.02
2300 Engineering: 0.00 sta. ....	\$0.00
2400 Minor Concrete: .....	\$0.00
2500 Gabions: .....	\$0.00
8000 Miscellaneous: .....	\$0.00
Mobilization: Const. \$0.00 Surf. \$0.00.....	\$0.00
Quarry Development: .....	\$0.00
Total:	\$2,581.69

Notes:

Quantities shown are estimates only and not pay items.  
 Surfacing Quantities shown are COMPACTED in place cubic yards.

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Mouse Trail T S Sale Date: 9-14  
**Road Number: 32-1W-29.03** Road Name: Snowmobile Connect  
 Road Renovation: 0.76 mi 14 ft Subgrade 3 ft ditch

5/1/2013

200 Clearing and Grubbing: 0.0 acres .....	\$0.00
Clearing:0.0 sta   Grubbing:0.0 acres	
Slash Treatment:0.0 acres	
300 Excavation: .....	\$0.00
400 Drainage: .....	\$0.00
Culvert: 0 lf    wt = 0 lbs    factor = 1.2	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation: .....	\$1,172.12
Blading 0.76 mi	
Surfacing: .....	\$0.00
1300 Geotextiles: .....	\$0.00
1400 Slope Protection: .....	\$0.00
1800 Soil Stabilization: 0.0 acres .....	\$0.00
1900 Cattleguards: .....	\$0.00
2100 RoadSide Brushing: 0.7 acres .....	\$389.68
2300 Engineering: 0.00 sta. ....	\$0.00
2400 Minor Concrete: .....	\$0.00
2500 Gabions: .....	\$0.00
8000 Miscellaneous: .....	\$0.00
Mobilization: Const. \$0.00 Surf. \$0.00.....	\$0.00
Quarry Development: .....	\$0.00
Total:	\$1,561.79

Notes:

Quantities shown are estimates only and not pay items.  
 Surfacing Quantities shown are COMPACTED in place cubic yards.

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Mouse Trail T S Sale Date: 9-14

Road Number: 32-1W-29.04 Road Name: Northwest Spur

Road Renovation: 0.26 mi 12 ft Subgrade 0 ft ditch 5/1/2013

200 Clearing and Grubbing: 0.0 acres .....	\$0.00
Clearing:0.0 sta   Grubbing:0.0 acres	
Slash Treatment:0.0 acres	
300 Excavation: .....	\$0.00
400 Drainage: .....	\$0.00
Culvert: 0 lf     wt = 0 lbs     factor = 1.2	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation: .....	\$307.92
Blading 0.26 mi	
Surfacing: .....	\$0.00
1300 Geotextiles: .....	\$0.00
1400 Slope Protection: .....	\$0.00
1800 Soil Stabilization: 0.0 acres .....	\$0.00
1900 Cattleguards: .....	\$0.00
2100 RoadSide Brushing: 0.3 acres .....	\$167.00
2300 Engineering: 0.00 sta. ....	\$0.00
2400 Minor Concrete: .....	\$0.00
2500 Gabions: .....	\$0.00
8000 Miscellaneous: .....	\$0.00
Mobilization: Const. \$0.00 Surf. \$0.00.....	\$0.00
Quarry Development: .....	\$0.00
Total:	\$474.92

Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are COMPACTED in place cubic yards.

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Mouse Trail T S Sale Date: 9-14

Road Number: 32-1W-29.06 Road Name: Private Spur

Road Renovation: 0.06 mi 14 ft Subgrade 0 ft ditch 5/1/2013

200 Clearing and Grubbing: 0.0 acres .....	\$0.00
Clearing:0.0 sta   Grubbing:0.0 acres	
Slash Treatment:0.0 acres	
300 Excavation: .....	\$0.00
400 Drainage: .....	\$0.00
Culvert: 0 lf    wt = 0 lbs    factor = 1.2	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation: .....	\$71.06
Blading 0.06 mi	
Surfacing: .....	\$0.00
1300 Geotextiles: .....	\$0.00
1400 Slope Protection: .....	\$0.00
1800 Soil Stabilization: 0.0 acres .....	\$0.00
1900 Cattleguards: .....	\$0.00
2100 RoadSide Brushing: 0.1 acres .....	\$55.67
2300 Engineering: 0.00 sta. ....	\$0.00
2400 Minor Concrete: .....	\$0.00
2500 Gabions: .....	\$0.00
8000 Miscellaneous: .....	\$0.00
Mobilization: Const. \$0.00 Surf. \$0.00.....	\$0.00
Quarry Development: .....	\$0.00
Total:	\$126.73

Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are COMPACTED in place cubic yards.

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Mouse Trail T S Sale Date: 9-14  
**Road Number: 32-1W-29.07** Road Name: Upper Trail Spur 7  
 Road Renovation: 0.44 mi 14 ft Subgrade 3 ft ditch

5/1/2013

200 Clearing and Grubbing: 0.0 acres .....	\$0.00
Clearing:0.0 sta    Grubbing:0.0 acres	
Slash Treatment:0.0 acres	
300 Excavation: .....	\$0.00
400 Drainage: .....	\$0.00
Culvert: 0 lf    wt = 0 lbs    factor = 1.2	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation: .....	\$701.68
Blading 0.44 mi	
Surfacing: .....	\$0.00
1300 Geotextiles: .....	\$0.00
1400 Slope Protection: .....	\$0.00
1800 Soil Stabilization: 0.0 acres .....	\$0.00
1900 Cattleguards: .....	\$0.00
2100 RoadSide Brushing: 0.4 acres .....	\$222.67
2300 Engineering: 0.00 sta. ....	\$0.00
2400 Minor Concrete: .....	\$0.00
2500 Gabions: .....	\$0.00
8000 Miscellaneous: .....	\$0.00
Mobilization: Const. \$0.00 Surf. \$0.00.....	\$0.00
Quarry Development: .....	\$0.00
Total:	\$924.35

Notes:

Quantities shown are estimates only and not pay items.  
 Surfacing Quantities shown are COMPACTED in place cubic yards.

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Mouse Trail T S Sale Date: 9-14  
**Road Number: 32-1W-33.01** Road Name: Upper Trail Ck ML  
 Road Renovation: 3.96 mi 16 ft Subgrade 3 ft ditch

5/1/2013

200 Clearing and Grubbing: 0.0 acres .....	\$0.00
Clearing:0.0 sta    Grubbing:0.0 acres	
Slash Treatment:0.0 acres	
300 Excavation: .....	\$0.00
400 Drainage: .....	\$0.00
Culvert: 0 lf    wt = 0 lbs    factor = 1.2	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation: .....	\$6,315.11
Blading 3.96 mi	
Surfacing: .....	\$225.60
Quarry Name: stockpile 20 cy	
1300 Geotextiles: .....	\$0.00
1400 Slope Protection: .....	\$0.00
1800 Soil Stabilization: 0.0 acres .....	\$0.00
1900 Cattleguards: .....	\$0.00
2100 RoadSide Brushing: 3.8 acres .....	\$2,115.38
2300 Engineering: 0.00 sta. ....	\$0.00
2400 Minor Concrete: .....	\$0.00
2500 Gabions: .....	\$0.00
8000 Miscellaneous: .....	\$0.00
Mobilization: Const. \$0.00 Surf. \$181.82.....	\$181.82
Quarry Development: .....	\$0.00

Total: \$8,837.91

Notes:

Quantities shown are estimates only and not pay items.  
 Surfacing Quantities shown are COMPACTED in place cubic yards.

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Mouse Trail T S Sale Date: 9-14

Road Number: 32-1W-33.02 Road Name: Shed Camp ML

Road Renovation: 5.04 mi 16 ft Subgrade 3 ft ditch 5/1/2013

200 Clearing and Grubbing: 0.0 acres .....	\$0.00
Clearing:0.0 sta   Grubbing:0.0 acres	
Slash Treatment:0.0 acres	
300 Excavation: .....	\$0.00
400 Drainage: .....	\$0.00
Culvert: 0 lf    wt = 0 lbs    factor = 1.2	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation: .....	\$8,037.41
Blading 5.04 mi	
Surfacing: .....	\$0.00
1300 Geotextiles: .....	\$0.00
1400 Slope Protection: .....	\$0.00
1800 Soil Stabilization: 0.0 acres .....	\$0.00
1900 Cattleguards: .....	\$0.00
2100 RoadSide Brushing: 4.9 acres .....	\$2,727.73
2300 Engineering: 0.00 sta. ....	\$0.00
2400 Minor Concrete: .....	\$0.00
2500 Gabions: .....	\$0.00
8000 Miscellaneous: .....	\$2,990.20
Mobilization: Const. \$0.00 Surf. \$0.00.....	\$0.00
Quarry Development: .....	\$0.00
Total:	\$13,755.35

Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are COMPACTED in place cubic yards.

