

P R O S P E C T U S

Lump Sum Sale
*** SBA Set-Aside Sale

BUTTE FALLS Resource Area
JACKSON MASTER UNIT

Medford Sale # 12-22
September 13, 2012 (TG)

4 VINE MAPLE, Jackson County, (6310) O&C, P.D. BID DEPOSIT REQUIRED: \$ 55,400.00

All timber designated for cutting in SW $\frac{1}{4}$ NE $\frac{1}{4}$, W $\frac{1}{2}$ SE $\frac{1}{4}$, Section 24, T.33 S., R.2E.; SE $\frac{1}{4}$ NE $\frac{1}{4}$, SE $\frac{1}{4}$ SW $\frac{1}{4}$, NE $\frac{1}{4}$ SE $\frac{1}{4}$, S $\frac{1}{2}$ SE $\frac{1}{4}$, Section 25, T.33 S., R.2E; SW $\frac{1}{4}$ NE $\frac{1}{4}$, S $\frac{1}{2}$ NW $\frac{1}{4}$, SW $\frac{1}{4}$, N $\frac{1}{2}$ SE $\frac{1}{4}$, SW $\frac{1}{4}$ SE $\frac{1}{4}$, Section 29, T.33 S., R.3E; NE $\frac{1}{4}$ SW $\frac{1}{4}$, Section 30, T.33 S., R.3E; NE $\frac{1}{4}$, NE $\frac{1}{4}$ NW $\frac{1}{4}$, Section 31 T.33 S., R.3E; E $\frac{1}{2}$ SW $\frac{1}{4}$, Section 32, T.33 S., R.3E; S $\frac{1}{2}$ NW $\frac{1}{4}$, E $\frac{1}{2}$ SW $\frac{1}{4}$, W $\frac{1}{2}$ SE $\frac{1}{4}$, Section 33, T.33 S., R.3E; SW $\frac{1}{4}$ NE $\frac{1}{4}$, LOT 4, S $\frac{1}{2}$ NW $\frac{1}{4}$, NE $\frac{1}{4}$ SW $\frac{1}{4}$, NW $\frac{1}{4}$ SE $\frac{1}{4}$, SE $\frac{1}{4}$ SE $\frac{1}{4}$, Section 5, T.34 S., R.3E; NE $\frac{1}{4}$ SE $\frac{1}{4}$, Section 6, T.34 S., R.3E; SE $\frac{1}{4}$ NE $\frac{1}{4}$, NE $\frac{1}{4}$ SE $\frac{1}{4}$, Section 7, T.34 S., R.3E; NE $\frac{1}{4}$ NE $\frac{1}{4}$, Section 8, T.34 S., R.3E; Willamette Meridian;

Approx. Number Merch. Trees	Est. Volume MBF 32' Log	Est. Volume CCF	Species	Est. Volume MBF 16' Log	Appr. Price Per MBF*	Est. Volume Times Appraised Price
8993	1801	3862	Douglas-fir	2185	\$125.80	\$274,873.00
1046	41	114	Incense-cedar	51	\$81.50	\$4,156.50
1564	98	258	Ponderosa pine	126	\$30.20	\$3805.20
17	11	19	Sugar pine	14	\$31.30	\$438.20
12670	3551	7231	White fir	4360	\$61.80	\$269,448.00
137	15	35	Western Hemlock	19	\$43.80	\$832.20
24427	5517	11519	Totals	6755		\$553,553.10

*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).

***This is an SBA Set-Aside timber sale. Bidding is limited to small business concerns as defined by the Small Business Act, §3, 72 Stat. 384, 15 U.S. Code 632, and the regulations of the Small Business Administration, Title 13, Code of Federal Regulations, Part 121, as amended.

CRUISE INFORMATION - Douglas-fir, White fir, Western Hemlock, Sugar Pine, Ponderosa Pine, and Incense Cedar have been cruised using the 3-P sampling methods to select sample trees. Maps showing the location and description of these sample trees are available at the Medford District Office. The sample trees have been measured using the volt system of measurement, and the volume expanded to a total sale volume.

With respect to merchantable trees of all conifer species: the average tree is 15.9 inches DBHOB; the average gross merchantable log contains 74 bd. ft.; the total gross volume is approximately 7696 M bd. ft; and 88% recovery is expected(Average WF is 16.4 inches DBHOB; average gross merchantable log WF contains 82 bd. ft.).

Bidders will be restricted to bidding on a unit (MBF) rate of the White 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 – Nineteen (19) units containing four hundred and seventy nine (479) acres must be thinned, and four (4) temporary spur road Right of Way acres must be clear-cut

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 and through the contract area using BLM Roads and Right-of-way and Road Use Agreement M2000 with Plum Creek, Indian Hill, Silver Butte, Juniper Properties and Perpetua. Among other conditions, this agreement requires completion of a license agreement between the purchaser and permittee.

ROAD MAINTENANCE – The Purchaser will be required to maintain all the temp routes and existing decommissioned roads he constructs/reconstructs plus 29.44 miles of existing roads. The Purchaser will be required to pay a BLM rock wear obligation fee (\$7,913.61) and a private road use and rock wear fee per the license agreements (\$398.47) for a total of \$8,312.08, for the use of these roads.

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

1. A yarding tractor not greater than nine (9) feet in track width, as measured from the outer edges of standard width shoes, equipped with both an integral arch and winch capable of lining logs at least seventy five (75) feet.
2. A skyline yarder capable of :
 - a. one end suspension of logs during in-haul equipped with a carriage capable of lateral yarding a minimum distance of 75 feet while maintaining a fixed position along the skyline during in-haul.
 - b. multi-span logging configurations (see skyline units listed under Other).
3. A 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.

SLASH DISPOSAL - Slash disposal will consist of 150 acres of lop and scatter, and 20 acres of hand pile and burn.

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. Units 31-1, 31-3B contain topography in some locations which will require multi-span skyline logging to achieve adequate suspension of logs during in-haul.
3. Mechanized equipment (feller-bunchers) may be used in all tractor units off designated skid trails with certain restrictions see Section 42 L-7MC.
4. There is a 44 foot log length restriction for all trees over twenty one (21) inch D.B.H.O.B.
5. Whole tree harvesting is allowed in all tractor units. If whole tree harvesting is utilized, landing slash will be required to be chipped, burned, or moved off site.
6. Various seasonal restrictions are placed on this sale.
Directional falling is required.
7. Cleaning of equipment to eliminate noxious weed seeds is required prior to move-in of equipment onto federal lands.
8. Designated skid roads are required on all tractor units.
9. Ripping of temporary roads is required.
10. Dust abatement is required.
11. 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.

NARRATIVE DESCRIPTION OF HOW TO GET TO THE TIMBER SALE AREA – From the town of Butte Falls Oregon, proceed east on the Butte Falls-Fish Lake Highway for approximately 0.5 miles to the Butte Falls-Prospect Highway. Turn left and follow for approximately 9 miles to junction with BLM Road 34-3E-9.0. Turn left to access units in sections 5, 6, 7, 8, 31, and 32
From the junction of Butte Falls-Prospect Highway and BLM Road 34-3E-9.0, proceed north on the Butte Falls-Prospect Highway for approximately 1.5 miles to the 33-3E-34 road (“A Rd” “B Rd” Jct.). Turn left to access sections 24, 25, 29, 30, 31, and 33.

ENVIRONMENTAL ASSESSMENT - An environmental assessment (DOI-BLM-OR-M050-2011-0015-EA) was prepared for this sale, and a Finding of No Significant Impact has been documented. This document is available for inspection as background for this sale at the Medford District Office.

Seasonal Restriction Matrix

ORM05-TS12-22

Vine Maple

Sheet 1 of 1



*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
Units: 25-2, 25-3, 31-1, 31-2, 31-3A, 31-3B,	Log yarding or Soil ripping, ^{1,2,3}																								
	Manual felling or bucking of timber ³																								
	Mechanized felling or bucking of timber ³																								
	Construction or reconstruction of Roads or Landings ^{1,2,3}																								
	Road Renovation or decommissioning ^{1,2,3}																								
	Landing Operations ^{1,2,3}																								
	Quarry Activities or Blasting of Rock ³																								
	Hauling of logs or rock ^{1,2}																								
	Fuels Treatment ³																								
Units: 24-1, 29-1	Log yarding or Soil ripping, ^{1,2,4}																								
	Manual felling or bucking of timber ⁴																								
	Mechanized felling or bucking of timber ³																								
	Construction and/or Reconstruction of Roads and Landings ^{1,2,4}																								
	Road Renovation or Decommissioning ^{1,2,4}																								
	Landing Operations ^{1,2,4}																								
	Hauling of logs or rock ^{1,2,4}																								
	Quarry Activities or Blasting of Rock ⁴																								
	Fuels Treatment ⁴																								
Units: 5-1, 5-2, 6-1, 7-1, 8-1, 25-1, 30-1, 32-1, 33-1, 33-2, 33-3	Log yarding or soil ripping ^{1,2,}																								
	Manual felling or bucking of timber ^{1,2,}																								
	Mechanized felling or bucking of timber ³																								
	Construction and/or Reconstruction of Roads and Landings ^{1,2,}																								
	Road Renovation or Decommissioning ^{1,2,}																								
	Landing Operations ^{1,2,}																								
	Hauling of logs or rock ^{1,2,}																								
	Quarry Activities or Blasting of Rock ^{1,2,}																								
	Fuels Treatment																								

¹ Wet season restrictions may be shortened or extended depending on weather conditions.

² Hauling restriction may be shortened or extended depending on adequacy of road surfacing

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

⁴ Goshawk seasonal restrictions from March 1through August 30 may be waived if surveys determine goshawks are not nesting in the area

VINE MAPLE
SPECIAL PROVISIONS

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 twenty two thousand eight hundred (22,800) trees marked with yellow paint in units 5-1, 5-2, 6-1, 7-1, 8-1, 24-1, 25-1, 29-1, 30-1, 31-1, 31-2, 31-3A, 31-3B, 32-1, 33-1, 33-2, and 33-3 as shown on exhibit A.
- (C) IR-2 All timber except approximately two hundred forty three (243) trees marked for cutting heretofore by the Government with blue paint above and below stump height in units 25-2 and 25-3 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.
- (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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SPECIAL PROVISIONS

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 before being yarded
- (4) 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 before being yarded.
- (5) 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
<u>Tractor Units</u> 5-1, 5-2, 6-1, 7-1, 8-1, 24-1, 25-1, 25-3, 29-1, 30-1,31-2, 31-3A, 32-1, 33-1, 33-2, 33-3	<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>Mechanized equipment (feller-bunchers) may be used off designated skid trails during the dry season (soil moisture content less than 25%) for 1 to 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 6 psi or less. All other use of ground based equipment must be restricted to designated skid trails.</p> <p>Mechanized felling equipment must have an arm capable of reaching at least 20 feet.</p>

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	<p>No front-end loaders are permitted.</p> <p>No yarding up or down draw bottoms is permitted</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. Use existing skid trails To the extent possible. Where new skid trails are necessary, limit the extent to minimize the impact.</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 will be further limited in accordance with Section 26 if detrimental soil damage is occurring, as determined by the authorized officer.</p> <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>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>Restrict tractor operations to slopes generally less than 35 percent. In areas where it is necessary to exceed these gradients to access adjacent tractor area, use ridge tops where possible.</p> <p>Log landing size shall not exceed one-quarter ($\frac{1}{4}$) acre.</p>
<p><u>Cable Units</u></p> <p>25-2, 31-1, 31-3B</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>Skyline yarding equipment shall be capable of yarding in multi-span configurations in units 31-1, 31-3B.</p> <p>A carriage is required which will maintain a fixed position on the skyline during lateral yarding and has a minimum lateral yarding capability of seventy-five (75) feet.</p> <p>Prior to falling any timber in the unit, all tail/lift trees and/or</p>

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	<p>intermediate support trees shall be identified by the purchaser and approved by the authorized officer.</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> <p>The width of the skyline corridors shall be as narrow as operationally feasible (maximum of fifteen [15] feet).</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>Yarding corridors will be perpendicular to the contours.</p> <p>No downhill yarding is allowed</p>
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- (6) L-9 No yarding or loading is permitted in or through the reserve areas shown on Exhibit A, unless approved by the authorized officer.
- (7) L-9 No yarding or loading is permitted in or through plant sites or protected areas shown on Exhibit A.
- (8) L-11 No temporary spur roads or new landings shall be located within riparian reserves or wet areas as shown on Exhibit A.
- (9) L-18 No tractor yarding and soil ripping operations shall be conducted between October 15 of one calendar year and May 15 of the following calendar year, both days inclusive, or when soil moisture exceeds 25 percent.
- (10) L-18 No landing operations, hauling of logs or rock shall be conducted between October 15 of one calendar year and May 15 of the following calendar year, both days inclusive, or when soil moisture exceeds 25 percent.
- (11) L-18 No temporary spur road or landing construction, road renovation or decommissioning, culvert removal or replacement, road or closure work, quarry operations, or road brushing 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.
- (12) L-18a No operations shall be conducted in units 25-2, 25-3, 31-1, 31-2, 31-3A, 31-3B, 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.

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- (13) L-18a No operations in unit 24-1, 29-1 shall be conducted between March 1 and August 30, both days inclusive. This restriction will not apply if it can be shown from Goshawk surveys conducted in accordance with accepted standards that Goshawk nesting and/or fledging activities are not occurring during the year of harvest.
- (14) 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.
- (15) L-27 In the contract area shown on Exhibit A, all trees designated for cutting which are within two hundred ten (210) 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).
- (16) L-27 In the contract area shown on Exhibit A, all trees designated for cutting which are within two hundred ten (210) 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).
- (17) L-27 In the contract area shown on Exhibit A, all trees designated for cutting which are within two hundred ten (210) 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).
- (18) L-27 In the contract area shown on Exhibit A, all trees designated for cutting which are within two hundred ten (210) feet of any plant site, reserve area, or protected 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).
- (19) L-29 In skyline units 25-2, 31-1, and 31-3B as shown on Exhibit A, the Purchaser shall make cable yarding road changes by completely spooling the cables and restringing the layout from the head spar to the new tail hold to protect advance reproduction and/or reserve trees and snags present on these areas.
- (20) 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

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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.
 - 6. Failed to properly segregate any pulled over tree that was yarded to the landing.

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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.

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(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 contract specifications and as shown on Exhibit C, which is attached hereto and made a part hereof.
- (2) RC-1b Any required construction, improvement, or renovation of roads and structures shall be completed and accepted prior to the removal of any timber, except right-of-way timber, over that road.
- (3) RC-1f Upon completion of logging activities, the Purchaser shall scarify (decommission) the entire roadway of road numbers 33-3E-29.01, 33-3E-34.01C, 34-3E-4.03B, and 34-3E-9.02A in strips of not less than twenty-four (24) inches or more than twenty-eight (28) inches in width and to a minimum depth of eighteen (18) 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-2a The Purchaser is authorized to use the roads listed below, which are under the jurisdiction of the Bureau of Land Management, Indian Hill LLC, Plum Creek Timberlands LP, Silver Butte Timber Company, Juniper Properties LLC, and/or Perpetua Forests Company, for the removal of Government timber sold under the terms of this contract and/or the hauling of rock as required in Exhibit C, provided that the Purchaser comply with the conditions set forth in Section 42(C)(8) and pay the required rock wear obligation described in Section 42(C)(7). The Purchaser shall pay current Bureau of Land Management rock wear fees for the sale of additional timber under modification to the contract.

Road No. and Segment	Length Miles Used	Road Control	Road Surface Type
33-3E-34.00 (A1A)	0.68	Perpetua	ASC
33-3E-34.00 (A1B)	0.24	Silver Butte	ASC
33-3E-34.00 (A1C)	0.20	Perpetua	ASC
33-3E-34.00 (A2)	0.70	Perpetua	ASC
33-3E-34.00 (B1)	0.01	Perpetua	ASC
33-3E-28.01 (A1A)	0.90	Perpetua	ASC
33-3E-28.01 (A1B)	1.35	Plum Creek	ASC
33-3E-28.01 (A2)	0.06	Plum Creek	ASC
33-3E-28.01 (B-C)	0.73	BLM	ASC
33-3E-19.00 (A1)	0.11	BLM	ASC
33-3E-19.01 (A)	1.02	BLM	ASC
33-3E-19.01 (B-C)	0.96	Juniper Prop.	NAT

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Road No. and Segment (Cont.)	Length Miles Used	Road Control	Road Surface Type
33-3E-28.00 (A)	0.26	Perpetua	PRR
33-3E-28.00 (B)	2.16	BLM	PRR
33-3E-28.00 (C)	0.23	Silver Butte	PRR
33-3E-28.00 (D-E1)	1.13	BLM	PRR
33-3E-29.00 (A)	0.11	BLM	NAT
33-3E-29.00 (B)	0.30	Silver Butte	NAT
33-3E-29.00 (C)	0.03	BLM	NAT
33-3E-29.01	0.52	BLM	NAT
33-3E-30.02	0.46	Silver Butte	ASC
33-3E-30.01 (B)	0.07	Silver Butte	ASC
33-3E-30.01 (B)	0.43	Silver Butte	NAT
33-3E-30.01 (A)	0.57	BLM	ASC
33-3E-19.00 (A2-B)	0.86	BLM	ASC
33-2E-33.00 (C)	0.43	BLM	ASC
33-2E-25.02 (A-B)	0.60	BLM	ASC
33-2E-25.03	0.31	BLM	ASC
33-3E-30.00	0.55	BLM	ASC
33-2E-25.00 (A)	0.66	BLM	NAT
33-3E-31.06	0.47	BLM	NAT
33-3E-34.01 (A)	0.16	Perpetua	ASC
33-3E-34.01 (B)	0.50	BLM	ASC
34-3E-4.03 (C)	0.43	BLM	ASC
34-3E-4.03 (B)	0.27	BLM	NAT
33-3E-33.00	0.34	BLM	ASC
33-3E-33.01	0.70	BLM	ASC
33-3E-34.01 (C)	0.08	BLM	NAT
34-3E-9.00 (A-B)	0.62	BLM	ASC
34-3E-9.00 (C)	0.38	Indian Hill	ASC
34-3E-9.00 (D)	0.34	Indian Hill	ASC
34-3E-9.00 (E-F)	2.63	BLM	ASC
33-3E-28.00 (E2)	0.55	BLM	ASC
33-3E-31.07	0.62	Indian Hill	PRR
33-3E-32.00	0.70	BLM	PRR

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Road No. and Segment (Cont.)	Length Miles Used	Road Control	Road Surface Type
34-3E-3.00 (B)	0.02	BLM	ASC
34-3E-5.05 (A)	0.07	Silver Butte	ASC
33-3E-32.01	0.61	Silver Butte	PRR
34-3E-5.01	0.31	BLM	ASC
34-3E-9.02 (A)	0.58	BLM	NAT
34-3E-9.02 (B)	0.35	BLM	ASC
34-3E-9.02 (C)	0.30	BLM	NAT
34-3E-5.00	0.56	BLM	ASC
34-3E-18.00 (C)	1.21	BLM	PRR

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

For administrative purposes the total maintenance and rock wear 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 a 10 day 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) of this contract shall be amended to include adjustments of fee obligations.

- (6) 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)(4). The Purchaser shall pay the total maintenance amount for said roads within 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.

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- (7) RC-2g The Purchaser shall also pay to the Government a **road maintenance obligation for rock wear** in the amount of **seven thousand nine hundred thirteen and 61/100 dollars (\$7,913.61)** 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)(4). The amount of the rock wear 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.
- (8) RC-2h 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.
- (9) RC-3 In the use of road(s) 33-3E-28.00(A), 33-3E-28.01(A1A), 33-3E-34.00(A1A), 33-3E-34.00(A1C), 33-3E-34.00(A2), 33-3E-34.00(B1), and 33-3E-34.01(A), the Purchaser shall comply with the conditions of O & C Right-of-Way and Road Use Agreement No. M-2000 (OR 056364) between the United States of America and **Perpetua Forests Company**. These conditions include: Payment to Perpetua Forests Company for a road use fees and rock wear obligation in the amount of **zero and 00/100 dollars (\$0.00)**, payable at the time of execution of the License Agreement, as indicated in said 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.

RC-3 In the use of road(s) 33-3E-31.07, 33-3E-9.00(C), and 33-3E-9.00(D), the Purchaser shall comply with the conditions of O & C Right-of-Way and Road Use Agreement No. M-2000 (OR 056364) between the United States of America and **Indian Hill, LLC**. These conditions include: Payment to Indian Hill, LLC for a rock wear obligation of **thirty and 36/100 dollars (\$30.36)** and a road use fee of **zero and 00/100 dollars (\$0.00)**, payable at the time of execution of the License Agreement, as indicated in said 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.

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RC-3 In the use of road(s) 33-3E-28.01(A1B) and 33-3E-28.01(A2), the Purchaser shall comply with the conditions of O & C Right-of-Way and Road Use Agreement No. M-2000 (OR 056364) between the United States of America and **Plum Creek Timberlands, LP**. These conditions include: Payment to Plum Creek Timberlands, LP for a road use fees and rock wear obligation in the amount of **zero and 00/100 dollars (\$0.00)**, payable at the time of execution of the License Agreement, as indicated in said 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.

RC-3 In the use of road(s) 33-3E-19.01(B) and 33-3E-19.01(C), the Purchaser shall comply with the conditions of O & C Right-of-Way and Road Use Agreement No. M-2000 (OR 056364) between the United States of America and **Juniper Properties, LLC**. These conditions include: Payment to Juniper Properties, LLC for a road use fees and rock wear obligation in the amount of **zero and 00/100 dollars (\$0.00)**, payable at the time of execution of the License Agreement, as indicated in said 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.

RC-3 In the use of road(s) 33-3E-28.00(C), 33-3E-29.00(B), 33-3E-30.01(B), 33-3E-30.02, 33-3E-32.01, 33-3E-34.00(A1B), and 34-3E-5.05(A), the Purchaser shall comply with the conditions of O & C Right-of-Way and Road Use Agreement No. M-2000 (OR 056364) between the United States of America and **Silver Butte Timber Company**. These conditions include: Payment to Silver Butte Timber Company for a rock wear obligation in the amount of **three hundred sixty eight and 11/100 dollars (\$368.11)** and a road use fee of **zero and 00/100**, payable at the time of execution of the License Agreement, as indicated in said 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

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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.

- (10) RC-3c 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.
- (11) RC-5 In the construction of Temp Route No. 6-1, as shown on Exhibit C, the Purchaser shall comply with the conditions of the O & C Right-of-Way and Road Use Agreement No. M-2000 (OR 056364) between the United States and Indian Hill, LLC. This document is available for inspection at the Bureau of Land Management, Medford Interagency Office, 3040 Biddle Road, Medford, Oregon 97504.

RC-5 In the construction of Temp Route No. 30-1, as shown on Exhibit C, the Purchaser shall comply with the conditions of the O & C Right-of-Way and Road Use Agreement No. M-2000 (OR 056364) between the United States and Silver Butte Timber Company. This document is available for inspection at the Bureau of Land Management, Medford Interagency Office, 3040 Biddle Road, Medford, Oregon 97504.

RC-5 In the construction of Temp Route No. 32-1, as shown on Exhibit C, the Purchaser shall comply with the conditions of the O & C Right-of-Way and Road Use Agreement No. M-2000 (OR 056364) between the United States and Silver Butte Timber Company. This document is available for inspection at the Bureau of Land Management, Medford Interagency Office, 3040 Biddle Road, Medford, Oregon 97504.

- (12) RC-6 Prior to cutting or removing any timber on Temp Route No. 6-1A, the portion of the Temp Route that falls on Indian Hill LLC property, the Purchaser shall pay to Indian Hill, LLC, the owner of the right-of-way timber, the total purchase price of **forty eight and 98/100 dollars (\$48.98)** for that timber.

RC-6 Prior to cutting or removing any timber on Temp Route No. 30-1A, the portion of the Temp Route that falls on Silver Butte Timber Company property, the Purchaser shall pay to Silver Butte Timber Company, the owner of the right-of-way timber, the total purchase price of **seven hundred seventy five and 96/100 dollars (\$775.96)** for that timber.

RC-6 Prior to cutting or removing any timber on Temp Route No. 32-1A, the portion of the Temp Route that falls on Silver Butte Timber Company property, the Purchaser shall pay to Silver Butte Timber Company, the owner of the right-of-way timber, the total purchase price of **twenty eight and 17/100 dollars (\$28.17)** for that timber.

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- (13) 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 15 days prior to proposed move-in.

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.

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(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 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 skid trail barricades in all tractor units as shown on Exhibit A. Barricades shall be located where skid trails take off of system roads, temp spurs or landing areas and

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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.

- (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 shown on Exhibit A, and wherever 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.
 - (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.
 - (d) Rip entire length of all main skid trails (as determined by the authorized officer) and all landings in units 5-1, 5-2, 6-1, 7-1, 8-1, 32-1 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 all landings in all other units 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, landings will be storm-proofed and blocked by October 15.
 - (f) Rip all temporary roads (and associated landings) by October 15 of the year operations are completed as shown on Exhibit A. If hauling on a temporary spur road is not completed in the same year the road is constructed, the road will be storm-proofed and blocked by October 15.
 - (g) Seed and mulch entire length of all temporary roads (and associated landings) as shown on Exhibit A. by October 15 of the year logging operations are completed. If hauling on a temporary spur road is not completed in the same year the road is constructed, the road will be storm-proofed and blocked by October 15. Seed and mulch will be provided by the

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BLM. The Purchaser shall apply the seed at a rate of fifteen (15) lbs./acre and the straw at a rate of two thousand (2,000) lbs./acre.

(h) Seed and mulch all skid trails in all tractor units as shown on Exhibit A for a distance of one hundred (100) feet beginning where skid trails take off of system roads, temp spurs or landing areas and continuing for the first one hundred (100) feet of skid trail length by October 15 of the year logging operations are completed. If operations are not completed in the same year of use, the skid trails will be storm-proofed and blocked by October 15. Seed and mulch will be provided by the BLM. The Purchaser shall apply the seed at a rate of fifteen (15) lbs./acre and the straw at a rate of two thousand (2,000) lbs./acre.

(i) Seed and mulch all landings in all units as shown on Exhibit A by October 15 of the year logging operations are completed. Seed and mulch will be provided by the BLM. The Purchaser shall apply the seed at a rate of fifteen (15) lbs./acre and the straw at a rate of two thousand (2,000) lbs./acre.

(j) Seed and mulch all skyline yarding corridors in units 25-2, 31-1, and 31-3B for a distance of twenty (20) feet beginning from that point where the yarding corridor leaves the landing area if yarding results in extended soil exposure, as determined by the authorized officer, by October 15 of the year logging operations are completed. Seed and mulch will be provided by the BLM. The Purchaser shall apply the seed at a rate of fifteen (15) lbs./acre and the straw at a rate of two thousand (2,000) lbs./acre.

(k) Water-bar all skid roads, used for logging activities by October 15 of the year operations are completed in all units shown on Exhibit A.

- (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-8, which is attached hereto and made a part hereof.
- (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;
 - (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

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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 extending beyond 30 days, the First Installment on deposit may be reduced to five

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(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 with the ROD and RMP, protect species that have been discovered which were

VINE MAPLE
SPECIAL PROVISIONS

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.

Upon receipt of a notice that the Purchaser expects to perform such operations during this time period, the Government will conduct surveys in units 25-2, 25-3,

VINE MAPLE
SPECIAL PROVISIONS

31-1, 31-2, 31-3A, 31-3B 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.

VINE MAPLE
SPECIAL PROVISIONS

(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 three thousand three hundred seventy seven and 50/100 dollars (\$3377.50) In the event that only a portion of the contract timber is scaled, the purchase price shall be reduced by that portion of three thousand three hundred seventy seven and 50/100 dollars (\$3377.50) 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.
- (2) 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 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.

VINE MAPLE
SPECIAL PROVISIONS

(F) Fire Prevention and Control

1. F-1a Fire Prevention and Control. Primarily for purposes of fire prevention and control, the Purchaser shall comply with the following provisions:
 1. 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.
 2. 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 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

VINE MAPLE
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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.
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.

VINE MAPLE
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(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-4a SLASHING DAMAGED RESIDUALS. Slash all sprung or otherwise severely damaged trees greater than one (1) inch and less than six (6) inches D.B.H.O.B. concurrently with logging as designated by the Authorized Officer. All slashing is to be completed prior to any required piling of slash.
- (4) SD-1h HANDPILE Handpile all slash as directed by the Authorized Officer in accordance with the following specifications:
1. Piling shall be accomplished by hand. Finished piles shall be tight and free of earth.
 2. Pile all slash which is between one (1) and six (6) inches in diameter on the large end and exceeds three (3) feet in length.
 3. A six (6) foot by six (6) foot sheet of four (4) mil polyethylene black plastic shall be placed in each pile in a manner such that approximately one-third ($\frac{1}{3}$) of the pile lies above it to hold it in place and so that a

VINE MAPLE
SPECIAL PROVISIONS

two (2) foot by two (2) foot dry ignition point is maintained for one (1) year or until burned. The ignition point will consist of fine fuel material such as needles, small limbs, and branches less than one-half (½) inch in diameter and free of dirt. Piles shall be constructed by aligning individual pieces in the same direction and placing the heavier slash on top. Piles shall have a stable base to prevent toppling. The long axis of individual pieces shall be oriented up and down the slope. Protruding pieces shall be trimmed to allow covering in a manner that permits the pile to shed water. Height shall be no less than four (4) feet and no greater than six (6) feet; width shall not exceed six (6) feet; piles shall be circular and not windrowed. No pile shall be located within sixty (60) feet of fish-bearing, perennial streams or within thirty five (35) feet from non-fish-bearing, intermittent streams. Piles shall not be located on down logs, stumps, talus slopes, roadways, or drainage ditches. No pile shall be located within ten (10) feet of reserve trees, any other pile, or unit boundary. No pile shall be located within twenty five (25) feet of designated wildlife trees. No portion of the pile will be under the crown of any living conifer tree.

4. Operations required by this provision shall be kept current with yarding as directed by the Authorized Officer and shall be conducted as follows:
 - a. Units shall be piled and covered during the same season that they are logged. Piling shall be completed in each unit or portion thereof, within eight (8) weeks after being notified of BLM site treatment determination.

- (5) 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.

1. 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.

- (6) SD-5 Perform logging residue reduction and site preparation work on approximately one hundred and seventy (170) 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:

VINE MAPLE
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Treatment/Level	Cost Per Acre	Number of Acres	Total Cost Per Treatment Type
Hand Pile Slash	\$525.00	20	\$10,500.00
Hand Pile Burn	\$54.00	20	\$1,080.00
Lop and Scatter L2	\$45.00	150	\$6,750.00
Total Appraised Cost			\$18,330.00

- (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 42(G)(2)(a) differs from Eighteen thousand three hundred thirty dollars (\$18,330.00) as calculated by using the estimated acres determined by the Authorized Officer and the per acre costs listed in Section 42(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.

VINE MAPLE
SPECIAL PROVISIONS

(H) Quarry Development

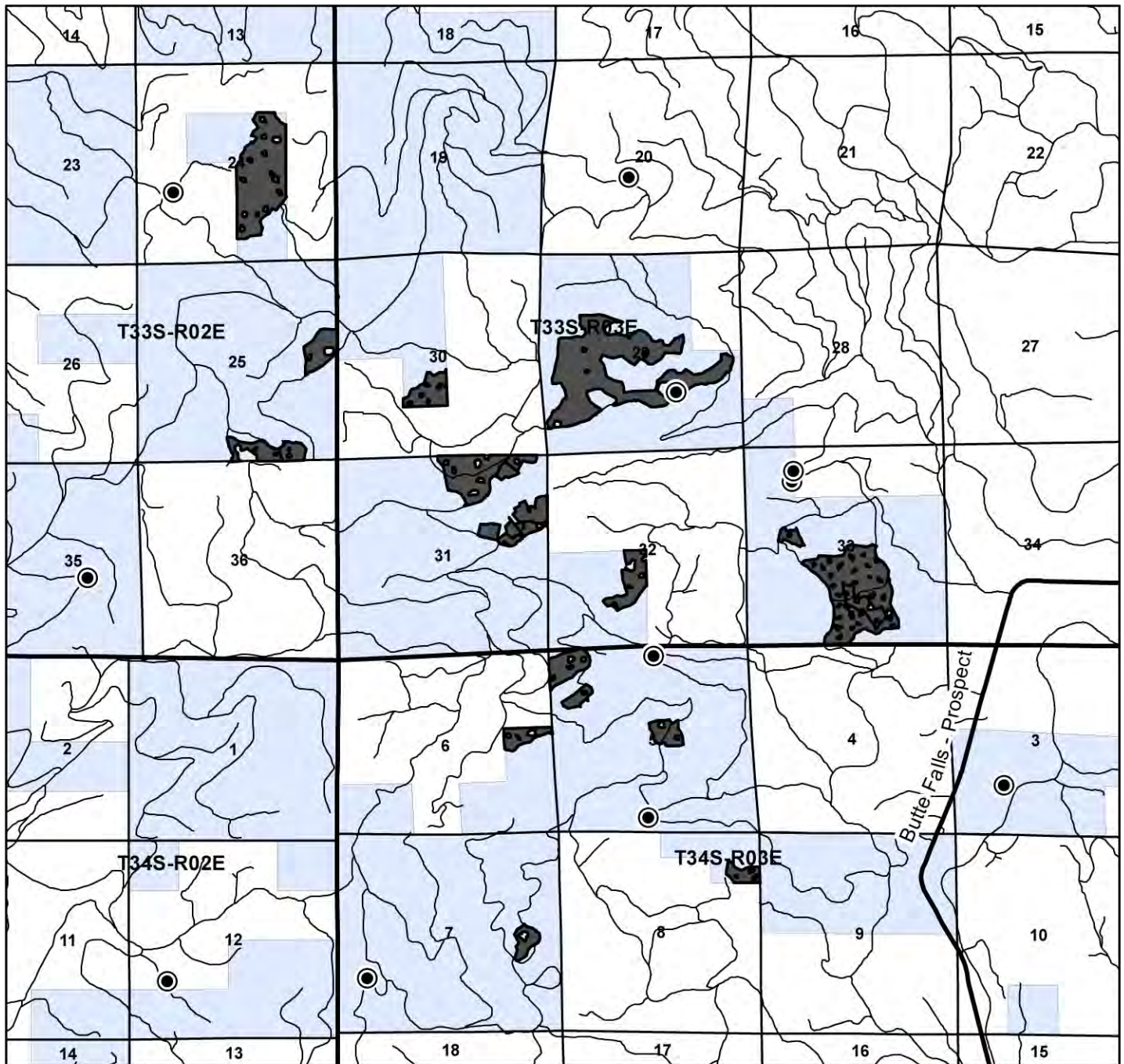
- (1) Q-1 The Purchaser shall develop a rock quarry in strict accordance with the plans and specifications shown on Exhibit C-11 which is attached hereto and made a part hereof. Exhibit C-11 contains 1 sheet.
 - (a) Q-1b Any quarry access road construction and site preparation shown on exhibit C-11 shall 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. 12-22
T. 33S. R. 2E., SECS 24, 25 WILL. MER.
T. 33S. R. 3E., SECS 29, 30, 31, 32, 33 WILL. MER.
T. 34S. R. 3E., SECS 5, 6, 7, 8, WILL. MER.