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Mouse Trail T S Sale Date: 9-14

**Road Number: 32-1W-33.03** Road Name: Lower Spur

Road Renovation: 1.47 mi 14 ft Subgrade 3 ft ditch 5/1/2013

200 Clearing and Grubbing: 0.0 acres .....	\$0.00
Clearing:0.0 sta Grubbing:0.0 acres	
Slash Treatment:0.0 acres	
300 Excavation: .....	\$0.00
400 Drainage: .....	\$0.00
Culvert: 0 lf wt = 0 lbs factor = 1.2	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation: .....	\$2,417.35
Blading 1.47 mi	
Surfacing: .....	\$0.00
1300 Geotextiles: .....	\$0.00
1400 Slope Protection: .....	\$0.00
1800 Soil Stabilization: 0.0 acres .....	\$0.00
1900 Cattleguards: .....	\$0.00
2100 RoadSide Brushing: 1.4 acres .....	\$779.35
2300 Engineering: 0.00 sta. ....	\$0.00
2400 Minor Concrete: .....	\$0.00
2500 Gabions: .....	\$0.00
8000 Miscellaneous: .....	\$0.00
Mobilization: Const. \$0.00 Surf. \$0.00.....	\$0.00
Quarry Development: .....	\$0.00
Total:	\$3,196.70

Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are COMPACTED in place cubic yards.

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Mouse Trail T S Sale Date: 9-14

Road Number: 32-1W-33.03S Road Name: Landing Spur

Road Renovation: 0.04 mi 14 ft Subgrade 0 ft ditch 5/1/2013

200 Clearing and Grubbing: 0.0 acres .....	\$0.00
Clearing:0.0 sta    Grubbing:0.0 acres	
Slash Treatment:0.0 acres	
300 Excavation: .....	\$0.00
400 Drainage: .....	\$0.00
Culvert: 0 lf    wt = 0 lbs    factor = 1.2	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation: .....	\$47.37
Blading 0.04 mi	
Surfacing: .....	\$0.00
1300 Geotextiles: .....	\$0.00
1400 Slope Protection: .....	\$0.00
1800 Soil Stabilization: 0.0 acres .....	\$0.00
1900 Cattleguards: .....	\$0.00
2100 RoadSide Brushing: 0.0 acres .....	\$5.57
2300 Engineering: 0.00 sta. ....	\$0.00
2400 Minor Concrete: .....	\$0.00
2500 Gabions: .....	\$0.00
8000 Miscellaneous: .....	\$0.00
Mobilization: Const. \$0.00 Surf. \$0.00.....	\$0.00
Quarry Development: .....	\$0.00
Total:	\$52.94

Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are COMPACTED in place cubic yards.

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Mouse Trail T S Sale Date: 9-14

Road Number: 33-1W-05.00 Road Name: Dwinne1

Road Renovation: 3.24 mi 16 ft Subgrade 3 ft ditch 5/1/2013

200 Clearing and Grubbing: 0.0 acres .....	\$0.00
Clearing:0.0 sta    Grubbing:0.0 acres	
Slash Treatment:0.0 acres	
300 Excavation: .....	\$0.00
400 Drainage: .....	\$0.00
Culvert: 0 lf    wt = 0 lbs    factor = 1.2	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation: .....	\$5,166.91
Blading 3.24 mi	
Surfacing: .....	\$0.00
1300 Geotextiles: .....	\$0.00
1400 Slope Protection: .....	\$0.00
1800 Soil Stabilization: 0.0 acres .....	\$0.00
1900 Cattleguards: .....	\$0.00
2100 RoadSide Brushing: 3.1 acres .....	\$1,725.71
2300 Engineering: 0.00 sta. ....	\$0.00
2400 Minor Concrete: .....	\$0.00
2500 Gabions: .....	\$0.00
8000 Miscellaneous: .....	\$0.00
Mobilization: Const. \$0.00 Surf. \$0.00.....	\$0.00
Quarry Development: .....	\$0.00
Total:	\$6,892.62

Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are COMPACTED in place cubic yards.

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Mouse Trail T S Sale Date: 9-14

Road Number: 33-1W-05.04 Road Name: Wall Creek

Road Renovation: 1.25 mi 14 ft Subgrade 3 ft ditch 5/1/2013

200 Clearing and Grubbing: 0.0 acres .....	\$0.00
Clearing:0.0 sta    Grubbing:0.0 acres	
Slash Treatment:0.0 acres	
300 Excavation: .....	\$0.00
400 Drainage: .....	\$0.00
Culvert: 0 lf    wt = 0 lbs    factor = 1.2	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation: .....	\$1,986.76
Blading 1.25 mi	
Surfacing: .....	\$2,087.22
Quarry Name: sec. pit PR 160 cy	
1300 Geotextiles: .....	\$0.00
1400 Slope Protection: .....	\$0.00
1800 Soil Stabilization: 0.0 acres .....	\$0.00
1900 Cattleguards: .....	\$0.00
2100 RoadSide Brushing: 1.2 acres .....	\$668.02
2300 Engineering: 0.00 sta. ....	\$0.00
2400 Minor Concrete: .....	\$0.00
2500 Gabions: .....	\$0.00
8000 Miscellaneous: .....	\$0.00
Mobilization: Const. \$0.00 Surf. \$1,454.55.....	\$1,454.55
Quarry Development: .....	\$0.00

Total: \$6,196.54

Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are COMPACTED in place cubic yards.

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Mouse Trail T S Sale Date: 9-14

Road Number: 33-1W-07.00 Road Name: Old Ben Spur

Road Renovation: 0.76 mi 12 ft Subgrade 3 ft ditch 5/1/2013

200 Clearing and Grubbing: 0.0 acres .....	\$0.00
Clearing:0.0 sta    Grubbing:0.0 acres	
Slash Treatment:0.0 acres	
300 Excavation: .....	\$0.00
400 Drainage: .....	\$0.00
Culvert: 0 lf    wt = 0 lbs    factor = 1.2	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation: .....	\$1,211.99
Blading 0.76 mi	
Surfacing: .....	\$0.00
1300 Geotextiles: .....	\$0.00
1400 Slope Protection: .....	\$0.00
1800 Soil Stabilization: 0.0 acres .....	\$0.00
1900 Cattleguards: .....	\$0.00
2100 RoadSide Brushing: 0.7 acres .....	\$389.68
2300 Engineering: 0.00 sta. ....	\$0.00
2400 Minor Concrete: .....	\$0.00
2500 Gabions: .....	\$0.00
8000 Miscellaneous: .....	\$0.00
Mobilization: Const. \$0.00 Surf. \$0.00.....	\$0.00
Quarry Development: .....	\$0.00
Total:	\$1,601.67

Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are COMPACTED in place cubic yards.

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Mouse Trail T S Sale Date: 9-14

Road Number: 33-1W-08.00 Road Name: Buck Rock

Road Renovation: 2.95 mi 16 ft Subgrade 3 ft ditch 5/1/2013

200 Clearing and Grubbing: 0.0 acres .....	\$0.00
Clearing:0.0 sta    Grubbing:0.0 acres	
Slash Treatment:0.0 acres	
300 Excavation: .....	\$0.00
400 Drainage: .....	\$0.00
Culvert: 0 lf    wt = 0 lbs    factor = 1.2	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation: .....	\$4,764.25
Blading 2.95 mi	
Surfacing: .....	\$0.00
1300 Geotextiles: .....	\$0.00
1400 Slope Protection: .....	\$0.00
1800 Soil Stabilization: 0.0 acres .....	\$0.00
1900 Cattleguards: .....	\$0.00
2100 RoadSide Brushing: 2.9 acres .....	\$1,614.37
2300 Engineering: 0.00 sta. ....	\$0.00
2400 Minor Concrete: .....	\$0.00
2500 Gabions: .....	\$0.00
8000 Miscellaneous: .....	\$0.00
Mobilization: Const. \$0.00 Surf. \$0.00.....	\$0.00
Quarry Development: .....	\$0.00
Total:	\$6,378.62

Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are COMPACTED in place cubic yards.

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Mouse Trail T S Sale Date: 9-14  
**Road Number: 33-1W-08.01** Road Name: Dwinneel Rd Easement  
 Road Renovation: 1.36 mi 12 ft Subgrade 3 ft ditch

5/1/2013

200 Clearing and Grubbing: 0.0 acres .....	\$0.00
Clearing:0.0 sta Grubbing:0.0 acres	
Slash Treatment:0.0 acres	
300 Excavation: .....	\$0.00
400 Drainage: .....	\$0.00
Culvert: 0 lf wt = 0 lbs factor = 1.2	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation: .....	\$2,168.83
Blading 1.36 mi	
Surfacing: .....	\$0.00
1300 Geotextiles: .....	\$0.00
1400 Slope Protection: .....	\$0.00
1800 Soil Stabilization: 0.0 acres .....	\$0.00
1900 Cattleguards: .....	\$0.00
2100 RoadSide Brushing: 1.3 acres .....	\$723.68
2300 Engineering: 0.00 sta. ....	\$0.00
2400 Minor Concrete: .....	\$0.00
2500 Gabions: .....	\$0.00
8000 Miscellaneous: .....	\$300.00
Mobilization: Const. \$0.00 Surf. \$0.00.....	\$0.00
Quarry Development: .....	\$0.00
Total:	\$3,192.51

Notes:

Quantities shown are estimates only and not pay items.  
 Surfacing Quantities shown are COMPACTED in place cubic yards.