TIMBER SALE LOCATION MAP
VINE MAPLE TIMBER SALE
CONTRACT NO. ORM05 -TS12-22
BUTTE FALLS RESOURCE AREA



 Vine Maple Units
 Road
 Water Source

0 0.3 0.6 1.2
Miles

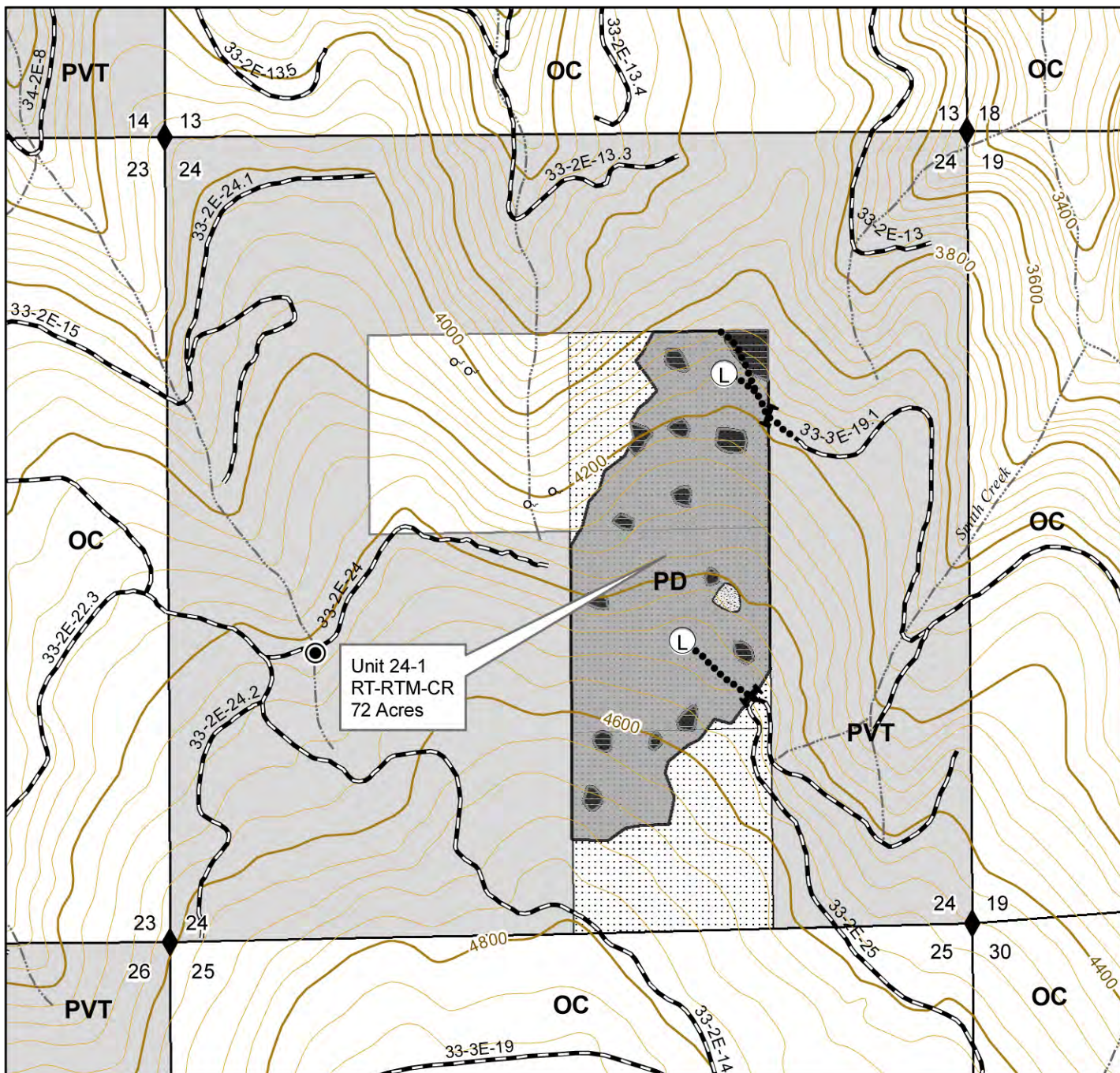


Medford District BLM
July 2012

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U.S.D.I. BLM MEDFORD DISTRICT SALE NO. 12-22
T. 33S. R. 2E., SEC 24, WILL. MER.
VINE MAPLE TIMBER SALE

TIMBER SALE CONTRACT MAP
CONTRACT NO. ORM05 -TS12-22
EXHIBIT A
PAGE 1 OF 13



40 FOOT CONTOURS



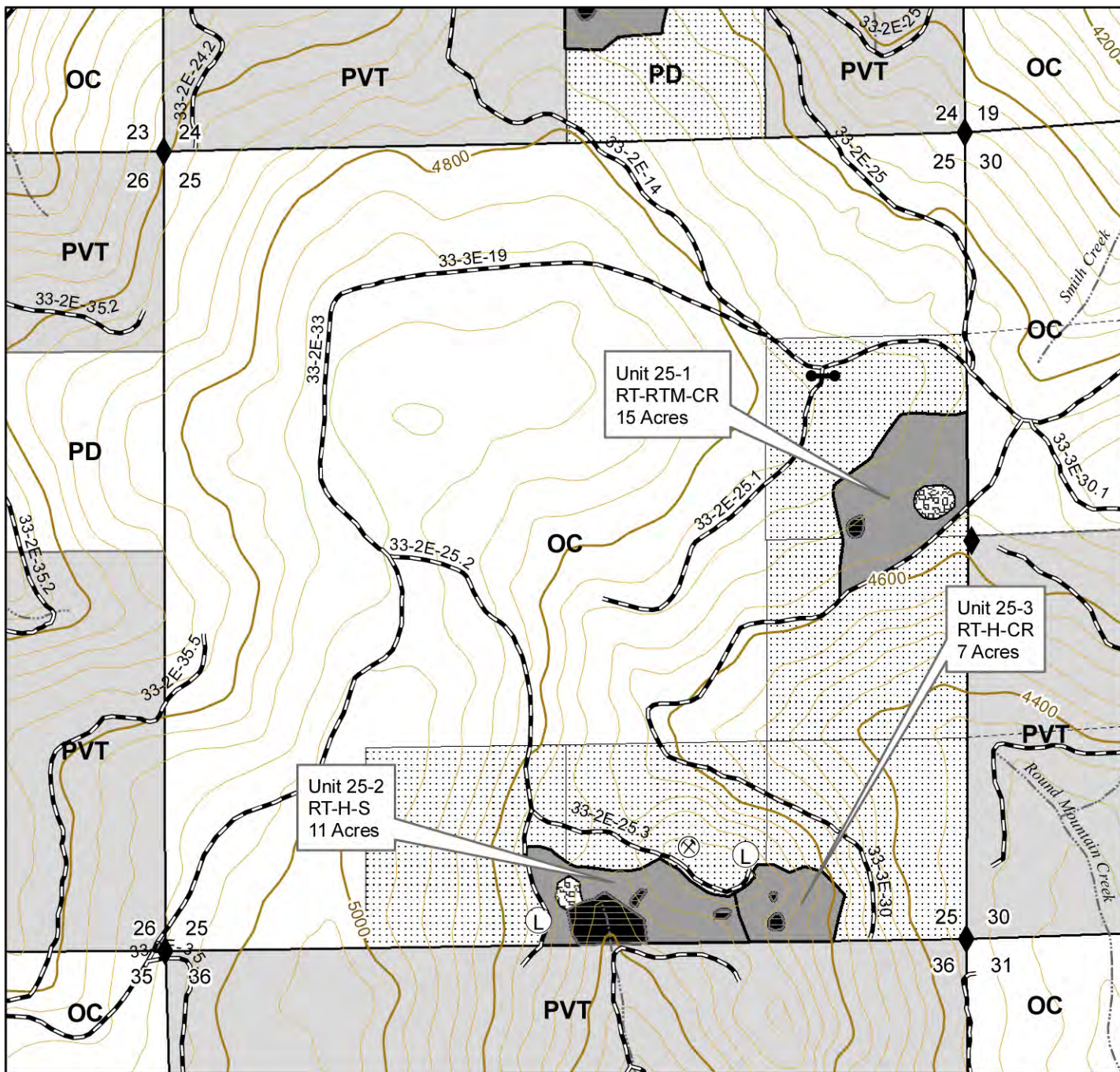
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Miles

1 inch = 1,000 feet



Medford District BLM
July 2012

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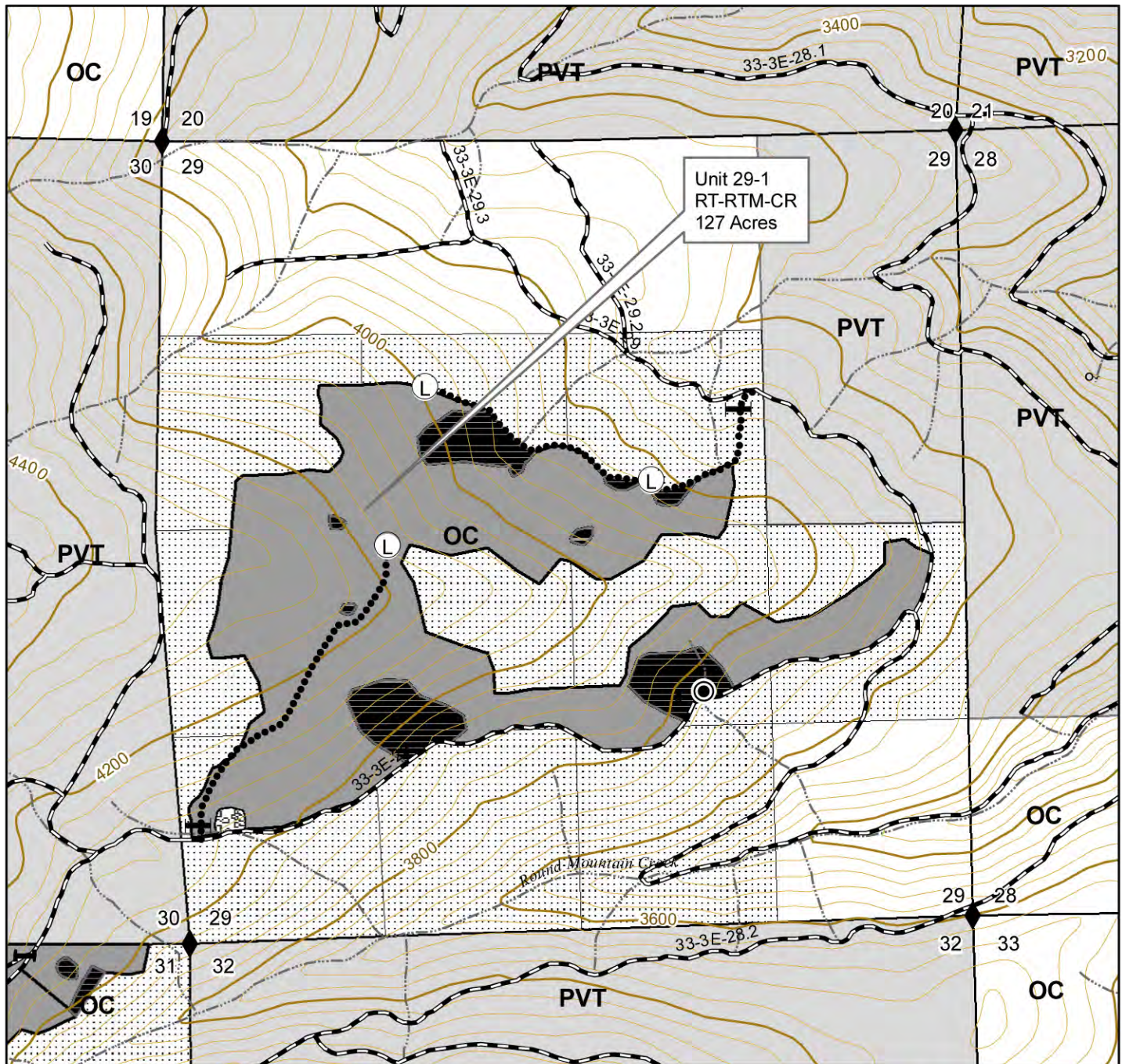
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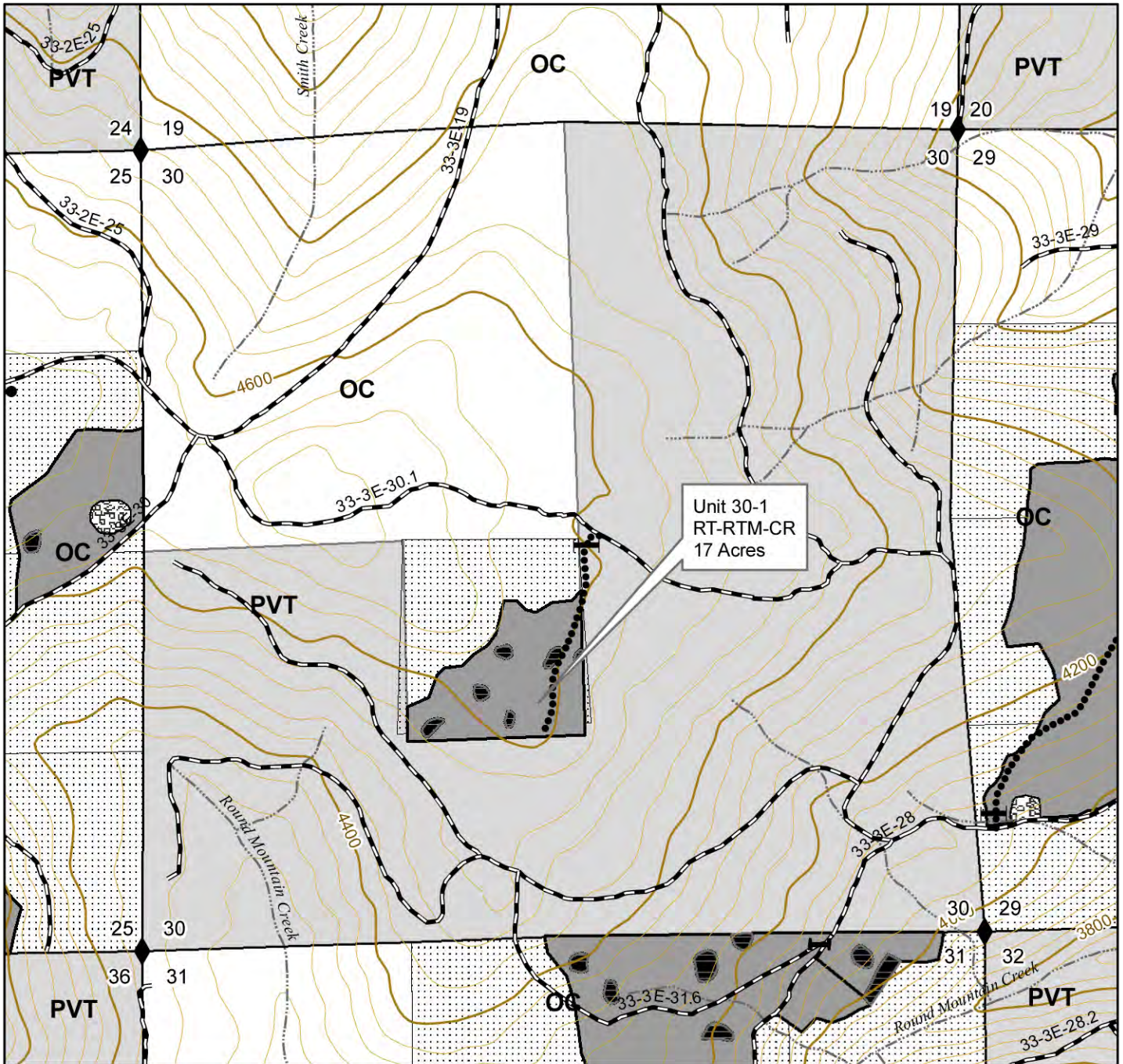
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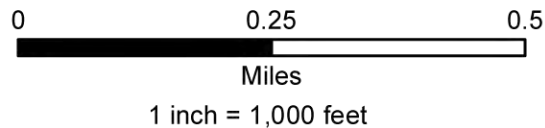


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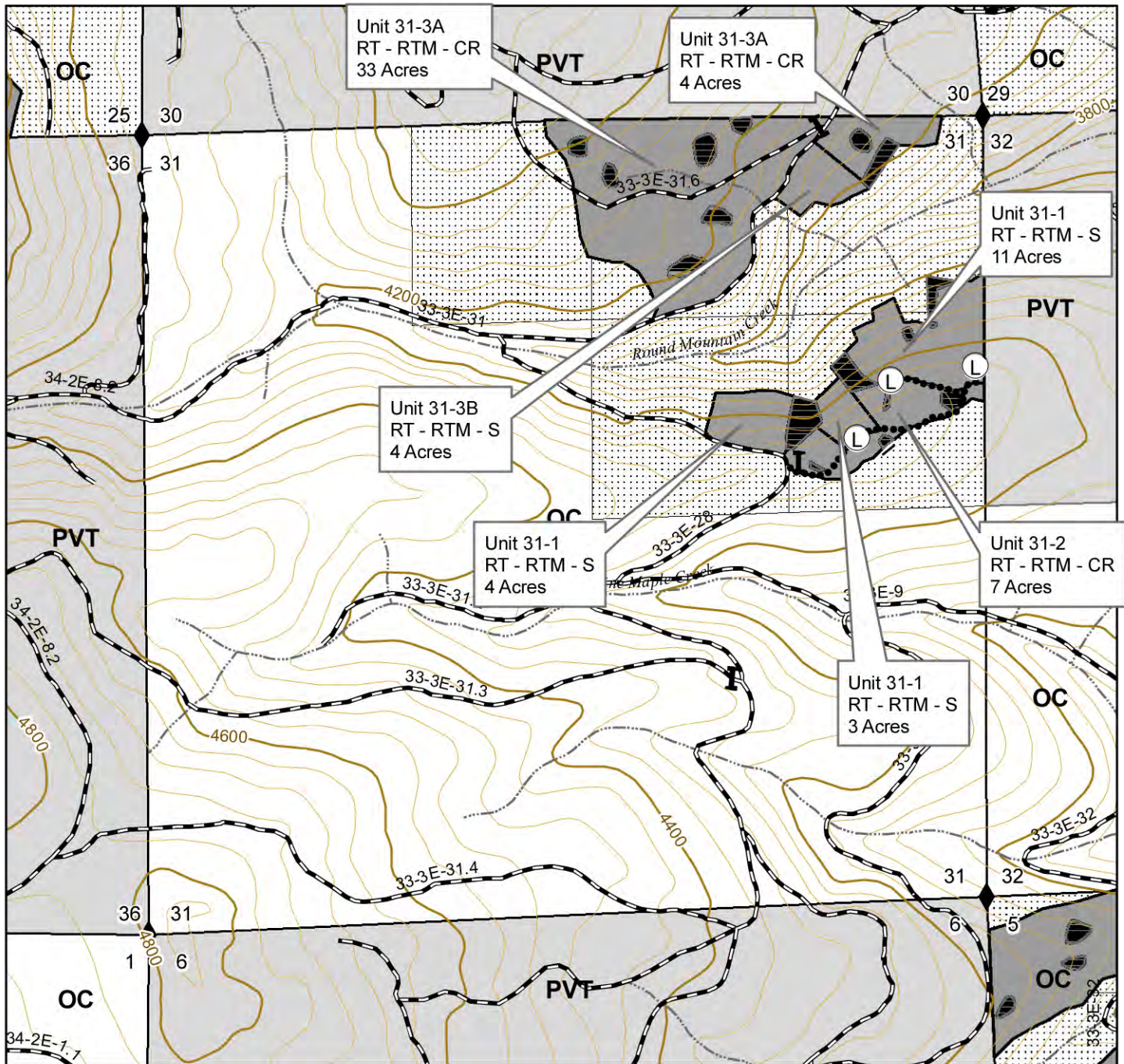


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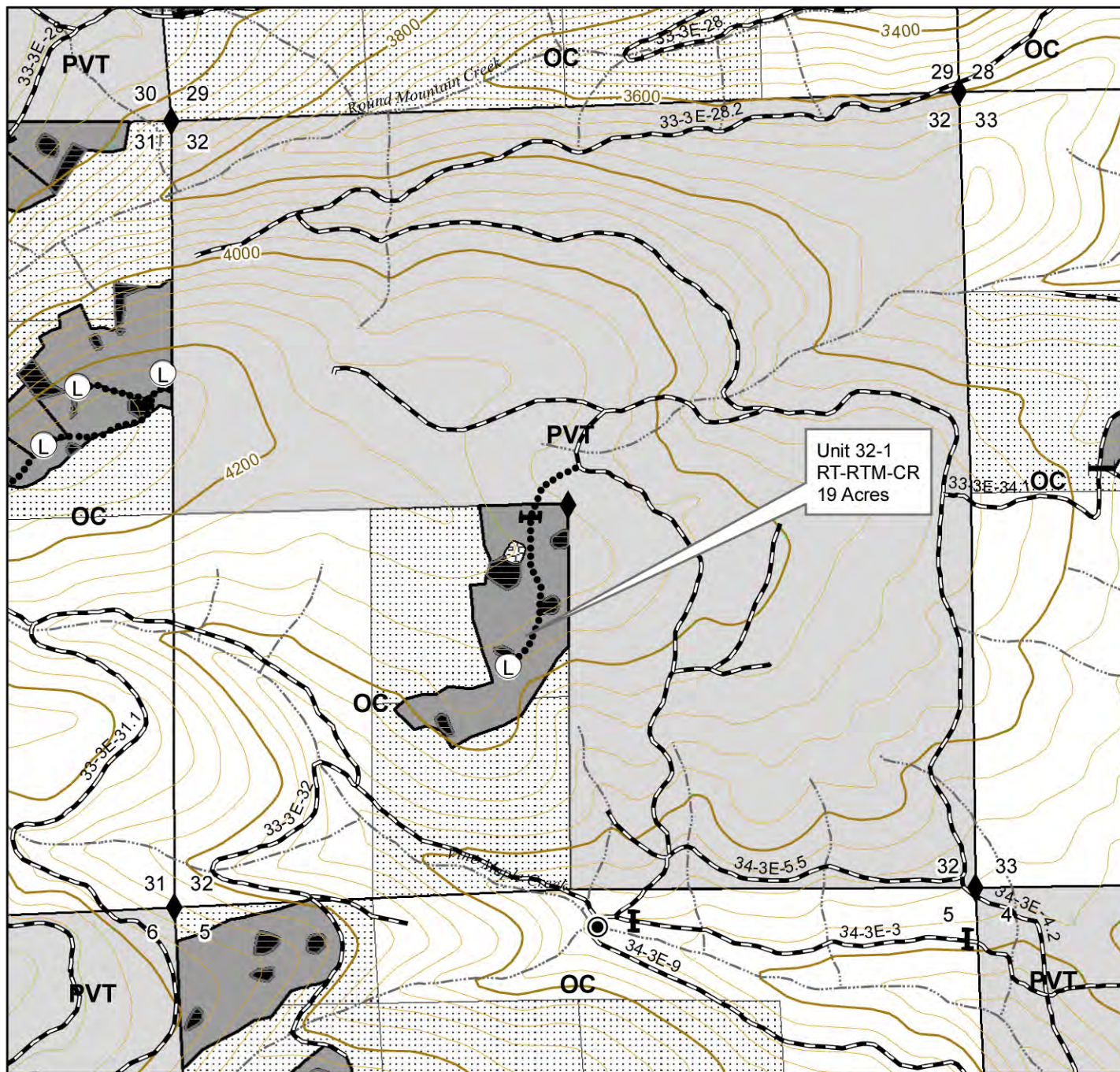
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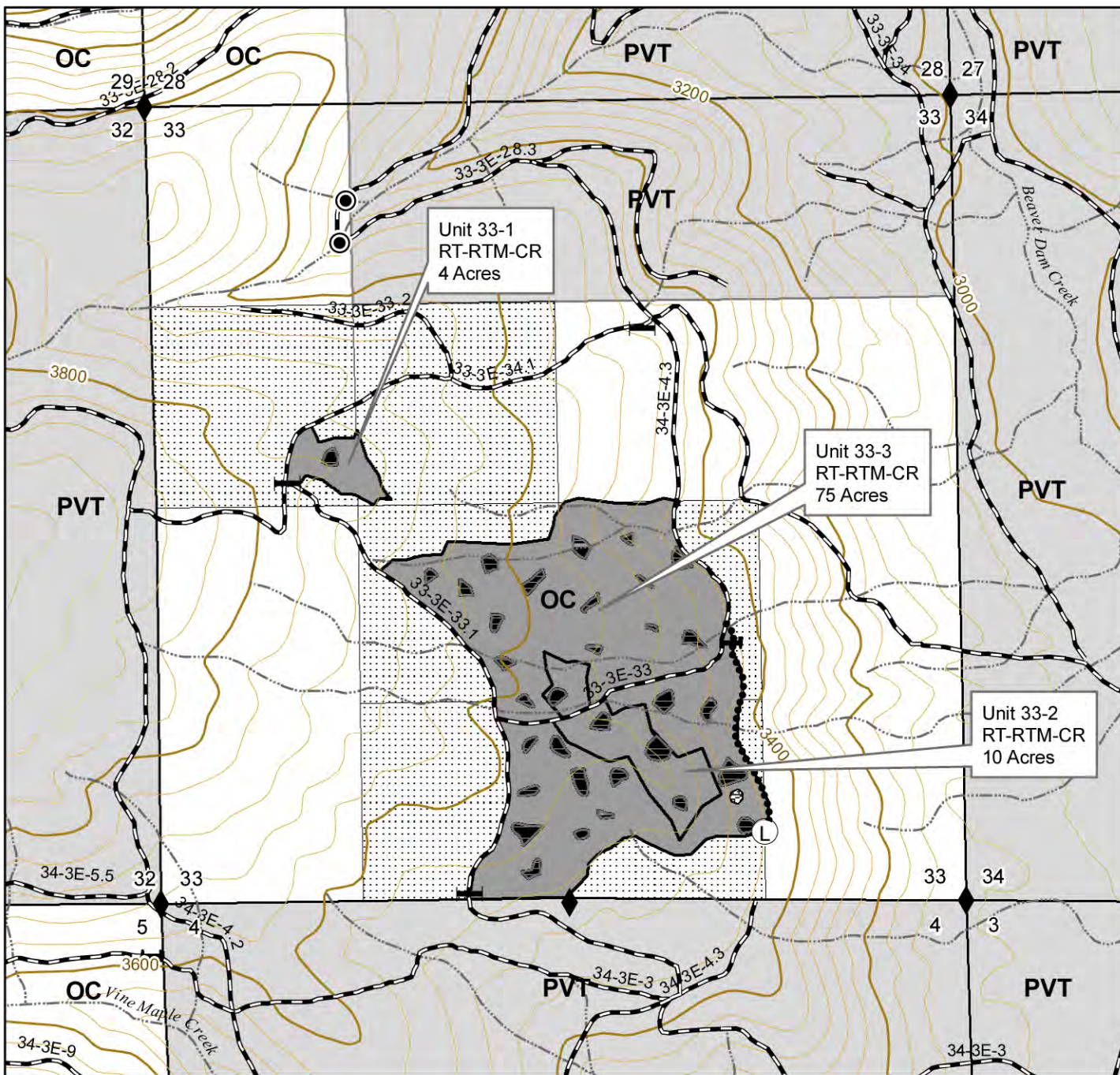


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Miles
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July 2012

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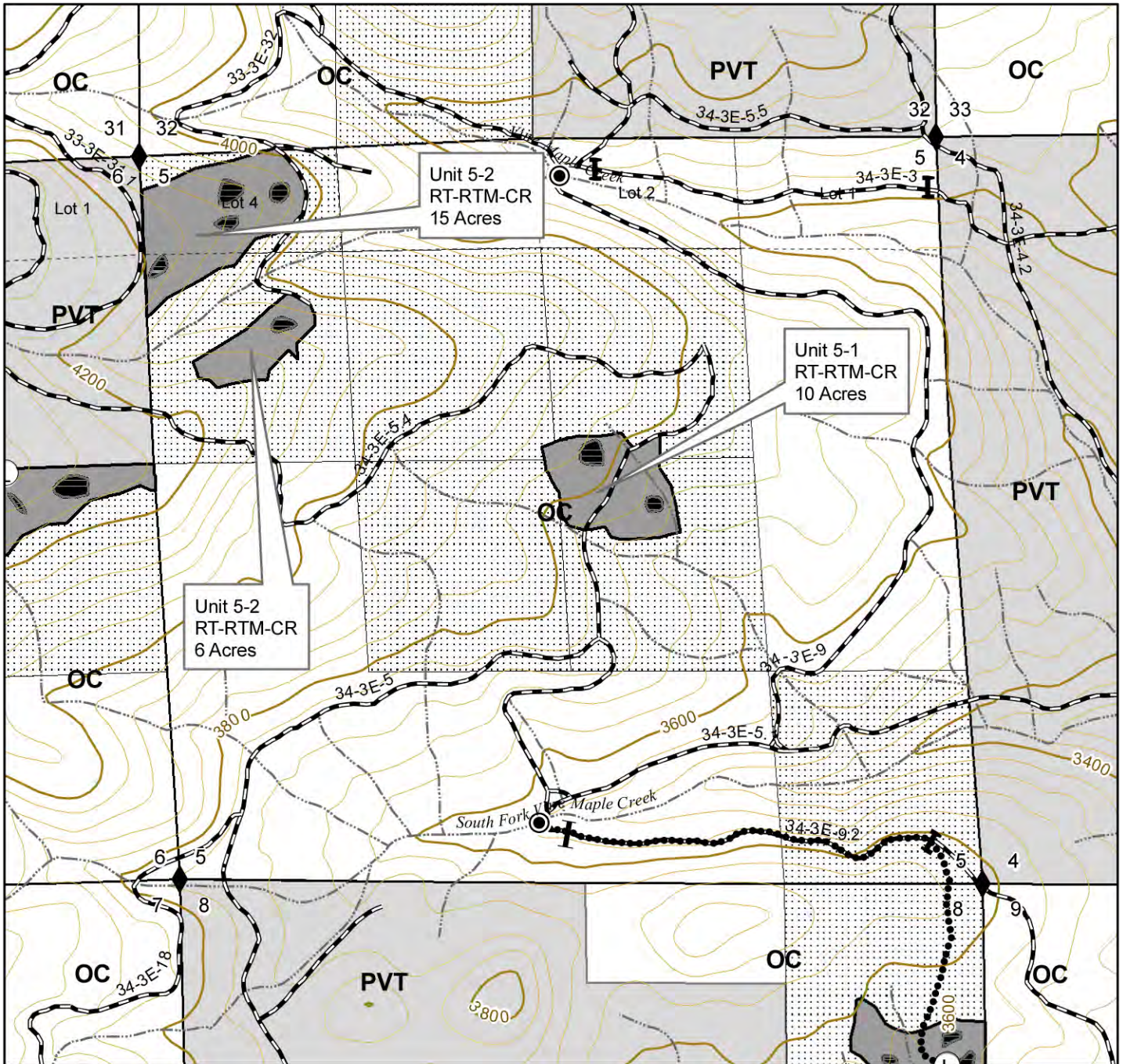
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Miles

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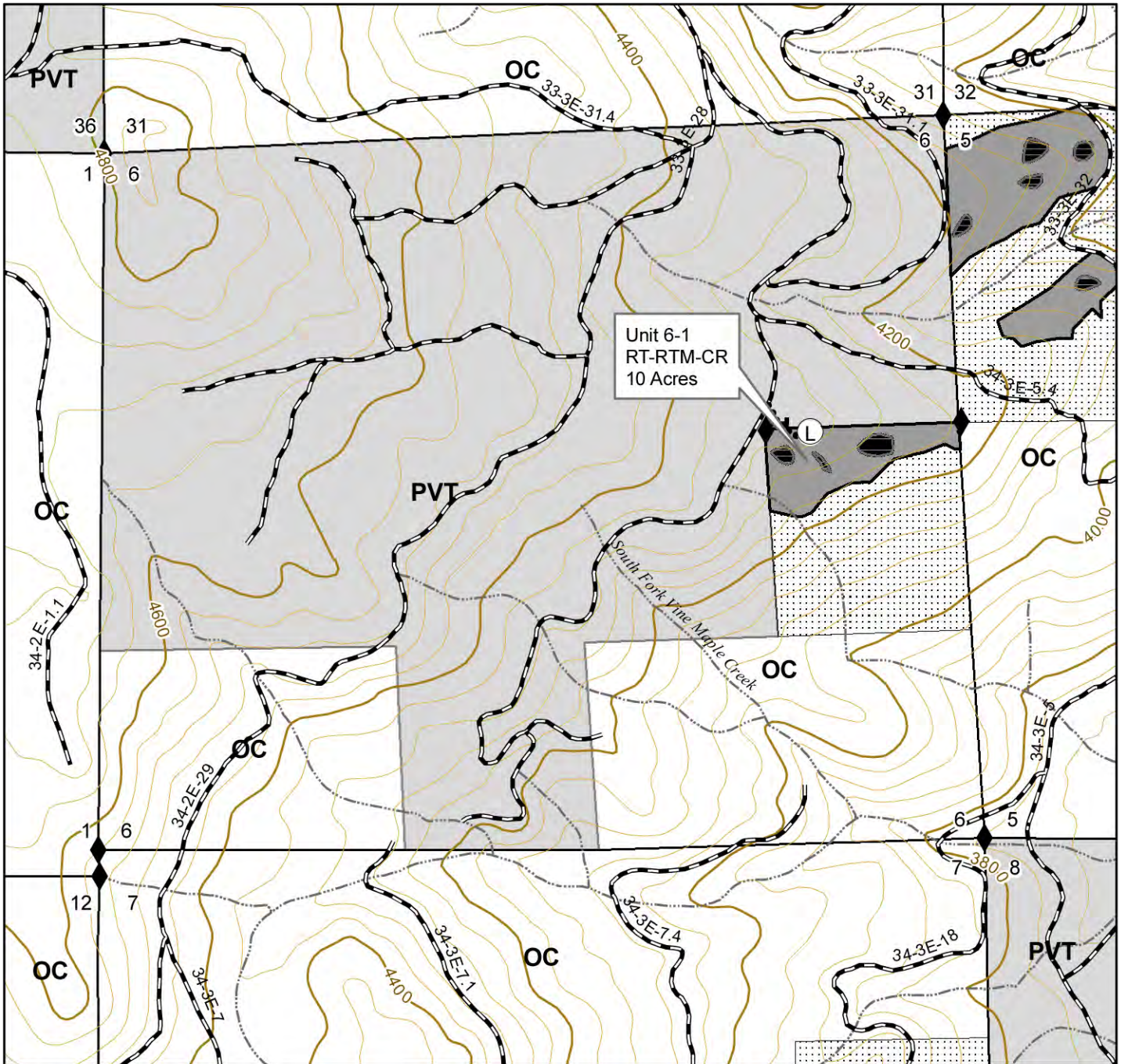


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July 2012

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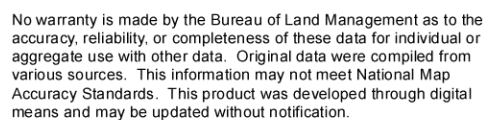
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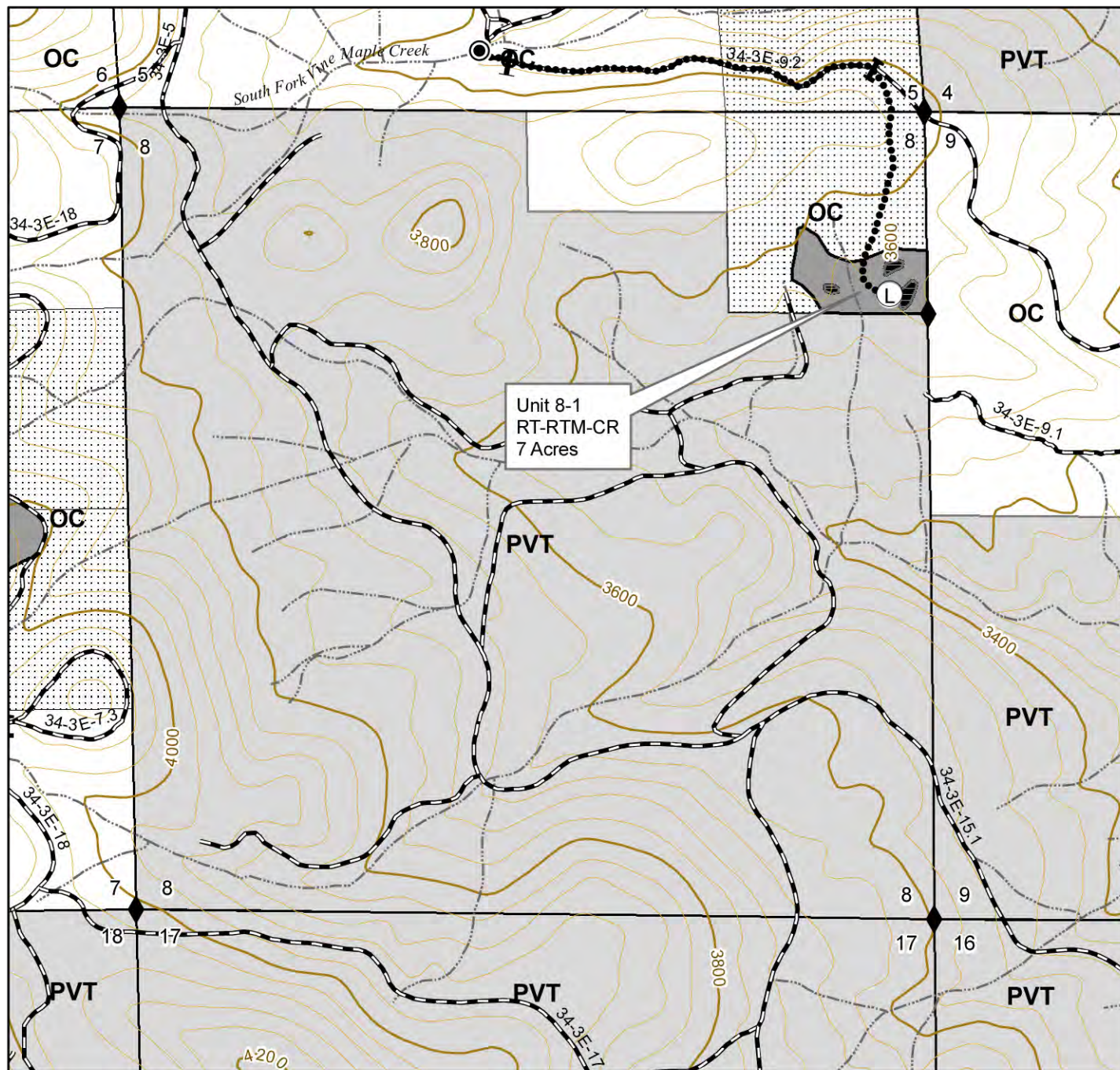


Medford District BLM
July 2012

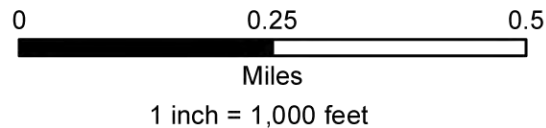
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TIMBER SALE CONTRACT MAP
CONTRACT NO. ORM05 -TS12-22
EXHIBIT A
PAGE 10 OF 13





40 FOOT CONTOURS
























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July 2012

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U.S.D.I. BLM MEDFORD DISTRICT SALE NO. 12-22
T. 33S. R. 2E., SECS 24, 25 WILL. MER.
T. 33S. R. 3E., SECS 29, 30, 31, 32, 33 WILL. MER.
T. 34S. R. 3E., SECS 5, 6, 7, 8 WILL. MER.
VINE MAPLE TIMBER SALE

TIMBER SALE CONTRACT MAP
CONTRACT NO. ORM05 -TS12 - 22
EXHIBIT A
PAGE 12 OF 13

Legend

	Found Corner		Temporary Spur Road
	Water Source		Road
	Quarry		Stream
	Spring		100 ft. Index Contour
	Gate, Existing		40 ft. Intermediate Contour
	Barricade, Existing		Government Lot
	Barricade, to be constructed		Contract Area
	Log Landing		BLM Administered Land
	Boundary of Cutting Area		Non-BLM Land
	Plant Site		
	Protected Site		
	Reserve Area		

RT - RTM - CR

RESTORATION THIN, RESERVE TREE MARK (YELLOW PAINT)
TRACTOR LOG: UNITS: 5-1, 5-2, 6-1, 7-1, 8-1, 24-1, 25-1, 29-1,
30-1, 31-2, 31-3A, 32-1, 33-1, 33-2, 33-3

RT - H - CR

RESTORATION THIN, HARVEST TREE MARK (BLUE PAINT)
TRACTOR LOG: UNIT: 25-3

RT - RTM - S

RESTORATION THIN, RESERVE TREE MARK (YELLOW PAINT) SKYLINE LOG:
UNITS: 31-1, 31-3B

RT - H - S

RESTORATION THIN, HARVEST TREE MARK (BLUE PAINT)
SKYLINE LOG: UNIT: 25-2

U.S.D.I. BLM MEDFORD DISTRICT SALE NO. 12-22
T.33S. R2E., SECS. 24, 25, WILL. MER.
T.33S. R3E., SECS. 29, 30, 31, 32, 33, WILL. MER.
T.34S. R3E., SECS. 5, 6, 7, 8, WILL. MER.
VINE MAPLE TIMBER SALE

TIMBER SALE CONTRACT MAP
CONTRACT NO. ORM05-TS12-22
EXHIBIT A
PAGE 13 OF 13

Section Number	Unit Number	Unit Acres	Reserve Acres	Contract Acres
5	5-1, 5-2	31	188.42	219.42
6	6-1,	10	30	40
7	7-1	8	72	80
8	8-1	7	73	80
24	24-1	72	48	120
25	25-1, 25-2, 25-3,	33	167	200
29	29-1	127	273	400
30	30-1	17	23	40
31	31-1, 31-2, 31-3A, 31-3B,	66	134	200
32	32-1,	19	61	80
33	33-1, 33-2, 33-3	89	191	280
Totals		479	1260.42	1739.42



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

District : Medford
Sale Name : Vine Maple
Sale Date : 09/13/2012
Appraisal Method : 16' MBF

Contract # : ORM05-TS12-22
Job File # : M11286
Master Unit : Jackson
Planning Unit : Butte Falls

Contents

Exhibit B

2

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

Medford
Vine Maple
ORM05-TS12-22

Exhibit B

The following estimates and calculations of timber sold are made solely as an administrative aid for determining: (1) Adjustments made or credits given in accordance with Sections 6, 9, or 11; (2) When payments are due; and (3) Value of timber subject to any special bonding provisions. The value of timber will be determined by multiplying the value per acre as shown below, times the amount of acreage as determined by the authorized officer, which has been cut or removed or designated for taking.

Except provided in Section 2, Purchaser shall be liable for the total purchase price even though the quantity of timber actually cut or removed or designated for taking is less than the estimated volume or quantity shown. Cutting areas are shown on the Exhibit A.

Sale Totals (16' MBF)

Species	Net Volume	Bid Price	Sale SubTotal
White Fir	4,360		
Douglas-fir	2,185		
Ponderosa Pine	126		
Incense-cedar	51		
Western Hemlock	19		
Sugar Pine	14		
Sale Totals	6,755		

Unit Details (16' MB)

Unit 24-1 **72 Acres** **Value per Acre : \$0.00**

Species	Net Volume	Bid Price	Species Value
Douglas-fir	359		
Incense-cedar	1		
White Fir	651		
Unit Totals	1,011		

Unit 25-1 **15 Acres** **Value per Acre : \$0.00**

Species	Net Volume	Bid Price	Species Value
Douglas-fir	21		
Incense-cedar			
White Fir	210		
Unit Totals	231		

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

Medford
Vine Maple
ORM05-TS12-22

Unit 25-2 11 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	3		
White Fir	44		
Unit Totals	47		

Unit 25-3 7 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir			
White Fir	53		
Unit Totals	53		

Unit 29-1 127 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	478		
Incense-cedar	14		
Sugar Pine	7		
Western Hemlock	12		
White Fir	1,614		
Unit Totals	2,125		

Unit 30-1 17 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	55		
Incense-cedar	1		
Ponderosa Pine	41		
White Fir	140		
Unit Totals	237		

Unit 31-1 18 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	92		
Incense-cedar			
Western Hemlock	1		
White Fir	139		
Unit Totals	232		

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

Medford
Vine Maple
ORM05-TS12-22

Unit 31-2 7 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	39		
Incense-cedar			
Ponderosa Pine	1		
White Fir	71		
Unit Totals	111		

Unit 31-2 ROW 2 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	33		
Incense-cedar			
Ponderosa Pine	2		
Sugar Pine	2		
White Fir	38		
Unit Totals	75		

Unit 31-3A 37 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	375		
Incense-cedar	4		
Western Hemlock	1		
White Fir	221		
Unit Totals	601		

Unit 31-3B 4 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	24		
Western Hemlock			
White Fir	34		
Unit Totals	58		

Unit 32-1 19 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	112		
Incense-cedar			
Ponderosa Pine	1		
White Fir	194		
Unit Totals	307		

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

Medford
Vine Maple
ORM05-TS12-22

Unit 32-1 ROW 1 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	13		
Ponderosa Pine			
White Fir	19		
Unit Totals	32		

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

Species	Net Volume	Bid Price	Species Value
Douglas-fir	39		
Ponderosa Pine			
White Fir	33		
Unit Totals	72		

Unit 33-2 10 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	82		
Incense-cedar	2		
Ponderosa Pine	1		
Sugar Pine	1		
Western Hemlock	2		
White Fir	57		
Unit Totals	145		

Unit 33-3 75 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	162		
Incense-cedar	29		
Ponderosa Pine	74		
Sugar Pine	1		
Western Hemlock	3		
White Fir	289		
Unit Totals	558		

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

Medford
Vine Maple
ORM05-TS12-22

Unit 5-1 10 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	129		
Incense-cedar			
Sugar Pine			
White Fir	86		
Unit Totals	215		

Unit 5-2 21 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	19		
Incense-cedar			
Western Hemlock			
White Fir	220		
Unit Totals	239		

Unit 6-1 10 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	12		
Ponderosa Pine	1		
White Fir	156		
Unit Totals	169		

Unit 7-1 8 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	33		
Incense-cedar			
White Fir	66		
Unit Totals	99		

Unit 8-1 7 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	94		
Incense-cedar			
Ponderosa Pine	1		
Sugar Pine			
White Fir	20		
Unit Totals	115		

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

Medford
Vine Maple
ORM05-TS12-22

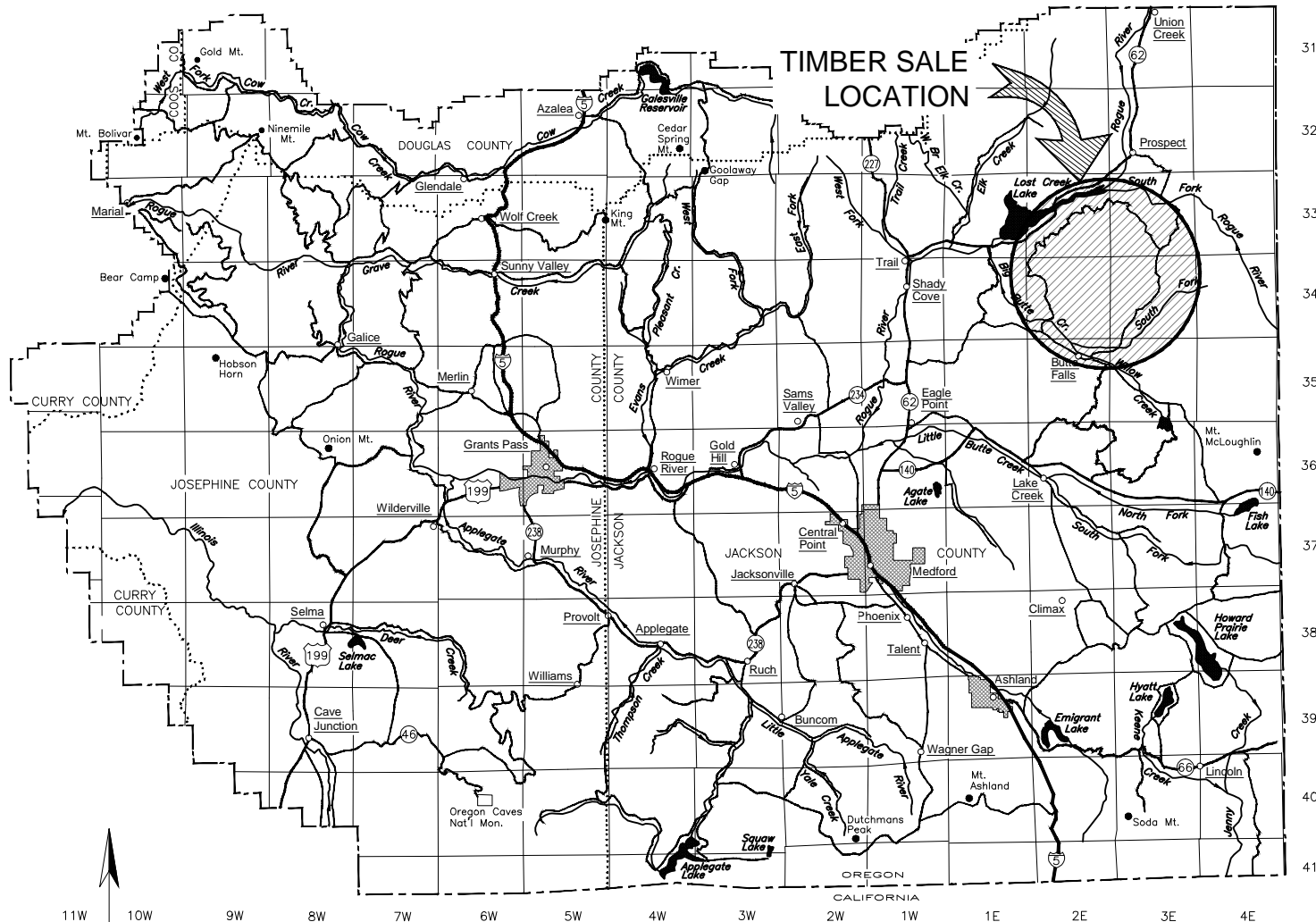
Unit 8-1 ROW 1 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	11		
Incense-cedar			
Ponderosa Pine	4		
Sugar Pine	3		
White Fir	5		
Unit Totals	23		

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
MEDFORD DISTRICT

EXHIBIT C1
SHEET 1 OF 1

VINE MAPLE
TIMBER SALE
TRACT NO. ORM05-TS-12-22



TIMBER SALE
LOCATION

31S
32S
33S
34S
35S
36S
37S
38S
39S
40S
41S

EXHIBIT NO.	DESCRIPTION
C1	TITLE SHEET
C2	OVERALL SALE & ROAD RENOVATION MAPS
C3-A	ESTIMATE OF QUANTITIES - ROADS
C3-B	ESTIMATE OF QUANTITIES - TEMP ROUTES
C4	SPECIFICATION SHEET
C5	TYPICAL ROAD DATA
C6	ROADSIDE BRUSHING DETAIL
C7	DRAINAGE & EROSION CONTROL INSTALLATION
C8	ARMORED WATER DIP
C9	QUARRY DEVELOPMENT PLAN
C10	ROAD RENOVATION WORKLIST
C11	ROAD SPECIFICATIONS
C12	SPECIAL PROVISIONS
D1	ROAD MAINTENANCE SPECIFICATIONS
D2	ROAD MAINTENANCE MAP

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

VINE MAPLE
TIMBER SALE
TITLE SHEET

DESIGNED: _____
REVIEWED: _____
APPROVED: _____

DRAFTED BY: ELF
DATE: JULY 2012
DRAWING NO.: OR-11-9113.4-1

SCALE: 1" = 12 MI
SHEET: 1 OF 1









ALWAYS
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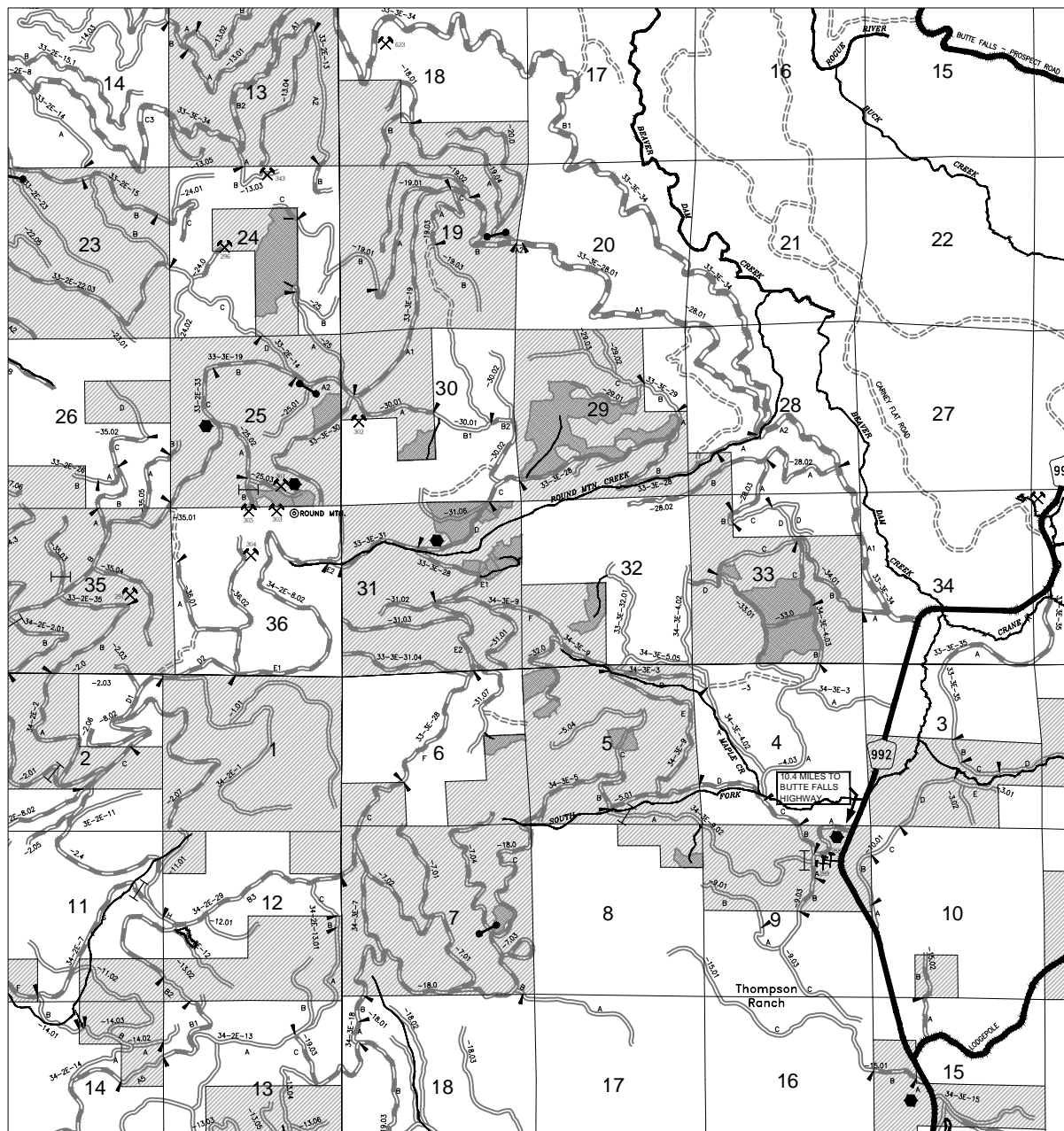
R2E | R3E

EXHIBIT C2

SHEET 1 OF 3

VINE MAPLE
TIMBER SALE
TRACT NO. ORM05-TS-12-22

- BLM OWNERSHIP 
- T.S. UNITS 
- BST ROAD 
- ROCKED ROAD 
- NATURAL SURFACE ROAD 
- UNKNOWN ROAD 
- ROCK STOCK PILE 
- EX. QUARRY 



T33S
T34S



0 1 2
SCALE IN MILES

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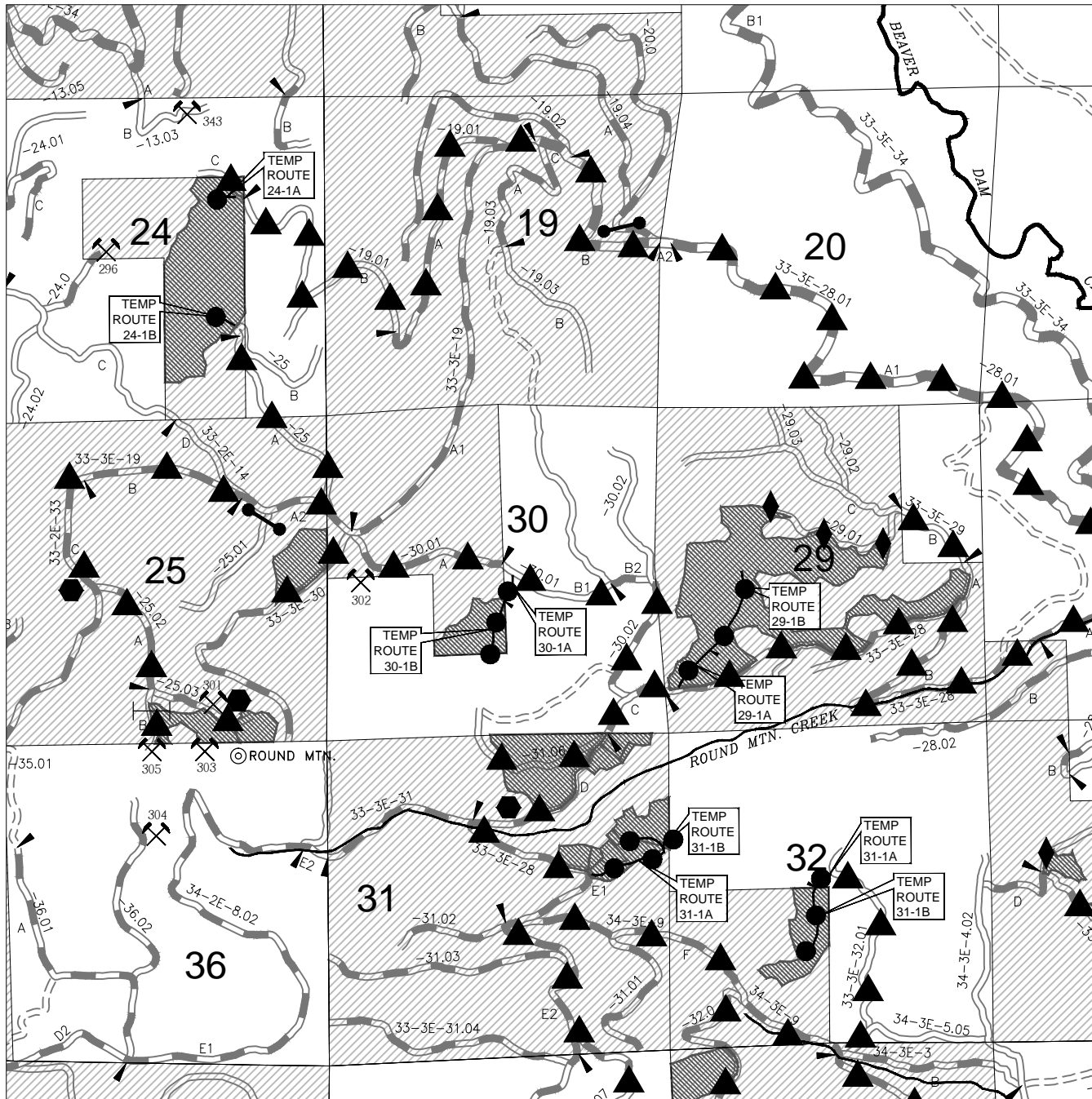
REV. NO.	DESCRIPTION	DATE	APPROV
UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT MEDFORD DISTRICT - MEDFORD, OREGON			
VINE MAPLE TIMBER SALE OVERALL SALE AREA MAP			
DESIGNED: _____			
REVIEWED: _____			
APPROVED: _____			
DRAFTED BY: BGS		SCALE: AS SHOWN	
DATE: JULY 2012		SHEET: 1 OF 3	
DRAWING NO.: OR-11-9113.4-1			

R2E | R3E

EXHIBIT C2

SHEET 2 OF 3

VINE MAPLE
TIMBER SALE
TRACT NO. ORM05-TS-12-22



BLM OWNERSHIP

T.S. UNITS

BST ROAD

ROCKED ROAD

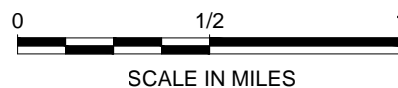
NATURAL SURFACE ROAD

ROAD TO BE RENOVATED

**EXISTING DECOMMISSIONED ROAD

T33S

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**EXISTING DECOMMISSIONED ROAD
TO BE OPENED AND RENOVATED
AND DECOMMISSIONED AFTER USE.

REV. NO.	DESCRIPTION	DATE	APPROV.
UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT MEDFORD DISTRICT - MEDFORD, OREGON			
VINE MAPLE TIMBER SALE ROAD RENOVATION MAP			
DESIGNED: _____			
REVIEWED: _____			
APPROVED: _____			
DRAFTED BY: BGS		SCALE: AS SHOWN	
DATE: JULY 2012		SHEET: 2 OF 3	
DRAWING NO.: OR-11-9113.4-1			

EXHIBIT C2

SHEET 3 OF 3

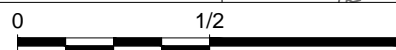
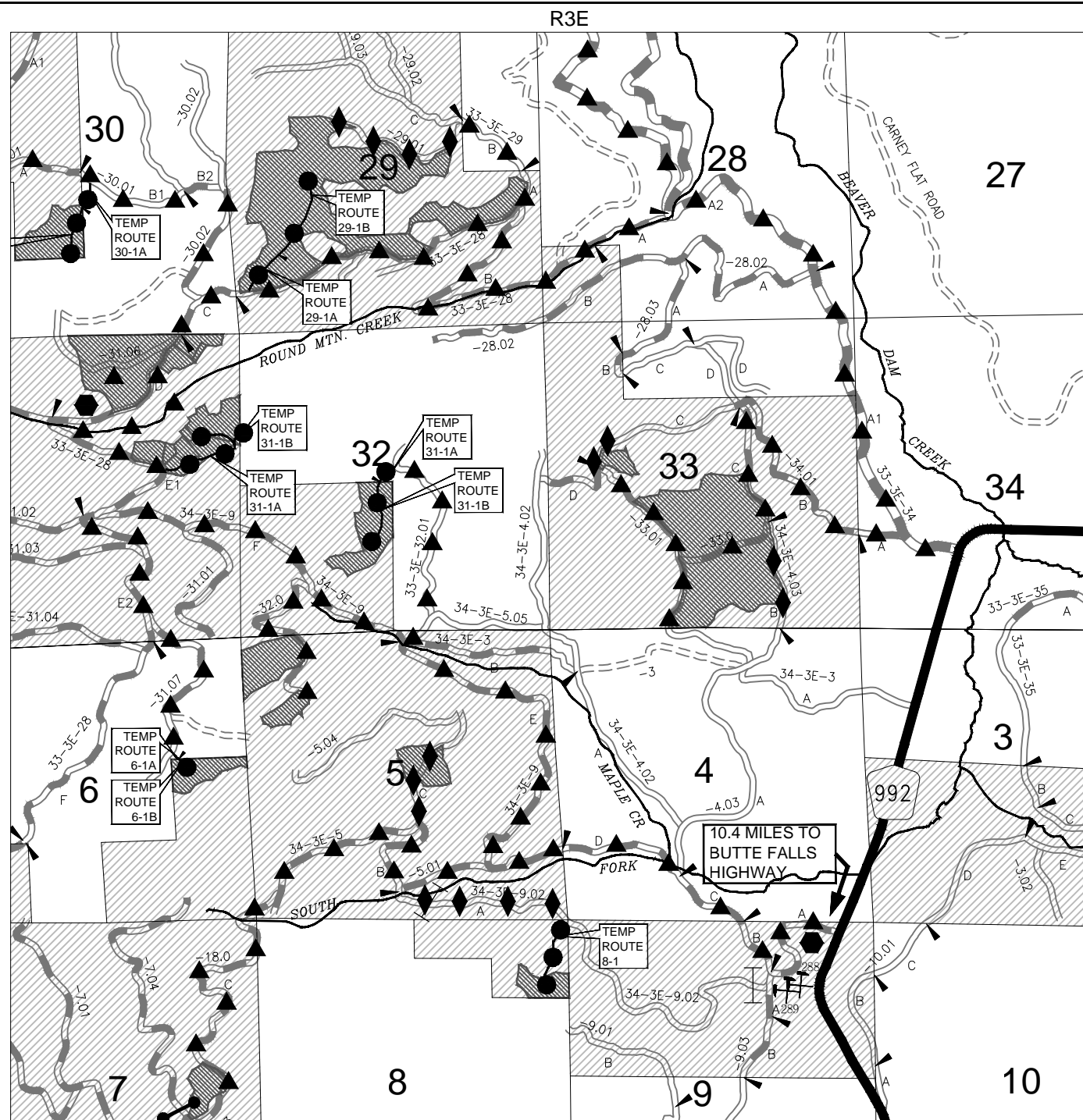
VINE MAPLE
TIMBER SALE
TRACT NO. ORM05-TS-12-22

- BLM OWNERSHIP 
- T.S. UNITS 
- BST ROAD 
- ROCKED ROAD 
- NATURAL SURFACE ROAD 
- ROAD TO BE RENOVATED 
- **EXISTING DECOMMISSIONED ROAD 

T33S

T34S

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SCALE IN MILES

**EXISTING DECOMMISSIONED ROAD
TO BE OPENED AND RENOVATED
AND DECOMMISSIONED AFTER USE.

REV. NO.	DESCRIPTION	DATE	APPROV.
UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT MEDFORD DISTRICT - MEDFORD, OREGON			
VINE MAPLE TIMBER SALE ROAD RENOVATION MAP			
DESIGNED: _____			
REVIEWED: _____			
APPROVED: _____			
DRAFTED BY: BGS		SCALE: AS SHOWN	
DATE: JULY 2012		SHEET: 3 OF 3	
DRAWING NO.: OR-11-9113.4-1			

EXHIBIT C3-A

SHEET 1 OF 4

ROAD NUMBER	FROM (M.P.)	TO (M.P.)	LENGTH (MILES)	CLEARING AND GRUBBING	EXCAVATION		CORRUGATED METAL PIPE								RENOVATION				AGGREGATE					SOIL STABILIZATION	ROADSIDE BRUSHING	ADDITIONAL CONSTRUCTION NOTES
					ROCK	COMMON	SIZE				ELBOWS	DOWNSPOUT				RESHAPE EX. ROAD SURFACE	DITCH & CULVERT CLEANING	WATERDIPS	WATERBARS	GRID ROLLED	CRUSHED BASE ROCK	CRUSHED SURFACE ROCK	EXISTING STOCK PILE SPOT ROCK			
							18"	24"	30"	36"		FULL ROUND		HALF ROUND												
												18"	24"	18"	24"											
SPECIFICATION NO. ➡				200	300	300	400								500				800	1000	1200		1800	2100		
UNITS ➡	MP	MP	MILE	ACRE	CY	CY	LF	LF	LF	LF	EA	LF	LF	LF	LF	MILE	MILE	EA	EA	CY	CY	CY	CY	ACRE	MILE	
33-3E-34.00 (A1-B1)	0.00	1.83	1.83													1.83	1.83								1.83	
33-3E-28.01 (A1-2)	0.00	2.31	2.31													2.31	2.31								2.31	
33-3E-28.01 (B-C)	2.31	3.04	0.73													0.73	0.73								0.73	
33-3E-19.00 (A1)	0.00	0.11	0.11													0.11	0.11								0.11	
33-3E-19.01 (A)	0.00	1.02	1.02													1.02	1.02	1							1.02	CONSTRUCT BARRICADE
33-3E-19.01 (B-C)	1.02	1.98	0.96													0.96	-	7	5						0.96	
33-3E-28.00 (A)	0.00	0.26	0.26													0.26	0.26								0.26	
33-3E-28.00 (B)	0.26	2.42	2.16													2.16	2.16								2.16	
33-3E-28.00 (C)	2.42	2.65	0.23													0.23	0.23								0.23	
33-3E-28.00 (D-E1)	2.65	3.78	1.13													1.13	1.13								1.13	
33-3E-29.00 (A)	0.00	0.11	0.11													0.11	0.11	1 ^②							0.11	
33-3E-29.00 (B)	0.11	0.41	0.30													0.30	0.30	1 ^②							0.30	
33-3E-29.00 (C)	0.41	0.44	0.03													0.03	0.03								0.03	CONSTRUCT BARRICADE
TOTALS		SEE EXHIBIT C3 - SHEET 4 OF 4 FOR QUANTITY TOTALS																								➡

RENOVATION NOTES

1. ROADS LISTED FOR SURFACE RESHAPING SHALL CONSIST OF BLADING, WATERING, & ROLLING PER CONTRACT SPECIFICATIONS & DRAWINGS.

2. DITCH/CULVERT CLEANING SHALL CONSIST OF DITCH BLADING AND RESHAPING, CLEARING DEBRIS, VEGETATION, SEDIMENT, ROCK AND ALL OTHER MATERIAL HINDERING THE FLOW OF RUNOFF PER CONTRACT SPECIFICATIONS & DRAWINGS.

*FOR INFORMATIONAL USE ONLY.
QUANTITIES SHOWN ARE NOT PAY ITEMS.

AGGREGATE GRADATION REQUIREMENTS

ITEM 900

SIZE	GRADATION
4 inch	A
3 inch	B
2 inch	C
1 1/2 inch	D


ITEM 1000

SIZE	GRADATION
3 inch	A,C,F
2 inch	B,D,G,H

ITEM 1200

SIZE	GRADATION
1 1/2 inch	C,C-1
1 inch	D,D-1
3/4 inch	E,E-1

ARMORED WATER DIP NOTES

 REMOVE EXISTING CULVERT AND CONSTRUCT ARMORED WATER DIP PER CONTRACT SPECIFICATIONS AND DRAWINGS.

 RE-CONSTRUCT EXISTING ARMORED WATER DIP PER CONTRACT SPECIFICATIONS & DRAWINGS.

ALWAYS
THINK
SAFETY

REV. NO.	DESCRIPTION	DATE	APPROV.
	UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT MEDFORD DISTRICT - MEDFORD, OREGON		
VINE MAPLE TIMBER SALE ESTIMATE OF QUANTITIES			
DESIGNED: _____			
REVIEWED: _____			
APPROVED: _____			
DRAFTED BY: ELF		SCALE: NONE	
DATE: JULY 2012		SHEET: 1 OF 4	
DRAWING NO.: OR-11-9113.4-1			

EXHIBIT C3-A

SHEET 2 OF 4

ROAD NUMBER	FROM (M.P.)	TO (M.P.)	LENGTH (MILES)	CLEARING AND GRUBBING	EXCAVATION		CORRUGATED METAL PIPE								RENOVATION				AGGREGATE				SOIL STABILIZATION	ROADSIDE BRUSHING	ADDITIONAL CONSTRUCTION NOTES			
					ROCK	COMMON	SIZE				ELBOWS	DOWNSPOUT				RESHAPE EX. ROAD SURFACE	DITCH & CULVERT CLEANING	WATERDIPS	WATERBARS	GRID ROLLED	CRUSHED BASE ROCK	CRUSHED SURFACE ROCK				EXISTING STOCK PILE SPOT ROCK		
							18"	24"	30"	36"		FULL ROUND		HALF ROUND														
												18"	24"	18"	24"													
SPECIFICATION NO. ➡				200	300	300	400								500				800	1000	1200		1800	2100				
UNITS ➡	MP	MP	MILE	ACRE	CY	CY	LF	LF	LF	LF	EA	LF	LF	LF	LF	MILE	MILE	EA	EA	CY	CY	CY	CY	ACRE	MILE			
33-3E-29.01	0.00	0.52	0.52	1.56												0.52	0.52								0.52	RE-CONSTRUCT DECOM'D ROAD		
33-3E-30.02	0.00	0.46	0.46													0.46	0.46								0.46			
33-3E-30.01 (B2)	1.00	1.07	0.07													0.07	-					50			0.07			
33-3E-30.01 (B1)	0.57	1.00	0.43													0.43	-		5	631					0.43			
33-3E-30.01 (A)	0.00	0.57	0.57													0.57	-								0.57			
33-3E-19.00 (A2-B)	1.58	2.44	0.86													0.86	0.86								0.86			
33-2E-33.00 (C)	4.19	3.76	0.43													0.43	0.43								0.43	CONSTRUCT BARRICADE		
33-2E-25.02 (A-B)	0.00	0.60	0.60													0.60	0.60	1							0.60			
33-2E-25.03	0.00	0.31	0.31													0.31	0.31								0.31			
33-3E-30.00	0.00	0.55	0.55													0.55	0.55								0.55			
33-2E-25.00 (A)	0.00	0.66	0.66													0.66	-	5							0.66			
33-3E-31.06	0.00	0.47	0.47													0.47	0.47		4						0.47			
TOTALS		SEE EXHIBIT C3 - SHEET 4 OF 4 FOR QUANTITY TOTALS																										➡

RENOVATION NOTES

1. ROADS LISTED FOR SURFACE RESHAPING SHALL CONSIST OF BLADING, WATERING, & ROLLING PER CONTRACT SPECIFICATIONS & DRAWINGS.

2. DITCH/CULVERT CLEANING SHALL CONSIST OF DITCH BLADING AND RESHAPING, CLEARING DEBRIS, VEGETATION, SEDIMENT, ROCK AND ALL OTHER MATERIAL HINDERING THE FLOW OF RUNOFF PER CONTRACT SPECIFICATIONS & DRAWINGS.

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AGGREGATE GRADATION REQUIREMENTS

ITEM 900

SIZE	GRADATION
4 inch	A
3 inch	B
2 inch	C
1 1/2 inch	D

ITEM 1000

SIZE	GRADATION
3 inch	A,C,F
2 inch	B,D,G,H

ITEM 1200

SIZE	GRADATION
1 1/2 inch	C,C-1
1 inch	D,D-1
3/4 inch	E,E-1

ARMORED WATER DIP NOTES

① REMOVE EXISTING CULVERT AND CONSTRUCT ARMORED WATER DIP PER CONTRACT SPECIFICATIONS AND DRAWINGS.

② RE-CONSTRUCT EXISTING ARMORED WATER DIP PER CONTRACT SPECIFICATIONS & DRAWINGS.

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SAFETY

REV. NO.	DESCRIPTION	DATE	APPROV.
UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT MEDFORD DISTRICT - MEDFORD, OREGON			
VINE MAPLE TIMBER SALE ESTIMATE OF QUANTITIES			
DESIGNED: _____			
REVIEWED: _____			
APPROVED: _____			
DRAFTED BY: ELF		SCALE: NONE	
DATE: JULY 2012		SHEET: 2 OF 4	
DRAWING NO.: OR-11-9113.4-1			

EXHIBIT C3-A

SHEET 3 OF 4

ROAD NUMBER	FROM (M.P.)	TO (M.P.)	LENGTH (MILES)	CLEARING AND GRUBBING	EXCAVATION		CORRUGATED METAL PIPE								RENOVATION				AGGREGATE					SOIL STABILIZATION	ROADSIDE BRUSHING	ADDITIONAL CONSTRUCTION NOTES
					ROCK	COMMON	SIZE				ELBOWS	DOWNSPOUT				RESHAPE EX. ROAD SURFACE	DITCH & CULVERT CLEANING	WATERDIPS	WATERBARS	GRID ROLLED	CRUSHED BASE ROCK	CRUSHED SURFACE ROCK	EXISTING STOCK PILE SPOT ROCK			
							18"	24"	30"	36"		FULL ROUND		HALF ROUND												
												18"	24"	18"	24"											
SPECIFICATION NO. ➡				200	300	300	400								500				800	1000	1200		1800	2100		
UNITS ➡	MP	MP	MILE	ACRE	CY	CY	LF	LF	LF	LF	EA	LF	LF	LF	LF	MILE	MILE	EA	EA	CY	CY	CY	CY	ACRE	MILE	
33-3E-34.01 (A)	0.00	0.16	0.16													0.16	0.16								0.16	
33-3E-34.01 (B)	0.16	0.66	0.50													0.50	0.50								0.50	
34-3E-4.03 (C)	1.78	1.35	0.43													0.43	0.43								0.43	
34-3E-4.03 (B)	1.35	1.08	0.27	0.81												0.27	0.27		4						0.27	RE-CONSTRUCT DECOM'D ROAD
33-3E-33.00	0.00	0.34	0.34													0.34	0.34								0.34	
33-3E-33.01	0.00	0.70	0.70													0.70	0.70								0.70	
33-3E-34.01 (C)	1.44	1.36	0.08	0.24												0.08	0.08		2						0.08	RE-CONSTRUCT DECOM'D ROAD
34-3E-9.00 (A-B)	0.00	0.62	0.62													0.62	0.62					809			0.62	
34-3E-9.00 (C)	0.62	1.00	0.38													0.38	0.38					495			0.38	
34-3E-9.00 (D)	1.00	1.34	0.34													0.34	0.34								0.34	
34-3E-9.00 (E)	1.34	2.80	1.46													1.46	1.46								1.46	
34-3E-9.00 (F)	2.80	3.97	1.17													1.17	1.17								1.17	
33-3E-28.00 (E2)	4.06	4.61	0.55													0.55	0.55								0.55	
TOTALS		SEE EXHIBIT C3 - SHEET 4 OF 4 FOR QUANTITY TOTALS																								➡

RENOVATION NOTES

1. ROADS LISTED FOR SURFACE RESHAPING SHALL CONSIST OF BLADING, WATERING, & ROLLING PER CONTRACT SPECIFICATIONS & DRAWINGS.

2. DITCH/CULVERT CLEANING SHALL CONSIST OF DITCH BLADING AND RESHAPING, CLEARING DEBRIS, VEGETATION, SEDIMENT, ROCK AND ALL OTHER MATERIAL HINDERING THE FLOW OF RUNOFF PER CONTRACT SPECIFICATIONS & DRAWINGS.

*FOR INFORMATIONAL USE ONLY.
QUANTITIES SHOWN ARE NOT PAY ITEMS.

AGGREGATE GRADATION REQUIREMENTS

ITEM 900

SIZE	GRADATION
4 inch	A
3 inch	B
2 inch	C
1 1/2 inch	D

ITEM 1000

SIZE	GRADATION
3 inch	A,C,F
2 inch	B,D,G,H

ITEM 1200

SIZE	GRADATION
1 1/2 inch	C,C-1
1 inch	D,D-1
3/4 inch	E,E-1

ARMORED WATER DIP NOTES

① REMOVE EXISTING CULVERT AND CONSTRUCT ARMORED WATER DIP PER CONTRACT SPECIFICATIONS AND DRAWINGS.

② RE-CONSTRUCT EXISTING ARMORED WATER DIP PER CONTRACT SPECIFICATIONS & DRAWINGS.

ALWAYS
THINK
SAFETY

REV. NO.	DESCRIPTION	DATE	APPROV.
	UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT MEDFORD DISTRICT - MEDFORD, OREGON		
VINE MAPLE TIMBER SALE ESTIMATE OF QUANTITIES			
DESIGNED: _____			
REVIEWED: _____			
APPROVED: _____			
DRAFTED BY: ELF		SCALE: NONE	
DATE: JULY 2012		SHEET: 3 OF 4	
DRAWING NO.: OR-11-9113.4-1			

EXHIBIT C3-A

SHEET 4 OF 4

ROAD NUMBER	FROM (M.P.)	TO (M.P.)	LENGTH (MILES)	CLEARING AND GRUBBING	EXCAVATION		CORRUGATED METAL PIPE								RENOVATION				AGGREGATE					SOIL STABILIZATION	ROADSIDE BRUSHING	ADDITIONAL CONSTRUCTION NOTES
					ROCK	COMMON	SIZE				ELBOWS	DOWNSPOUT				RESHAPE EX. ROAD SURFACE	DITCH & CULVERT CLEANING	WATERDIPS	WATERBARS	GRID ROLLED	CRUSHED BASE ROCK	CRUSHED SURFACE ROCK	EXISTING STOCK PILE SPOT ROCK			
							18"	24"	30"	36"		FULL ROUND		HALF ROUND												
												18"	24"	18"	24"											
SPECIFICATION NO. ➡				200	300	300	400								500				800	1000	1200		1800	2100		
UNITS ➡	MP	MP	MILE	ACRE	CY	CY	LF	LF	LF	LF	EA	LF	LF	LF	LF	MILE	MILE	EA	EA	CY	CY	CY	CY	ACRE	MILE	
33-3E-31.07	0.00	0.62	0.62													0.62	0.62								0.62	
33-3E-32.00	0.00	0.70	0.70													0.70	0.70								0.70	
34-3E-3.00 (B)	1.72	1.74	0.02													0.02	0.02								0.02	
34-3E-5.05 (A)	0.00	0.07	0.07													0.07	0.07	1							0.07	
33-3E-32.01	0.00	0.61	0.61													0.61	0.61	4							0.61	
34-3E-5.01	0.00	0.31	0.31													0.31	0.31								0.31	
34-3E-9.02 (A)	1.20	1.78	0.58	1.80												0.58	0.58								0.58	RE-CONSTRUCT DECOM'D ROAD
34-3E-9.02 (B-C)	1.78	2.43	0.65													0.65	0.65								0.65	
34-3E-5.00	0.00	0.56	0.56													0.56	0.56								0.56	
34-3E-18.00 (C)	3.36	2.15	1.21													1.21	1.21								1.21	
TOTALS			29.44	4.41												29.44	26.75	21	20	631		5,617	50		29.44	

RENOVATION NOTES

- ROADS LISTED FOR SURFACE RESHAPING SHALL CONSIST OF BLADING, WATERING, & ROLLING PER CONTRACT SPECIFICATIONS & DRAWINGS.
- DITCH/CULVERT CLEANING SHALL CONSIST OF DITCH BLADING AND RESHAPING, CLEARING DEBRIS, VEGETATION, SEDIMENT, ROCK AND ALL OTHER MATERIAL HINDERING THE FLOW OF RUNOFF PER CONTRACT SPECIFICATIONS & DRAWINGS.