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Mouse Trail T S Sale Date: 9-14

Road Number: 33-1W-09.01 Road Name: Buck Rock S Spur

Road Renovation: 0.11 mi 12 ft Subgrade 0 ft ditch 5/1/2013

200 Clearing and Grubbing: 0.0 acres .....	\$0.00
Clearing:0.0 sta   Grubbing:0.0 acres	
Slash Treatment:0.0 acres	
300 Excavation: .....	\$0.00
400 Drainage: .....	\$0.00
Culvert: 0 lf    wt = 0 lbs    factor = 1.2	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation: .....	\$152.36
Blading 0.11 mi	
Surfacing: .....	\$0.00
1300 Geotextiles: .....	\$0.00
1400 Slope Protection: .....	\$0.00
1800 Soil Stabilization: 0.0 acres .....	\$0.00
1900 Cattleguards: .....	\$0.00
2100 RoadSide Brushing: 0.1 acres .....	\$55.67
2300 Engineering: 0.00 sta. ....	\$0.00
2400 Minor Concrete: .....	\$0.00
2500 Gabions: .....	\$0.00
8000 Miscellaneous: .....	\$3,700.00
Mobilization: Const. \$0.00 Surf. \$0.00.....	\$0.00
Quarry Development: .....	\$0.00
Total:	\$3,908.03

Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are COMPACTED in place cubic yards.

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Mouse Trail T S Sale Date: 9-14  
**Road Number: 33-1W-10.00** Road Name: Oliver Springs ML  
 Road Renovation: 4.75 mi 14 ft Subgrade 3 ft ditch

5/1/2013

200 Clearing and Grubbing: 0.0 acres .....	\$0.00
Clearing:0.0 sta    Grubbing:0.0 acres	
Slash Treatment:0.0 acres	
300 Excavation: .....	\$0.00
400 Drainage: .....	\$0.00
Culvert: 0 lf    wt = 0 lbs    factor = 1.2	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation: .....	\$8,285.97
Blading 4.75 mi	
Slide Removal 50 cy	
Surfacing: .....	\$0.00
1300 Geotextiles: .....	\$0.00
1400 Slope Protection: .....	\$0.00
1800 Soil Stabilization: 0.0 acres .....	\$0.00
1900 Cattleguards: .....	\$0.00
2100 RoadSide Brushing: 4.6 acres .....	\$2,560.73
2300 Engineering: 0.00 sta. ....	\$0.00
2400 Minor Concrete: .....	\$0.00
2500 Gabions: .....	\$0.00
8000 Miscellaneous: .....	\$0.00
Mobilization: Const. \$0.00 Surf. \$0.00.....	\$0.00
Quarry Development: .....	\$0.00

Total: \$10,846.69

Notes:

Quantities shown are estimates only and not pay items.  
 Surfacing Quantities shown are COMPACTED in place cubic yards.

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Mouse Trail T S Sale Date: 9-14  
**Road Number: 33-1W-29.00BLM** Road Name: W. Branch Trail Crk  
 Road Renovation: 6.25 mi 16 ft Subgrade 3 ft ditch

5/1/2013

200 Clearing and Grubbing: 0.0 acres .....	\$0.00
Clearing:0.0 sta    Grubbing:0.0 acres	
Slash Treatment:0.0 acres	
300 Excavation: .....	\$0.00
400 Drainage: .....	\$0.00
Culvert: 0 lf    wt = 0 lbs    factor = 1.2	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation: .....	\$9,960.39
Blading 6.25 mi	
Surfacing: .....	\$0.00
1300 Geotextiles: .....	\$0.00
1400 Slope Protection: .....	\$0.00
1800 Soil Stabilization: 0.0 acres .....	\$0.00
1900 Cattleguards: .....	\$0.00
2100 RoadSide Brushing: 6.1 acres .....	\$3,395.75
2300 Engineering: 0.00 sta. ....	\$0.00
2400 Minor Concrete: .....	\$0.00
2500 Gabions: .....	\$0.00
8000 Miscellaneous: .....	\$2,492.16
Mobilization: Const. \$0.00 Surf. \$0.00.....	\$0.00
Quarry Development: .....	\$0.00
Total:	\$15,848.29

Notes:

Quantities shown are estimates only and not pay items.  
 Surfacing Quantities shown are COMPACTED in place cubic yards.

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Mouse Trail T S Sale Date: 9-14  
**Road Number: 33-1W-29.00FS** Road Name: W. Branch Trail  
 Road Renovation: 0.81 mi 16 ft Subgrade 3 ft ditch

5/1/2013

200 Clearing and Grubbing: 0.0 acres .....	\$0.00
Clearing:0.0 sta    Grubbing:0.0 acres	
Slash Treatment:0.0 acres	
300 Excavation: .....	\$0.00
400 Drainage: .....	\$0.00
Culvert: 0 lf    wt = 0 lbs    factor = 1.2	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation: .....	\$1,285.08
Blading 0.81 mi	
Surfacing: .....	\$0.00
1300 Geotextiles: .....	\$0.00
1400 Slope Protection: .....	\$0.00
1800 Soil Stabilization: 0.0 acres .....	\$0.00
1900 Cattleguards: .....	\$0.00
2100 RoadSide Brushing: 0.8 acres .....	\$445.34
2300 Engineering: 0.00 sta. ....	\$0.00
2400 Minor Concrete: .....	\$0.00
2500 Gabions: .....	\$0.00
8000 Miscellaneous: .....	\$0.00
Mobilization: Const. \$0.00 Surf. \$0.00.....	\$0.00
Quarry Development: .....	\$0.00
Total:	\$1,730.43

Notes:

Quantities shown are estimates only and not pay items.  
 Surfacing Quantities shown are COMPACTED in place cubic yards.

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Mouse Trail T S Sale Date: 9-14

Road Number: 33-1W-29.01 Road Name: Cabin Canyon ML

Road Renovation: 5.30 mi 16 ft Subgrade 3 ft ditch 5/1/2013

200 Clearing and Grubbing: 0.0 acres .....	\$0.00
Clearing:0.0 sta    Grubbing:0.0 acres	
Slash Treatment:0.0 acres	
300 Excavation: .....	\$0.00
400 Drainage: .....	\$0.00
Culvert: 0 lf    wt = 0 lbs    factor = 1.2	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation: .....	\$8,452.04
Blading 5.30 mi	
Surfacing: .....	\$3,863.08
Quarry Name: 227 private 250 cy	
1300 Geotextiles: .....	\$0.00
1400 Slope Protection: .....	\$0.00
1800 Soil Stabilization: 0.0 acres .....	\$0.00
1900 Cattleguards: .....	\$0.00
2100 RoadSide Brushing: 5.1 acres .....	\$2,839.07
2300 Engineering: 0.00 sta. ....	\$0.00
2400 Minor Concrete: .....	\$0.00
2500 Gabions: .....	\$0.00
8000 Miscellaneous: .....	\$0.00
Mobilization: Const. \$0.00 Surf. \$2,272.73.....	\$2,272.73
Quarry Development: .....	\$0.00

Total: \$17,426.91

Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are COMPACTED in place cubic yards.

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Mouse Trail T S Sale Date: 9-14  
**Road Number: 33-1W-31.00** Road Name: Cabin Board Mt Tie  
 Road Renovation: 2.16 mi 16 ft Subgrade 3 ft ditch

5/1/2013

200 Clearing and Grubbing: 0.0 acres .....	\$0.00
Clearing:0.0 sta    Grubbing:0.0 acres	
Slash Treatment:0.0 acres	
300 Excavation: .....	\$0.00
400 Drainage: .....	\$0.00
Culvert: 0 lf    wt = 0 lbs    factor = 1.2	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation: .....	\$3,444.61
Blading 2.16 mi	
Surfacing: .....	\$0.00
1300 Geotextiles: .....	\$0.00
1400 Slope Protection: .....	\$0.00
1800 Soil Stabilization: 0.0 acres .....	\$0.00
1900 Cattleguards: .....	\$0.00
2100 RoadSide Brushing: 2.1 acres .....	\$1,169.03
2300 Engineering: 0.00 sta. ....	\$0.00
2400 Minor Concrete: .....	\$0.00
2500 Gabions: .....	\$0.00
8000 Miscellaneous: .....	\$0.00
Mobilization: Const. \$0.00 Surf. \$0.00.....	\$0.00
Quarry Development: .....	\$0.00
Total:	\$4,613.63

Notes:

Quantities shown are estimates only and not pay items.  
 Surfacing Quantities shown are COMPACTED in place cubic yards.