*FOR INFORMATIONAL USE ONLY.
QUANTITIES SHOWN ARE NOT PAY ITEMS.

AGGREGATE GRADATION REQUIREMENTS

ITEM 900

SIZE	GRADATION
4 inch	A
3 inch	B
2 inch	C
1 1/2 inch	D

ITEM 1000

SIZE	GRADATION
3 inch	A,C,F
2 inch	B,D,G,H

ITEM 1200

SIZE	GRADATION
1 1/2 inch	C,C-1
1 inch	D,D-1
3/4 inch	E,E-1

ARMORED WATER DIP NOTES

- REMOVE EXISTING CULVERT AND CONSTRUCT ARMORED WATER DIP PER CONTRACT SPECIFICATIONS AND DRAWINGS.
- RE-CONSTRUCT EXISTING ARMORED WATER DIP PER CONTRACT SPECIFICATIONS & DRAWINGS.

ALWAYS
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SAFETY

REV. NO.	DESCRIPTION	DATE	APPROV.
	UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT MEDFORD DISTRICT - MEDFORD, OREGON		
VINE MAPLE TIMBER SALE ESTIMATE OF QUANTITIES			
DESIGNED: _____			
REVIEWED: _____			
APPROVED: _____			
DRAFTED BY: ELF		SCALE: NONE	
DATE: JULY 2012		SHEET: 4 OF 4	
DRAWING NO.: OR-11-91113.4-1			

EXHIBIT C3-B

SHEET 1 OF 1

TEMP ROUTE NUMBER	FROM (M.P.)	TO (M.P.)	LENGTH (MILES)	CLEARING AND GRUBBING	EXCAVATION		CORRUGATED METAL PIPE								RENOVATION				AGGREGATE				SOIL STABILIZATION	ROADSIDE BRUSHING	ADDITIONAL CONSTRUCTION NOTES	
					ROCK	COMMON	SIZE				ELBOWS	DOWNSPOUT				RESHAPE EX. ROAD SURFACE	NEW TEMP ROUTE CONST.	RESHAPE EX. WATERBARS	CONST. NEW WATERBARS	GRID ROLLED	CRUSHED BASE ROCK	CRUSHED SURFACE ROCK				EXISTING STOCK PILE SPOT ROCK
							18"	24"	30"	36"		FULL ROUND		HALF ROUND												
												18"	24"	18"	24"											
SPECIFICATION NO. ➡				200	300	300	400								500				800	1000	1200		1800	2100		
UNITS ➡	MP	MP	MILE	ACRE	CY	CY	LF	LF	LF	LF	EA	LF	LF	LF	LF	MILE	MILE	EA	EA	CY	CY	CY	CY	ACRE	MILE	
24-1A	0.00	0.06	0.06	0.22												0.06	-		1					0.22		
24-1B	0.00	0.11	0.11	0.40												0.11	-		2					0.40		
29-1A	0.00	0.15	0.15	0.55												0.15	-	1	1					0.55		
29-1B	0.00	0.39	0.39	1.42												-	0.39		5					1.42		
30-1A	0.00	0.14	0.14	0.51												0.14	-		4					0.51		
30-1B	0.14	0.29	0.15	0.54												0.15	-		4					0.54		
31-1A	0.00	0.42	0.42	1.53												-	0.42		5					1.53		
31-1B	0.00	0.04	0.04	0.15												-	0.04		1					0.15		
32-1A	0.00	0.08	0.08	0.29												0.08	-		1					0.29		
32-1B	0.08	0.30	0.22	0.80												-	0.22		3					0.80		
6-1A	0.00	0.03	0.03	0.11												0.03	-		1					0.11		
6-1B	0.03	0.11	0.08	0.29												-	0.08		1					0.29		
8-1	0.00	0.30	0.30	1.09												-	0.30		4					1.09		
TOTALS			2.17	7.90												0.72	1.45	1	25					7.90		

RENOVATION NOTES

1. ROADS LISTED FOR SURFACE RESHAPING SHALL CONSIST OF BLADING, WATERING, & ROLLING PER CONTRACT SPECIFICATIONS & DRAWINGS.

2. DITCH/CULVERT CLEANING SHALL CONSIST OF DITCH BLADING AND RESHAPING, CLEARING DEBRIS, VEGETATION, SEDIMENT, ROCK AND ALL OTHER MATERIAL HINDERING THE FLOW OF RUNOFF PER CONTRACT SPECIFICATIONS & DRAWINGS.

*FOR INFORMATIONAL USE ONLY.
QUANTITIES SHOWN ARE NOT PAY ITEMS.

AGGREGATE GRADATION REQUIREMENTS

ITEM 900

SIZE	GRADATION
4 inch	A
3 inch	B
2 inch	C
1 1/2 inch	D

ITEM 1000

SIZE	GRADATION
3 inch	A,C,F
2 inch	B,D,G,H

ITEM 1200

SIZE	GRADATION
1 1/2 inch	C,C-1
1 inch	D,D-1
3/4 inch	E,E-1

ARMORED WATER DIP NOTES

① REMOVE EXISTING CULVERT AND CONSTRUCT ARMORED WATER DIP PER CONTRACT SPECIFICATIONS AND DRAWINGS.

② RE-CONSTRUCT EXISTING ARMORED WATER DIP PER CONTRACT SPECIFICATIONS & DRAWINGS.

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REV. NO.	DESCRIPTION	DATE	APPROV.
UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT MEDFORD DISTRICT - MEDFORD, OREGON			
VINE MAPLE TIMBER SALE ESTIMATE OF QUANTITIES			
DESIGNED: _____			
REVIEWED: _____			
APPROVED: _____			
DRAFTED BY: ELF		SCALE: NONE	
DATE: JULY 2012		SHEET: 1 OF 1	
DRAWING NO.: OR-11-91113.4-1			

EXHIBIT C4

SHEET 1 OF 4

ROAD NUMBER	FROM (M.P.)	TO (M.P.)	LENGTH (MILES)	TYPICAL STATION TYPE	ALIGNMENT	ROAD WIDTH ¹⁻³		GRADIENT		BRUSHING WIDTH				SURFACING ³								REMARKS	
					MAXIMUM DEGREE OF CURVE	SUBGRADE	DITCH	MAXIMUM FAVORABLE	MAXIMUM ADVERSE	BEYOND		EXISTING ROAD(S)		BASE COURSE				SURFACE COURSE					
										TOP CUT	TOE FILL	L	R	MINIMUM WIDTH	COMPACTION DEPTH	TYPE ²	GRADING	MINIMUM WIDTH	COMPACTION DEPTH	TYPE ²	GRADING		
33-3E-34.00 (A1-2)	0.00	1.82	1.82	6		20'	3'	-	-			4	4								D		
33-3E-34.00 (B1)	1.82	1.83	0.01	6		16'	3'	-	-			4	4								D		
33-3E-28.01 (A1-C)	0.00	3.04	3.04	6		16'	3'	-	-			4	4								D		
33-3E-19.00 (A1)	0.00	0.11	0.11	6		16'	3'	-	-			4	4								D		
33-3E-19.01 (A)	0.00	1.02	1.02	6		15'	3'	-	-			4	4								D		
33-3E-19.01 (B-C)	1.02	1.98	0.96	3		12'	-	-	-			4	4								NAT		
33-3E-28.00 (A-E1)	0.00	3.78	3.78	6		14'	3'	-	-			4	4								A		
33-3E-29.00 (A-C)	0.00	0.44	0.44	5		14'	3'	-	-			4	4								NAT		
33-3E-29.01	0.00	0.52	0.52	1		10'	-	-	-			4	4								NAT		DECOMMISSIONED
33-3E-30.02	0.00	0.46	0.46	6		14'	3'	-	-			4	4								D		
33-3E-30.01 (B2)	1.00	1.07	0.07	4		12'	-	-	-			4	4								D		
33-3E-30.01 (B1)	0.57	1.00	0.43	3		12'	-	-	-			4	4								NAT		
33-3E-30.01 (A)	0.00	0.57	0.57	4		12'	-	-	-			4	4								D		
33-3E-19.00 (A2-B)	1.58	2.44	0.86	6		16'	3'	-	-			4	4								D		

NOTES

1. EXTRA SUB-GRADE WIDTHS

TO EACH FILL SHOULDER, ADD 1 FOOT FOR FILLS OF 1-6 FEET AND 2 FEET FOR FILLS OVER 6 FEET. WIDEN THE INSIDE SHOULDER OF ALL CURVES AS FOLLOWS WHEN THE DEGREE OF CURVE EQUALS:

7-21 ADD 1 FT.
22-35 ADD 2 FT.
36-48 ADD 3 FT.
49-64 ADD 4 FT.
65-96 ADD 5 FT.

MATERIALS CUT SLOPE FILL SLOPE

COMMON 1/2 : 1 1 1/2 : 1

SOFT ROCK & SHALE 1/2 : 1 1 1/2 : 1

SOLID ROCK 1/2 : 1 angle of repose

2. SURFACING TYPES

- A. PIT RUN ROCK
- B. GRID ROLLED ROCK MATERIAL
- C. SCREENED ROCK MATERIAL
- D. CRUSHED ROCK MATERIAL

3. TURNOUTS

- A. WIDTH 10 FT. IN ADDITION TO SUB-GRADE WIDTH, OR AS SHOWN ON THE PLANS.
- B. LOCATED APPROXIMATELY, AS SHOWN ON THE ROAD PLANS.
- C. INVISIBLE AND NOT MORE THAN 750 FT. APART.

4. SURFACING

TURNOUTS, CURVE WIDENING, AND ROAD APPROACH APRONS SHALL BE SURFACED.

5. CLEARING WIDTH

SEE SUBSECTION 2100

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REV. NO.	DESCRIPTION	DATE	APPROV.
UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT MEDFORD DISTRICT - MEDFORD, OREGON			
VINE MAPLE TIMBER SALE SPECIFICATION SHEET			
DESIGNED: _____			
REVIEWED: _____			
APPROVED: _____			
DRAFTED BY: ELF		SCALE: NONE	
DATE: JULY 2012		SHEET: 1 OF 4	
DRAWING NO.: OR-11-9113.4-1			

EXHIBIT C4

SHEET 2 OF 4

ROAD NUMBER	FROM (M.P.)	TO (M.P.)	LENGTH (MILES)	TYPICAL STATION TYPE	ALIGNMENT	ROAD WIDTH ¹⁻³		GRADIENT		BRUSHING WIDTH				SURFACING ³								REMARKS	
					MAXIMUM DEGREE OF CURVE	SUBGRADE	DITCH	MAXIMUM FAVORABLE	MAXIMUM ADVERSE	BEYOND		EXISTING ROAD(S)		BASE COURSE				SURFACE COURSE					
										TOP CUT	TOE FILL	L	R	MINIMUM WIDTH	COMPACTION DEPTH	TYPE ²	GRADING	MINIMUM WIDTH	COMPACTION DEPTH	TYPE ²	GRADING		
33-2E-33.00 (C)	4.19	3.76	0.43	6		16'	3'	-	-			4	4								D		
33-2E-25.02 (A-B)	0.00	0.60	0.60	6		14'	3'	-	-			4	4								D		
33-2E-25.03	0.00	0.31	0.31	6		16'	2'	-	-			4	4								D		
33-3E-30.00	0.00	0.55	0.55	6		16'	2'	-	-			4	4								D		
33-2E-25.00 (A)	0.00	0.66	0.66	3		14'	-	-	-			4	4								NAT		
33-3E-31.06	0.00	0.47	0.47	5		14'	3'	-	-			4	4								NAT		
33-3E-34.01 (A-B)	0.00	0.66	0.66	6		15'	2'	-	-			4	4								D		
34-3E-4.03 (C)	1.78	1.35	0.43	6		14'	2'	-	-			4	4								D		
34-3E-4.03 (B)	1.35	1.08	0.27	5		14'	2'	-	-			4	4								NAT		DECOMMISSIONED
33-3E-33.00	0.00	0.34	0.34	6		14'	2'	-	-			4	4								D		
33-3E-33.01	0.00	0.70	0.70	6		14'	2'	-	-			4	4								D		
33-3E-34.01 (C)	1.44	1.36	0.08	5		15'	2'	-	-			4	4								NAT		DECOMMISSIONED
34-3E-9.00 (A-F)	0.00	3.97	3.97	6		16'	3'	-	-			4	4								D		
33-3E-28.00 (E2)	4.06	4.61	0.55	6		14'	3'	-	-			4	4								D		

NOTES

1. EXTRA SUB-GRADE WIDTHS

TO EACH FILL SHOULDER, ADD 1 FOOT FOR FILLS OF 1-6 FEET AND 2 FEET FOR FILLS OVER 6 FEET. WIDEN THE INSIDE SHOULDER OF ALL CURVES AS FOLLOWS WHEN THE DEGREE OF CURVE EQUALS:

7-21 ADD 1 FT.
22-35 ADD 2 FT.
36-48 ADD 3 FT.
49-64 ADD 4 FT.
65-96 ADD 5 FT.

MATERIALS CUT SLOPE FILL SLOPE

COMMON 1/2 : 1 1 1/2 : 1

SOFT ROCK & SHALE 1/2 : 1 1 1/2 : 1

SOLID ROCK 1/2 : 1 angle of repose

2. SURFACING TYPES

- A. PIT RUN ROCK
- B. GRID ROLLED ROCK MATERIAL
- C. SCREENED ROCK MATERIAL
- D. CRUSHED ROCK MATERIAL

3. TURNOUTS

- A. WIDTH 10 FT. IN ADDITION TO SUB-GRADE WIDTH, OR AS SHOWN ON THE PLANS.
- B. LOCATED APPROXIMATELY, AS SHOWN ON THE ROAD PLANS.
- C. INVISIBLE AND NOT MORE THAN 750 FT. APART.

4. SURFACING

TURNOUTS, CURVE WIDENING, AND ROAD APPROACH APRONS SHALL BE SURFACED.

5. CLEARING WIDTH

SEE SUBSECTION 2100

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REV. NO.	DESCRIPTION	DATE	APPROV.
UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT MEDFORD DISTRICT - MEDFORD, OREGON			
VINE MAPLE TIMBER SALE SPECIFICATION SHEET			
DESIGNED: _____			
REVIEWED: _____			
APPROVED: _____			
DRAFTED BY: ELF		SCALE: NONE	
DATE: JULY 2012		SHEET: 2 OF 4	
DRAWING NO.: OR-11-9113.4-1			

EXHIBIT C4

SHEET 3 OF 4

ROAD NUMBER	FROM (M.P.)	TO (M.P.)	LENGTH (MILES)	TYPICAL STATION TYPE	ALIGNMENT	ROAD WIDTH ¹⁻³		GRADIENT		BRUSHING WIDTH				SURFACING ³								REMARKS
					MAXIMUM DEGREE OF CURVE	SUBGRADE	DITCH	MAXIMUM FAVORABLE	MAXIMUM ADVERSE	BEYOND		EXISTING ROAD(S)		BASE COURSE				SURFACE COURSE				
										TOP CUT	TOE FILL	L	R	MINIMUM WIDTH	COMPACTION DEPTH	TYPE ²	GRADING	MINIMUM WIDTH	COMPACTION DEPTH	TYPE ²	GRADING	
33-3E-31.07	0.00	0.62	0.62	6		14'	3'	-	-			4	4							A		
33-3E-32.00	0.00	0.70	0.70	6		14'	3'	-	-			4	4							A		
34-3E-3.00 (B)	1.74	1.72	0.02	6		16'	3'	-	-			4	4							D		
34-3E-5.05 (A)	0.00	0.07	0.07	1		16'	-	-	-			4	4							NAT		
33-3E-32.01	0.00	0.61	0.61	5		14'	3'	-	-			4	4							NAT		
34-3E-5.01	0.00	0.31	0.31	6		16'	3'	-	-			4	4							D		
34-3E-9.02 (A)	1.20	1.78	0.58	5		16'	3'	-	-			4	4							NAT		DECOMMISSIONED
34-3E-9.02 (B)	1.78	2.13	0.35	6		16'	3'	-	-			4	4							A		
34-3E-9.02 (C)	2.13	2.43	0.30	5		15'	2'	-	-			4	4							NAT		
34-3E-5.00	0.00	0.56	0.56	6		16'	3'	-	-			4	4							D		
34-3E-18.00 (C)	3.36	2.15	1.21	2		17'	-	-	-			4	4							A		

NOTES

1. EXTRA SUB-GRADE WIDTHS

TO EACH FILL SHOULDER, ADD 1 FOOT FOR FILLS OF 1-6 FEET AND 2 FEET FOR FILLS OVER 6 FEET. WIDEN THE INSIDE SHOULDER OF ALL CURVES AS FOLLOWS WHEN THE DEGREE OF CURVE EQUALS:

7-21 ADD 1 FT.
22-35 ADD 2 FT.
36-48 ADD 3 FT.
49-64 ADD 4 FT.
65-96 ADD 5 FT.

MATERIALS CUT SLOPE FILL SLOPE

COMMON 1/2 : 1 1 1/2 : 1

SOFT ROCK & SHALE 1/2 : 1 1 1/2 : 1

SOLID ROCK 1/2 : 1 angle of repose

2. SURFACING TYPES

- A. PIT RUN ROCK
- B. GRID ROLLED ROCK MATERIAL
- C. SCREENED ROCK MATERIAL
- D. CRUSHED ROCK MATERIAL

3. TURNOUTS

- A. WIDTH 10 FT. IN ADDITION TO SUB-GRADE WIDTH, OR AS SHOWN ON THE PLANS.
- B. LOCATED APPROXIMATELY, AS SHOWN ON THE ROAD PLANS.
- C. INVISIBLE AND NOT MORE THAN 750 FT. APART.

4. SURFACING

TURNOUTS, CURVE WIDENING, AND ROAD APPROACH APRONS SHALL BE SURFACED.

5. CLEARING WIDTH

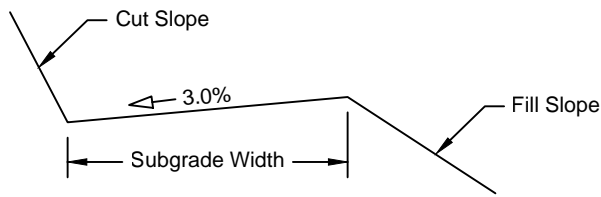
SEE SUBSECTION 2100

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REV. NO.	DESCRIPTION	DATE	APPROV.
UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT MEDFORD DISTRICT - MEDFORD, OREGON			
VINE MAPLE TIMBER SALE SPECIFICATION SHEET			
DESIGNED: _____			
REVIEWED: _____			
APPROVED: _____			
DRAFTED BY: ELF		SCALE: NONE	
DATE: JULY 2012		SHEET: 3 OF 4	
DRAWING NO.: OR-11-9113.4-1			

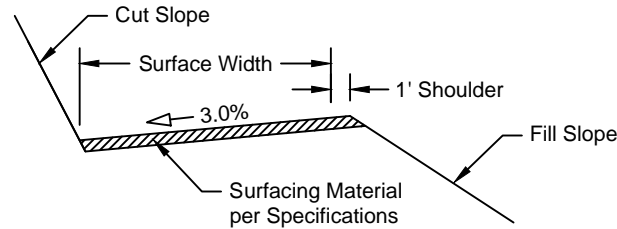
EXHIBIT C4

SHEET 4 OF 4



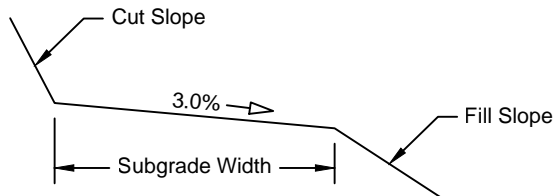
TYPICAL GRADING SECTION

TYPE 1



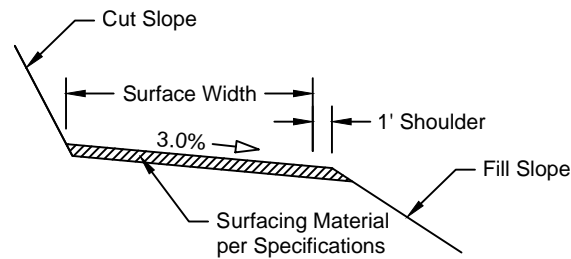
TYPICAL SURFACING SECTION

TYPE 2



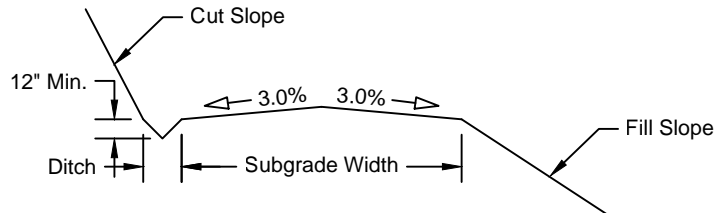
TYPICAL GRADING SECTION

TYPE 3



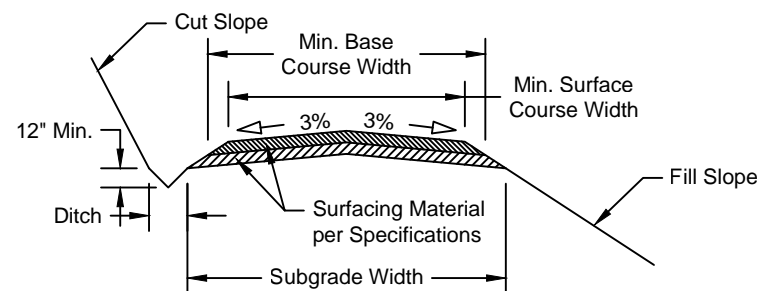
TYPICAL SURFACING SECTION

TYPE 4



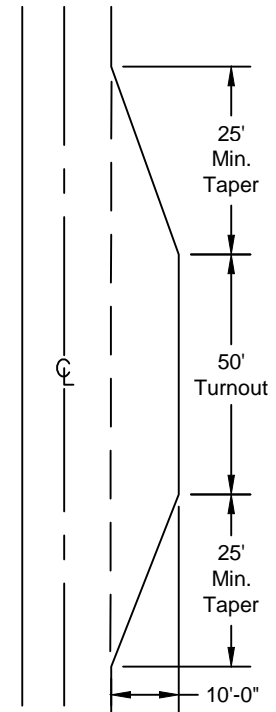
TYPICAL GRADING SECTION

TYPE 5



TYPICAL SURFACING SECTION

TYPE 6

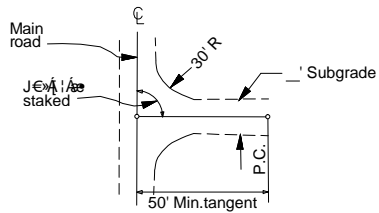


TYPICAL TURNOUT
PLAN VIEW

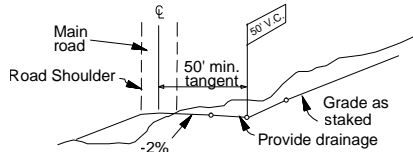
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REV. NO.	DESCRIPTION	DATE	APPROV.
UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT MEDFORD DISTRICT - MEDFORD, OREGON			
VINE MAPLE TIMBER SALE SPECIFICATION SHEET			
DESIGNED: _____			
REVIEWED: _____			
APPROVED: _____			
DRAFTED BY: ELF		SCALE: NONE	
DATE: JULY 2012		SHEET: 4 OF 4	
DRAWING NO.: OR-11-9113.4-1			

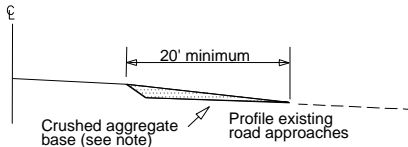
TYPICAL ROAD APPROACHES



PLAN



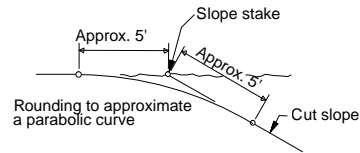
PROFILE



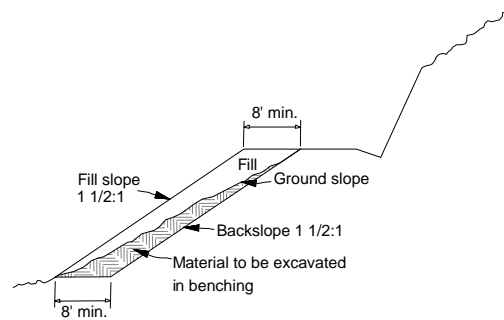
TYPICAL SURFACING SECTION

NOTES:

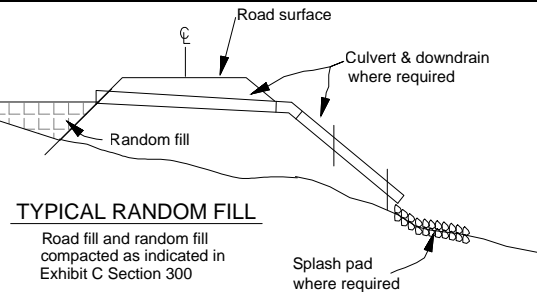
1. The profile of the existing approach roads shall be tapered to meet the shoulder line of the main roadway and shall receive the same wearing surface.
2. The crushed aggregate base shall be of the same gradation as used in the adjacent roadbed.
3. Approaches shall be finished with the same treatment as shown for the adjacent roadbed.



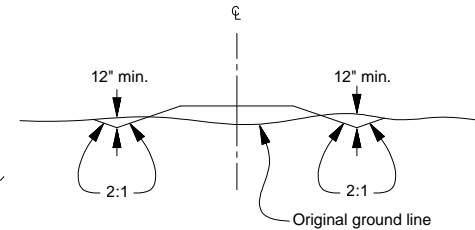
CUT SLOPE ROUNDING



SPECIAL COMPACTION
TYPICAL BENCHING SECTION



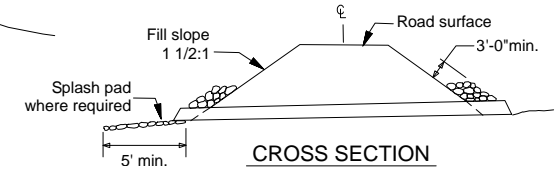
TYPICAL RANDOM FILL



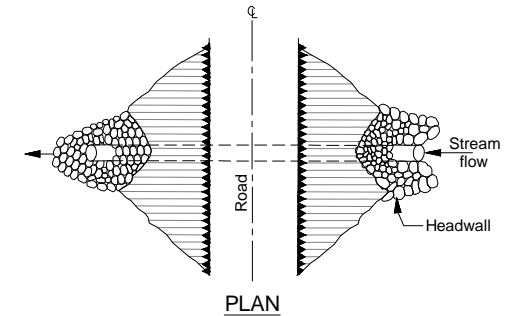
TYPICAL ROAD SECTION
FOR TURNPIKE CONSTRUCTION

EXHIBIT C5 SHEET 1 OF 1

RIPRAP AT CULVERTS



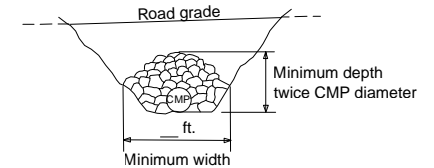
CROSS SECTION



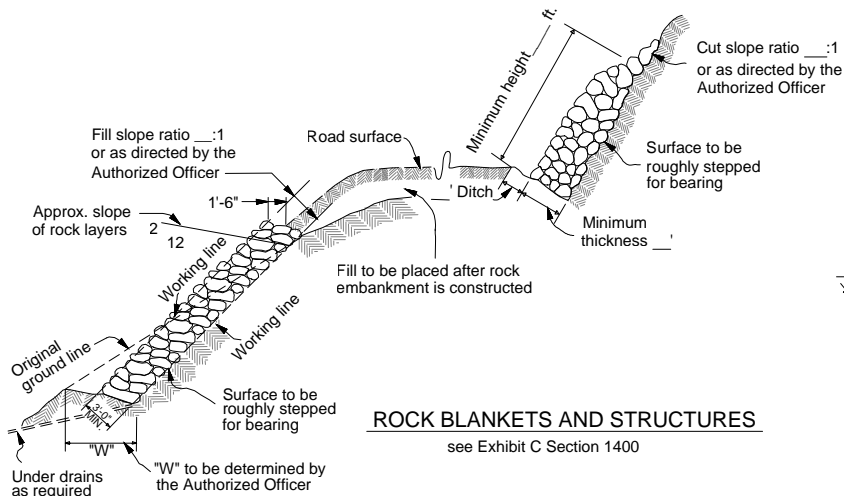
PLAN

NOTES: RIPRAP AT CULVERTS

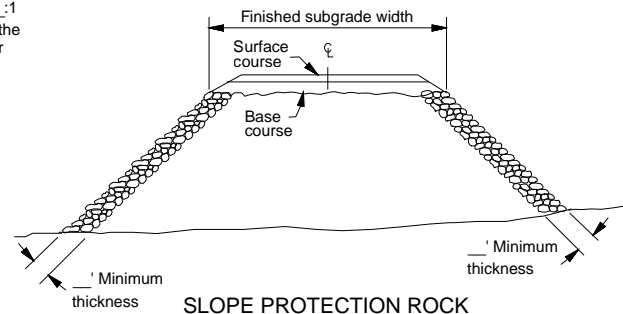
1. Riprap shall be placed in such a manner that it will not damage the culvert.
2. Trenching will be done as required by the Authorized Officer.
3. Minimum depth of splash pads shall be 1FT.
4. Minimum quantity shall be 1CY per culvert.
5. Riprap shall be placed before October 1st of the year the culvert is installed.



ELEVATION



ROCK BLANKETS AND STRUCTURES
see Exhibit C Section 1400



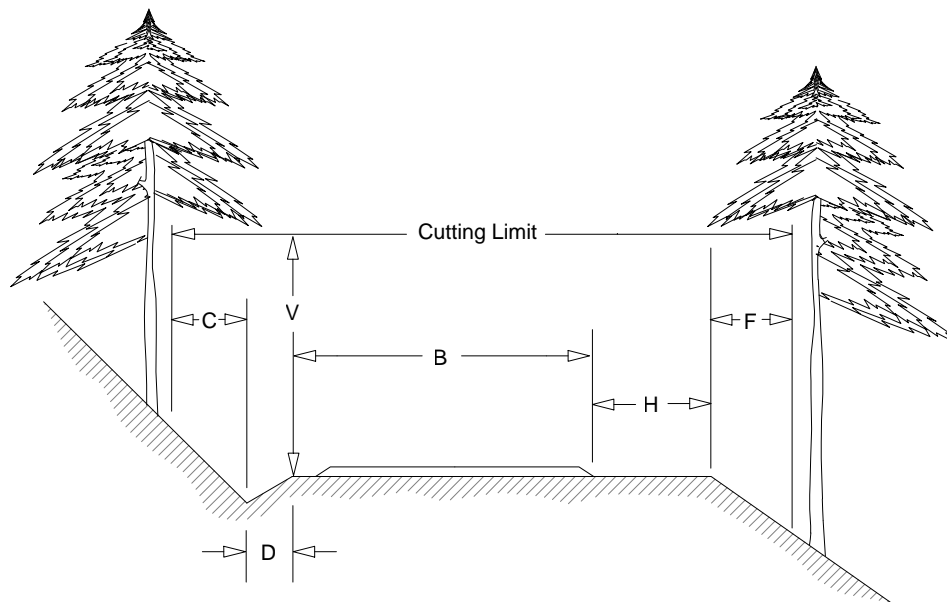
SLOPE PROTECTION ROCK
see Exhibit C Section 1400

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REV. NO.	DESCRIPTION	DATE	APPROV.
UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT MEDFORD DISTRICT - MEDFORD, OREGON			
VINE MAPLE TIMBER SALE TYPICAL ROAD DATA			
DESIGNED: _____			
REVIEWED: _____			
APPROVED: _____			
DRAFTED BY: ELF		SCALE: NONE	
DATE: JULY 2012		SHEET: 1 OF 1	
DRAWING NO.: OR-11-9113.4-4			

EXHIBIT C6

SHEET 1 OF 1



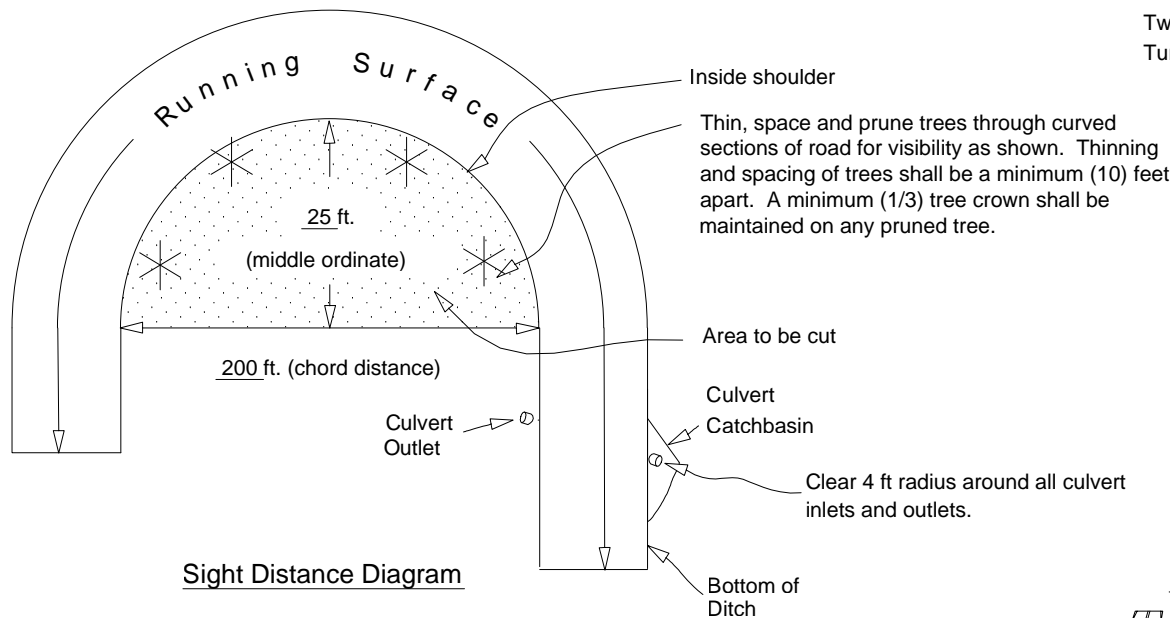
Brushing Diagram

$$\text{Cutting Limit} = C + D + B + H + F$$

- B = Basic Traveled Way (includes turnouts)
Width shall be determined by the PI
- C = 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 traveled way and outside shoulder (does not include turnout widths)
- F = Distance to be brushed on fill slope beyond outside shoulder
(F = 4 when H is 4 ft or less)
(F = 0 when H is greater than 4 ft)
- V = 14 ft - Height of vertical cutting limit

Typical Basic Traveled Way 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



Sight Distance Diagram

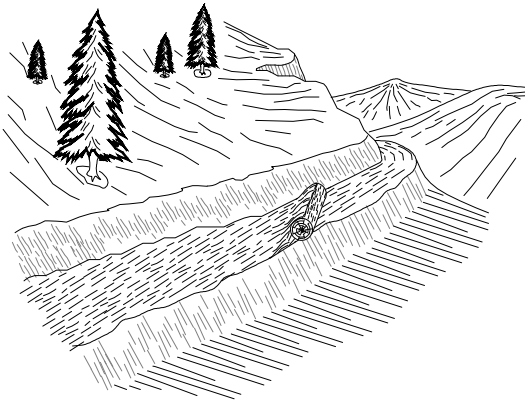
All distances shown are horizontal except for V

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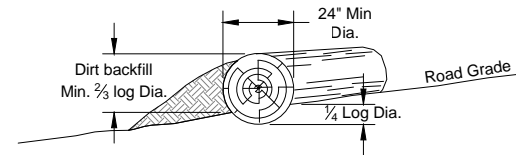
REV. NO.	DESCRIPTION	DATE	APPROV.
UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT MEDFORD DISTRICT - MEDFORD, OREGON			
VINE MAPLE TIMBER SALE ROADSIDE BRUSHING DETAIL			
DESIGNED: _____			
REVIEWED: _____			
APPROVED: _____			
DRAFTED BY: ELF		SCALE: NONE	
DATE: JULY 2012		SHEET: 1 OF 1	
DRAWING NO.: OR-11-9113.4-4			

EXHIBIT C7

SHEET 1 OF 1



LOG BARRICADE

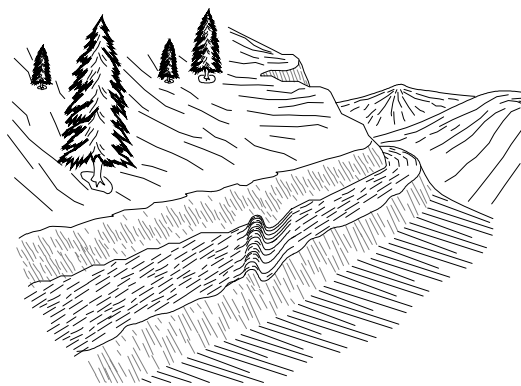
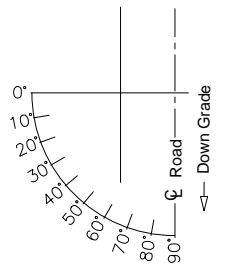


1. Log barricade shall be constructed as shown above.
2. Exact location will be flagged by the authorized officer prior to construction.
3. All barricades shall be skewed 30 degrees.
4. The length shall be sufficient to extend from the cut bank to the fill slope.
5. The minimum small end diameter of the log barricade shall be 24".

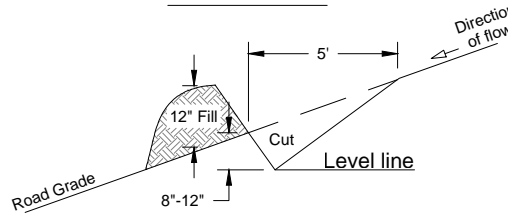
BARRICADE LOCATION

ROAD NUMBER	M.P. / STA.

SKUEW DIAGRAM



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.
4. Upon completion of skidding logs, for the logging season, each skid road will have cross drainage constructed as shown above.
5. Prior to _____, each fire trail will have cross drainage constructed as shown above.

WATER DIP/BAR SPACING*

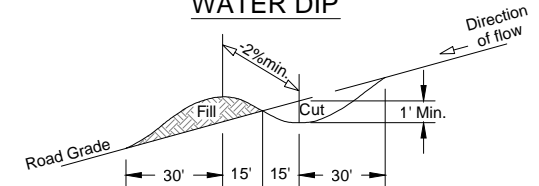
ROAD GRADE	LOAM OR CLAY LOAM	DECOMPOSED GRANITE
%	FEET	FEET
4-6	400	300
7-9	300**	200**
10-14	200	150
15-20	150	90
21-40	90	50
41-60	50	25

* Distances are maximum.

** On grades in excess of 10%, construct water bars.



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 passenger type vehicles.
5. Rock outlet of water dip on fill slope. Rock will be placed from outlet to natural ground a minimum of ____ ft. wide by ____ ft deep.

REV. NO.	DESCRIPTION	DATE	APPROV.
UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT MEDFORD DISTRICT - MEDFORD, OREGON			
VINE MAPLE TIMBER SALE DRAINAGE & EROSION CONTROL INSTALLATION			
DESIGNED: _____			
REVIEWED: _____			
APPROVED: _____			
DRAFTED BY: ELF		SCALE: NONE	
DATE: JULY 2012		SHEET: 1 OF 1	
DRAWING NO.: OR-11-9113.4-4			

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TYPICAL ARMORED WATER DIP CONSTRUCTION DETAIL

EXHIBIT C8 SHEET 1 OF 1

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 AND SUBGRADE OF ARMORED WATERDIP.
- 7) SEE ROAD RENOVATION WORKLIST FOR WATER DIPS TO BE ARMORED.
- 8) EACH DIP SHALL BE REINFORCED WITH 40 CUBIC YARDS OF 3" MINUS ROCK, ON ROADWAY AND PIT RUN AT OUTFALL.

LEGEND



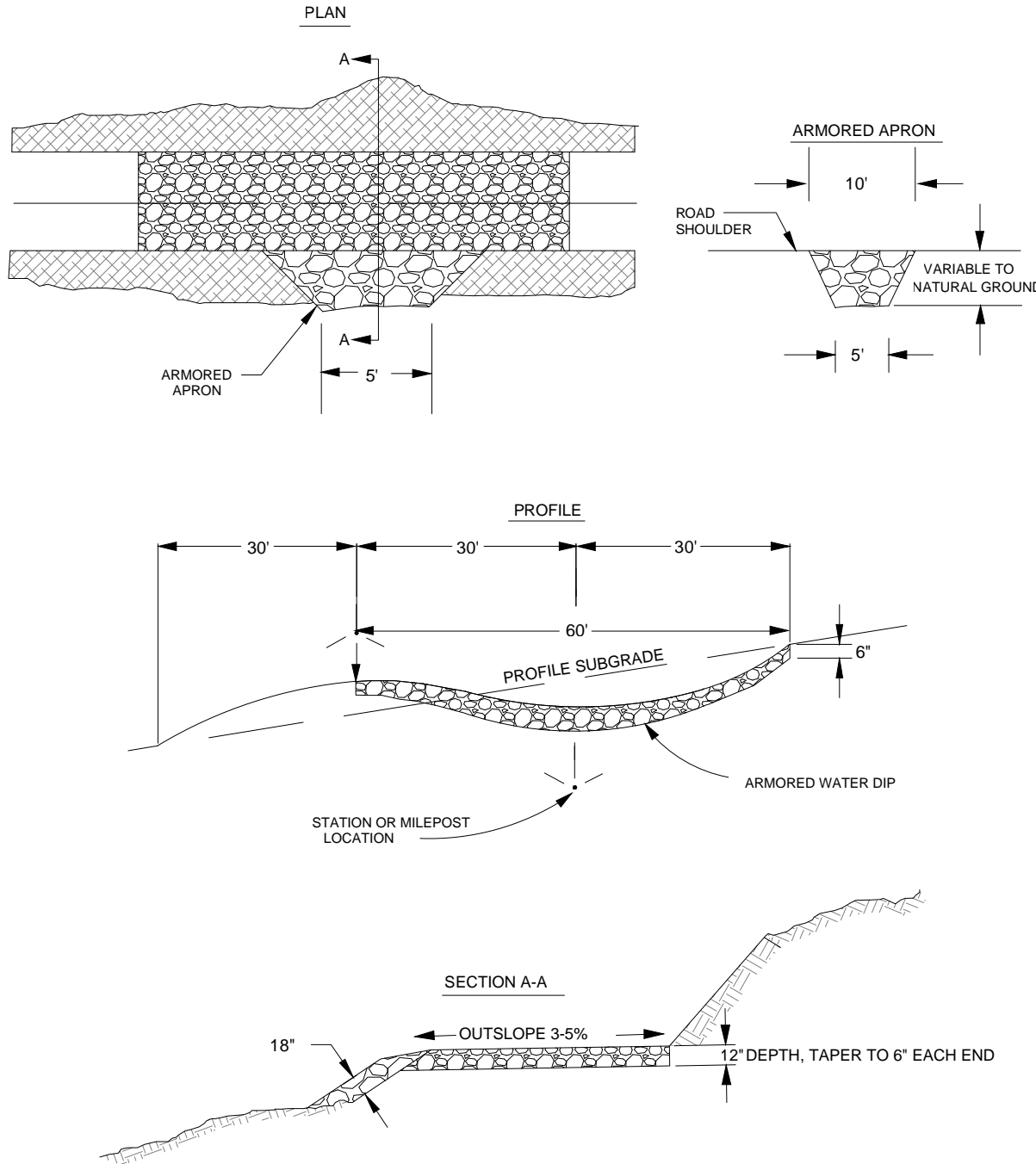
CUT/FILL SLOPES



SUBGRADE ARMOR MATERIAL
(3" minus)



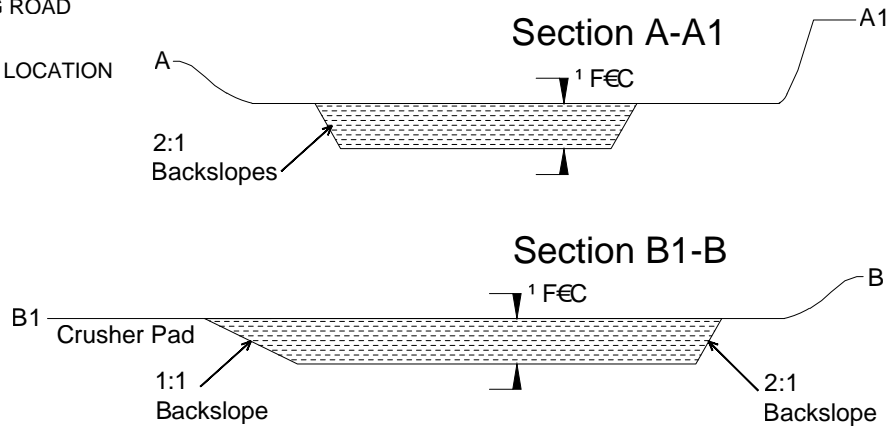
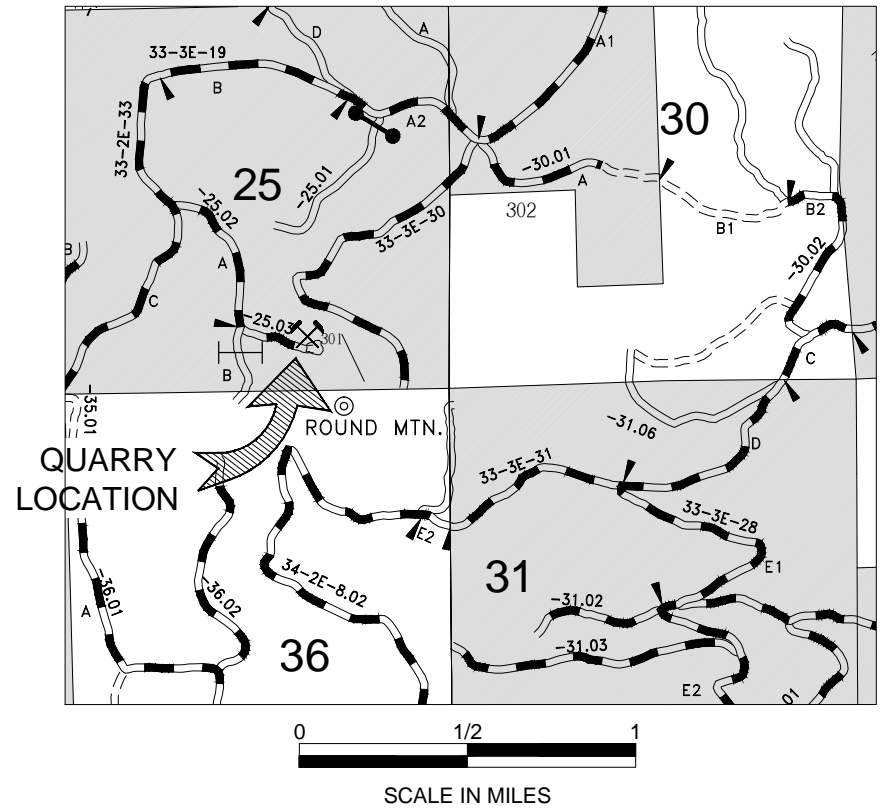
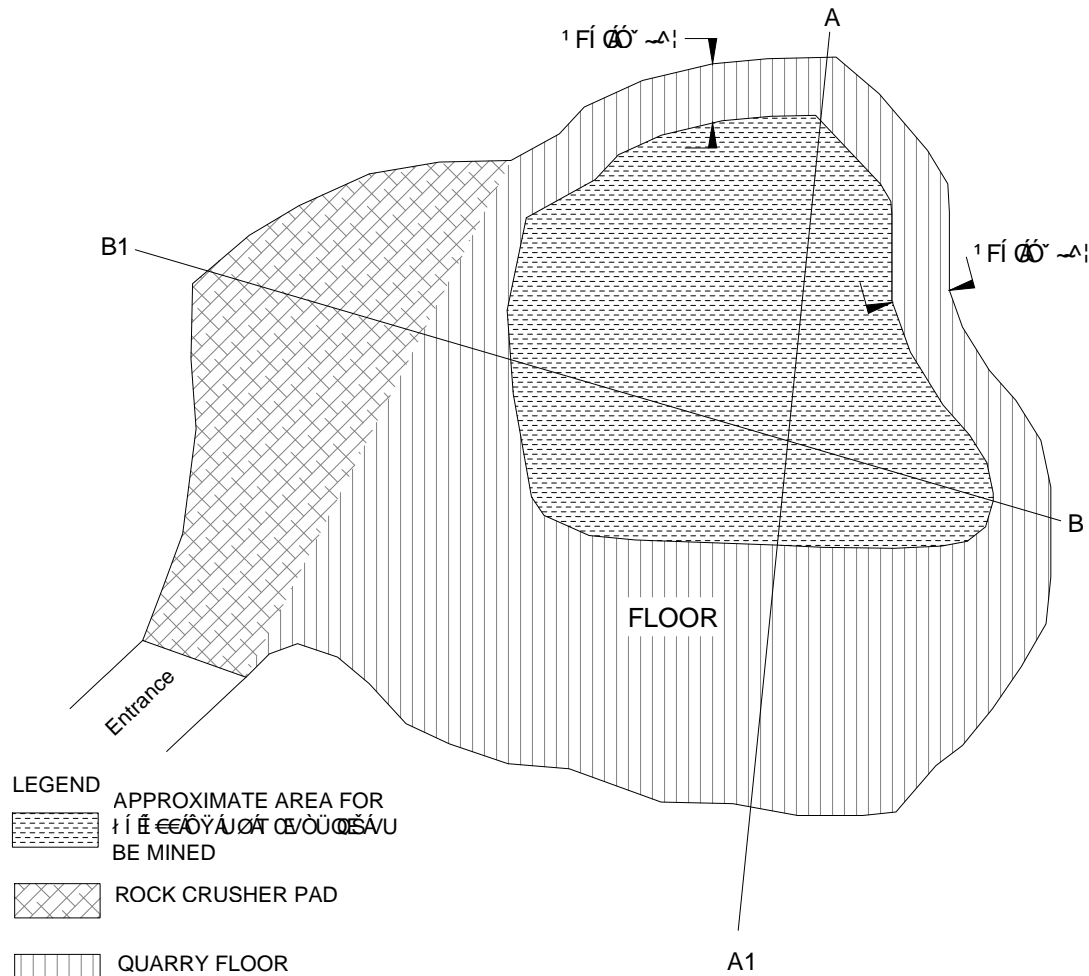
FILL SLOPE ARMOR MATERIAL 12" MINUS
OR OTHER APPROVED MATERIAL.



REV. NO.	DESCRIPTION	DATE	APPROV.
UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT MEDFORD DISTRICT - MEDFORD, OREGON			
VINE MAPLE TIMBER SALE ARMORED WATER DIP			
DESIGNED: _____			
REVIEWED: _____			
APPROVED: _____			
DRAFTED BY: ELF		SCALE: NONE	
DATE: JULY 2012		SHEET: 1 OF 1	
DRAWING NO.: OR-11-9113.4-1			

EXHIBIT C9

SHEET 1 OF 1



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REV. NO.	DESCRIPTION	DATE	APPROV.
UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT MEDFORD DISTRICT - MEDFORD, OREGON			
VINE MAPLE TIMBER SALE TIMBER SALE QUARRY DEVELOPMENT PLAN			
DESIGNED: _____			
REVIEWED: _____			
APPROVED: _____			
DRAFTED BY: BGS		SCALE: AS SHOWN	
DATE: JULY 2012		SHEET: 1 OF 1	
DRAWING NO.: OR-11-9113.4-1			

ROAD RENOVATION WORK LIST

Definitions:

ASC – Aggregate Surface Course
AWD – Armored Water Dip
BST – Bituminous Surface Treatment
CMP – Corrugated Metal Pipe
CY – Cubic Yards

DO(R)(L) – Ditch Out (Right)(Left)
Jct. – Junction
PRR – Pit Run Rock
GRR – Grid Rolled Rock
NAT – Natural Surface Roads

This work list consists of work to be performed to the road *prior* to its use. All work shall comply with the contract specifications and drawings.

Road 33-3E-34.00 (Medco A)

Segment A1 (Private) ASC

<u>MP</u>	<u>Remarks</u>
0.00	Jct. Butte Falls/ Prospect road. Begin road renovation which includes brushing; blading, watering, rolling and reshaping road surface; cleaning ditch lines; cleaning or enlarging all existing culvert catch basins; clearing all existing culvert inlets and outlets; and flushing all existing culverts of debris.
0.17	Jct. 33-3E-34.01 (left).
1.12	Jct. 33-3E-28.02 (left). End Segment.

Segment A2 (Private) ASC

<u>MP</u>	<u>Remarks</u>
1.12	Jct. 33-3E-28.02 (left). Continue road renovation.
1.82	Jct. 33-3E-28.00 (left). End Segment.

Segment B1 (Private) ASC

<u>MP</u>	<u>Remarks</u>
1.82	Jct. 33-3E-28.00 (left). Continue road renovation.
1.83	Jct 33-3E-28.01, Medco B Road (left). End road renovation.

Road 33-3E-28.01 (Medco B/ 28.01)

Segment A1 (Private) ASC

<u>MP</u>	<u>Remarks</u>
0.00	Jct. 33-3E-34.00. Begin road renovation which includes brushing; blading, watering, rolling and reshaping road surface; cleaning ditch lines; cleaning or enlarging all existing culvert catch basins; clearing all existing culvert inlets and outlets; and flushing all existing culverts of debris.
1.07	Jct. unnumbered road (left).
1.23	Jct. jeep road (left).
1.78	Jct. unnumbered road (right).
1.81	Jct. unnumbered road (left).
1.94	Helo pond (right).
2.05	Springs (left).
2.25	Jct. 33-3E-20.00 (right). End Segment.

Segment A2 (Private) ASC

<u>MP</u>	<u>Remarks</u>
2.25	Continue road renovation.
2.31	Property line. End Segment.

Segment B ASC

<u>MP</u>	<u>Remarks</u>
2.31	Continue road renovation.
2.92	Jct. 33-3E-19.02 (right). End Segment.

Segment C ASC

<u>MP</u>	<u>Remarks</u>
2.92	Continue road renovation.
3.04	Jct. 33-3E-19.00 (straight ahead) and Jct. 33-3E-19.03 (left). End road renovation.

Road 33-3E-19.00 (Medco B/ 19.00)

Segment A1 ASC

<u>MP</u>	<u>Remarks</u>
0.00	Jct. 33-3E-28.01. Begin road renovation which includes brushing; blading, watering, rolling and reshaping road surface; cleaning ditch lines; cleaning or enlarging all existing culvert catch basins; clearing all existing culvert inlets and outlets; and flushing all existing culverts of debris.
0.11	Jct. 33-3E-19.01 (right). End road renovation.

Road 33-3E-19.01 (Powerhouse View)

Segment A ASC

<u>MP</u>	<u>Remarks</u>
0.00	Jct. 33-3E-19.00. Begin road renovation which includes brushing; blading, watering, rolling and reshaping road surface; reshaping existing waterdips; cleaning ditch lines; cleaning or enlarging all existing culvert catch basins; clearing all existing culvert inlets and outlets; and flushing all existing culverts of debris.
0.43	Existing waterdip.
1.02	End Segment.

Segment B (Private) NAT

<u>MP</u>	<u>Remarks</u>
1.02	Continue road renovation.
1.08	Existing waterdip.
1.14	Existing waterdip.
1.20	Existing waterdip.
1.26	Property line.
1.29	Existing waterdip.
1.34	Jct. unnumbered road (left).
1.41	Existing waterdip.
1.52	Existing waterdip.
1.57	Existing waterdip.
1.71	Existing waterbar.
1.74	Existing waterbar.
1.77	Existing waterbar.
1.81	Existing waterbar.
1.84	Existing waterbar.
1.86	Existing turn around.
1.91	Temporarily open existing barricade for use of Segment C. End Segment.

Segment C (Private) NAT

<u>MP</u>	<u>Remarks</u>
1.91	Continue road renovation. Reconstruct barricade after use.
1.93	Construct water bar.

1.94 Jct. Temp Route 24-1A, left.
 1.97 Construct water bar.
 1.98 Property line. End road renovation.

Road 33-3E-28.00 (Divide / Round Mt.)

Segment A (Private) PRR

<u>MP</u>	<u>Remarks</u>
0.00	Jct. 33-3E-34.00. Begin road renovation which includes brushing; blading, watering, rolling and reshaping road surface; reshaping existing waterdips; cleaning ditch lines; cleaning or enlarging all existing culvert catch basins; clearing all existing culvert inlets and outlets; and flushing all existing culverts of debris. Furnish, place, water, and roll (compact) a 4" lift of 1-1/2" minus crushed rock material per contract specifications and drawings.
0.26	End Segment.

Segment B PRR

<u>MP</u>	<u>Remarks</u>
0.26	Continue road renovations and surfacing.
1.45	Jct. 33-3E-29.00 (right).
1.75	Existing pump chance (left).
2.40	Jct. Temp Route 29-1 (right).
2.42	Property line. End Segment.

Segment C (Private) PRR

<u>MP</u>	<u>Remarks</u>
2.42	Continue road renovations and surfacing.
2.51	Jct. 33-3E-30.02 (right).
2.63	Jct. 33-3E-31.06 (right).
2.65	Property line. End Segment.

Segment D PRR

<u>MP</u>	<u>Remarks</u>
2.65	Continue road renovations and surfacing.
3.32	Jct. 33-3E-31.00 (right). End Segment.

Segment E1 PRR

<u>MP</u>	<u>Remarks</u>
3.32	Jct. 33-3E-31.00 (right). Continue road renovations and surfacing.
3.78	Jct. Temp Route 31-1A (left). End Segment. End road renovations and surfacing.

Road 33-3E-29.00 (Blue Goose Springs)

Segment A NAT

<u>MP</u>	<u>Remarks</u>
0.00	Jct. 33-3E-28.00. Begin road renovation which includes brushing; blading, watering, rolling and reshaping road surface; reshaping existing waterdips; cleaning ditch lines; cleaning or enlarging all existing culvert catch basins; clearing all existing culvert inlets and outlets; and flushing all existing culverts of debris.
0.07	Existing AWD.
0.11	Property line, K tag (left, right). End Segment.

Segment B (Private) NAT

<u>MP</u>	<u>Remarks</u>
0.11	Property line, K tag (left, right). Continue road renovation.
0.21	Existing AWD.
0.41	property line, K tag (left). End Segment.

Segment C NAT

<u>MP</u>	<u>Remarks</u>
0.41	Property line, K tag (left). Continue road renovation.
0.42	Old guard rail barrier. Temporarily open existing barricade for use of Segment C and reconstruct after use.
0.44	Jct. 33-3E-29.01 (left). End road renovation.

Road 33-3E-29.01 (Reinecke Burn)

NAT/Decommissioned.

<u>MP</u>	<u>Remarks</u>
0.00	Jct. 33-3E-29.00. Begin reconstruction of decommissioned road and begin road renovation which includes brushing; blading, watering, rolling and reshaping road surface; reshaping existing waterdips; cleaning ditch lines; cleaning or enlarging all existing culvert catch basins; clearing all existing culvert inlets and outlets; and flushing all existing culverts of debris. Decommission road and waterbar after use.
0.02	Temporarily open existing barricade for use of road and reconstruct barricade after use.
0.03	Existing waterbar/DOR.
0.06	Existing waterbar/DOR.
0.10	Existing waterbar/DOR.
0.12	Existing waterbar/DOR.
0.15	Existing waterbar/DOR.
0.20	Existing waterbar/DOR.
0.22	Existing waterbar/DOR.
0.23	Small landing/turnout.
0.28	Existing waterbar/DOR.
0.35	Construct waterbar/DOR.
0.38	Existing waterbar/DOR.
0.39	Existing culvert, inlet plugged, holes from ripper. Open inlet. Establish ditch to MP 0.40. Spot rock w 40 CY pit run.
0.40	End establish ditch line.
0.41	Existing waterbar/DOR.
0.44	Existing waterbar/DOR.
0.47	Existing waterbar/DOR.
0.52	End major road reconstruction.

Road 33-3E-30.02

(Private) ASC

<u>MP</u>	<u>Remarks</u>
0.00	Jct. 33-3E-28.00 (left, right). Begin road renovation which includes brushing; blading, watering, rolling and reshaping road surface; cleaning ditch lines; cleaning or enlarging all existing culvert catch basins; clearing all existing culvert inlets and outlets; and flushing all existing culverts of debris.
0.46	Jct. 33-3E-30.01B (left). End road renovation.

Road 33-3E-30.01 (Rocky Road)

Segment B (Private) ASC/NAT

<u>MP</u>	<u>Remarks</u>
1.07	Jct. 33-3E-30.02 (left, right). Begin road renovation which includes brushing; blading, watering, rolling and reshaping road surface; reshaping existing waterdips; cleaning ditch lines; cleaning or enlarging all existing culvert catch basins; clearing all existing culvert

- inlets and outlets; and flushing all existing culverts of debris.
- 1.00 Continue road renovation and begin rock placement. Furnish, place, shape, water, and roll a 6" compacted lift of GRR material per contract specifications and drawings.
- 0.93 Jct. unnumbered road (right).
- 0.89 Remove existing waterbar and construct AWD.
- 0.84 Remove existing waterbar.
- 0.78 Remove existing waterbar and construct AWD.
- 0.74 Remove existing waterbar.
- 0.70 Remove existing waterbar and construct AWD.
- 0.57 Property line. End Segment. End road surfacing.

Segment A ASC

- | <u>MP</u> | <u>Remarks</u> |
|-----------|--|
| 0.57 | Property line. Continue road renovation which includes brushing; blading, watering, rolling and reshaping road surface; cleaning ditch lines; cleaning or enlarging all existing culvert catch basins; clearing all existing culvert inlets and outlets; and flushing all existing culverts of debris. |
| 0.00 | Jct. 33-3E-19.00A2 (left, right). End road renovation. |

Road 33-3E-19.00 (Medco B/ 19.00)**Segment A2** ASC

- | <u>MP</u> | <u>Remarks</u> |
|-----------|---|
| 1.58 | Jct. 33-3E-30.01A. Begin road renovation which includes brushing; blading, watering, rolling and reshaping road surface; cleaning ditch lines; cleaning or enlarging all existing culvert catch basins; clearing all existing culvert inlets and outlets; and flushing all existing culverts of debris. |
| 1.59 | Jct. 33-3E-30.00 (left). |
| 1.68 | Jct. 33-3E-25.00 (right). |
| 1.85 | Jct. 33-3E-25.01 (left), 1 st leg of Y intersection. |
| 1.89 | Jct. 33-3E-25.01 (left), 2 nd leg of Y intersection. |
| 1.97 | Jct. 33-3E-14.00 (right), 1 st leg of Y intersection. End Segment. |

Segment B ASC

- | <u>MP</u> | <u>Remarks</u> |
|-----------|--|
| 1.97 | Jct. 33-3E-14.00 (right), 1 st leg of Y intersection. Continue road renovation. |
| 1.99 | Jct. 33-3E-14.00 (right), 2 nd leg of Y intersection. |
| 2.44 | End 33-3E-19.00B. Begin 33-2E-33.00C. End road renovation. |

Road 33-2E-33.00 (Medco B/ 33.00)**Segment C** ASC

- | <u>MP</u> | <u>Remarks</u> |
|-----------|--|
| 4.19 | End 33-3E-19.00B. Begin 33-2E-33.00C. Begin road renovation which includes brushing; blading, watering, rolling and reshaping road surface; cleaning ditch lines; cleaning or enlarging all existing culvert catch basins; clearing all existing culvert inlets and outlets; and flushing all existing culverts of debris. |
| 3.76 | Jct. 33-2E-25.02 (right). End road renovation. |

Road 33-2E-25.02 (Golden Spike)**Segment A** ASC

- | <u>MP</u> | <u>Remarks</u> |
|-----------|---|
| 0.00 | Jct. 33-2E-33.00. Begin road renovation which includes brushing; blading, watering, |

rolling and reshaping road surface; reshaping existing waterdips; cleaning ditch lines; cleaning or enlarging all existing culvert catch basins; clearing all existing culvert inlets and outlets; and flushing all existing culverts of debris.

0.42 Jct. 33-3E-25.03 (left). End Segment.

Segment B ASC

<u>MP</u>	<u>Remarks</u>
0.42	Jct. 33-2E-25.03. Continue road renovation.
0.45	Temporarily open ex. barricade for use of Segment B and reconstruct barricade after use.
0.47	Remove and properly dispose of existing culvert, minor draw. Construct AWD.
0.60	End road renovation.

Road 33-2E-25.03 (Round Mt. Quarry)

ASC

<u>MP</u>	<u>Remarks</u>
0.00	Jct. 33-2E-25.02 (right, left). Begin road renovation which includes brushing; blading, watering, rolling and reshaping road surface; cleaning ditch lines; cleaning or enlarging all existing culvert catch basins; clearing all existing culvert inlets and outlets; and flushing all existing culverts of debris.
0.19	Round Mt. quarry (left).
0.31	End road renovation.

Road 33-3E-30.00 (Thunder Road)

ASC

<u>MP</u>	<u>Remarks</u>
0.00	Jct. 33-3E-19.00. Begin road renovation which includes brushing; blading, watering, rolling and reshaping road surface; cleaning ditch lines; cleaning or enlarging all existing culvert catch basins; clearing all existing culvert inlets and outlets; and flushing all existing culverts of debris.
0.55	End road renovation.

Road 33-2E-25.00 (Round Mt. Spur 1)

Segment A NAT

<u>MP</u>	<u>Remarks</u>
0.00	Jct. 33-3E-19.00. Begin road renovation which includes brushing; blading, watering, rolling and reshaping road surface; reshaping existing waterdips; cleaning ditch lines; cleaning or enlarging all existing culvert catch basins; clearing all existing culvert inlets and outlets; and flushing all existing culverts of debris.
0.05	Re-establish existing waterdip.
0.13	Re-establish existing waterdip.
0.23	Re-establish existing waterdip.
0.34	Re-establish existing waterdip.
0.41	Re-establish existing waterdip.
0.56	Property line.
0.66	Jct. Temp Route 24-1B. End road renovation.

Road 33-3E-31.06 (Sec. 31 North Spur)

NAT

<u>MP</u>	<u>Remarks</u>
0.00	Jct. 33-3E-28.00. Begin road renovation which includes brushing; blading, watering,

	rolling and reshaping road surface; cleaning ditch lines; cleaning or enlarging all existing culvert catch basins; clearing all existing culvert inlets and outlets; and flushing all existing culverts of debris.
0.02	Temporarily open existing barricade for use of road and reconstruct barricade after use.
0.04	Property line.
0.47	Proposed landing. End road renovation.

Road 33-3E-34.01 (Elk glade spur)**Segment A (Private)** ASC

<u>MP</u>	<u>Remarks</u>
0.00	Jct. 33-3E-34.00. Begin road renovation which includes brushing; blading, watering, rolling and reshaping road surface; cleaning ditch lines; cleaning or enlarging all existing culvert catch basins; clearing all existing culvert inlets and outlets; and flushing all existing culverts of debris.
0.16	Property line. End Segment.

Segment B ASC

<u>MP</u>	<u>Remarks</u>
0.16	Property line. Continue road renovation.
0.66	Jct. 34-3E-4.03 (left, right); Jct. with decommissioned 33-3E-34.01C (straight). End road renovation.

Road 34-3E-4.03 (Vine Maple N Spur)**Segment C** ASC

<u>MP</u>	<u>Remarks</u>
1.78	Jct. 33-3E-34.01B. Begin road renovation which includes brushing; blading, watering, rolling and reshaping road surface; cleaning ditch lines; cleaning or enlarging all existing culvert catch basins; clearing all existing culvert inlets and outlets; and flushing all existing culverts of debris.
1.35	Jct. 33-3E-33.00 (right). End Segment.

Segment B NAT/Decommissioned

<u>MP</u>	<u>Remarks</u>
1.35	Jct. 33-3E-33.00 (right). Begin reconstruction of decommissioned road and continue road renovation. Decommission this segment and waterbar after use.
1.34	Temporarily open existing barricade for use of road and reconstruct barricade after use.
1.08	Existing barricade. End major road renovation/reconstruction.

Road 33-3E-33.00 (Vine Maple Connect)

ASC

<u>MP</u>	<u>Remarks</u>
0.00	Jct. 33-3E-4.03. Begin road renovation which includes brushing; blading, watering, rolling and reshaping road surface; cleaning ditch lines; cleaning or enlarging all existing culvert catch basins; clearing all existing culvert inlets and outlets; and flushing all existing culverts of debris.
0.34	Jct. 33-3E-33.01, (left, right). End road renovation.

Road 33-3E-33.01 (Vine Maple Spur)

ASC

<u>MP</u>	<u>Remarks</u>
0.00	Jct. 33-3E-34.01, (left, right-barricaded). Begin road renovation which includes

	brushing; blading, watering, rolling and reshaping road surface; cleaning ditch lines; cleaning or enlarging all existing culvert catch basins; clearing all existing culvert inlets and outlets; and flushing all existing culverts of debris.
0.38	Jct. 33-3E-33.00, (left).
0.70	Property line. End road renovation.

Road 33-3E-34.01 (Elk glade spur)**Segment C** NAT/Decommissioned

<u>MP</u>	<u>Remarks</u>
1.44	Jct. 33-3E-33.01. Begin reconstruction of decommissioned road and begin road renovation which includes brushing; blading, watering, rolling and reshaping road surface; cleaning ditch lines; cleaning or enlarging all existing culvert catch basins; clearing all existing culvert inlets and outlets; and flushing all existing culverts of debris. Decommission this segment and waterbar after use.
1.43	Temporarily open existing barricade for use of road and reconstruct barricade after use.
1.36	End major road reconstruction and renovation.

Road 34-3E-9.00 (Vine Maple ML)**Segment A** ASC

<u>MP</u>	<u>Remarks</u>
0.00	Jct. Butte Falls / Prospect Road. Begin road renovation which includes brushing; blading, watering, rolling and reshaping road surface; cleaning ditch lines; cleaning or enlarging all existing culvert catch basins; clearing all existing culvert inlets and outlets; and flushing all existing culverts of debris. Furnish, place, water, and roll (compact) a 4" lift of 1-1/2" minus crushed rock material per contract specifications and drawings.
0.03	Jct. parking area (left).
0.43	Jct. 34-3E-9.01 (left), Vine Maple Pit. End Segment.

Segment B ASC

<u>MP</u>	<u>Remarks</u>
0.43	Jct. 34-3E-9.01 (left), Vine Maple Pit. Continue road renovation and surfacing.
0.62	End Segment.

Segment C (Private) ASC

<u>MP</u>	<u>Remarks</u>
0.62	Continue road renovation and surfacing.
1.00	Jct. 34-3E-4.02 (right). End Segment. End road surfacing.

Segment D (Private) ASC

<u>MP</u>	<u>Remarks</u>
1.00	Continue road renovation.
1.34	Property line. End Segment.

Segment E ASC

<u>MP</u>	<u>Remarks</u>
1.34	Continue road renovation.
1.61	Jct. 34-3E-5.01 (left) Y intersection.
1.63	Jct. 34-3E-5.01 (left) Y intersection.
2.78	Jct. 34-3E-3.00 (right).
2.80	Property line. End Segment.

Segment F ASC

<u>MP</u>	<u>Remarks</u>
2.80	Continue road renovation.
3.20	Jct. 33-3E-32.00 (left).

3.71 Jct. 33-3E-31.01 (left).
3.97 Jct. 33-3E-28.00 (left, right). End road renovation.

Road 33-3E-28.00 (Divide / Round Mt.B)

Segment E2 PRR

<u>MP</u>	<u>Remarks</u>
4.06	Jct. 33-3E-31.02 (right).
4.30	Jct. 33-3E-31.03 (right).
4.61	Jct. 33-3E-31.07 (left). End road renovation.

Road 33-3E-31.07

(Private) PRR

<u>MP</u>	<u>Remarks</u>
0.00	Jct. 33-3E-28.00. Begin road renovation which includes brushing; blading, watering, rolling and reshaping road surface; cleaning ditch lines; cleaning or enlarging all existing culvert catch basins; clearing all existing culvert inlets and outlets; and flushing all existing culverts of debris.
0.14	Property line. K-tag, post, (left).
0.45	Jct. unnumbered road (left).
0.50	Jct. unnumbered road (left).
0.62	Jct. Temp Route 6-1. End road renovation.

Road 33-3E-32.00 (South Vine Maple Spur)

PRR

<u>MP</u>	<u>Remarks</u>
0.00	Jct. 34-3E-9.00. Begin road renovation which includes brushing; blading, watering, rolling and reshaping road surface; cleaning ditch lines; cleaning or enlarging all existing culvert catch basins; clearing all existing culvert inlets and outlets; and flushing all existing culverts of debris.
0.70	End road renovation.

Road 34-3E-3.00 (North Fork Vine Maple)

Segment B ASC

<u>MP</u>	<u>Remarks</u>
1.74	Jct. 34-3E-9.00E. Begin road renovation which includes brushing; blading, watering, rolling and reshaping road surface; cleaning ditch lines; cleaning or enlarging all existing culvert catch basins; clearing all existing culvert inlets and outlets; and flushing all existing culverts of debris.
1.72	Jct. 34-3E-5.05A (left). End road renovation.

Road 34-3E-5.05 (North Fork Vine Maple Spur 5)

Segment A (Private) ASC

<u>MP</u>	<u>Remarks</u>
0.00	Jct. 34-3E-3.00B. Begin road renovation which includes brushing; blading, watering, rolling and reshaping road surface; cleaning ditch lines; cleaning or enlarging all existing culvert catch basins; clearing all existing culvert inlets and outlets; and flushing all existing culverts of debris.
0.04	Property line.
0.07	Jct. 33-3E-32.01 (left). End road renovation.

Road 33-3E-32.01**(Private)** PRR

<u>MP</u>	<u>Remarks</u>
0.00	Jct. 34-3E-5.05A. Begin road renovation which includes brushing; blading, watering, rolling and reshaping road surface; reshaping existing waterdips; cleaning ditch lines; cleaning or enlarging all existing culvert catch basins; clearing all existing culvert inlets and outlets; and flushing all existing culverts of debris.
0.05	Existing waterdip.
0.10	Existing waterdip.
0.15	Existing waterdip.
0.28	Jct. operator road (right).
0.31	Existing waterdip.
0.61	Jct. Temp Route 32-1. End road renovation.

Road 34-3E-5.01 (Vine Maple Spur 1)

ASC

<u>MP</u>	<u>Remarks</u>
0.00	Jct. 34-3E-9.00E, Y intersection. Begin road renovation which includes brushing; blading, watering, rolling and reshaping road surface; cleaning ditch lines; cleaning or enlarging all existing culvert catch basins; clearing all existing culvert inlets and outlets; and flushing all existing culverts of debris.
0.31	Jct. 34-3E-9.02A/B (left, right). End road renovation.

Road 34-3E-9.02 (Vine Maple Lower Road)**Segment A** NAT/Decommissioned

<u>MP</u>	<u>Remarks</u>
1.20	Jct. Temp Route 8-1 (left). Begin reconstruction of decommissioned road and begin road renovation which includes brushing; blading, watering, rolling and reshaping road surface; cleaning ditch lines; cleaning or enlarging all existing culvert catch basins; clearing all existing culvert inlets and outlets; and flushing all existing culverts of debris. Decommission this segment and waterbar after use.
1.76	Temporarily open existing barricade for use of road and reconstruct barricade after use.
1.78	Jct. 34-3E-5.01 (right) and Segment B (straight). End major road reconstruction and Segment.

Segment B ASC

<u>MP</u>	<u>Remarks</u>
1.78	Jct. 34-3E-5.01, Y intersection. Begin road renovation which includes brushing; blading, watering, rolling and reshaping road surface; cleaning ditch lines; cleaning or enlarging all existing culvert catch basins; clearing all existing culvert inlets and outlets; and flushing all existing culverts of debris.
1.80	Jct. 34-3E-5.01, Y intersection.
2.13	Jct. 34-3E-5.00 (left). End Segment.

Segment C ASC

<u>MP</u>	<u>Remarks</u>
2.13	Jct. 34-3E-5.00 (left). Begin road renovation which includes brushing; blading, watering, rolling and reshaping road surface; cleaning ditch lines; cleaning or enlarging all existing culvert catch basins; clearing all existing culvert inlets and outlets; and flushing all existing culverts of debris.
2.14	Temporarily open existing barricade and reconstruct barricade after use.