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Mouse Trail T S Sale Date: 9-14  
**Road Number: 33-1W-31.04** Road Name: Cabin Cnyn Left Spr  
 Road Renovation: 0.18 mi 14 ft Subgrade 0 ft ditch

5/1/2013

200 Clearing and Grubbing: 0.0 acres .....	\$0.00
Clearing:0.0 sta Grubbing:0.0 acres	
Slash Treatment:0.0 acres	
300 Excavation: .....	\$0.00
400 Drainage: .....	\$0.00
Culvert: 0 lf wt = 0 lbs factor = 1.2	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation: .....	\$238.44
Blading 0.18 mi	
Surfacing: .....	\$0.00
1300 Geotextiles: .....	\$0.00
1400 Slope Protection: .....	\$0.00
1800 Soil Stabilization: 0.0 acres .....	\$0.00
1900 Cattleguards: .....	\$0.00
2100 RoadSide Brushing: 0.2 acres .....	\$111.34
2300 Engineering: 0.00 sta. ....	\$0.00
2400 Minor Concrete: .....	\$0.00
2500 Gabions: .....	\$0.00
8000 Miscellaneous: .....	\$0.00
Mobilization: Const. \$0.00 Surf. \$0.00.....	\$0.00
Quarry Development: .....	\$0.00
<b>Total:</b>	<b>\$349.78</b>

Notes:

Quantities shown are estimates only and not pay items.  
 Surfacing Quantities shown are COMPACTED in place cubic yards.

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Mouse Trail T S Sale Date: 9-14

Road Number: 33-1W-32.00 Road Name: Cabin Cnyn Left

Road Renovation: 2.10 mi 16 ft Subgrade 3 ft ditch 5/1/2013

200 Clearing and Grubbing: 0.0 acres .....	\$0.00
Clearing:0.0 sta    Grubbing:0.0 acres	
Slash Treatment:0.0 acres	
300 Excavation: .....	\$0.00
400 Drainage: .....	\$0.00
Culvert: 0 lf    wt = 0 lbs    factor = 1.2	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation: .....	\$3,348.92
Blading 2.10 mi	
Surfacing: .....	\$0.00
1300 Geotextiles: .....	\$0.00
1400 Slope Protection: .....	\$0.00
1800 Soil Stabilization: 0.0 acres .....	\$0.00
1900 Cattleguards: .....	\$0.00
2100 RoadSide Brushing: 2.0 acres .....	\$1,113.36
2300 Engineering: 0.00 sta. ....	\$0.00
2400 Minor Concrete: .....	\$0.00
2500 Gabions: .....	\$0.00
8000 Miscellaneous: .....	\$0.00
Mobilization: Const. \$0.00 Surf. \$0.00.....	\$0.00
Quarry Development: .....	\$0.00
Total:	\$4,462.28

Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are COMPACTED in place cubic yards.

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Mouse Trail T S Sale Date: 9-14  
**Road Number: 33-2W-03.02** Road Name: Snowshoe Springs 2  
 Road Renovation: 0.45 mi 14 ft Subgrade 3 ft ditch

5/1/2013

200 Clearing and Grubbing: 0.0 acres .....	\$0.00
Clearing:0.0 sta   Grubbing:0.0 acres	
Slash Treatment:0.0 acres	
300 Excavation: .....	\$0.00
400 Drainage: .....	\$0.00
Culvert: 0 lf    wt = 0 lbs    factor = 1.2	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation: .....	\$710.98
Blading 0.45 mi	
Surfacing: .....	\$0.00
1300 Geotextiles: .....	\$0.00
1400 Slope Protection: .....	\$0.00
1800 Soil Stabilization: 0.0 acres .....	\$0.00
1900 Cattleguards: .....	\$0.00
2100 RoadSide Brushing: 0.4 acres .....	\$222.67
2300 Engineering: 0.00 sta. ....	\$0.00
2400 Minor Concrete: .....	\$0.00
2500 Gabions: .....	\$0.00
8000 Miscellaneous: .....	\$0.00
Mobilization: Const. \$0.00 Surf. \$0.00.....	\$0.00
Quarry Development: .....	\$0.00
Total:	\$933.65

Notes:

Quantities shown are estimates only and not pay items.  
 Surfacing Quantities shown are COMPACTED in place cubic yards.

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Mouse Trail T S Sale Date: 9-14

Road Number: 33-2W-13.00 Road Name: Walpole ML

Road Renovation: 0.88 mi 16 ft Subgrade 3 ft ditch 5/1/2013

200 Clearing and Grubbing: 0.0 acres .....	\$0.00
Clearing:0.0 sta   Grubbing:0.0 acres	
Slash Treatment:0.0 acres	
300 Excavation: .....	\$0.00
400 Drainage: .....	\$0.00
Culvert: 0 lf    wt = 0 lbs    factor = 1.2	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation: .....	\$1,403.36
Blading 0.88 mi	
Surfacing: .....	\$0.00
1300 Geotextiles: .....	\$0.00
1400 Slope Protection: .....	\$0.00
1800 Soil Stabilization: 0.0 acres .....	\$0.00
1900 Cattleguards: .....	\$0.00
2100 RoadSide Brushing: 0.9 acres .....	\$501.01
2300 Engineering: 0.00 sta. ....	\$0.00
2400 Minor Concrete: .....	\$0.00
2500 Gabions: .....	\$0.00
8000 Miscellaneous: .....	\$0.00
Mobilization: Const. \$0.00 Surf. \$0.00.....	\$0.00
Quarry Development: .....	\$0.00
Total:	\$1,904.37

Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are COMPACTED in place cubic yards.

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Mouse Trail T S Sale Date: 9-14

Road Number: 33-2W-13.01 Road Name: Walpole

Road Renovation: 1.66 mi 16 ft Subgrade 3 ft ditch 5/1/2013

200 Clearing and Grubbing: 0.0 acres .....	\$0.00
Clearing:0.0 sta   Grubbing:0.0 acres	
Slash Treatment:0.0 acres	
300 Excavation: .....	\$0.00
400 Drainage: .....	\$0.00
Culvert: 0 lf    wt = 0 lbs    factor = 1.2	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation: .....	\$2,660.54
Blading 1.66 mi	
Surfacing: .....	\$1,906.14
Quarry Name: sec. pit PR 100 cy	
1300 Geotextiles: .....	\$0.00
1400 Slope Protection: .....	\$0.00
1800 Soil Stabilization: 0.0 acres .....	\$0.00
1900 Cattleguards: .....	\$0.00
2100 RoadSide Brushing: 1.6 acres .....	\$890.69
2300 Engineering: 0.00 sta. ....	\$0.00
2400 Minor Concrete: .....	\$0.00
2500 Gabions: .....	\$0.00
8000 Miscellaneous: .....	\$0.00
Mobilization: Const. \$0.00 Surf. \$909.09.....	\$909.09
Quarry Development: .....	\$0.00

Total: \$6,366.45

Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are COMPACTED in place cubic yards.

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Mouse Trail T S Sale Date: 9-14

Road Number: 33-2W-25.05 Road Name: Rocky View 5

Road Renovation: 0.09 mi 12 ft Subgrade 3 ft ditch 5/1/2013

200 Clearing and Grubbing: 0.0 acres .....	\$0.00
Clearing:0.0 sta   Grubbing:0.0 acres	
Slash Treatment:0.0 acres	
300 Excavation: .....	\$0.00
400 Drainage: .....	\$0.00
Culvert: 0 lf    wt = 0 lbs    factor = 1.2	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation: .....	\$125.87
Blading 0.09 mi	
Surfacing: .....	\$0.00
1300 Geotextiles: .....	\$0.00
1400 Slope Protection: .....	\$0.00
1800 Soil Stabilization: 0.0 acres .....	\$0.00
1900 Cattleguards: .....	\$0.00
2100 RoadSide Brushing: 0.1 acres .....	\$55.67
2300 Engineering: 0.00 sta. ....	\$0.00
2400 Minor Concrete: .....	\$0.00
2500 Gabions: .....	\$0.00
8000 Miscellaneous: .....	\$0.00
Mobilization: Const. \$0.00 Surf. \$0.00.....	\$0.00
Quarry Development: .....	\$0.00
Total:	\$181.53

Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are COMPACTED in place cubic yards.

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Mouse Trail T S Sale Date: 9-14

Road Number: 33-2W-25.06 Road Name: Rocky View 6

Road Renovation: 0.33 mi 14 ft Subgrade 3 ft ditch 5/1/2013

200 Clearing and Grubbing: 0.0 acres .....	\$0.00
Clearing:0.0 sta    Grubbing:0.0 acres	
Slash Treatment:0.0 acres	
300 Excavation: .....	\$0.00
400 Drainage: .....	\$0.00
Culvert: 0 lf    wt = 0 lbs    factor = 1.2	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation: .....	\$532.91
Blading 0.33 mi	
Surfacing: .....	\$0.00
1300 Geotextiles: .....	\$0.00
1400 Slope Protection: .....	\$0.00
1800 Soil Stabilization: 0.0 acres .....	\$0.00
1900 Cattleguards: .....	\$0.00
2100 RoadSide Brushing: 0.3 acres .....	\$167.00
2300 Engineering: 0.00 sta. ....	\$0.00
2400 Minor Concrete: .....	\$0.00
2500 Gabions: .....	\$0.00
8000 Miscellaneous: .....	\$0.00
Mobilization: Const. \$0.00 Surf. \$0.00.....	\$0.00
Quarry Development: .....	\$0.00
Total:	\$699.91

Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are COMPACTED in place cubic yards.

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Mouse Trail T S Sale Date: 9-14

Road Number: 34-2W-01.00 Road Name: R F Long Branch

Road Renovation: 0.72 mi 14 ft Subgrade 3 ft ditch 5/1/2013

200 Clearing and Grubbing: 0.0 acres .....	\$0.00
Clearing:0.0 sta    Grubbing:0.0 acres	
Slash Treatment:0.0 acres	
300 Excavation: .....	\$0.00
400 Drainage: .....	\$0.00
Culvert: 0 lf    wt = 0 lbs    factor = 1.2	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation: .....	\$1,148.20
Blading 0.72 mi	
Surfacing: .....	\$0.00
1300 Geotextiles: .....	\$0.00
1400 Slope Protection: .....	\$0.00
1800 Soil Stabilization: 0.0 acres .....	\$0.00
1900 Cattleguards: .....	\$0.00
2100 RoadSide Brushing: 0.7 acres .....	\$389.68
2300 Engineering: 0.00 sta. ....	\$0.00
2400 Minor Concrete: .....	\$0.00
2500 Gabions: .....	\$0.00
8000 Miscellaneous: .....	\$0.00
Mobilization: Const. \$0.00 Surf. \$0.00.....	\$0.00
Quarry Development: .....	\$0.00
Total:	\$1,537.88

Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are COMPACTED in place cubic yards.

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Mouse Trail T S Sale Date: 9-14

Road Number: 34-2W-01.06 Road Name: Board East Spur

Road Renovation: 0.24 mi 14 ft Subgrade 3 ft ditch 5/1/2013

200 Clearing and Grubbing: 0.0 acres .....	\$0.00
Clearing:0.0 sta   Grubbing:0.0 acres	
Slash Treatment:0.0 acres	
300 Excavation: .....	\$0.00
400 Drainage: .....	\$0.00
Culvert: 0 lf    wt = 0 lbs    factor = 1.2	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation: .....	\$317.92
Blading 0.24 mi	
Surfacing: .....	\$0.00
1300 Geotextiles: .....	\$0.00
1400 Slope Protection: .....	\$0.00
1800 Soil Stabilization: 0.0 acres .....	\$0.00
1900 Cattleguards: .....	\$0.00
2100 RoadSide Brushing: 0.2 acres .....	\$111.34
2300 Engineering: 0.00 sta. ....	\$0.00
2400 Minor Concrete: .....	\$0.00
2500 Gabions: .....	\$0.00
8000 Miscellaneous: .....	\$0.00
Mobilization: Const. \$0.00 Surf. \$0.00.....	\$0.00
Quarry Development: .....	\$0.00
Total:	\$429.26

Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are COMPACTED in place cubic yards.

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Mouse Trail T S Sale Date: 9-14

Road Number: 34-2W-12.02 Road Name:

Road Construction: 0.11 mi 16 ft Subgrade 3 ft ditch 5/1/2013

200 Clearing and Grubbing: 0.0 acres .....	\$0.00
Clearing:0.0 sta    Grubbing:0.0 acres	
Slash Treatment:0.0 acres	
300 Excavation: .....	\$0.00
400 Drainage: .....	\$0.00
Culvert: 0 lf    wt = 0 lbs    factor = 1.2	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation: .....	\$168.77
Blading 0.11 mi	
Surfacing: .....	\$0.00
1300 Geotextiles: .....	\$0.00
1400 Slope Protection: .....	\$0.00
1800 Soil Stabilization: 0.0 acres .....	\$0.00
1900 Cattleguards: .....	\$0.00
2100 RoadSide Brushing: 0.1 acres .....	\$55.67
2300 Engineering: 0.00 sta. ....	\$0.00
2400 Minor Concrete: .....	\$0.00
2500 Gabions: .....	\$0.00
8000 Miscellaneous: .....	\$0.00
Mobilization: Const. \$0.00 Surf. \$0.00.....	\$0.00
Quarry Development: .....	\$0.00
Total:	\$224.44

Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are COMPACTED in place cubic yards.

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Mouse Trail T S Sale Date: 9-14

Road Number: FS 112 Road Name: Trail Divide

Road Renovation: 0.91 mi 14 ft Subgrade 3 ft ditch 5/1/2013

200 Clearing and Grubbing: 0.0 acres .....	\$0.00
Clearing:0.0 sta    Grubbing:0.0 acres	
Slash Treatment:0.0 acres	
300 Excavation: .....	\$0.00
400 Drainage: .....	\$0.00
Culvert: 0 lf    wt = 0 lbs    factor = 1.2	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation: .....	\$1,457.85
Blading 0.91 mi	
Surfacing: .....	\$0.00
1300 Geotextiles: .....	\$0.00
1400 Slope Protection: .....	\$0.00
1800 Soil Stabilization: 0.0 acres .....	\$0.00
1900 Cattleguards: .....	\$0.00
2100 RoadSide Brushing: 1.0 acres .....	\$556.68
2300 Engineering: 0.00 sta. ....	\$0.00
2400 Minor Concrete: .....	\$0.00
2500 Gabions: .....	\$0.00
8000 Miscellaneous: .....	\$0.00
Mobilization: Const. \$0.00 Surf. \$0.00.....	\$0.00
Quarry Development: .....	\$0.00

Total: \$2,014.53

Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are COMPACTED in place cubic yards.

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Mouse Trail T S Sale Date: 9-14

Road Number: FS 32 Road Name: Beaver Springs West

Road Renovation: 0.38 mi 16 ft Subgrade 3 ft ditch 5/1/2013

200 Clearing and Grubbing: 0.0 acres .....	\$0.00
Clearing:0.0 sta   Grubbing:0.0 acres	
Slash Treatment:0.0 acres	
300 Excavation: .....	\$0.00
400 Drainage: .....	\$0.00
Culvert: 0 lf    wt = 0 lbs    factor = 1.2	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation: .....	\$606.00
Blading 0.38 mi	
Surfacing: .....	\$0.00
1300 Geotextiles: .....	\$0.00
1400 Slope Protection: .....	\$0.00
1800 Soil Stabilization: 0.0 acres .....	\$0.00
1900 Cattleguards: .....	\$0.00
2100 RoadSide Brushing: 0.4 acres .....	\$222.67
2300 Engineering: 0.00 sta. ....	\$0.00
2400 Minor Concrete: .....	\$0.00
2500 Gabions: .....	\$0.00
8000 Miscellaneous: .....	\$2,243.14
Mobilization: Const. \$0.00 Surf. \$0.00.....	\$0.00
Quarry Development: .....	\$0.00
Total:	\$3,071.81

Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are COMPACTED in place cubic yards.

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Mouse Trail T S Sale Date: 9-14

Road Number: Temp 10-5 Road Name: Buck Rock

Road Renovation: 0.23 mi 12 ft Subgrade 0 ft ditch 5/1/2013

200 Clearing and Grubbing: 1.1 acres .....	\$1,439.57
Clearing:12.1 sta    Grubbing:1.1 acres	
Slash Treatment:1.1 acres	
300 Excavation: .....	\$0.00
400 Drainage: .....	\$0.00
Culvert: 0 lf    wt = 0 lbs    factor = 1.2	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation: .....	\$119.54
Blading 0.23 mi	
Surfacing: .....	\$0.00
1300 Geotextiles: .....	\$0.00
1400 Slope Protection: .....	\$0.00
1800 Soil Stabilization: 0.0 acres .....	\$0.00
1900 Cattleguards: .....	\$0.00
2100 RoadSide Brushing: 0.0 acres .....	\$0.00
2300 Engineering: 0.00 sta. ....	\$0.00
2400 Minor Concrete: .....	\$0.00
2500 Gabions: .....	\$0.00
8000 Miscellaneous: .....	\$2,890.00
Mobilization: Const. \$0.00 Surf. \$0.00.....	\$0.00
Quarry Development: .....	\$0.00
Total:	\$4,449.11

Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are COMPACTED in place cubic yards.

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Mouse Trail T S Sale Date: 9-14

Road Number: Temp 19-9 Road Name: Divide

Road Renovation: 0.10 mi 12 ft Subgrade 0 ft ditch 5/1/2013

200 Clearing and Grubbing: 0.0 acres .....	\$0.00
Clearing:0.0 sta    Grubbing:0.0 acres	
Slash Treatment:0.0 acres	
300 Excavation: .....	\$0.00
400 Drainage: .....	\$0.00
Culvert: 0 lf    wt = 0 lbs    factor = 1.2	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation: .....	\$184.89
Blading 0.10 mi	
Surfacing: .....	\$266.20
Quarry Name: sec. pit PR 20 cy	
1300 Geotextiles: .....	\$0.00
1400 Slope Protection: .....	\$0.00
1800 Soil Stabilization: 0.0 acres .....	\$0.00
1900 Cattleguards: .....	\$0.00
2100 RoadSide Brushing: 0.3 acres .....	\$278.34
2300 Engineering: 0.00 sta. ....	\$0.00
2400 Minor Concrete: .....	\$0.00
2500 Gabions: .....	\$0.00
8000 Miscellaneous: .....	\$1,025.00
Mobilization: Const. \$0.00 Surf. \$181.82.....	\$181.82
Quarry Development: .....	\$0.00

Total: \$1,936.25

Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are COMPACTED in place cubic yards.