2.43 End road renovation.

Road 34-3E-5.00 (Vine Maple Spur)

ASC

<u>MP</u>	<u>Remarks</u>
0.00	Jct. 34-3E-9.02. Begin road renovation which includes brushing; blading, watering, rolling and reshaping road surface; cleaning ditch lines; cleaning or enlarging all existing culvert catch basins; clearing all existing culvert inlets and outlets; and flushing all existing culverts of debris.
0.56	Jct. 34-3E-18.00 (right). End road renovation.

Road 34-3E-18.00 (7 Up)

Segment C PRR

<u>MP</u>	<u>Remarks</u>
3.36	Jct. 34-3E-5.00. Begin road renovation which includes brushing; blading, watering, rolling and reshaping road surface; cleaning ditch lines; cleaning or enlarging all existing culvert catch basins; clearing all existing culvert inlets and outlets; and flushing all existing culverts of debris.
2.15	Jct. 34-3E-7.04. End road renovation.

TEMP ROUTE RENOVATION WORK LIST

Temp Route 24-1A

T33S-R02E-Section 24 NAT/Decommisioned

<u>MP</u>	<u>Remarks</u>
0.00	Jct. 33-3E-19.01C. Begin Temp Route reconstruction. Decommission, waterbar, and barricade Temp Route after use.
0.01	Construct barricade after use.
0.06	Proposed landing location. End Temp Route reconstruction.

Temp Route 24-1B

T33S-R02E-Section 24 NAT/Decommisioned

<u>MP</u>	<u>Remarks</u>
0.00	Jct. 33-2E-25.00A. Begin Temp Route reconstruction. Decommission, waterbar, and barricade Temp Route after use.
0.01	Construct barricade after use.
0.11	Proposed landing location. End Temp Route reconstruction.

Temp Route 29-1A

T33S-R03E-Section 29 NAT/Decommisioned

<u>MP</u>	<u>Remarks</u>
0.00	Jct. 33-3E-28.00B. Begin Temp Route reconstruction. Decommission, waterbar, and barricade Temp Route after use.
0.02	Temporarily open existing barricade and reconstruct barricade after use.
0.06	Existing waterbar.
0.10	Jct. Temp Route 29-1B (right).

0.15 Existing landing. End Temp Route reconstruction.

Temp Route 29-1B

T33S-R03E-Section 29 NAT

<u>MP</u>	<u>Remarks</u>
0.00	Jct. Temp Route 29-1A. Begin Temp Route new construction. Decommission, waterbar, and barricade Temp Route after use. Pile debris along route for use in decommissioning.
0.01	Construct barricade after use.
0.10	Proposed landing/turnout location.
0.35	Proposed landing/turnout location.
0.39	Proposed landing location. End Temp Route new construction.

Temp Route 30-1A

T33S-R03E-Section 30 NAT/Decommissioned

<u>MP</u>	<u>Remarks</u>
0.00	Jct. 33-3E-30.01B. Begin Temp Route reconstruction. Decommission, waterbar, and barricade Temp Route after use.
0.01	Construct barricade after use.
0.14	Property line.

Temp Route 30-1B

T33S-R03E-Section 30 NAT/Decommissioned

<u>MP</u>	<u>Remarks</u>
0.14	Property line. Continue Temp Route reconstruction.
0.29	Property line. Proposed landing location. End Temp Route reconstruction.

Temp Route 31-1A

T33S-R03E-Section 31 NAT

<u>MP</u>	<u>Remarks</u>
0.00	Jct. 33-3E-28.00E1. Begin Temp Route new construction. Decommission, waterbar, and barricade Temp Route after use.
0.01	Construct barricade after use.
0.30	Jct. Temp Route 31-1B (right).
0.42	Proposed landing location. End Temp Route reconstruction.

Temp Route 31-1B

T33S-R03E-Section 31 NAT

<u>MP</u>	<u>Remarks</u>
0.00	Jct. Temp Route 31-1A. Begin Temp Route new construction. Decommission, waterbar, and barricade Temp Route after use.
0.04	Proposed landing location. End Temp Route new construction.

Temp Route 32-1A

T33S-R03E-Section 32 NAT/Decommissioned

<u>MP</u>	<u>Remarks</u>
0.00	Jct. 33-3E-32.01B. Begin Temp Route reconstruction. Decommission, waterbar, and barricade Temp Route after use.
0.01	Construct barricade after use.

0.08 Property line. End Temp Route reconstruction and begin Temp Route 32-1B new construction.

Temp Route 32-1B

T33S-R03E-Section 32 NAT

<u>MP</u>	<u>Remarks</u>
0.08	Begin Temp Route new construction. Decommission, waterbar, and barricade Temp Route after use.
0.09	Construct barricade after use.
0.30	Proposed landing location. End Temp Route new construction.

Temp Route 6-1A

T34S-R03E-Section 6 NAT/Decommissioned

<u>MP</u>	<u>Remarks</u>
0.00	Jct. 33-3E-31.07. Begin Temp Route reconstruction. Decommission, waterbar, and barricade Temp Route after use.
0.01	Construct barricade after use.
0.03	Property line. End Temp Route reconstruction and begin Temp Route 6-1B new construction.

Temp Route 6-1B

T34S-R03E-Section 6 NAT

<u>MP</u>	<u>Remarks</u>
0.03	Begin Temp Route new construction. Decommission, waterbar, and barricade Temp Route after use.
0.04	Construct barricade after use.
0.11	Proposed landing location. End Temp Route new construction.

Temp Route 8-1

T34S-R03E-Section 8 NAT

<u>MP</u>	<u>Remarks</u>
0.00	Jct. 34-3E-9.02A. Begin Temp Route new construction. Decommission, waterbar, and barricade Temp Route after use.
0.01	Construct barricade after use.
0.30	Proposed landing location. End Temp Route new construction.

UNITED STATES
DEPARTMENT OF INTERIOR
BUREAU OF LAND MANAGEMENT

ROAD SPECIFICATIONS

INDEX

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GENERAL – 100

101 Prework Conference(s):

A prework conference will be held prior to the start of improvement and renovation operations. The Purchaser shall request the conference at least 48 hours prior to the time it is to be held. The conference will be attended by the Purchaser and/or his/her representative(s), subcontractor(s) and/or their representative(s) and the Authorized Officer and/or his/her representative(s).

The purpose will be to review the required work, exhibits, specifications, and to establish a work schedule and a list of the Purchaser's representatives and subcontractor(s).

102 Definitions:

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

Abrasion Resistance - The ability of a fabric surface to resist wear by friction.

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.

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.

Piping - The process by which soil particles are washed in or through pore spaces in drains and filters or poorly compacted fill/backfill material.

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.

Reasonably Close Conformity - Compliance with reasonable and customary manufacturing and construction tolerances where working tolerances are not specified.

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

Scale - In quarrying, consists of the removal of loose or overhanging rock adhering to the solid face after a shot or a round of shots has been fired.

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

Separation - Function of geotextile material as a partition between adjacent materials to prevent mixing of those materials.

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.

Specific Gravity - The ratio of the density of a material to the density of water obtained by weighing known volumes of both items in air. A specific gravity less than one implies that the material will float.

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.

Subbase - Reinforcement of the subgrade with large particles of pitrun rock or crushed stone. Usually confined to roads having wet subgrades or subgrades with weak support characteristics.

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.

Tensile Stress - Strain Modulus - A measure of the resistance to elongation under stress. The ratio of the change in tensile stress to the corresponding change in strain.

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.

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. <ul style="list-style-type: none"> 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 maximum density of soil. <ul style="list-style-type: none"> -Method A - 4" mold, soil passing a No. 4 Sieve. 25 blows/layer & 3 layers.

-Method D - 6" mold, soil passing a 19mm (3/4 inches) sieve.
56 blows/layer & 5 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 inch drop. |
| <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 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 310</u> | Determination of density of soil and soil-aggregates 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 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 5 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 borrow pits, 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 Subsection 202, as shown on the plans, and as flagged and painted on the ground.
- 203b Standing trees and snags to be cleared shall be felled within the limits established for clearing unless otherwise authorized.
- 203c Disposal of logs from private timber cleared within the limits established as staked on the ground shall consist of decking 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

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- construction equipment to form a compact and uniform pile. Windrows shall have 16-foot minimum breaks at least every 200 feet. Windrows shall not be placed against trees. A pioneer road may be constructed to provide an area for placement of windrows provided the excavated material is kept within the clearing limits and does not adversely affect the road construction.
- 210 Disposal of clearing and grubbing debris 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.
- 210a Disposal of clearing and grubbing debris on non-government property by piling this material outside of clearing limits will be permitted provided the Purchaser obtains a written release from the property owner on whose property the disposal is to be made. The Purchaser shall furnish the Authorized Officer a certified copy of the written release from the property owner absolving the Government from responsibilities in connection with the disposal of debris on said property.
- 211 Disposal of clearing and grubbing debris shall be by piling on government lands outside of established clearing limits in an area and in a manner acceptable to the Authorized Officer.
- 212 No grading will be permitted prior to completion and approval by the Authorized Officer of the required clearing and grubbing work, except that stump grubbing may proceed with the excavation of the road prism.
- 213 No clearing or grubbing debris shall be left lodged against standing trees.

EXCAVATION AND EMBANKMENT - 300

- 301 This work shall consist of excavating, overhaul, placement of embankments, backfilling, borrowing, leveling, ditching, grading, in-sloping, outsloping, crowning and scarification of the subgrade, compaction, disposal of excess and unsuitable materials, and other earth-moving work in accordance with these specifications and conforming to the lines, grades, dimensions, and typical cross sections shown on the plans.
- 302 Excavation shall also consist of the excavation of temp route, road, and landing cut sections, borrow sites, backfilling, leveling, ditching, grading, compaction, and other earth moving work necessary for the construction of the roadway in accordance with these specifications and conforming to the lines, grades, dimensions, and typical cross sections shown on the plans and as marked on the ground with stakes.
- 303 Suitable material removed from the excavation shall be used in the formation of embankment subgrade, shoulders, slopes, bedding, backfill for structures, and for other purposes as shown on the plans.
- 305 Embankment construction shall consist of the placement of excavated materials, backfilling, leveling, grading, compaction, and other earth-moving work necessary for the construction of the temp routes and landings in accordance with these specifications and conforming to the lines, grades, dimensions, and typical cross sections shown on the plans.
- 305a Material used in the construction of embankment sections shall be free of stumps, cull logs, brush, muck, sod, roots, frozen material, and other deleterious materials and shall be placed and compacted as specified.
- 305b Embankment materials shall be placed in successive parallel layers on areas cleared of stumps, cull logs, brush, sod, and other vegetative and deleterious materials, except as provided under Subsection 204. Temp route embankments of earth material shall be placed in horizontal layers not exceeding 12 inches in depth.
- 306f Compaction of embankment layers placed as specified under Subsection 305b above shall be accomplished by routing construction equipment over full width of embankment structures.
- 306g All fill slopes shall be compacted to 85% of maximum density, either by walking with cat/excavator or by pressing with excavator bucket, to prevent surface erosion and raveling.
- 320 Ditches shall conform to the slope, grade, dimensions, and shape of the required cross section shown on the plans. Roots, stumps, rocks, and other projections shall be removed to form smooth, even slopes.
- 324 Excavated material shall not be allowed to cover boles of standing trees to a depth in excess of 2 feet on the uphill side.

- 327 The finished grading shall be approved by the Authorized Officer in segments. The Purchaser shall give the Authorized Officer 3 day notice prior to final inspection of the grading operations and start of surfacing operations.

RENOVATION AND IMPROVEMENT OF EXISTING ROADS - 500

- 501 This work shall consist of reconditioning and preparing the roadbed and shoulders, 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, and as shown on the plans and marked on the ground with stakes.
- 502b Drainage ditches shall be bladed and shaped in accordance with the lines, grades, dimensions, and typical cross sections shown on the plans.
- 504 Existing road surface shall be bladed, shaped, uniformly moistened or dried to the optimum moisture content suitable for maximum density, and compacted to full width with equipment conforming to requirements of Subsections 103f, 103g, and 103i and in accordance with the following table:

Road Number	From M.P.	To M.P.	Subsection 504
33-3E-34.00(A-B1)	0.00	1.83	504a
33-3E-28.01(A1-C)	0.00	3.04	504a
33-3E-19.00(A1)	0.00	0.11	504a
33-3E-19.01(A-C)	0.00	1.98	504a
33-3E-28.00(A-E1)	0.00	3.78	504a
33-3E-29.00(A-C)	0.00	0.44	504a
33-3E-29.01	0.00	0.52	504a
33-3E-30.02	0.00	0.46	504a
33-3E-30.01(A-B)	1.07	0.00	504a
33-3E-19.00(A2-B)	1.58	2.44	504a
33-2E-33.00(C)	4.19	3.76	504a
33-2E-25.02(A-B)	0.00	0.60	504a
33-2E-25.03(A-B)	0.00	0.31	504a
33-3E-30.00	0.00	0.55	504a
33-2E-25.00(A)	0.00	0.66	504a
33-3E-31.06	0.00	0.47	504a
33-3E-34.01(A-B)	0.00	0.66	504a
34-3E-04.03(C-B)	1.78	1.08	504a
33-3E-33.00	0.00	0.34	504a
33-3E-33.01	0.00	0.70	504a
33-3E-34.01(C)	1.44	1.36	504a
34-3E-9.00(A-F)	0.00	3.97	504a
33-3E-28.00(E2)	4.06	4.61	504a

504 Continued:

Road Number	From M.P.	To M.P.	Subsection 504
33-3E-31.07	0.00	0.62	504a
33-3E-32.00	0.00	0.70	504a
34-3E-3.00(B)	1.74	1.72	504a
34-3E-5.05(A)	0.00	0.07	504a
33-3E-32.01	0.00	0.61	504a
34-3E-5.01	0.00	0.31	504a
34-3E-9.02(A-C)	1.20	2.43	504a
34-3E-5.00	0.00	0.56	504a
34-3E-18.00(C)	3.36	2.15	504a

504a Minimum compaction required shall be 1 hour of continuous rolling for each 5 stations of road, or fraction thereof, as measured along the centerline per layer of material.

506 All existing drainage structures within the following location(s):

Road Number	From M.P.	To M.P.
33-3E-34.00(A-B1)	0.00	1.83
33-3E-28.01(A1-C)	0.00	3.04
33-3E-19.00(A1)	0.00	0.11
33-3E-19.01(A-C)	0.00	1.98
33-3E-28.00(A-E1)	0.00	3.78
33-3E-29.00(A-C)	0.00	0.44
33-3E-29.01	0.00	0.52
33-3E-30.02	0.00	0.46
33-3E-30.01(A-B)	1.07	0.00
33-3E-19.00(A2-B)	1.58	2.44
33-2E-33.00(C)	4.19	3.76
33-2E-25.02(A-B)	0.00	0.60
33-2E-25.03(A-B)	0.00	0.31
33-3E-30.00	0.00	0.55
33-2E-25.00(A)	0.00	0.66
33-3E-31.06	0.00	0.47
33-3E-34.01(A-B)	0.00	0.66
34-3E-04.03(C-B)	1.78	1.08

506 Continued:

Road Number	From M.P.	To M.P.
33-3E-33.00	0.00	0.34
33-3E-33.01	0.00	0.70
33-3E-34.01(C)	1.44	1.36
34-3E-9.00(A-F)	0.00	3.97
33-3E-28.00(E2)	4.06	4.61
33-3E-31.07	0.00	0.62
33-3E-32.00	0.00	0.70
34-3E-3.00(B)	1.74	1.72
34-3E-5.05(A)	0.00	0.07
33-3E-32.01	0.00	0.61
34-3E-5.01	0.00	0.31
34-3E-9.02(A-C)	1.20	2.43
34-3E-5.00	0.00	0.56
34-3E-18.00(C)	3.36	2.15

shall have inlets 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 each 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.

508 Vegetation encroaching on the roadbed and the drainage ditches of existing roads at the following locations:

Road Number	From M.P.	To M.P.
33-3E-34.00(A-B1)	0.00	1.83
33-3E-28.01(A1-C)	0.00	3.04
33-3E-19.00(A1)	0.00	0.11
33-3E-19.01(A-C)	0.00	1.98
33-3E-28.00(A-E1)	0.00	3.78
33-3E-29.00(A-C)	0.00	0.44
33-3E-29.01	0.00	0.52
33-3E-30.02	0.00	0.46
33-3E-30.01(A-B)	1.07	0.00

508 Continued:

Road Number	From M.P.	To M.P.
33-3E-19.00(A2-B)	1.58	2.44
33-2E-33.00(C)	4.19	3.76
33-2E-25.02(A-B)	0.00	0.60
33-2E-25.03(A-B)	0.00	0.31
33-3E-30.00	0.00	0.55
33-2E-25.00(A)	0.00	0.66
33-3E-31.06	0.00	0.47
33-3E-34.01(A-B)	0.00	0.66
34-3E-04.03(C-B)	1.78	1.08
33-3E-33.00	0.00	0.34
33-3E-33.01	0.00	0.70
33-3E-34.01(C)	1.44	1.36
34-3E-9.00(A-F)	0.00	3.97
33-3E-28.00(E2)	4.06	4.61
33-3E-31.07	0.00	0.62
33-3E-32.00	0.00	0.70
34-3E-3.00(B)	1.74	1.72
34-3E-5.05(A)	0.00	0.07
33-3E-32.01	0.00	0.61
34-3E-5.01	0.00	0.31
34-3E-9.02(A-C)	1.20	2.43
34-3E-5.00	0.00	0.56
34-3E-18.00(C)	3.36	2.15

shall be removed by cutting and disposed of in accordance with Subsection 2100 of these specifications.

509 The finished grading shall be approved in writing by the Authorized Officer 1 day prior to surfacing operations. The Purchaser shall give the Authorized Officer a 3 day 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 water source(s) selected by the Purchaser and approved by the Authorized Officer.

AGGREGATE BASE COURSE - 800
GRID-ROLLED ROCK MATERIAL

- 801 This work shall consist of furnishing, hauling, and placing grid-rolled rock material on the approved roadbeds approved for placing grid-rolled material and reducing the size of material in accordance with these specifications and conforming to the dimensions and typical cross sections shown on the plans.
- 802 Rock materials to be grid-rolled in this work shall be obtained from source(s) shown on the plans. Development and mining of such source(s) shall be in accordance with Subsection 1601 of these specifications.
- 803 Grid-rolled rock material shall consist of talus rock, bank or river-run gravels, partly decomposed granite or basalt, blasted rock from roadway excavation, cinders or other approved materials. The materials shall be reasonably free from vegetative matter or other deleterious materials.
- 804 Grid-rolled rock material shall be of such quality that it can be taken directly from the source, without crushing or screening, and can be broken down on the road by the grid-rolling process.
- 804a Grid-rolled rock material shall show a Los Angeles-abrasion-percentage loss value of not more than 35 as determined by AASHTO T 96.
- 804b Grid-rolled rock material shall show a durability value of not less than 35 as determined by AASHTO T 210.
- 804c Grid-rolled rock material shall have a liquid limit of not more than 35, and a plasticity index of not less than three and not more than 10, as determined by AASHTO T 89 and AASHTO T 90.
- 805 The roadbed, as shaped and compacted under Section 500 of these specifications, shall be approved by the Authorized Officer prior to the placement of the grid-rolled rock material. Notification for final inspection, prior to rocking, shall be 72 hours prior to the inspection and shall be 10 days prior to start of rocking operations.
- 806 Rock material to be grid-rolled shall be placed in layers not to exceed 8 inches in thickness. Oversize material shall be broken down to be accommodated within the thickness of the specified layer. Oversize material shall be construed to mean material greater than 4 inches. Unbroken oversize material shall be removed from the road and disposed of as directed by the Authorized Officer.
- 808 Grid-rolled rock material shall be blade processed and spread to required dimensions. Processing shall be performed in such a manner as to minimize aggregate segregation.
- 810 Grid-rolled material, bladed and shaped as specified, shall be moistened or dried to optimum moisture content for maximum compaction and compacted to full width by compacting equipment conforming to the requirements of Subsection 103f. Minimum compactions shall be 1 hour of continuous compacting for each 150 cubic yards, or fraction thereof, of grid-rolled rock material placed per layer.

- 813 The grid-rolled rock material shall be surface bladed during the compaction operation to remove irregularities and to produce a smooth surface.
- 814 Grid-rolled rock material used to repair or reinforce soft, muddy, frozen, yielding, or rutted subgrades shall not be construed as surfacing under this specification unless approved by the Authorized Officer prior to placement.

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 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 source(s) shown on the plans. Development and mining of such source(s) shall be in accordance with Subsection 1601 of these 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
AASHTO T 11 & T 27

GRADATION

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

- 1204a The Purchaser shall be required to take one sample for each 1,000 cubic yards of crushed rock material to be utilized using AASHTO sampling procedures. The Purchaser shall submit samples to a certified lab or perform testing for gradation requirements using AASHTO T 11 and AASHTO T 27 testing procedures. Prior to testing, each sample shall be split, making one half of the sample, with proper identification, available for testing by the Authorized Officer. Each sample and the results of Purchaser testing shall be made available to the Authorized Officer within 24 hours of sampling. The Purchaser shall provide test results for the first 500 cubic yards produced prior to commencing production crushing and hauling.

- 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.
- 1207 That portion of crushed rock material passing the No. 40 sieve, including blending filler, shall have a liquid limit of not more than 35 and a plasticity index of not less than 4 and not more than 12 as determined by AASHTO T 89 and AASHTO T 90.
- 1207a That portion of crushed rock material passing No. 4 sieve, including blending filler, shall have a sand equivalent of not less than 35, as determined by AASHTO T 176, except where that portion exhibits a sand equivalency of less than 35, the aggregate will be accepted if it complies with the additional requirement as follows:

Sand Equivalent	Percent Passing #200 Sieve AASHTO T 27
34	9
33	8
32	7
31	6
30	5
29 or less	4

- 1208 If additional binder or filler material is necessary to meet the grading or plasticity requirements or for satisfactory bonding of the material, it shall be uniformly blended with the crushed rock material at the crushing and screening plant prior to placing on the road, unless otherwise agreed. The material for such purposes shall be obtained from (sources shown on the plan) (sources approved by the Authorized Officer) and shall be free from stones, vegetative matter, and other deleterious materials.
- 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 roadbeds shall be completed and approved in writing, prior to placing crushed rock material, in accordance to the requirements of Subsection 500 for placing on the roadbed. Notification for final inspection prior to rocking shall be 72 hours 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 roadbeds in accordance with these specifications and conforming to the lines, grades, dimensions, and typical cross sections shown on the plans and staked on the

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- ground. Compacted layers shall not exceed 4 inches in depth. When more than 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 Subsections 103f. Minimum compaction shall be 1 hour of continuous compacting for each 150 cubic yards of crushed rock material placed per layer for each 6 stations, or fraction thereof.
- 1215 The Purchaser is authorized to remove crushed rock material, truck measure, from BLM stockpiles, for placement on the roads in accordance with the requirements and details shown on the plans and as follows:

Willamette Meridian			Approx. CY	Grad.	Road No.
Sec.	T.	R.			
15	34S	3E	2,500	C-1	34-3E-15.01
9	34S	3E	700	C-1	34-3E-9.00A
31	33S	3E	200	C-1	33-3E-28.00D
25	33S	2E	400	C-1	33-2E-33.00C
25	33S	2E	1,600	C-1	@ Quarry

QUARRY AND BORROW PIT DEVELOPMENT - 1600

1601 This work shall consist of quarry development and rehabilitation in accordance with these specifications and conforming to the lines, grades, dimensions, and typical cross sections shown on the plans.

1603 The developed rock site is located at the following location:

Willamette Meridian				
Quarry Name and Number	Subdivision	Sec.	T.	R.
Round Mt. #301	S 1/2; SE 1/4	25	33S	2E

Development and reclamation work at this site shall be in strict accordance with these specifications and the mining and reclamation plan, as shown on the plans.

1603a If the Purchaser elects to use a rock source other than the designated source, the rock material produced shall comply with applicable sections of these specifications. If the alternate source is located on BLM ownership and a current BLM plan is not available, a development, mining, and reclamation plan shall be prepared by the Purchaser, and submitted for approval by the Authorized Officer. Development, mining and reclamation work shall be in accordance with the approved plan and 1600 specifications.

1604 If the designated source proves insufficient as to quantity and quality of the required rock material, the Purchaser shall, when ordered in writing by the Authorized Officer, move his operation to an alternate materials source as selected by the Authorized Officer. Development, extraction, and reclamation work on the alternate source shall be in accordance with the mining and reclamation plan prepared by the BLM. An equitable adjustment will be made in the contract price.

1605c The operation of equipment related to the production of rock aggregate and quarry operations shall be confined to the quarry operations area and to the designated tractor trails as shown on the plans.

1608 Overburden or reject material which does not conform to the requirements of Subsections 1205 and 1206 shall be stockpiled and used or reclamation backfill.

1609 Overburden, trees, stumps, logs, and loose rock shall be removed back from the edge of working quarry faces for a minimum distance of 10 feet.

- 1609c Overburden and reject material shall be piled in orderly piles at the disposal sites as directed by the Authorized Officer.
- 1611 The Purchaser shall notify the Authorized Officer at least 5 days prior to commencing quarry operations.
- 1611a The Purchaser shall not commence production drilling or crushing until the Authorized Officer has inspected and approved the site development in writing.
- 1612 The Purchaser shall notify MSHA (Mining Safety and Health Administration) by standard form or telephone, and in accordance with part 56, Chapter 1 of Title 30 Code of Federal Regulations (CFR), of what date he intends to commence, terminate, and/or temporarily close down operations of the quarry. Notice shall be submitted a minimum of 10 days prior to the proposed date of the action to be taken. Notification shall be submitted to:

Mining Safety and Health Administration
Attn: Supervisor
P.O. Box 70
Albany, OR 97321
Ph: (503) 967-5825

or

Mining Safety and Health Administration
117 NE 107th Avenue
Bellevue, WA 98004
Ph: (206) 442-7037

The Purchaser shall also prepare and submit to MSHA the quarterly Employment Report and Injury and Illness Report for the mining operation.

- 1613 The Purchaser shall comply with local and State Safety Codes covering quarrying operations, warning signs, seismic monitoring, and traffic control. All quarrying operations will be conducted by appropriately licensed personnel; i.e. blasting and powder handler's license, etc.
- 1613a The Purchaser shall submit a written blasting plan or modification of the plan to the Authorized Officer for the **Round Mountain** Quarry, 3 working days prior to the start of drilling. The plan shall include: a) plan view of delay pattern; b) cross section of a typical loaded hole; c) types of explosives; d) powder factor; e) burden spacing, hole diameter, depth of holes, and depth of subdrill; and f) number of lifts. Acceptance of the blasting plan does not relieve the Purchaser of the liability or responsibility for the results of the blasting.
- 1613b Controlled blasting techniques shall be employed during production blasting to contain blasted rock.

- 1613c The Purchaser shall submit to the Authorized Officer a blasting log showing "as built" data and a brief summary of the blasting results, within 10 days after the shot.
- 1614 Rock materials extracted from the quarry walls shall be utilized or disposed of as shown on the plans. Secondary blasting or other methods shall be employed to reduce the quarried rock to a maximum of 24 inches in any dimension.
- 1615 Operations on the quarry site shall be so conducted that, both during and after completion of work, erosion will be minimized and sediment will not enter streams or other bodies of water. Waste or disposal areas and quarry access roads shall be located, constructed, and maintained in a manner that will prevent sediment from entering live streams or other bodies of water. Noncombustible debris and silt-laden water material resulting from the quarry operations shall be placed in such waste or disposal areas as shown on the plans and as directed by the Authorized Officer.
- 1616 Upon completion of quarrying operations, overburden and waste materials shall be disposed of in accordance with requirements of the approved reclamation plan or in a manner approved in writing by the Authorized Officer.
- 1616a Excavation retained for impoundment of water shall be shaped to provide safe access to water for persons, livestock, and wildlife, as directed by the Authorized Officer.
- 1617 Upon completion of quarrying operations, required site reclamation measures shall be performed to the satisfaction of the Authorized Officer, including but not limited to the following:
- (a) Permanently seal or fill unused drill holes as directed by the Authorized Officer.
 - (b) Construct waterbars and take other erosion control measures as directed by the Authorized Officer.
 - (c) Remove blockages from drainage systems, streams, and waterways, and restore streams and waterways to their original courses.
 - (d) Erect barricades on quarry access roads as directed by the Authorized Officer.
 - (e) Complete required site-reclamation measures within 14 days after final cessation of quarrying operations.
 - (f) Clear quarry benches and scale wall of loose or dislodged shot material and move to a designated location within the quarry.

SOIL STABILIZATION – 1800

1801 This work shall consist of seeding and mulching on designated cut, fill, borrow, disposal, and special areas in accordance with these specifications and as shown on the plans. This work is required for road acceptance under Section 18 of this contract.

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

1803 Soil stabilization work as specified under Subsection 1802a shall be performed during the following seasonal periods:

From: September 15 th	To: October 31 st
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If soil stabilization of disturbed areas is not completed by the specified fall date, the Purchaser shall treat disturbed areas and then complete the requirements of Soil Stabilization 1800 the next construction season.

The Authorized Officer may modify the above seasonal dates to conform to existing weather conditions and changes in the construction schedule.

1803a The Purchaser shall begin soil stabilization work within 10 days of the starting work date when notified by the Authorized Officer.

1806a Additional soil stabilization work consisting of seeding and mulching may be required at the option of the Authorized Officer. Providing the additional stabilization is not due to Purchaser negligence as specified in Sec. 12 of the contract, a reduction in the total purchased price shall be made to offset the cost of furnishing and applying such additional stabilization material. Cost shall be based upon the unit price set forth in the current BLM Timber Appraisal Production Cost Schedule.

1808 Mulch materials conforming to the requirements of Subsection 1808a shall be furnished by the Purchaser in the amounts specified under Subsection 1811 and applied in accordance with Subsection 1811.

1808a Straw mulch shall be certified weed free from commercial grain fields and native grass fields. Straw mulch shall be from oats, wheat, rye, or other approved grain crops and shall be free from, mold, or other objectionable material. Straw mulch shall be in an air-dry condition and suitable for placement.

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.

1811 The Purchaser shall furnish and apply to approximately 12.31 acres designated for treatment as specified under Subsections 1802a and 1806a, a two stage process of native grass seed and mulch material at the following rate of application:

a. Two Stage Dry Application:

Native Grass Seed	10 lbs./acre
Mulch	2000 lbs./acre

The above proportion and application rate are subject to adjustment by the Authorized Officer during the application operation.

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.

1815 The seed and mulch materials shall be placed by the dry method in accordance with the requirements set forth in Subsection 1815b.

1815b Dry Method - Blowers, mechanical seeders, seed drills, landscape seeders, cultipaker seeders, or other approved mechanical seeding equipment may be used when seed is to be applied in dry form.

1819 The Purchaser shall notify the Authorized Officer at least 3 days in advance of date he intends to commence the specified soil stabilization work.

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 cutting and 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 the designated locations shown in the plans.
- 2102 Roadside brushing may be performed mechanically with self-powered, self-propelled equipment or manually with hand tools, including chain saws.
- 2103 Vegetation cut manually and/or mechanically less than 6 inches in diameter when measured at DBH shall be cut to a maximum height of 1 inch above the ground surface or above obstructions such as rocks or stumps on cut and fill sloped and all limbs below the 1 inch area will be severed from the trunk.
- 2103a Vegetation shall be cut and chipped from the road bed between the outside shoulder and the ditch centerline and such vegetation shall be cut to a maximum height of 1 inch above the ground and running surface. Limbs below the 1 inch area 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 DBH 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. 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 Vegetation capable of growing 1 foot in height or higher shall be removed within the road prism or as directed by the Authorized Officer.
- 2107 Inside curves shall be brushed out for a sight distance of 200 feet chord distance or a middle ordinate distance of 25 feet, whichever is achieved first. 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.

Exhibit C-11

Sale Name: Vine Maple

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2110 Vegetation 6 inches and smaller in diameter shall be cut and chipped, except the debris ground up with a flailer shall be excluded from the chipping requirement. Chips shall be scattered downslope from the road and not on the road surface. Vegetation over 6 inches in diameter shall be disposed of by direction of the Authorized Officer.

2113 Roadside brushing shall be accomplished as shown on the plans and as listed below:

Road Number	From M.P.	To M.P.
33-3E-34.00(A-B1)	0.00	1.83
33-3E-28.01(A1-C)	0.00	3.04
33-3E-19.00(A1)	0.00	0.11
33-3E-19.01(A-C)	0.00	1.98
33-3E-28.00(A-E1)	0.00	3.78
33-3E-29.00(A-C)	0.00	0.44
33-3E-29.01	0.00	0.52
33-3E-30.02	0.00	0.46
33-3E-30.01(A-B)	1.07	0.00
33-3E-19.00(A2-B)	1.58	2.44
33-2E-33.00(C)	4.19	3.76
33-2E-25.02(A-B)	0.00	0.60
33-2E-25.03(A-B)	0.00	0.31
33-3E-30.00	0.00	0.55
33-2E-25.00(A)	0.00	0.66
33-3E-31.06	0.00	0.47
33-3E-34.01(A-B)	0.00	0.66
34-3E-04.03(C-B)	1.78	1.08
33-3E-33.00	0.00	0.34
33-3E-33.01	0.00	0.70
33-3E-34.01(C)	1.44	1.36
34-3E-9.00(A-F)	0.00	3.97
33-3E-28.00(E2)	4.06	4.61
33-3E-31.07	0.00	0.62
33-3E-32.00	0.00	0.70
34-3E-3.00(B)	1.74	1.72
34-3E-5.05(A)	0.00	0.07
33-3E-32.01	0.00	0.61
34-3E-5.01	0.00	0.31
34-3E-9.02(A-C)	1.20	2.43

2113 Continued:

Road Number	From M.P.	To M.P.
34-3E-5.00	0.00	0.56
34-3E-18.00(C)	3.36	2.15

2116 Mechanical brush cutters shall not be operated when there are people and occupied vehicles within 400 feet of the immediate operating area.

2117 Traffic warning signs shall be required at each end of the work area. Signs shall meet the requirements of the latest version (2009) of the Manual on Uniform Traffic Control Devices.

SPECIAL PROVISIONS

1. 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.
2. 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.
3. All permits required are the responsibility of the Purchaser.
4. 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**. Certified weed free straw mulch will be the responsibility of the contractor.
5. The Contractor shall use only approved borrow material for road renovation and surfacing. Sites will be surveyed prior to use and will be free of noxious weeds. If noxious weeds are found, they shall be treated prior to borrow material use.
6. All spoils and debris resulting from road renovations shall be placed at waste disposal sites approved by the Authorized Officer and shall be a minimum of 150 feet from streams and water bodies.
7. All stream channel culvert inlets shall be cleaned between **July 1st and September 15th** in accordance with Oregon Department of Fish and Wildlife (ODFW) in-stream work period guidelines.
8. Ensure that all large wood is retained in the stream channel during culvert cleaning activities by moving logs which had accumulated on the stream side of a culvert to the downstream side of the culvert.
9. Roadside brushing cutting limits beneath or adjacent to bridges shall extend 8 feet horizontally from each side of the outermost projected line of the bridge including abutments, curbs, rails or decks. Cut brush and trees shall be removed from beneath the bridge and from the stream channel.
10. While roadside brushing, there shall be no scarring or any other damage of the tree trunk or bole allowed. All debris resulting from roadside brushing activities shall be mechanically chipped. Use of Excavators for brush removal will be at the discretion of the Authorized Officer. **All culvert inlets and outlets shall be brushed for a radius of 4 feet.**
11. While roadside brushing through private industry lands, conifer trees at the edges of the cleared area (see cutting limit, Exhibit C-6) shall have the branches pruned rather than being felled.
12. All stumps, designated by the Authorized Officer, which would interfere with normal blading and road renovation operations (including turnouts), shall be removed in such a way as to not cause

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Sale Name: Vine Maple

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damage to the drainage ditch or the road bed. Stumps that are ground down, shall be ground down to a minimum of 3 inches below existing grade.

UNITED STATES
DEPARTMENT OF INTERIOR
BUREAU OF LAND MANAGEMENT

ROAD MAINTENANCE SPECIFICATIONS

INDEX

3000	GENERAL MAINTENANCE
3100	OPERATIONAL MAINTENANCE
3200	SEASONAL MAINTENANCE
3300	FINAL MAINTENANCE
3400	OTHER MAINTENANCE
3500	DECOMMISSIONING

GENERAL MAINTENANCE – 3000

- 3001 The Purchaser shall be required to maintain all roads listed and/or referenced in section 41, as shown on the Exhibit D 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 reconstructed, 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 road(s) 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.
- 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 and 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 15 station yards at any one site, the Purchaser and the Authorized Officer or their Authorized Representatives shall agree in

Exhibit D-1

Sale Name: Vine Maple

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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 the 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 15 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 15 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 remove 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 by cutting and chipping in accordance with Section 2100 of the Exhibit C-9 Specifications.

3108 The Purchaser shall avoid fouling gravel 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. Repairs required, that were caused by such skidding activities, are 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.

SEASONAL MAINTENANCE - 3200

3201 The Purchaser shall perform preventative maintenance at the end of Purchaser's hauling each

Exhibit D-1

Sale Name: Vine Maple

Page 4 of 6

season and during non-hauling periods which occur between other operations on the contract area. This includes requirements specified in Section 3100.

- 3201a All road segments not completed during dry weather periods shall be winterized, by providing a well-drained roadway by water barring, maintaining drainage and other additional measures necessary to minimize erosion and other damage to the roadway, as directed by the Authorized Officer.
- 3202 The purchaser shall perform and complete maintenance specified in Sections 3000, 3100, and 3200 on all roads maintained by him, prior to October 1st 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 expiration of Purchaser's right to cut and remove timber (Sec. 4) 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 yd² of road surface traveled. Subsequent applications shall be made for each 40 MBF of timber or 120 yds² of rock hauled. Subsequent watering may be done at a rate less than one-half gallon per yd² when a specified lesser rate is approved by the Authorized Officer.

The roads shown in Exhibit C-2 shall be watered.

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, based on equipment rental rates from current BLM Timber Appraisal Production Cost Schedules.

DECOMMISSIONING - 3500

3501 Decommissioning shall consist of removing cross drain culverts, ripping, installing waterbars,

placement of slash and soil stabilization material, and blocking road from access by vehicles. This work is 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 (Exhibit D2), at the following locations:

Road Number	From M.P.	To M.P.
33-3E-29.01	0.00	0.52
33-3E-34.01(C)	1.44	1.36
34-3E-04.03(B)	1.35	1.08
34-3E-9.02(A)	1.20	1.78

- 3504 Decommissioning work shall be completed at the end of timber hauling for the adjacent Units utilizing the roads listed in Subsection 3505. All decommissioning work shall be performed during the following seasonal periods:

From: September 15 th	To: October 31 st
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- 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 not available, 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 proper disposal of materials. 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 at locations listed in Exhibit C-10.
- 3511 Ripping and waterbarring shall be done on designated roadways at the locations listed in Exhibit C-10.
- 3513 Waterbars and waterdips shall be installed across full width of roadway at locations shown in the specifications. Waterbars and waterdips 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 placement of slash described in Subsection 3506 on designated roadways and other areas disturbed by the purchaser's decommissioning operations in accordance with these specifications and as shown in the plans.

R2E | R3E

EXHIBIT D2

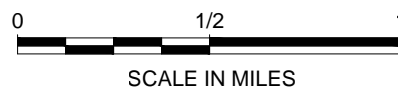
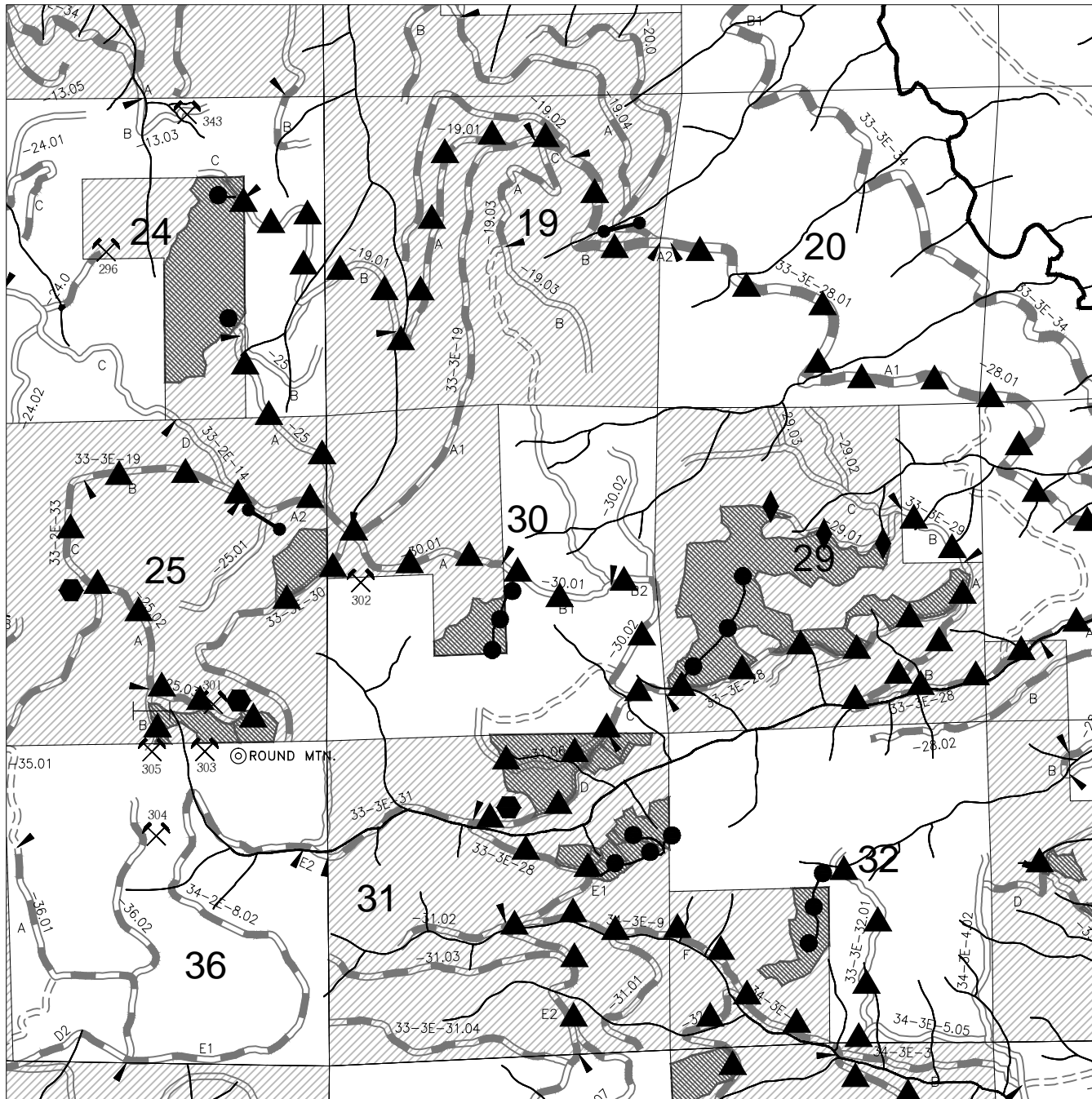
SHEET 1 OF 2

VINE MAPLE
TIMBER SALE
TRACT NO. ORM05-TS-12-22

- BLM OWNERSHIP 
- T.S. UNITS 
- BST ROAD 
- ROCKED ROAD 
- NATURAL SURFACE ROAD 
- PURCHASER MAINTENANCE 
- TEMPORARY SPUR ROAD 
- DECOMMISSION ROAD 

T33S

ALWAYS
THINK
SAFETY



REV. NO.	DESCRIPTION	DATE	APPROV.
UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT MEDFORD DISTRICT - MEDFORD, OREGON			
VINE MAPLE TIMBER SALE ROAD MAINTENANCE MAP			
DESIGNED:			
REVIEWED:			
APPROVED:			
DRAFTED BY: BGS	SCALE: AS SHOWN		
DATE: JULY 2012	SHEET: 1 OF 2		

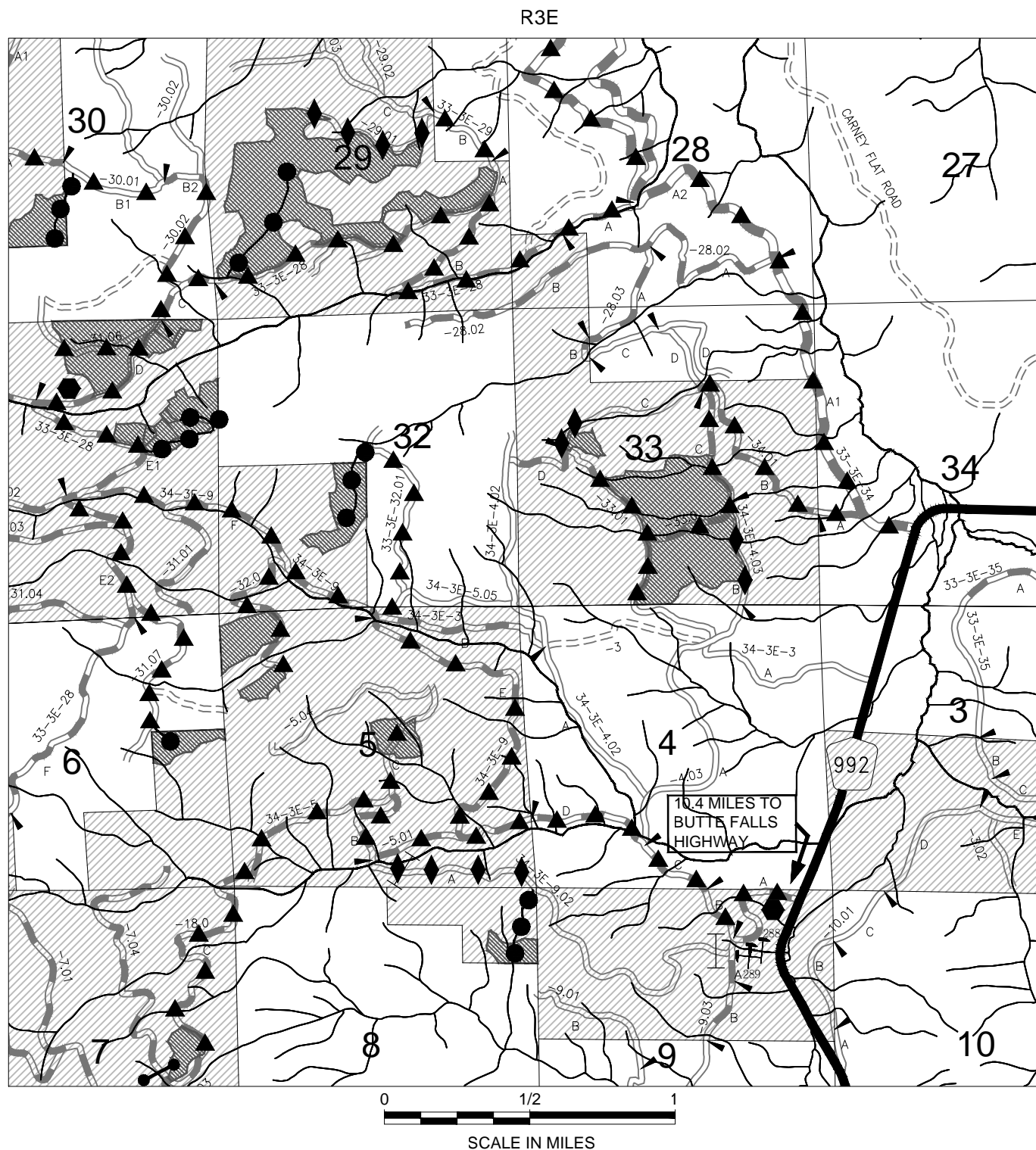










EXHIBIT D2

SHEET 2 OF 2

VINE MAPLE
TIMBER SALE
TRACT NO. ORM05-TS-12-22

- BLM OWNERSHIP 
- T.S. UNITS 
- BST ROAD 
- ROCKED ROAD 
- NATURAL SURFACE ROAD 
- PURCHASER MAINTENANCE 
- TEMPORARY SPUR ROAD 
- DECOMMISSION ROAD 

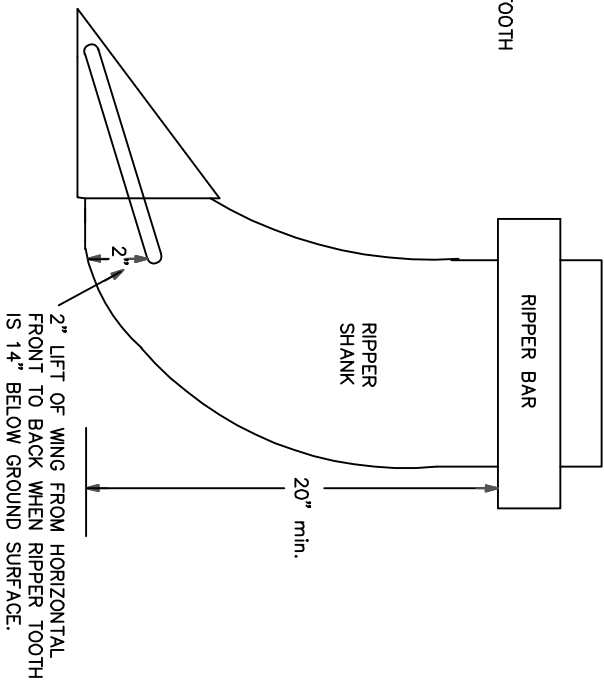
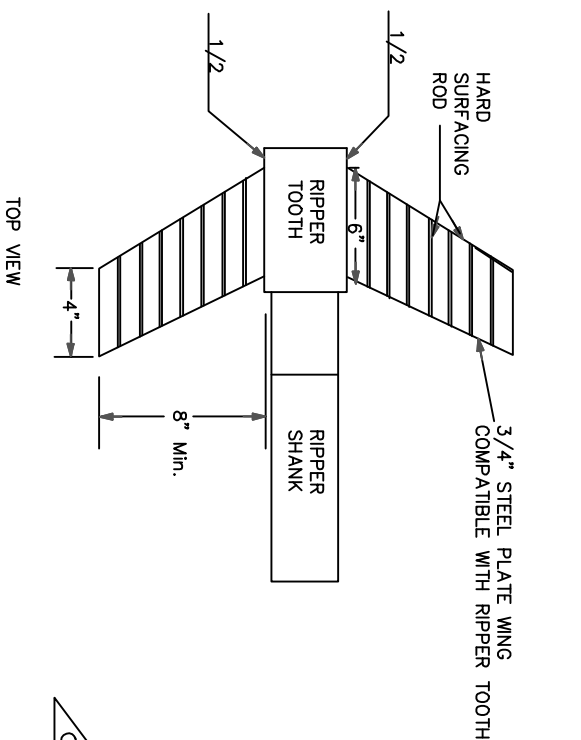
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ALWAYS
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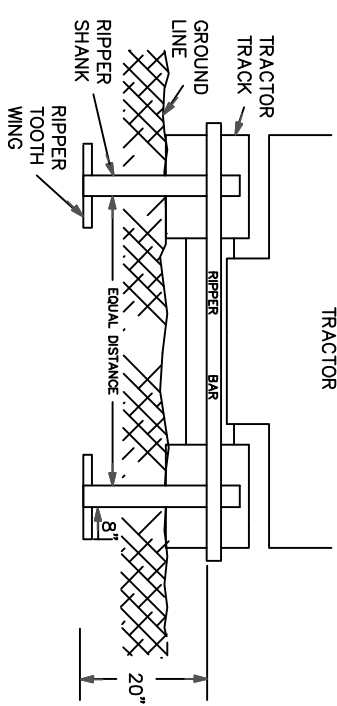


REV. NO.	DESCRIPTION	DATE	APPROV.
UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT MEDFORD DISTRICT - MEDFORD, OREGON			
VINE MAPLE TIMBER SALE ROAD MAINTENANCE MAP			
DESIGNED:			
REVIEWED:			
APPROVED:			
DRAFTED BY: BGS	SCALE: AS SHOWN		
DATE: JULY 2012	SHEET: 2 OF 2		



SIDE 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.

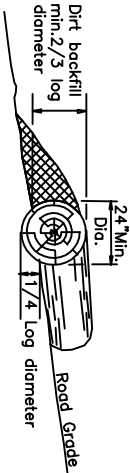
WING RIPPER DETAIL

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
ASHLAND RESOURCE AREA MEDFORD DISTRICT

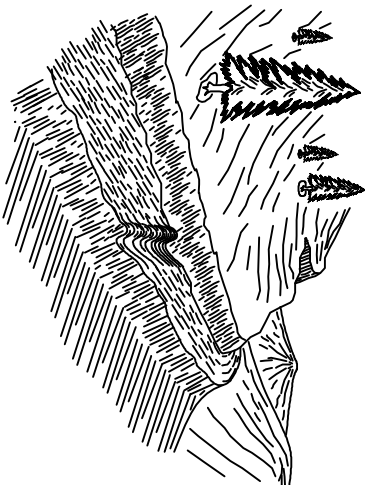
DESIGNED	
REVIEWED	
APPROVED	
CHIEF, DIVISION OF ENGINEERING OR DISTRICT ENGINEER	
DRAWN: JWR	SCALE: NONE
DATE: October 2009	SHEET 1 OF 1
DRAWING NO.	



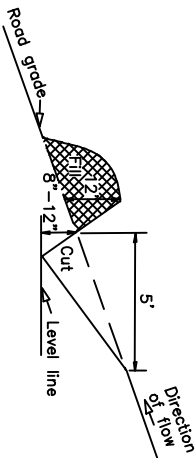
LOG BARRICADE



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".

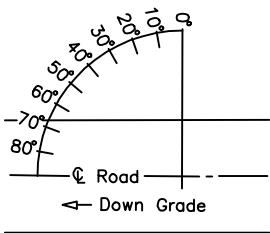


WATER BAR



1. 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
4. UPON COMPLETION OF SKIDDING LOGS, FOR THE LOGGING SEASON, EACH SKID ROAD WILL HAVE CROSS DRAINAGE CONSTRUCTED AS SHOWN ABOVE.
5. PRIOR TO BLOCKING, EACH ROAD WILL HAVE CROSS DRAINAGE CONSTRUCTED AS SHOWN ABOVE.

SKEW DIAGRAM



WATER BAR SPACING *

ROAD GRADE	LOAM OR CLAY LOAM	DECOMPOSED LOAM OR GRANITE
%	FEET	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 SCALE NONE
DATE October 2009 SHEET 1 OF 1
DRAWING NO. OR-11-9113.4-8

**UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
Timber - Sale - Summary**

Medford
Vine Maple
ORM05-TS12-24

Legal Description

Forest Type	Township	Range	Section	Subdivision
PD	33S	2E	24	SW1/4 NE1/4, W1/2 SE1/4.
O&C	33S	2E	25	SE1/4 NE1/4, SE1/4 SW1/4, NE1/4 SE1/4, S1/2 SE1/4.
O&C	33S	3E	29	SW1/4 NE1/4, S1/2 NW1/4, SW1/4, N1/2 SE1/4, SW1/4 SE1/4.
O&C	33S	3E	30	NE1/4 SW1/4.
O&C	33S	3E	31	NE1/4, NE1/4 NW1/4.
O&C	33S	3E	32	E1/2 SW1/4.
O&C	33S	3E	33	S1/2 NW1/4, E1/2 SW1/4, W1/2 SE1/4.
O&C	34S	3E	5	SW1/4 NE1/4, Lot #4, S1/2 NW1/4, NE1/4 SW1/4, NW1/4 SE1/4, SE1/4 SE1/4.
O&C	34S	3E	6	NE1/4 SE1/4.
O&C	34S	3E	7	SE1/4 NE1/4, NE1/4 SE1/4.
O&C	34S	3E	8	NE1/4 NE1/4.

Cutting Volume (16' MBF)

Unit	WF	DF	PP	IC	WH	SP			Total	Regen	Partial	ROW
24-1	651	359		1					1,011	0	72	0
25-1	210	21		0					231	0	15	0
25-2	44	3							47	0	11	0
25-3	53	0							53	0	7	0
30-1	140	55	41	1					237	0	17	0
31-1	139	92		0	1				232	0	18	0
31-2	71	39	1	0					111	0	7	0
31-3A	221	375		4	1				601	0	37	0
31-3B	34	24			0				58	0	4	0
6-1	156	12	1						169	0	10	0
7-1	66	33		0					99	0	8	0
8-1	20	94	1	0		0			115	0	7	0
5-1	86	129		0		0			215	0	10	0
5-2	220	19		0	0				239	0	21	0
32-1	194	112	1	0					307	0	19	0
29-1	1,614	478		14	12	7			2,125	0	127	0
33-1	33	39	0						72	0	4	0
33-2	57	82	1	2	2	1			145	0	10	0
33-3	289	162	74	29	3	1			558	0	75	0
31-2 ROW	38	33	2	0		2			75	0	0	2
32-1 ROW	19	13	0						32	0	0	1
8-1 ROW	5	11	4	0		3			23	0	0	1
Totals	4,360	2,185	126	51	19	14			6,755	0	479	4

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

Medford
Vine Maple
ORM05-TS12-24

Logging Costs per 16' MBF

Stump to Truck	\$	128.72
Transportation	\$	107.90
Road Construction	\$	37.96
Road Amortization	\$	0.06
Road Maintenance	\$	9.03

Other Allowances :

Fuels Treatment	\$ 2.71
Other Costs	\$ 6.69
Total Other Allowances :	\$ 9.40

Total Logging Costs per 16' MBF

\$ 293.07

Utilization Centers

Center #1 : Cave Junction, OR 99 Miles
Center #1 : White City, OR 40 Miles
Weighted distance to Utilization Centers 99

Length of Contract

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

Profit & Risk

Total Profit & Risk 7 %
Basic Profit & Risk 7 % + Additional Risk 0 %
Back Off 0 %

Tract Features

Avg Log White Fir : 84 bf All : 74 bf
Recovery White Fir : 86 % All : 88 %
Salvage White Fir : 0 % All : 0 %
Avg Volume (16' MBF per Acre) 14
Avg Yarding Slope 25 %
Avg Yarding Distance (feet) 500
Avg Age 120
Volume Cable 5 %
Volume Ground 95 %
Volume Aerial 0 %
Road Construction Stations 0.00
Road Improvement Stations 0.00
Road Renovation Stations 0.00
Road Decommission Stations 0.00

Cruise

Cruised By Worman, Parks, Rentz
Date 07/01/2012
Type of Cruise 3P
County, State Jackson, OR

Net Volume

Green (16' MBF) 6,755
Salvage (16' MBF) 0
White Fir Peeler 44
Export Volume 0
Scaling Allowance (\$0.50 per 16' MBF) \$3,377.50

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

Medford
Vine Maple
ORM05-TS12-24

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
WF	12,670	4,360	\$ 381.56	\$ 26.71	\$ 293.07			\$ 61.80	\$ 269,448.00
DF	8,993	2,185	\$ 450.28	\$ 31.52	\$ 293.07	\$ 0.07		\$ 125.80	\$ 274,873.00
PP	1,564	126	\$ 302.33	\$ 21.16	\$ 293.07			\$ 30.20	\$ 3,805.20
IC	1,046	51	\$ 402.75	\$ 28.19	\$ 293.07			\$ 81.50	\$ 4,156.50
WH	137	19	\$ 362.28	\$ 25.36	\$ 293.07			\$ 43.80	\$ 832.20
SP	17	14	\$ 312.87	\$ 21.90	\$ 293.07			\$ 31.30	\$ 438.20
Totals	24,427	6,755							\$ 553,553.10

Log Code by Percent

Species	Code #1	Code #2	Code #3	Code #4	Code #5	Code #6
White Fir			1.0	63.0	32.0	4.0
Incense-cedar				7.0	50.0	43.0
Douglas-fir			2.0	60.0	34.0	4.0
Sugar Pine				88.0	12.0	
Western Hemlock				45.0	44.0	11.0
Ponderosa Pine				30.0	54.0	16.0

Marginal Log Volume

Species	Grade #7	Grade #8
White Fir		
Incense-cedar		
Douglas-fir		16
Sugar Pine		
Western Hemlock		
Ponderosa Pine		

Appraised By : Parks, Corey

Date : 07/17/2012

Area Approval By : Rentz, George

Date : 07/31/2012

District Approval By :

Date :

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

Medford
Vine Maple
ORM05-TS12-24

Prospectus

Appraisal Method : (16' MBF)

Species	Trees	Net Volume 16' MBF	Net Volume 32' MBF	Net Volume CCF
White Fir	12,670	4,360	3,551	7,231
Douglas-fir	8,993	2,185	1,801	3,862
Ponderosa Pine	1,564	126	98	258
Incense-cedar	1,046	51	41	114
Western Hemlock	137	19	15	35
Sugar Pine	17	14	11	19
Total	24,427	6,755	5,517	11,519

All Species

Gross Volume	Number Trees	Avg bf Volume Per Tree	DBH	Gross Merch Volume	Merch Logs	Avg bf Gross Merch Log
7,696	24,427	315	15.9	7,596	102,918	74

Merch Logs	Cull Logs	Total Logs	Logs per Tree	Net Volume	Gross Volume	Recovery
102,918	3,970	106,888	4.4	6,755	7,696	88 %

White Fir

Gross Volume	Number Trees	Avg bf Volume Per Tree	DBH	Gross Merch Volume	Merch Logs	Avg bf Gross Merch Log
5,065	12,670	399	16.4	4,985	59,048	84

Merch Logs	Cull Logs	Total Logs	Logs per Tree	Net Volume	Gross Volume	Recovery
59,048	2,987	62,035	4.9	4,360	5,065	86 %

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

Medford
Vine Maple
ORM05-TS12-24

Cutting Areas

Unit	Regen Acres	Partial Cut Acres	Right Of Way Acres	Total Acres
24-1		72		72
25-1		15		15
25-2		11		11
25-3		7		7
30-1		17		17
31-1		18		18
31-2		7		7
31-3A		37		37
31-3B		4		4
6-1		10		10
7-1		8		8
8-1		7		7
5-1		10		10
5-2		21		21
32-1		19		19
29-1		127		127
33-1		4		4
33-2		10		10
33-3		75		75
31-2 ROW			2	2
32-1 ROW			1	1
8-1 ROW			1	1
Totals :		479	4	483

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

Medford
Vine Maple
ORM05-TS12-24

Exhibit B

The following estimates and calculations of timber sold are made solely as an administrative aid for determining: (1) Adjustments made or credits given in accordance with Sections 6, 9, or 11; (2) When payments are due; and (3) Value of timber subject to any special bonding provisions. The value of timber will be determined by multiplying the value per acre as shown below, times the amount of acreage as determined by the authorized officer, which has been cut or removed or designated for taking.

Except provided in Section 2, Purchaser shall be liable for the total purchase price even though the quantity of timber actually cut or removed or designated for taking is less than the estimated volume or quantity shown. Cutting areas are shown on the Exhibit A.

Sale Totals (16' MBF)

Species	Net Volume	Bid Price	Sale SubTotal
White Fir	4,360		
Douglas-fir	2,185		
Ponderosa Pine	126		
Incense-cedar	51		
Western Hemlock	19		
Sugar Pine	14		
Sale Totals	6,755		

Unit Details (16' MB)

Unit 24-1 **72 Acres** **Value per Acre : \$0.00**

Species	Net Volume	Bid Price	Species Value
Douglas-fir	359		
Incense-cedar	1		
White Fir	651		
Unit Totals	1,011		

Unit 25-1 **15 Acres** **Value per Acre : \$0.00**

Species	Net Volume	Bid Price	Species Value
Douglas-fir	21		
Incense-cedar			
White Fir	210		
Unit Totals	231		

**UNITED STATES
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Medford
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Unit 25-2 11 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	3		
White Fir	44		
Unit Totals	47		

Unit 25-3 7 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir			
White Fir	53		
Unit Totals	53		

Unit 29-1 127 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	478		
Incense-cedar	14		
Sugar Pine	7		
Western Hemlock	12		
White Fir	1,614		
Unit Totals	2,125		

Unit 30-1 17 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	55		
Incense-cedar	1		
Ponderosa Pine	41		
White Fir	140		
Unit Totals	237		

Unit 31-1 18 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	92		
Incense-cedar			
Western Hemlock	1		
White Fir	139		
Unit Totals	232		

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

Medford
Vine Maple
ORM05-TS12-24

Unit 31-2 7 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	39		
Incense-cedar			
Ponderosa Pine	1		
White Fir	71		
Unit Totals	111		

Unit 31-2 ROW 2 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	33		
Incense-cedar			
Ponderosa Pine	2		
Sugar Pine	2		
White Fir	38		
Unit Totals	75		

Unit 31-3A 37 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	375		
Incense-cedar	4		
Western Hemlock	1		
White Fir	221		
Unit Totals	601		

Unit 31-3B 4 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	24		
Western Hemlock			
White Fir	34		
Unit Totals	58		

Unit 32-1 19 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	112		
Incense-cedar			
Ponderosa Pine	1		
White Fir	194		
Unit Totals	307		

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

Medford
Vine Maple
ORM05-TS12-24

Unit 32-1 ROW 1 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	13		
Ponderosa Pine			
White Fir	19		
Unit Totals	32		

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

Species	Net Volume	Bid Price	Species Value
Douglas-fir	39		
Ponderosa Pine			
White Fir	33		
Unit Totals	72		

Unit 33-2 10 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	82		
Incense-cedar	2		
Ponderosa Pine	1		
Sugar Pine	1		
Western Hemlock	2		
White Fir	57		
Unit Totals	145		

Unit 33-3 75 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	162		
Incense-cedar	29		
Ponderosa Pine	74		
Sugar Pine	1		
Western Hemlock	3		
White Fir	289		
Unit Totals	558		

**UNITED STATES
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Medford
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ORM05-TS12-24

Unit 5-1 10 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	129		
Incense-cedar			
Sugar Pine			
White Fir	86		
Unit Totals	215		

Unit 5-2 21 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	19		
Incense-cedar			
Western Hemlock			
White Fir	220		
Unit Totals	239		

Unit 6-1 10 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	12		
Ponderosa Pine	1		
White Fir	156		
Unit Totals	169		

Unit 7-1 8 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	33		
Incense-cedar			
White Fir	66		
Unit Totals	99		

Unit 8-1 7 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	94		
Incense-cedar			
Ponderosa Pine	1		
Sugar Pine			
White Fir	20		
Unit Totals	115		

**UNITED STATES
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BUREAU OF LAND MANAGEMENT**

Medford
Vine Maple
ORM05-TS12-24

Unit 8-1 ROW 1 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	11		
Incense-cedar			
Ponderosa Pine	4		
Sugar Pine	3		
White Fir	5		
Unit Totals	23		

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

Medford
Vine Maple
ORM05-TS12-24

Sale Volume Totals

483 Acres 0 Regen 479 Partial 4 R/W 22 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
White Fir	12,670	59,048	2,987	4,360	4,985	5,065	3,551	4,081	4,149	7,231	8,228	8,384
Douglas-fir	8,993	37,322	606	2,185	2,379	2,389	1,801	1,966	1,976	3,862	4,201	4,224
Ponderosa Pine	1,564	4,028	315	126	140	146	98	111	117	258	287	300
Incense-cedar	1,046	2,087	0	51	56	56	41	44	44	114	125	125
Western Hemlock	137	392	28	19	22	23	15	18	18	35	41	43
Sugar Pine	17	41	34	14	14	17	11	12	14	19	20	25
Totals	24,427	102,918	3,970	6,755	7,596	7,696	5,517	6,232	6,318	11,519	12,902	13,101

Unit Totals

Unit : 24-1 72 Acres 0 Regen 72 Partial 0 R/W

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
White Fir	1,763	8,813	446	756	744	651
Douglas-fir	1,206	6,129	99	392	391	359
Incense-cedar	25	57		2	2	1
Unit Totals	2,994	14,999	545	1,150	1,137	1,011

Unit : 25-1 15 Acres 0 Regen 15 Partial 0 R/W

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
White Fir	306	2,850	144	244	241	210
Douglas-fir	39	366	6	23	23	21
Incense-cedar	1	2				
Unit Totals	346	3,218	150	267	264	231

Unit : 25-2 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
White Fir	113	599	30	51	51	44
Douglas-fir	7	46	1	3	3	3
Unit Totals	120	645	31	54	54	47

**UNITED STATES
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BUREAU OF LAND MANAGEMENT**

Medford
Vine Maple
ORM05-TS12-24

Unit : 25-3 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
White Fir	122	720	36	62	61	53
Douglas-fir	1	4				
Unit Totals	123	724	36	62	61	53

Unit : 30-1 17 Acres 0 Regen 17 Partial 0 R/W

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
White Fir	553	1,903	96	163	161	140
Douglas-fir	253	940	15	60	60	55
Ponderosa Pine	396	1,305	102	47	45	41
Incense-cedar	14	21		1	1	1
Unit Totals	1,216	4,169	213	271	267	237

Unit : 31-1 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
White Fir	581	1,884	95	162	159	139
Douglas-fir	453	1,565	25	100	100	92
Western Hemlock	9	25	2	1	1	1
Incense-cedar	7	13				
Unit Totals	1,050	3,487	122	263	260	232

Unit : 31-2 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
White Fir	262	961	49	82	81	71
Douglas-fir	156	673	11	43	43	39
Ponderosa Pine	6	21	2	1	1	1
Incense-cedar	4	6				
Unit Totals	428	1,661	62	126	125	111

Unit : 31-3A 37 Acres 0 Regen 37 Partial 0 R/W

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	1,870	6,404	104	410	408	375
White Fir	815	3,000	152	257	253	221
Incense-cedar	104	183		5	5	4
Western Hemlock	14	25	2	2	1	1
Unit Totals	2,803	9,612	258	674	667	601

**UNITED STATES
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Medford
Vine Maple
ORM05-TS12-24

Unit : 31-3B 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
White Fir	124	461	23	40	39	34
Douglas-fir	149	406	7	26	26	24
Western Hemlock	2	2				
Unit Totals	275	869	30	66	65	58

Unit : 6-1 10 Acres 0 Regen 10 Partial 0 R/W

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
White Fir	410	2,107	107	181	178	156
Douglas-fir	40	206	3	13	13	12
Ponderosa Pine	12	20	2	1	1	1
Unit Totals	462	2,333	112	195	192	169

Unit : 7-1 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
White Fir	181	897	45	77	76	66
Douglas-fir	78	569	9	36	36	33
Incense-cedar	1	2				
Unit Totals	260	1,468	54	113	112	99

Unit : 8-1 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	418	1,603	26	103	102	94
White Fir	55	271	14	23	23	20
Ponderosa Pine	12	23	2	1	1	1
Incense-cedar	4	7				
Sugar Pine	1	1	1			
Unit Totals	490	1,905	43	127	126	115

Unit : 5-1 10 Acres 0 Regen 10 Partial 0 R/W

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	395	2,210	36	141	141	129
White Fir	255	1,169	59	100	99	86
Incense-cedar	2	4				
Sugar Pine	1	1	1			
Unit Totals	653	3,384	96	241	240	215

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

Medford
Vine Maple
ORM05-TS12-24

Unit : 5-2 21 Acres 0 Regen 21 Partial 0 R/W

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
White Fir	421	2,980	151	256	252	220
Douglas-fir	61	329	5	21	21	19
Incense-cedar	3	14				
Western Hemlock	1	1				
Unit Totals	486	3,324	156	277	273	239

Unit : 32-1 19 Acres 0 Regen 19 Partial 0 R/W

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
White Fir	760	2,634	133	226	222	194
Douglas-fir	580	1,921	31	123	122	112
Ponderosa Pine	15	38	3	1	1	1
Incense-cedar	2	12				
Unit Totals	1,357	4,605	167	350	345	307

Unit : 29-1 127 Acres 0 Regen 127 Partial 0 R/W

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
White Fir	4,455	21,833	1,105	1,873	1,842	1,614
Douglas-fir	1,846	8,145	133	524	520	478
Western Hemlock	73	239	17	14	14	12
Incense-cedar	179	466		13	13	14
Sugar Pine	9	20	17	9	7	7
Unit Totals	6,562	30,703	1,272	2,433	2,396	2,125

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	204	669	11	43	43	39
White Fir	114	442	22	38	37	33
Ponderosa Pine	5	11	1			
Unit Totals	323	1,122	34	81	80	72

Unit : 33-2 10 Acres 0 Regen 10 Partial 0 R/W

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	276	1,394	23	89	89	82
White Fir	142	771	39	66	65	57
Incense-cedar	52	95		3	3	2
Western Hemlock	11	31	2	2	2	2

**UNITED STATES
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Medford
Vine Maple
ORM05-TS12-24

Ponderosa Pine	17	34	3	1	1	1
Sugar Pine	1	4	3	2	1	1
Unit Totals	499	2,329	70	163	161	145

Unit : 33-3 75 Acres 0 Regen 75 Partial 0 R/W

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
White Fir	1,024	3,916	198	336	331	289
Douglas-fir	798	2,765	45	177	176	162
Ponderosa Pine	1,037	2,386	185	87	83	74
Incense-cedar	643	1,190		32	32	29
Western Hemlock	27	69	5	4	4	3
Sugar Pine	2	2	2	1	1	1
Unit Totals	3,531	10,328	435	637	627	558

Unit : 31-2 ROW 2 Acres 0 Regen 0 Partial 2 R/W

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
White Fir	133	514	26	44	43	38
Douglas-fir	91	567	9	36	36	33
Ponderosa Pine	17	53	4	2	2	2
Sugar Pine	1	5	4	2	2	2
Incense-cedar	2	5				
Unit Totals	244	1,144	43	84	83	75

Unit : 32-1 ROW 1 Acres 0 Regen 0 Partial 1 R/W

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
White Fir	64	253	13	22	21	19
Douglas-fir	40	219	4	14	14	13
Ponderosa Pine	1	2				
Unit Totals	105	474	17	36	35	32

Unit : 8-1 ROW 1 Acres 0 Regen 0 Partial 1 R/W

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	32	192	3	12	12	11
White Fir	17	70	4	6	6	5
Ponderosa Pine	46	135	11	5	5	4
Sugar Pine	2	8	6	3	3	3
Incense-cedar	3	10				
Unit Totals	100	415	24	26	26	23

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

Medford
Vine Maple
ORM05-TS12-24

Stump to Truck Costs

Total (16' MBF)

Total Stump to Truck Costs	Net Volume	Cost / Net Volume
\$ 869,507.39	6,755	\$ 128.72

Detail

Yarding & Loading

Yarding System	Unit Of Measure	Units	Cost / Unit	Total Cost
Wheel Skidder	GMMBF	3,750	\$ 115.15	\$ 431,812.50
Med Twr=40-70	GMMBF	379	\$ 212.81	\$ 80,654.99
Wheel Skidder	GMMBF	3,467	\$ 101.70	\$ 352,593.90
Subtotal				\$ 865,061.39

Other Costs

Explanation	Unit Of Measure	Units	Cost / Unit	Total Cost
directional falling	MBF	100	\$ 11.46	\$ 1,146.00
Lift Tree	1 tree	2	\$ 150.00	\$ 300.00
Intermediate supports	1 tree	6	\$ 250.00	\$ 1,500.00
Subtotal				\$ 2,946.00

Additional Move-Ins

Equipment	# Move-In	Cost / Move In	Total Cost
Yarder / Loader	1	\$ 1,500.00	\$ 1,500.00
Subtotal			\$ 1,500.00

**UNITED STATES
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Medford
Vine Maple
ORM05-TS12-24

Other Allowances Costs

Total (16' MBF)

Total Other Allowances Costs	Net Volume	Cost / Net Volume *	Total Buy Out Cost
\$63,525.00	6,755	\$9.40	\$0.00

Fuels Treatment

Detail (16' MBF)

Cost Item	Total Cost	Cost / Net Vol *	Buy Out	Buy Out Cost
Lop and Scatter-Lvl 1	\$ 6,750.00	\$ 1.00	N	\$ 0.00
Hand Pile Brn-Level 1	\$ 1,080.00	\$ 0.16	N	\$ 0.00
Hand Pile, Cvr - Level 1	\$ 10,500.00	\$ 1.55	N	\$ 0.00
Subtotal	\$ 18,330.00	\$ 2.71		\$ 0.00

Other Costs

Detail (16' MBF)

Cost Item	Total Cost	Cost / Net Vol *	Buy Out	Buy Out Cost
Skid Location	\$ 1,920.00	\$ 0.28	N	\$ 0.00
Skid Construction	\$ 6,750.00	\$ 1.00	N	\$ 0.00
Landing Construction	\$ 3,375.00	\$ 0.50	N	\$ 0.00
Waterbar Skids	\$ 9,000.00	\$ 1.33	N	\$ 0.00
Equipment Washing	\$ 1,500.00	\$ 0.22	N	\$ 0.00
Landing Clean up	\$ 6,750.00	\$ 1.00	N	\$ 0.00
Mulching (2 hours/5 bales)	\$ 13,500.00	\$ 2.00	N	\$ 0.00
Ripping	\$ 2,400.00	\$ 0.36	N	\$ 0.00
Subtotal	\$ 45,195.00	\$ 6.69		\$ 0.00

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

**UNITED STATES
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BUREAU OF LAND MANAGEMENT
Consolidated Comments**

Medford
Vine Maple
ORM05-TS12-24

General

Yarding & Loading

Wheel skidder= manual falling trees >20", skidding, and loading
Wheel skidder #2 = Feller buncher trees <20", skidding, stroke delimbing, and loading
Additional yarder move-in from sec.31 to sec.25
Lift tree = climbing lift tree above 35' in unit 31-1 as per lead layout
Intermediate supports = in unit 31-1 and 31-3B as per lead layout

Road Costs

New ROW construction, decommissioning(block, rip, seed and mulch) is included in above construction costs per engingeer dept.