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Mouse Trail T S Sale Date: 9-14

Road Number: Temp 31-10 Road Name: Wall Creek

Road Construction: 0.31 mi 12 ft Subgrade 0 ft ditch 5/1/2013

200 Clearing and Grubbing: 1.5 acres .....	\$2,820.92
Clearing:16.4 sta    Grubbing:1.5 acres	
Slash Treatment:1.5 acres	
300 Excavation: .....	\$0.00
400 Drainage: .....	\$0.00
Culvert: 0 lf    wt = 0 lbs    factor = 1.2	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation: .....	\$161.11
Blading 0.31 mi	
Surfacing: .....	\$0.00
1300 Geotextiles: .....	\$0.00
1400 Slope Protection: .....	\$0.00
1800 Soil Stabilization: 0.0 acres .....	\$0.00
1900 Cattleguards: .....	\$0.00
2100 RoadSide Brushing: 0.0 acres .....	\$0.00
2300 Engineering: 0.00 sta. ....	\$0.00
2400 Minor Concrete: .....	\$0.00
2500 Gabions: .....	\$0.00
8000 Miscellaneous: .....	\$2,975.00
Mobilization: Const. \$0.00 Surf. \$0.00.....	\$0.00
Quarry Development: .....	\$0.00
Total:	\$5,957.03

Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are COMPACTED in place cubic yards.

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Mouse Trail T S Sale Date: 9-14

Road Number: Temp 7-3 Road Name: Dwinnele

Road Renovation: 0.20 mi 12 ft Subgrade 0 ft ditch 5/1/2013

200 Clearing and Grubbing: 0.0 acres .....	\$0.00
Clearing:0.0 sta   Grubbing:0.0 acres	
Slash Treatment:0.0 acres	
300 Excavation: .....	\$0.00
400 Drainage: .....	\$0.00
Culvert: 0 lf    wt = 0 lbs    factor = 1.2	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation: .....	\$103.94
Blading 0.20 mi	
Surfacing: .....	\$0.00
1300 Geotextiles: .....	\$0.00
1400 Slope Protection: .....	\$0.00
1800 Soil Stabilization: 0.0 acres .....	\$0.00
1900 Cattleguards: .....	\$0.00
2100 RoadSide Brushing: 0.5 acres .....	\$556.68
2300 Engineering: 0.00 sta. ....	\$0.00
2400 Minor Concrete: .....	\$0.00
2500 Gabions: .....	\$0.00
8000 Miscellaneous: .....	\$2,027.50
Mobilization: Const. \$0.00 Surf. \$0.00.....	\$0.00
Quarry Development: .....	\$0.00
Total:	\$2,688.12

Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are COMPACTED in place cubic yards.



1) Road Use Fees - Amortization

R/W		Rd Use	Vol	Road Use
Number	Road Number	Fee x	MBF =	Obligation

(1.1) Subtotal \$0.00

2) BLM Maintenance - Timber Haul 1/ 2/

Road Number and Segment	A Surf N Type	Maint Mi	Vol x Fee x MBF =	Total Maint
32-1-33.01 A	A ASC	0.46	1.25 826	\$474.95
32-1-33.01B	A ASC	1.23	1.25 114	\$175.28
32-1-33.01C1	A ASC	0.65	1.25 57	\$46.31
32-1-33.01C2	A ASC	0.76	1.25 30	\$28.50
32-1-33.01C3	A ASC	0.83	1.25 22	\$22.83
32-1-33.02A1	A ASC	0.55	1.25 712	\$489.50
32-1-33.02A2	A ASC	1.77	1.25 594	\$1314.23
32-1-33.02B1	A ASC	1.03	1.25 594	\$764.78
32-1-33.02B2	A ASC	0.28	1.25 162	\$56.70
32-1-33.02B3	A ASC	0.92	1.25 144	\$165.60
32-1-33.02C	A ASC	0.49	1.25 110	\$67.38
33-1-10.00A	A ASC	1.48	1.25 299	\$553.15
33-1-10.00B	A ASC	1.33	1.25 299	\$497.09
33-1-10.00C	N ASC	0.99	1.46 258	\$372.91
33-1-10.00D	A ASC	0.95	1.25 258	\$306.38
33-1-29.00A1	A ASC	0.47	1.25 435	\$255.56
331-29.00A2-E	A ASC	3.78	1.25 207	\$978.08
33-1-29.00F	A ASC	1.88	1.25 108	\$253.80
33-1-29.01A1-A2A	ASC	1.43	1.25 228	\$407.55
33-1-29.01A3	A ASC	0.49	1.25 182	\$111.48
33-1-29.01A4-BA	ASC	3.48	1.25 108	\$469.80
33-1-31.00A-B	A ASC	2.16	1.25 74	\$199.80
33-1-8.00A1	A ASC	1.44	1.25 461	\$829.80
33-1-8.00A2	A ASC	1.21	1.25 350	\$529.38
33-1-8.00B	A ASC	0.30	1.25 51	\$19.13
33-2-13.00A	A ASC	0.90	1.25 228	\$256.50

(2.1) Subtotal \$9646.43

1/ Rockwear is included in fee as a maintenance cost for BLM maintained roads.  
2/ Include lump sum logging damage repair

3) Third Party Maintenance and Rockwear

33-1-9.01 = 0.11 miles used

Agrmnt Number	Road Number	Maint Mi	Vol x Fee x MBF =	Maint	Fee x MBF =	Rkwear
M-2000E	32-1-29.06	0.08	0.49 34	\$1.33		
M-660	33-1-9.01A	0.00	0.49 21	\$0.00		

(3.1) Subtotal \$0.00

(3.2) Subtotal \$1.33

1/ Rockwear is included in fee as a maintenance cost for BLM maintained roads.  
2/ Include lump sum logging damage repair

4) Other Maintenance Payments - USFS or Others Perform Maintenance

Rockwear Fee - Purchaser Maintenance

Agency	Road Number	Fee MBF/Mi	Vol x Mi =	Fee /MBF x	Vol Hauled =	Maint Cost
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FS-LA#836 FS1632A	0.42	0.60	0.420	784	\$197.57
FS-LA#836 FS1632B	0.42	0.60	0.420	659	\$166.07
FS-LA#836 FS1632C-D	0.42	2.18	0.420	444	\$406.53
FS-LA#836 FS1632G-H	0.42	0.42	0.420	46	\$8.11
FS-LA#836 FS1632-112	0.37	1.00	0.370	125	\$46.25
FS-LA#836 FS1632-118	0.37	0.03	0.370	100	\$1.11
FS-LA#836 FS3200	0.59	0.36	0.590	42	\$8.92
FS-LA#836 FS3232-945	0.37	0.75	0.370	24	\$6.66
ODF-LA#52633-1-32.00B	0.49	0.15	0.490	46	\$3.38

(4.1) Subtotal \$844.60

5) Purchaser Maintenance - Rock Wear

TIMBER HAUL (5.1)/1/2

Road No 1/ and Segment	A N	RkWear Mi	Vol x Fee x MBF =	Total RkWear	
34-2-12.02B3	N	0.11	0.49	108	\$5.82
34-2-1.06	N	0.24	0.49	50	\$5.88
34-2-1.00	N	0.60	0.49	58	\$17.05
33-2-25.06	N	0.33	0.49	74	\$11.97
33-2-13.01A1-A2A		1.66	0.49	228	\$185.46
33-2-3.02	A	0.45	0.49	99	\$21.83
33-1-32.00A	A	1.55	0.49	46	\$34.94
33-1-32.00C	N	0.40	0.49	46	\$9.02
33-1-31.04A	N	0.18	0.49	20	\$1.76
33-1-8.01	A	1.36	0.49	238	\$158.60
33-1-7.00	A	0.76	0.49	150	\$55.86
33-1-5.04	A	1.25	0.49	143	\$87.59
33-1-5.00A-B	A	0.94	0.49	470	\$216.48
33-1-5.00C	A	1.40	0.49	232	\$159.15
33-1-5.00D-E	A	0.90	0.49	82	\$36.16
32-1-33.03A-B	A	1.53	0.49	118	\$88.46
32-1-29.07A	A	0.33	0.49	8	\$1.29
32-1-29.07B	A	0.11	0.00	8	\$0.00
32-1-29.04	A	0.26	0.49	50	\$6.37
32-1-29.03	A	0.80	0.49	25	\$9.80
32-1-29.02	A	1.20	0.49	20	\$11.76
32-1-27.01	N	0.38	0.49	41	\$7.63
32-1-21.05	A	0.71	0.49	18	\$6.26
32-1-21.03	A	1.05	0.49	40	\$20.58
32-1-21.00	A	0.13	0.49	40	\$2.55
32-1-16.00	N	0.67	0.49	46	\$15.10

(5.1) Subtotal \$1177.38

- 1/ All surfaced roads have a rockwear fee which includes an allowance for rock haul
- 2/ Include lump sum logging damage repair

Purchaser Operational Maintenance

Cost allowances must be limited to work required under timber sale Exhibit D.  
If purchaser maint. such as dust control/damage repair is performed on BLM maint. roads,  
add appropriate mandatory Ex. D provisions. Note in prospectus.

Move In

Equipment 1/	No Units	Move x in x	Cost/ 50 Mi	Dist x Factor	Sub- total
Motor Grader:	1	1	\$356.00	1.0035	\$357.25
Back Hoe:	1	1	\$356.00	1.0035	\$357.25
Loader:			\$356.00	0.59	\$0.00
Water Truck:	1	1	\$217.00	1.0035	\$217.76
Dump Truck 2/:	1	1	\$228.00	1.0035	\$228.80

(5.2A) Total \$1161.05

1/ Equipment limited to that allowed in Exhibit D.

Culvert Maintenance - Including Catchbasins and Downpipes 1/

<u>Miles</u>	x	<u>Cost/Mi</u>	=	<u>Subtotal</u>
5		270.05		\$1350.25

(5.2B) Total \$1350.25

1/ Does not include purchase or installation of culvert pipe.

Grading (Includes Ditches and Shoulders) 1/

	<u>Miles</u>	x	<u>Cost/Mi</u>	x	<u>Freq</u>	=	<u>Subtotal</u>
Blade Road:	10.00		519.72		1		\$5197.20
Blade Ditch:	5.00		140.38		1		\$701.90

(5.2C) Total \$5899.10

1/ Watch for double allowance on roadway preparation for dust palliative application.

Slide and Slough removal, Slump Repair (15 sta-yds. ea.) 1/

Type	No Slides	Hours	Equip	
<u>Equipment</u>	<u>/Slumps</u>	<u>x</u>	<u>Each</u>	<u>x</u> <u>Cost</u> = <u>Subtotal</u>
Grader:	0	0	139.10	\$0.00
Loader:	0	0	91.63	\$0.00
Backhoe:	0	0	66.05	\$0.00

(5.2D) Total \$0.00

1/ Maximum haul is 15 sta. yds. Use grader or front end loader only.

Dust Palliative (Water) 1/

Spreading Hours

	<u>Miles</u>	/	<u>MPH</u>	=	<u>Hours</u>	x	<u>No</u>	x	<u>Freq</u>	=	<u>Truck</u>
	8.00		5		1.6		50		1		80
Load & Haul =					0.0		0		0		0
											Total Hours = 80

Truck Cost: \$86.64/Hr. x 80.0 Hours = \$6931.20

(5.2E) Total \$6931.20

1/ Allow water for all BLM maintained non-oiled roads.

Surface Repair (Aggregate)

Production Cost:	0 C.Y.	x	\$0.00/C.Y.	=	\$0.00
Haul to Stockpile:	0 C.Y.	x	\$3.72/C.Y. x 0.00 Mi	=	\$0.00
Stockpile:	0 C.Y.	x	\$1.26/C.Y.	=	\$0.00
Load from Stockpile:	200 C.Y.	x	\$1.39/C.Y.	=	\$278.00
Haul from Stockpile:	200 C.Y.	x	\$2.32/C.Y. x 8.00 Mi	=	\$3712.00
Process with Grader:	200 C.Y.	x	\$1.40/C.Y.	=	\$280.00

(5.2F) Total \$4270.00

Other

Fallen Timber Cutting: 1/ 0.0 Hours x \$0.00/Hour = \$0.00

Brush Cutting/Tree Trimming: 2/ 0.0 Hours x \$0.00/Hour = \$0.00

Oil/Asphalt Materials: 3/ Lump Sum = \$0.00

Signing for Dust Palliatives: 4/ Lump Sum = \$0.00

Lump Sum = \$0.00

Lump Sum = \$0.00

Lump Sum = \$0.00

(5.2G) Total \$0.00

- 1/ Exhibit D Subsection 3104.
- 2/ Exhibit D Subsection 3107.
- 3/ Exhibit D Subsection 3401.
- 4/ Exhibit D Subsection 3405b.



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

DEPOSIT AND BID FOR  **TIMBER\***  
 **VEGETATIVE RESOURCE**  
(Other Than Timber)

SCALE SALE

Name of Bidder
Tract Number ORM05-TS-14-09
Sale Name Mouse Trail
Sale Notice (dated) 7/30/2014
BLM District Medford

<input type="checkbox"/> Sealed Bid for Sealed Bid Sale	<input checked="" type="checkbox"/> Written Bid for Oral Auction Sale
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In response to the above dated Sale Notice, the required deposit and bid are hereby submitted for the purchase of designated timber/vegetative resource on the tract specified above.

Required bid deposited is **\$21,100.00** and is enclosed in the form of  cash  money order  bank draft  cashier's check  certified check  bid bond of corporate surety on approved list of the United States Treasury  guaranteed remittance approved by the authorized officer.

IT IS AGREED That the bid deposit shall be retained by the United States as liquidated damages if the bid is accepted and the undersigned fails to execute and return the contract, together with any required performance bond and any required payment within 30 days after the contract is received by the successful bidder. It is understood that no bid for less than the appraised price on a unit basis per species will be considered. If the bid is rejected the deposit will be returned.

**BID SCHEDULE – LUMP SUM SALE**  
*NOTE: Bidders should carefully check computations in completing the Bid Schedule*

BID SUBMITTED					ORAL BID MADE	
PRODUCT SPECIES	UNIT	ESTIMATED VOLUME OR QUANTITY	UNIT PRICE	TOTAL VALUE	UNIT PRICE	TOTAL VALUE
Douglas-fir	MBF	2,398	X	=	X	=
White fir	MBF	554	X	=	X	=
Western Hemlock	MBF	24	X	=	X	=
Incense Cedar	MBF	63	X	=	X	=
Ponderosa Pine	MBF	52	X	=	X	=
Sugar Pine	MBF	19	X	=	X	=
<b>Total</b>		<b>3,110</b>	X	=	X	=
			X	=	X	=
			X	=	X	=
			X	=	X	=
			X	=	X	=
			X	=	X	=
			X	=	X	=
			X	=	X	=
			X	=	X	=
<b>TOTAL PURCHASE PRICE</b>						

(Continued on reverse)

If sale contract is executed, undersigned is liable for total purchase price even though the quantity cut, removed, or designated for taking is more or less than the total estimated volume or quantity shown above. Undersigned certifies bid was arrived at by bidder or offeror independently, and was tendered without collusion with any other bidder or offeror. In submitting or confirming this bid, undersigned agrees to the foregoing provisions, applicable regulations, and certifies that he is authorized to act as, or on behalf of, the bidder.

Bid submitted on *(date)*

*(Check appropriate box, sign in ink, and complete the following)*

<input type="checkbox"/>	Signature, if firm is individually owned	Name of firm <i>(type or print)</i>
<input type="checkbox"/>	Signatures, if firm is a partnership or L.L.C.	Business address, include zip code <i>(type or print)</i>
<input type="checkbox"/>	Corporation organized under the state laws of	<i>(To be completed following oral bidding)</i>
	Signature of Authorized Corporate Signing Officer	I HEREBY confirm the above oral bid By <i>(signature)</i>
	Title	Date
	Submit bid, in <i>duplicate</i> , to qualify for either an oral auction or sealed bid sale together with the required bid deposit made payable to the Department of the Interior – BLM.  Oral Auction – Submit to Sales Supervisor prior to closing of qualifying period for tract.	Sealed Bid – Send to District Manager, who issued the sale notice, in a sealed envelope marked on the outside: (1) “Bid for Timber” (2) Vegetative Resource Other Than Timber (3) Time bids are to be opened (4) Legal description

**NOTICE**

The Privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

**AUTHORITY:** 38 FR 6280 and 43 CFR 5442.1

**PURPOSE:** To qualify an oral auction bidder, and then if successful, to bind bidder to certain contract conditions.

**ROUTINE USE:** To determine that an individual is qualified to participate in oral auction bidding, and, as surety that bidder will fulfill contract requirements.

**EFFECT OF NOT PROVIDING INFORMATION:** Filing this deposit and bid information is necessary only when an individual wishes to participate in a sealed or auction bid sale for timber or vegetative resources.

## INSTRUCTIONS TO BIDDERS

1. **AUTHORITY** – Timber located on the revested Oregon and California Railroad Grant Lands and on the reconveyed Coos Bay Wagon Road Grant Lands is administered and sold pursuant to authority of the Act of August 28, 1937 (50 Stat. 874; 43 U.S.C. 1181a); timber located on other lands and other vegetative resources on all public lands of the United States under jurisdiction of the Bureau of Land Management are administered and sold pursuant to authority of the Act of July 31, 1947 (61 Stat. 681), as amended, by the Act of July 23, 1955 (69 Stat. 367; 30 U.S.C. 601 et. seq.). Regulations of the Secretary of the Interior governing sale of timber are codified in 43 CFR Group 5400.
2. **QUALIFICATIONS OF BIDDERS** – A bidder for sale of timber/vegetative resources must be either (a) a citizen of the United States, (b) a partnership composed wholly of such citizens, (c) an unincorporated association composed wholly of such citizens, or (d) a corporation authorized to transact business in the State in which the timber/vegetative resource is located.
3. **INSPECTION OF TIMBER/VEGETATIVE RESOURCES** – Bidder is invited, urged, and cautioned to inspect the timber/vegetative resource prior to submitting a bid. By executing the timber/vegetative resource sale contract, bidder warrants that the contract is accepted on the basis of his examination and inspection of the timber/vegetative resource and his opinion of its value.
4. **DISCLAIMER OF WARRANTY** – Government expressly disclaims any warranty of the fitness of the designated timber/vegetative resource for any purpose of the bidder; all timber/vegetative resources are to be sold “As Is” without any warranty of merchantability by Government. Any warranty as to the quantity or quality of timber/vegetative resource to be sold is expressly disclaimed by Government.
5. **BIDS** – Sealed or written bids for not less than the advertised appraised price, per timber/vegetative resource must be submitted in duplicate to the District Manager who issued *Timber/Vegetative Resource Sale Notice*.
  - (a) **Sealed Bid Sales** – Bids will be received until time for opening which is set out in the Notice. Enclose both copies of bid with required bid deposit in a sealed envelope marked on the outside *Bid for Timber/Vegetative Resource*, time bid is to be opened, tract number, and legal description of land on which timber/vegetative resource is located. In event of a tie, the high bidder shall be determined by lot from among those who submitted the tie bids.
  - (b) **Auction Sales** – Submission of the required bid deposit and a written bid is required to qualify for oral bidding. Oral bidding shall begin from the highest written bid. No oral bid will be considered which is not higher than the preceding bid. In the event there is a tie in high written bids, and no oral bidding occurs, the bidder who was the first to submit his bid deposit and written bid shall be declared the high bidder. If the officer conducting the sale cannot determine who made the first submission of high tie written bids, the high bidder shall be determined by lot. High bidder must confirm his bid, in writing, immediately upon being declared high bidder.
  - (c) Except as otherwise provided in 43 CFR 5442.2, bids will not be considered in resale of timber/vegetative resource remaining from an uncompleted contract from any person or affiliate of such person who failed to complete the original contract because of (1) cancellation for the purchaser’s breach or (2) through failure to complete payment by expiration date.
  - (d) When it is in the interest of the Government to do so, it may reject any and all bids and may waive minor deficiencies in bids or in sale advertisement.
6. **BID FORMS** – All sealed, written bids, and confirmation of oral bids shall be submitted on forms provided by Government.
  - (a) **Lump Sum Sales** – Bids shall specify (1) Bureau of Land Management estimated volume, (2) price per unit, and (3) total purchase price. Estimated volume and price per unit are to be used for administrative and appraisal purposes only. Upon award of contract, high bidder shall be liable for total purchase price, including any adjustment which may be made as a result of reappraisal if an extension of time is granted, even though quantity of timber/vegetative resource actually cut, removed, or designated for taking is more or less than the estimated volume or quantity listed.
  - (b) **Timber Scale Sales** – Bids must state price per thousand board feet that will be paid for each species. High bidder will be determined by multiplying bid price per thousand board feet per species by Bureau of Land Management estimate of volume of each species. Purchaser shall be liable for purchase price of all merchantable timber sold under contract even though all such timber is not actually cut and removed prior to expiration of time for cutting and removal as specified in contract.\*
7. **BID DEPOSIT** – All bidders must make a deposit of not less than the amount specified in the *Timber/Vegetative Resource Notice*. Deposit may be in the form of cash, money orders, bank drafts, cashiers or certified checks made payable to the Department of the Interior – BLM, bid bonds of a corporate surety shown on the approved list of the United States Treasury Department\*, or any approved guaranteed remittance approved by the Authorized Officer. Upon conclusion of bidding, the bid deposit of all bidders, except high bidder, will be returned. The cash deposit of the successful bidder may be applied toward the required sale deposit and/or the purchase price. Cash not applied to the sale deposit or the purchase price, or a corporate surety bid bond, will be returned at the time the contract is signed by the Government.
8. **AWARD OF CONTRACT** – Government may require high bidder to furnish such information as is necessary to determine the ability of bidder to perform the obligation of contract. Contract will be awarded to high bidder, unless he is not qualified or responsible or unless all bids are rejected. If high bidder is not qualified or responsible or fails to sign and return the contract together with required performance bond and any required payment, contract may be offered and awarded to the highest bidders qualified, responsible, and willing to accept the contract.
9. **TIMBER/VEGETATIVE RESOURCE SALE CONTRACT** – To be executed by purchaser, has been prepared by Government, and may be examined in the District Manager’s office.
10. **PERFORMANCE BOND** –
  - (a) A performance bond in an amount of not less than 20 percent of total purchase price is required, but the amount of the bond shall not be in excess of \$500,000, except when the purchaser opts to increase the minimum bond to permit cutting prior to payment as provided in 43 CFR 5451.2, or in the event the purchaser is a holder of an unresolved default the bond may be increased as provided in 43 CFR 5450.1(b). Performance bond may be (1) bond of a corporate surety shown on approval list issued by the United States Treasury Department and executed on an approved standard form, (2) personal surety bond executed on an approved standard form if Government determines principals and bondsmen are capable of carrying out the terms of the contract, (3) cash bonds, (4) negotiable securities of the United States, or (5) any guaranteed remittance approved by the Authorized Officer.
  - (b) If purchaser elects to cut timber without skidding or yarding it to a loading point or removing it prior to the payment of the second or subsequent installments, Government shall require an increase in amount of performance bond initially required by an amount equal to the value of timber to be cut. Such increase must be on a bond rider form supplied by Government and be approved, in writing, by Government prior to cutting timber covered by the bond increase. This increased amount of bond shall be used to assure payment for timber cut in advance of payment.\*
11. **PAYMENT BOND** – If purchaser elects to (a) cut and remove timber, or (b) remove timber already cut which has been secured by an increased performance bond as provided in paragraph 10(b) above, before payment of the second or subsequent installments, Government shall require a payment bond on a form supplied by Government. Purchaser shall obtain written approval from Government of payment bond prior to cutting and/or removal of timber covered by the bond. Payment bond shall be used to assure payment for timber cut and/or removed in advance of payment.\*
12. **PAYMENT OF PURCHASE PRICE** – For sales of \$500 or more, Government may allow payment by installments. Except as discussed in paragraphs 10 and 11 above, no part of any timber/vegetative resource sold may be severed, cut, or removed unless advance payment has been made as provided in contract.
13. **LIQUIDATED DAMAGES** – Within thirty (30) days from receipt of *Timber/Vegetative Resource Sale Contract*, the successful bidder shall sign contract and return it to Government, together with required bond and any required payment. If successful bidder fails to comply within the stipulated time, his bid deposit shall be retained by Government as liquidated damages.
14. **NINETY-DAY SALES** – If no bid is received within time specified in the advertisement of sale and if Government determines that there has been no significant rise in the market value of timber/vegetative resource, it may, in its discretion, keep the sale open, not to exceed ninety (90) days.

\*Applies to Timber Only

15. **UNAUTHORIZED USE OF GOVERNMENT PROPERTY** – A sale may be refused to high bidder who has been notified that he has failed to make satisfactory arrangements for payment of damages resulting from unauthorized use of, or injury to, property of the United States.

16. **EQUAL OPPORTUNITY CLAUSE** – This contract is subject to the provisions of Executive Order No. 11246 of September 24, 1965, as amended, which sets forth the nondiscrimination clauses. Copies of this order may be obtained from the District Manager. 43 CFR 60-1.7(b) requires that the Equal Opportunity *Compliance Report Certification* will be completed by prospective contractors. Certification may be obtained from District Manager.

17. **LOG EXPORT** – All timber offered for sale except as noted in the *Timber Sale Notice* is restricted from export from the United States in the form of unprocessed timber and cannot be used as a substitute for exported private timber. For the purpose of this contract, unprocessed timber is defined as: (1) any logs except those of utility grade or below, such as sawlogs, peeler logs, and pulp logs; (2) cants or squares to be subsequently remanufactured exceeding eight and three quarters (8-3/4) inches in thickness; (3) split or round bolts or other roundwood not processed to standards and specifications suitable for end product use; or (4) western

red cedar lumber which does not meet lumber of American Lumber Standards Grades of Number 3 dimension or better, or Pacific Lumber Inspection Bureau R-List Grades of Number 3 common or better. Timber manufactured into the following will be considered processed: (1) lumber and construction timbers, regardless of size, manufactured to standards and specifications suitable for end product uses; (2) chips, pulp and pulp products; (3) green or dry veneer and plywood; (4) poles and piling cut or treated for use as such; (5) cants, squares, and lumber cut for remanufacture of eight and three quarters (8-3/4) inches in thickness or less; or (6) shakes and shingles. In event purchaser wishes to sell any or all of timber restricted from export in the form of unprocessed timber, the buyer, exchanges, or recipient shall be required to comply with contractual provisions relating to "*unprocessed timber*". Special reporting, branding and painting of logs may be included in contract provisions.\*

18. **DETAILED INFORMATION** – Detailed information concerning contract provisions, bid, performance bond forms, tract location maps, and access conditions may be obtained from the District Manager. All persons interested in bidding on the products listed are encouraged to familiarize themselves with all such detailed information.