(see Engineering Appraisal for details).

Transportation

Rough & Ready Mill is nearest SBA Mill and is south of Cave Junction. Mileage is one-way.

(see Transportation appendix for details).

Other Allowances

Skid location = Flagging designated skids across 450 acres
Skid construction = cat time to clear skids (assuming 5ac construction/hr @ \$75/hr)
Landing construction = cat time to construct/renovate landing (1 hr per landing)
Waterbar skids = cat time to construct waterbars (assuming 30ac/day= 15 days days*8hrs/day=120hrs)
Equipment washing = 2hr per piece of equipment at \$75/hr (assuming 10 pieces of equipment
Landing cleanup = 2 hr per landing for 45 landings (includes placing blocks on skids)
Mulching = hand seeding and mulching 45 landings @ 1/4ac. each, and first 100' of skids
Fuels Treatment = per Fuels shop, SD5
Ripping = all cat landings, rip main skids in 5-1,5-2,6-1,7-1,8-1,32-1(deferred landing)

Prospectus



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

District : Medford
Sale Name : Vine Maple
Sale Date : 09/13/2012
Appraisal Method : 16' MBF

Contract # : ORM05-TS12-24
Job File # : M11286
Master Unit : Jackson
Planning Unit : Butte Falls

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UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Summary of All Roads and Projects

T.S. Update 05/15/12

T.S. Contract Name: Vine Maple Sale Date: Sept 2012

Prepared by: L. Kalvels Ph: 2288 Print Date: 7/23/2012 3:15:15 PM

Construction: 99.26 sta (Surfaced 0.00 sta Natural 99.26 sta)

Improve: 27.46 sta Renov: 1586.13 sta Decom: 0.00 sta Temp: 0.00 sta

200 Clearing and Grubbing: 2.9 acres	\$9,363.50
Clearing: 107.0 sta Grubbing: 2.5 acres	
Slash Treatment: 2.9 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:	\$53,301.56
Blading 32.36 mi	
Surfacing:	\$116,632.48
800 Quarry Name: Round Mt 5,923 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: 28.2 acres	\$29,946.24
2200 Surface Treatment: 0.0 tons	\$0.00
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$26,875.00
Mobilization: Const. \$0.00 Surf. \$10,000.00.....	\$10,000.00
Quarry Development:	\$10,000.00

Total: 6,755 mbf @ \$37.92/mbf = \$256,118.79

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\12Vinemapple\5-Road Cost Info -
Complete\vinecosts.mdb

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Vine Maple Sale Date: Sept 2012

Road Number: 33-2E-25.00 Road Name: Round Mt. Spur 1

Road Renovation: 0.66 mi 14 ft Subgrade 0 ft ditch

T.S. Update 05/15/12

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:	\$1,201.23
Blading 0.66 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	\$660.34
2200 Surface Treatment: 0.0 tons	\$0.00
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$750.00
Mobilization: Const. \$0.00 Surf. \$0.00.....	\$0.00
Quarry Development:	\$0.00
Total:	\$2,611.56

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: Vine Maple Sale Date: Sept 2012

Road Number: 33-2E-25.02A Road Name: Golden Spike A

Road Renovation: 0.42 mi 16 ft Subgrade 3 ft ditch

T.S. Update 05/15/12

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:	\$659.32
Blading 0.42 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	\$440.22
2200 Surface Treatment: 0.0 tons	\$0.00
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: \$1,099.54

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: Vine Maple Sale Date: Sept 2012

Road Number: 33-2E-25.02B Road Name: Golden Spike B

Road Renovation: 0.18 mi 14 ft Subgrade 0 ft ditch

T.S. Update 05/15/12

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:	\$234.99
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	\$220.11
2200 Surface Treatment: 0.0 tons	\$0.00
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$1,000.00
Mobilization: Const. \$0.00 Surf. \$0.00.....	\$0.00
Quarry Development:	\$0.00

Total: \$1,455.10

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: Vine Maple Sale Date: Sept 2012

Road Number: 33-2E-25.03A Road Name: Round MT. Quarry A

Road Renovation: 0.19 mi 16 ft Subgrade 3 ft ditch

T.S. Update 05/15/12

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:	\$241.51
Blading 0.19 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	\$220.11
2200 Surface Treatment: 0.0 tons	\$0.00
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: \$461.62

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: Vine Maple Sale Date: Sept 2012

Road Number: 33-2E-25.03B Road Name: Round Mt. Quarry B

Road Renovation: 0.12 mi 14 ft Subgrade 3 ft ditch

T.S. Update 05/15/12

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:	\$156.66
Blading 0.12 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	\$110.06
2200 Surface Treatment: 0.0 tons	\$0.00
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:	\$266.72

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: Vine Maple Sale Date: Sept 2012

Road Number: 33-2E-33.00 Road Name: Medco B / 33.00

Road Renovation: 0.43 mi 16 ft Subgrade 3 ft ditch

T.S. Update 05/15/12

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:	\$668.48
Blading 0.43 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	\$440.22
2200 Surface Treatment: 0.0 tons	\$0.00
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: \$1,108.71

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: Vine Maple Sale Date: Sept 2012

Road Number: 33-3E-19.00A1 Road Name: Medco B / 19.00

Road Renovation: 0.11 mi 16 ft Subgrade 3 ft ditch

T.S. Update 05/15/12

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:	\$166.14
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	\$110.06
2200 Surface Treatment: 0.0 tons	\$0.00
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:	\$276.20

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: Vine Maple Sale Date: Sept 2012

Road Number: 33-3E-19.00A2 Road Name: Medco B / 19.00

Road Renovation: 0.31 mi 16 ft Subgrade 3 ft ditch

T.S. Update 05/15/12

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:	\$480.11
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: 0.3 acres	\$330.17
2200 Surface Treatment: 0.0 tons	\$0.00
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:	\$810.27

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: Vine Maple Sale Date: Sept 2012

Road Number: 33-3E-19.00B Road Name: Medco B

Road Renovation: 0.55 mi 16 ft Subgrade 3 ft ditch

T.S. Update 05/15/12

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:	\$856.86
Blading 0.55 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	\$55.03
2200 Surface Treatment: 0.0 tons	\$0.00
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: \$911.89

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: Vine Maple Sale Date: Sept 2012

Road Number: 33-3E-19.00C Road Name: Medco B/ 19.00

Road Renovation: 0.43 mi 16 ft Subgrade 3 ft ditch

T.S. Update 05/15/12

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:	\$668.48
Blading 0.43 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	\$440.22
2200 Surface Treatment: 0.0 tons	\$0.00
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: \$1,108.71

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: Vine Maple Sale Date: Sept 2012

Road Number: 33-3E-19.01A Road Name: PowerhouseviewA

Road Renovation: 1.02 mi 14 ft Subgrade 3 ft ditch

T.S. Update 05/15/12

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:	\$1,751.21
Blading 1.02 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	\$1,100.56
2200 Surface Treatment: 0.0 tons	\$0.00
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: \$2,851.77

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: Vine Maple Sale Date: Sept 2012

Road Number: 33-3E-19.01B Road Name: Powerhouse viewB

Road Renovation: 0.89 mi 14 ft Subgrade 0 ft ditch

T.S. Update 05/15/12

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:	\$3,344.66
Blading 0.89 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	\$990.50
2200 Surface Treatment: 0.0 tons	\$0.00
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: \$4,335.16

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: Vine Maple Sale Date: Sept 2012

Road Number: 33-3E-19.01C Road Name: PowerhouseC

Road Renovation: 0.13 mi 14 ft Subgrade 0 ft ditch

T.S. Update 05/15/12

200 Clearing and Grubbing: 0.1 acres	\$284.84
Clearing:10.6 sta Grubbing:0.1 acres	
Slash Treatment:0.1 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:	\$233.29
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: 0.1 acres	\$110.06
2200 Surface Treatment: 0.0 tons	\$0.00
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$1,500.00
Mobilization: Const. \$0.00 Surf. \$0.00.....	\$0.00
Quarry Development:	\$0.00
Total:	\$2,128.18

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: Vine Maple Sale Date: Sept 2012

Road Number: 33-3E-28.00A Road Name: Divide/Round Mt.

Road Renovation: 0.26 mi 16 ft Subgrade 3 ft ditch

T.S. Update 05/15/12

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:	\$408.15
Blading 0.26 mi	
Surfacing:	\$5,650.56
800 Quarry Name: Round Mt 288 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	\$330.17
2200 Surface Treatment: 0.0 tons	\$0.00
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. \$486.24.....	\$486.24
Quarry Development:	\$486.24
Total:	\$7,361.36

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: Vine Maple Sale Date: Sept 2012

Road Number: 33-3E-28.00B Road Name: Divide, Round Mt B

Road Renovation: 2.16 mi 16 ft Subgrade 3 ft ditch

T.S. Update 05/15/12

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:	\$3,390.79
Blading 2.16 mi	
Surfacing:	\$45,871.56
800 Quarry Name: Round Mt 2,338 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: 2.1 acres	\$2,311.18
2200 Surface Treatment: 0.0 tons	\$0.00
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. \$3,947.32.....	\$3,947.32
Quarry Development:	\$3,947.32
Total:	\$59,468.17

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: Vine Maple Sale Date: Sept 2012

Road Number: 33-3E-28.00C Road Name: Divide/Round Mt.

Road Renovation: 0.23 mi 16 ft Subgrade 3 ft ditch

T.S. Update 05/15/12

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:	\$367.59
Blading 0.23 mi	
Surfacing:	\$5,042.34
800 Quarry Name: Round Mt 257 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: 0.2 acres	\$220.11
2200 Surface Treatment: 0.0 tons	\$0.00
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. \$433.90.....	\$433.90
Quarry Development:	\$433.90
Total:	\$6,497.85

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: Vine Maple Sale Date: Sept 2012

Road Number: 33-3E-28.00D Road Name: Divide/Round Mt.

Road Renovation: 0.67 mi 16 ft Subgrade 3 ft ditch

T.S. Update 05/15/12

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:	\$1,045.24
Blading 0.67 mi	
Surfacing:	\$14,381.46
800 Quarry Name: Round Mt 733 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: 0.6 acres	\$660.34
2200 Surface Treatment: 0.0 tons	\$0.00
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. \$1,237.55.....	\$1,237.55
Quarry Development:	\$1,237.55
Total:	\$18,562.13

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: Vine Maple Sale Date: Sept 2012

Road Number: 33-3E-28.00E1 Road Name: Divide/Round Mt.

Road Renovation: 0.46 mi 16 ft Subgrade 3 ft ditch

T.S. Update 05/15/12

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:	\$722.11
Blading 0.46 mi	
Surfacing:	\$10,104.30
800 Quarry Name: Round Mt 515 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: 0.2 acres	\$220.11
2200 Surface Treatment: 0.0 tons	\$0.00
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. \$869.49.....	\$869.49
Quarry Development:	\$869.49
Total:	\$12,785.51

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: Vine Maple Sale Date: Sept 2012

Road Number: 33-3E-28.00E2 Road Name: Divide/Round Mt.

Road Renovation: 0.55 mi 16 ft Subgrade 3 ft ditch

T.S. Update 05/15/12

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:	\$856.86
Blading 0.55 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	\$550.28
2200 Surface Treatment: 0.0 tons	\$0.00
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: \$1,407.14

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: Vine Maple Sale Date: Sept 2012

Road Number: 33-3E-28.01A1 Road Name: Medco B/28.01

Road Renovation: 2.53 mi 16 ft Subgrade 3 ft ditch

T.S. Update 05/15/12

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:	\$3,965.08
Blading 2.53 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: 2.5 acres	\$2,751.40
2200 Surface Treatment: 0.0 tons	\$0.00
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: \$6,716.48

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: Vine Maple Sale Date: Sept 2012

Road Number: 33-3E-28.01A2 Road Name: Medco B/28.01

Road Renovation: 0.06 mi 16 ft Subgrade 3 ft ditch

T.S. Update 05/15/12

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:	\$94.19
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	\$110.06
2200 Surface Treatment: 0.0 tons	\$0.00
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:	\$204.24

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: Vine Maple Sale Date: Sept 2012

Road Number: 33-3E-28.01B Road Name: MedcoB/28.01

Road Renovation: 0.61 mi 16 ft Subgrade 3 ft ditch

T.S. Update 05/15/12

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:	\$951.05
Blading 0.61 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	\$660.34
2200 Surface Treatment: 0.0 tons	\$0.00
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: \$1,611.38

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: Vine Maple Sale Date: Sept 2012

Road Number: 33-3E-28.01C Road Name: MedcoB /28.01

Road Renovation: 0.12 mi 16 ft Subgrade 3 ft ditch

T.S. Update 05/15/12

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:	\$188.38
Blading 0.12 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	\$110.06
2200 Surface Treatment: 0.0 tons	\$0.00
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:	\$298.43

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: Vine Maple Sale Date: Sept 2012

Road Number: 33-3E-29.00A Road Name: Blue Goose Springs

Road Renovation: 0.11 mi 14 ft Subgrade 3 ft ditch

T.S. Update 05/15/12

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:	\$566.14
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	\$110.06
2200 Surface Treatment: 0.0 tons	\$0.00
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:	\$676.20

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: Vine Maple Sale Date: Sept 2012

Road Number: 33-3E-29.00B Road Name: Blue Goose Springs

Road Renovation: 0.27 mi 14 ft Subgrade 3 ft ditch

T.S. Update 05/15/12

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:	\$817.31
Blading 0.27 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	\$330.17
2200 Surface Treatment: 0.0 tons	\$0.00
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: \$1,147.48

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: Vine Maple Sale Date: Sept 2012

Road Number: 33-3E-29.00C Road Name: Blue goose Springs

Road Renovation: 0.03 mi 14 ft Subgrade 3 ft ditch

T.S. Update 05/15/12

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:	\$40.56
Blading 0.03 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	\$110.06
2200 Surface Treatment: 0.0 tons	\$0.00
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:	\$450.61

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: Vine Maple Sale Date: Sept 2012

Road Number: 33-3E-29.01 Road Name: Reinecke Burn

Road Improvement: 0.52 mi 14 ft Subgrade 0 ft ditch T.S. Update 05/15/12

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:	\$816.30
Blading 0.52 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	\$275.14
2200 Surface Treatment: 0.0 tons	\$0.00
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$4,500.00
Mobilization: Const. \$0.00 Surf. \$0.00.....	\$0.00
Quarry Development:	\$0.00
Total:	\$5,591.44

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: Vine Maple Sale Date: Sept 2012

Road Number: 33-3E-30.00 Road Name: Thunder Road

Road Renovation: 0.55 mi 14 ft Subgrade 3 ft ditch

T.S. Update 05/15/12

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:	\$856.86
Blading 0.55 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	\$550.28
2200 Surface Treatment: 0.0 tons	\$0.00
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: \$1,407.14

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: Vine Maple Sale Date: Sept 2012

Road Number: 33-3E-30.01A Road Name: Rocky Road A

Road Renovation: 0.57 mi 14 ft Subgrade 3 ft ditch

T.S. Update 05/15/12

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:	\$658.33
Blading 0.57 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	\$330.17
2200 Surface Treatment: 0.0 tons	\$0.00
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:	\$988.50

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: Vine Maple Sale Date: Sept 2012

Road Number: 33-3E-30.01B Road Name: Rocky Road B

Road Renovation: 0.49 mi 14 ft Subgrade 0 ft ditch

T.S. Update 05/15/12

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:	\$2,891.82
Blading 0.49 mi	
Surfacing:	\$11,930.94
800 Quarry Name: Round Mt 714 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: 0.5 acres	\$275.14
2200 Surface Treatment: 0.0 tons	\$0.00
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. \$1,205.47.....	\$1,205.47
Quarry Development:	\$1,205.47
Total:	\$17,508.84

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: Vine Maple Sale Date: Sept 2012

Road Number: 33-3E-30.02 Road Name: Bourbon 30.02

Road Renovation: 0.45 mi 14 ft Subgrade 3 ft ditch

T.S. Update 05/15/12

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:	\$699.88
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	\$220.11
2200 Surface Treatment: 0.0 tons	\$0.00
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:	\$919.99

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: Vine Maple Sale Date: Sept 2012

Road Number: 33-3E-31.06 Road Name: Sec. 31 N Spur

Road Renovation: 0.47 mi 14 ft Subgrade 0 ft ditch

T.S. Update 05/15/12

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:	\$607.05
Blading 0.47 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: 0.5 acres	\$550.28
2200 Surface Treatment: 0.0 tons	\$0.00
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$675.00
Mobilization: Const. \$0.00 Surf. \$0.00.....	\$0.00
Quarry Development:	\$0.00

Total: \$1,832.33

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: Vine Maple Sale Date: Sept 2012

Road Number: 33-3E-31.07 Road Name: Bourbon Spur 7

Road Renovation: 0.62 mi 14 ft Subgrade 3 ft ditch

T.S. Update 05/15/12

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:	\$973.28
Blading 0.62 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	\$660.34
2200 Surface Treatment: 0.0 tons	\$0.00
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: \$1,633.62

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: Vine Maple Sale Date: Sept 2012

Road Number: 33-3E-32.00 Road Name: South Vine Maple Sp

Road Renovation: 0.70 mi 14 ft Subgrade 3 ft ditch

T.S. Update 05/15/12

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:	\$1,098.87
Blading 0.70 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	\$330.17
2200 Surface Treatment: 0.0 tons	\$0.00
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: \$1,429.04

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: Vine Maple Sale Date: Sept 2012

Road Number: 33-3E-32.01 Road Name: Sec.32

Road Renovation: 0.61 mi 14 ft Subgrade 3 ft ditch

T.S. Update 05/15/12

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:	\$951.05
Blading 0.61 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	\$660.34
2200 Surface Treatment: 0.0 tons	\$0.00
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: \$1,611.38

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: Vine Maple Sale Date: Sept 2012

Road Number: 33-3E-33.00 Road Name: Vine Maple Connect

Road Renovation: 0.34 mi 14 ft Subgrade 3 ft ditch

T.S. Update 05/15/12

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:	\$533.74
Blading 0.34 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	\$330.17
2200 Surface Treatment: 0.0 tons	\$0.00
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:	\$863.90

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: Vine Maple Sale Date: Sept 2012

Road Number: 33-3E-33.01 Road Name: Vine Maple Spur

Road Renovation: 0.70 mi 14 ft Subgrade 3 ft ditch

T.S. Update 05/15/12

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:	\$1,098.87
Blading 0.70 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	\$770.39
2200 Surface Treatment: 0.0 tons	\$0.00
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: \$1,869.26

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: Vine Maple Sale Date: Sept 2012

Road Number: 33-3E-34.00A1 Road Name: Medco A

Road Renovation: 1.12 mi 1 ft Subgrade 3 ft ditch

T.S. Update 05/15/12

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:	\$1,758.19
Blading 1.12 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: 1.1 acres	\$1,210.62
2200 Surface Treatment: 0.0 tons	\$0.00
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: \$2,968.80

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: Vine Maple Sale Date: Sept 2012

Road Number: 33-3E-34.00A2 Road Name: Medco A

Road Renovation: 0.73 mi 16 ft Subgrade 3 ft ditch

T.S. Update 05/15/12

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:	\$1,139.43
Blading 0.73 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	\$770.39
2200 Surface Treatment: 0.0 tons	\$0.00
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: \$1,909.82

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: Vine Maple Sale Date: Sept 2012

Road Number: 33-3E-34.00B1 Road Name: Medco A

Road Renovation: 0.01 mi 16 ft Subgrade 3 ft ditch

T.S. Update 05/15/12

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:	\$22.23
Blading 0.01 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	\$110.06
2200 Surface Treatment: 0.0 tons	\$0.00
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:	\$132.29

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: Vine Maple Sale Date: Sept 2012

Road Number: 33-3E-34.01A Road Name: Elk Glade Spur

Road Renovation: 0.16 mi 14 ft Subgrade 3 ft ditch

T.S. Update 05/15/12

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:	\$355.75
Blading 0.16 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: 0.2 acres	\$176.09
2200 Surface Treatment: 0.0 tons	\$0.00
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:	\$531.84

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: Vine Maple Sale Date: Sept 2012

Road Number: 33-3E-34.01B Road Name: Elk Glade Spur

Road Renovation: 0.50 mi 14 ft Subgrade 3 ft ditch

T.S. Update 05/15/12

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:	\$784.91
Blading 0.50 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	\$220.11
2200 Surface Treatment: 0.0 tons	\$0.00
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: \$1,005.02

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: Vine Maple Sale Date: Sept 2012

Road Number: 33-3E-34.01C Road Name: Elk Glade Spur

Road Renovation: 0.08 mi 14 ft Subgrade 0 ft ditch

T.S. Update 05/15/12

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:	\$125.58
Blading 0.08 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	\$110.06
2200 Surface Treatment: 0.0 tons	\$0.00
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$850.00
Mobilization: Const. \$0.00 Surf. \$0.00.....	\$0.00
Quarry Development:	\$0.00

Total: \$1,085.64

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: Vine Maple Sale Date: Sept 2012

Road Number: 34-3E-03.00 Road Name: North Fork Vine Mapl

Road Renovation: 0.02 mi 14 ft Subgrade 3 ft ditch T.S. Update 05/15/12

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:	\$31.40
Blading 0.02 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	\$110.06
2200 Surface Treatment: 0.0 tons	\$0.00
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:	\$141.45

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: Vine Maple Sale Date: Sept 2012
Road Number: 34-3E-04.03B Road Name: Vine maple N Spur
 Road Renovation: 0.35 mi 14 ft Subgrade 3 ft ditch

T.S. Update 05/15/12

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:	\$542.90
Blading 0.35 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	\$330.17
2200 Surface Treatment: 0.0 tons	\$0.00
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$2,650.00
Mobilization: Const. \$0.00 Surf. \$0.00.....	\$0.00
Quarry Development:	\$0.00
Total:	\$3,523.07

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: Vine Maple Sale Date: Sept 2012

Road Number: 34-3E-04.03C Road Name: Vine Maple spur

Road Renovation: 0.43 mi 14 ft Subgrade 3 ft ditch

T.S. Update 05/15/12

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:	\$668.48
Blading 0.43 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	\$440.22
2200 Surface Treatment: 0.0 tons	\$0.00
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: \$1,108.71

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: Vine Maple Sale Date: Sept 2012

Road Number: 34-3E-05.00 Road Name: Vine Maple Spur

Road Renovation: 0.56 mi 14 ft Subgrade 3 ft ditch

T.S. Update 05/15/12

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:	\$852.95
Blading 0.56 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	\$550.28
2200 Surface Treatment: 0.0 tons	\$0.00
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: \$1,403.23

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: Vine Maple Sale Date: Sept 2012

Road Number: 34-3E-05.01 Road Name: Vine Maple Spur 1

Road Renovation: 0.31 mi 16 ft Subgrade 3 ft ditch

T.S. Update 05/15/12

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:	\$480.11
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: 0.3 acres	\$330.17
2200 Surface Treatment: 0.0 tons	\$0.00
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:	\$810.27

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: Vine Maple Sale Date: Sept 2012

Road Number: 34-3E-05.05 Road Name: N Fork Vine Maple 5

Road Renovation: 0.07 mi 14 ft Subgrade 3 ft ditch

T.S. Update 05/15/12

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:	\$103.35
Blading 0.07 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: 0.1 acres	\$110.06
2200 Surface Treatment: 0.0 tons	\$0.00
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:	\$213.41

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: Vine Maple Sale Date: Sept 2012

Road Number: 34-3E-09.00A Road Name: Vine Maple ML

Road Renovation: 0.43 mi 16 ft Subgrade 3 ft ditch

T.S. Update 05/15/12

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:	\$668.48
Blading 0.43 mi	
Surfacing:	\$10,180.16
800 Quarry Name: Round Mt 464 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: 0.4 acres	\$440.22
2200 Surface Treatment: 0.0 tons	\$0.00
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. \$783.39.....	\$783.39
Quarry Development:	\$783.39
Total:	\$12,855.64

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: Vine Maple Sale Date: Sept 2012

Road Number: 34-3E-09.00B Road Name: Vine Maple ML

Road Renovation: 0.19 mi 16 ft Subgrade 3 ft ditch

T.S. Update 05/15/12

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:	\$291.73
Blading 0.19 mi	
Surfacing:	\$4,519.64
800 Quarry Name: Round Mt 206 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: 0.0 acres	\$0.00
2200 Surface Treatment: 0.0 tons	\$0.00
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. \$347.80.....	\$347.80
Quarry Development:	\$347.80
Total:	\$5,506.96

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: Vine Maple Sale Date: Sept 2012

Road Number: 34-3E-09.00C Road Name: Vine Maple ML

Road Renovation: 0.38 mi 16 ft Subgrade 3 ft ditch

T.S. Update 05/15/12

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:	\$596.53
Blading 0.38 mi	
Surfacing:	\$8,951.52
800 Quarry Name: Round Mt 408 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: 0.4 acres	\$440.22
2200 Surface Treatment: 0.0 tons	\$0.00
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. \$688.84.....	\$688.84
Quarry Development:	\$688.84
Total:	\$11,365.95

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: Vine Maple Sale Date: Sept 2012

Road Number: 34-3E-09.00D Road Name: Vine Maple ML

Road Renovation: 0.34 mi 16 ft Subgrade 3 ft ditch

T.S. Update 05/15/12

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:	\$533.74
Blading 0.34 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	\$440.22
2200 Surface Treatment: 0.0 tons	\$0.00
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:	\$973.96

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: Vine Maple Sale Date: Sept 2012

Road Number: 34-3E-09.00E Road Name: Vine Maple ML

Road Renovation: 1.46 mi 16 ft Subgrade 3 ft ditch

T.S. Update 05/15/12

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:	\$2,291.92
Blading 1.46 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	\$1,540.78
2200 Surface Treatment: 0.0 tons	\$0.00
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: \$3,832.71

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: Vine Maple Sale Date: Sept 2012

Road Number: 34-3E-09.00F Road Name: Vine Maple ML

Road Renovation: 1.17 mi 16 ft Subgrade 3 ft ditch

T.S. Update 05/15/12

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:	\$1,830.14
Blading 1.17 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: 1.1 acres	\$1,210.62
2200 Surface Treatment: 0.0 tons	\$0.00
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: \$3,040.76

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: Vine Maple Sale Date: Sept 2012
Road Number: 34-3E-09.02A Road Name: Vine Maple Lower
 Road Renovation: 0.58 mi 14 ft Subgrade 3 ft ditch

T.S. Update 05/15/12

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:	\$757.20
Blading 0.58 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	\$660.34
2200 Surface Treatment: 0.0 tons	\$0.00
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$3,500.00
Mobilization: Const. \$0.00 Surf. \$0.00.....	\$0.00
Quarry Development:	\$0.00
Total:	\$4,917.53

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: Vine Maple Sale Date: Sept 2012
Road Number: 34-3E-09.02B Road Name: Vine maple Lower
 Road Renovation: 0.35 mi 16 ft Subgrade 3 ft ditch

T.S. Update 05/15/12

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:	\$542.90
Blading 0.35 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	\$330.17
2200 Surface Treatment: 0.0 tons	\$0.00
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:	\$873.07

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: Vine Maple Sale Date: Sept 2012

Road Number: 34-3E-09.02C Road Name: Vine Maple Lower

Road Renovation: 0.30 mi 14 ft Subgrade 3 ft ditch

T.S. Update 05/15/12

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:	\$470.94
Blading 0.30 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	\$330.17
2200 Surface Treatment: 0.0 tons	\$0.00
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: \$1,101.11

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: Vine Maple Sale Date: Sept 2012

Road Number: 34-3E-18.00C Road Name: 7 up

Road Renovation: 1.21 mi 14 ft Subgrade 3 ft ditch

T.S. Update 05/15/12

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:	\$1,892.93
Blading 1.21 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	\$1,320.67
2200 Surface Treatment: 0.0 tons	\$0.00
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: \$3,213.61

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: Vine Maple Sale Date: Sept 2012

Road Number: TR33-2E-24-1A Road Name: Powerhouse OS

Road Renovation: 0.06 mi 12 ft Subgrade 0 ft ditch

T.S. Update 05/15/12

200 Clearing and Grubbing: 0.1 acres	\$169.49
Clearing:0.1 sta Grubbing:0.1 acres	
Slash Treatment:0.1 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:	\$39.11
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: 0.0 acres	\$0.00
2200 Surface Treatment: 0.0 tons	\$0.00
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:	\$508.60

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: Vine Maple Sale Date: Sept 2012

Road Number: TR33-2E-24-1B Road Name: Round Mt OS

Road Construction: 0.11 mi 12 ft Subgrade 0 ft ditch T.S. Update 05/15/12

200 Clearing and Grubbing: 0.1 acres	\$342.91
Clearing:5.8 sta Grubbing:0.1 acres	
Slash Treatment:0.1 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:	\$71.71
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: 0.0 acres	\$0.00
2200 Surface Treatment: 0.0 tons	\$0.00
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$550.00
Mobilization: Const. \$0.00 Surf. \$0.00.....	\$0.00
Quarry Development:	\$0.00
Total:	\$964.62

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: Vine Maple Sale Date: Sept 2012

Road Number: TR33-3E-29-1A Road Name: Sec. 29 operator spu

Road Renovation: 0.15 mi 16 ft Subgrade 0 ft ditch T.S. Update 05/15/12

200 Clearing and Grubbing: 0.1 acres	\$245.03
Clearing:7.9 sta Grubbing:0.1 acres	
Slash Treatment:0.1 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:	\$97.79
Blading 0.15 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
2200 Surface Treatment: 0.0 tons	\$0.00
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$750.00
Mobilization: Const. \$0.00 Surf. \$0.00.....	\$0.00
Quarry Development:	\$0.00
Total:	\$1,092.81

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: Vine Maple Sale Date: Sept 2012

Road Number: TR33-3E-29-1B Road Name: Sec.29 op. spur

Road Construction: 0.39 mi 14 ft Subgrade 0 ft ditch

T.S. Update 05/15/12

200 Clearing and Grubbing: 0.5 acres	\$2,135.47
Clearing:20.6 sta Grubbing:0.5 acres	
Slash Treatment:0.5 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:	\$254.24
Blading 0.39 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
2200 Surface Treatment: 0.0 tons	\$0.00
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$1,950.00
Mobilization: Const. \$0.00 Surf. \$0.00.....	\$0.00
Quarry Development:	\$0.00

Total: \$4,339.71

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: Vine Maple Sale Date: Sept 2012

Road Number: TR33-3E-30-1 Road Name: Rocky Road OS

Road Construction: 0.29 mi 14 ft Subgrade 0 ft ditch

T.S. Update 05/15/12

200 Clearing and Grubbing: 0.4 acres	\$422.38
Clearing:0.3 sta Grubbing:0.0 acres	
Slash Treatment:0.4 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:	\$71.79
Blading 0.14 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
2200 Surface Treatment: 0.0 tons	\$0.00
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$1,450.00
Mobilization: Const. \$0.00 Surf. \$0.00.....	\$0.00
Quarry Development:	\$0.00
Total:	\$1,944.18

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: Vine Maple Sale Date: Sept 2012

Road Number: TR33-3E-31-1A Road Name: Rocky Road OSB

Road Construction: 0.42 mi 14 ft Subgrade 0 ft ditch

T.S. Update 05/15/12

200 Clearing and Grubbing: 0.5 acres	\$1,554.71
Clearing:22.2 sta Grubbing:0.5 acres	
Slash Treatment:0.5 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:	\$273.80
Blading 0.42 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
2200 Surface Treatment: 0.0 tons	\$0.00
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$2,100.00
Mobilization: Const. \$0.00 Surf. \$0.00.....	\$0.00
Quarry Development:	\$0.00

Total: \$3,928.51

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: Vine Maple Sale Date: Sept 2012

Road Number: TR33-3E-31-1B Road Name: section 31

Road Construction: 0.04 mi 12 ft Subgrade 0 ft ditch

T.S. Update 05/15/12

200 Clearing and Grubbing: 0.1 acres	\$337.84
Clearing:2.1 sta Grubbing:0.1 acres	
Slash Treatment:0.1 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:	\$26.08
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	\$0.00
2200 Surface Treatment: 0.0 tons	\$0.00
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$200.00
Mobilization: Const. \$0.00 Surf. \$0.00.....	\$0.00
Quarry Development:	\$0.00
Total:	\$563.91

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: Vine Maple Sale Date: Sept 2012

Road Number: TR33-3E-6-1A Road Name: Bourbon OS A

Road Construction: 0.03 mi 12 ft Subgrade 0 ft ditch T.S. Update 05/15/12

200 Clearing and Grubbing: 0.1 acres	\$215.33
Clearing:1.6 sta Grubbing:0.1 acres	
Slash Treatment:0.1 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:	\$19.56
Blading 0.03 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	\$110.06
2200 Surface Treatment: 0.0 tons	\$0.00
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$150.00
Mobilization: Const. \$0.00 Surf. \$0.00.....	\$0.00
Quarry Development:	\$0.00
Total:	\$494.94

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: Vine Maple Sale Date: Sept 2012

Road Number: TR33-3E-6-1B Road Name: Bourbon OS

Road Construction: 0.08 mi 12 ft Subgrade 0 ft ditch T.S. Update 05/15/12

200 Clearing and Grubbing: 0.1 acres	\$431.63
Clearing:4.2 sta Grubbing:0.1 acres	
Slash Treatment:0.1 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:	\$52.15
Blading 0.08 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
2200 Surface Treatment: 0.0 tons	\$0.00
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$400.00
Mobilization: Const. \$0.00 Surf. \$0.00.....	\$0.00
Quarry Development:	\$0.00
Total:	\$883.78

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: Vine Maple Sale Date: Sept 2012

Road Number: TR34-3E-32-1A Road Name: Vine Maple N OSA

Road Renovation: 0.08 mi 14 ft Subgrade 0 ft ditch

T.S. Update 05/15/12

200 Clearing and Grubbing: 0.1 acres	\$294.95
Clearing:4.2 sta Grubbing:0.1 acres	
Slash Treatment:0.1 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:	\$52.15
Blading 0.08 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
2200 Surface Treatment: 0.0 tons	\$0.00
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$400.00
Mobilization: Const. \$0.00 Surf. \$0.00.....	\$0.00
Quarry Development:	\$0.00
Total:	\$747.10

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: Vine Maple Sale Date: Sept 2012

Road Number: TR34-3E-32-1B Road Name: Vine Maple N OSBA

Road Construction: 0.22 mi 14 ft Subgrade 0 ft ditch

T.S. Update 05/15/12

200 Clearing and Grubbing: 0.3 acres	\$1,248.65
Clearing:11.6 sta Grubbing:0.3 acres	
Slash Treatment:0.3 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:	\$143.42
Blading 0.22 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
2200 Surface Treatment: 0.0 tons	\$0.00
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$1,100.00
Mobilization: Const. \$0.00 Surf. \$0.00.....	\$0.00
Quarry Development:	\$0.00
Total:	\$2,492.07

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: Vine Maple Sale Date: Sept 2012

Road Number: TR34-3E-8-1 Road Name: vine maple OS

Road Construction: 0.30 mi 14 ft Subgrade 0 ft ditch T.S. Update 05/15/12

200 Clearing and Grubbing: 0.4 acres \$1,680.28
 Clearing:15.8 sta Grubbing:0.4 acres
 Slash Treatment:0.4 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: \$195.57
 Blading 0.30 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

2200 Surface Treatment: 0.0 tons \$0.00

2300 Engineering: 0.00 sta. \$0.00

2400 Minor Concrete: \$0.00

2500 Gabions: \$0.00

8000 Miscellaneous: \$1,500.00

Mobilization: Const. \$0.00 Surf. \$0.00..... \$0.00

Quarry Development: \$0.00

Total: \$3,375.85

Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are COMPACTED in place cubic yards.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Quarry Development Costs - All Quarries

T.S. Contract Name: Vine Maple Sale Date: Sept 2012

Quarry Name: Round Mt Rock Volume = 5,923cy
Lump Sum: \$10,000.00

Subtotal: \$10,000.00

Total all Quarries: \$10,000.00

1. Road Use Fees - Amortization

Road Use and Rock Wear Fees

R/W Number	Road Number	Rd Use Fee	Vol x MBF	Road Use = Obligation
M-2000	Perpetua	0.00	5658	\$0.00
M-2000	Indian Hill	0.51	60	\$30.36
M-2000	Plum Creek	0.00	611	\$0.00
M-2000	Juniper Prop	0.00	611	\$0.00
M-2000	Silver Butte	0.51	722	\$368.11

(1) Subtotal \$398.47

2. BLM Maintenance - Timber Haul 1/ 2/ 3/ 4/ 5/

Road Number and Segment	A Surf N Type	Maint Mi	Vol x Fee	Vol x MBF	Total =	Total Maint
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(2.1) Subtotal

1/ Enter list of roads in Sec. 41(RC-2).

2/ Rockwear is included in fee as a maintenance cost for BLM maintained roads.

3/ Include lump sum logging damage repair (see Ex. D, Subsection 3108a Option F & 3401a).

3. BLM Maintenance - Rock Haul 1/ 2/ 3/

Road Number and Segment	A Surf N Type	Maint Mi	Vol x Fee	Vol x C.Y.	Total =	Total Maint
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(3.1) Subtotal

1/ Enter list of roads in Section 41(RC-2).

2/ Rockwear is included in fee as a maintenance cost for BLM maintained roads.

3/ Include lump sum logging damage repair (See Ex. D, Subsection 3108a Option F & 3401a).

4. Third Party Maintenance and Rockwear - Timber Haul 1/

MAINTENANCE (4.1)						ROCKWEAR (4.2) 2/ 3/		
Road Number and Segment	A N	Maint Mi	Vol x Fee	Vol x MBF	Total =	Total Maint	Rkwear Vol	Total Rkwear

(4.1) Subtotal

(4.2) Subtotal

1/ Enter list of roads in Sec. 41(RC-2).

2/ Rockwear is included in fee as a maintenance cost for BLM maintained roads.

3/ Include lump sum logging damage repair (see Ex. D, Subsection 3108a Option F & 3401a).

5. Third Party Maintenance and Rockwear - Rock Haul 1/

MAINTENANCE (5.1)						ROCKWEAR (5.2) 2/ 3/		
Road Number and Segment	A N	Maint Mi	Vol x Fee	Vol x C.Y.	Total =	Total Maint	Rkwear Vol	Total Rkwear

(5.1) Subtotal

(5.2) Subtotal

1/ Enter list of roads in Sec. 41(RC-2).

2/ Rockwear is included in fee as a maintenance cost for BLM maintained roads.

3/ Include lump sum logging damage repair (see Ex. D, Subsection 3108a Option F & 3401a).

6. Other Maintenance Payments - USFS or Others Perform Maintenance

Agreement	Fee	Fee	Vol	Maint
Number	Road Number	MBF/Mi x Mi =	/MBF x Hauled =	Cost

(6) Subtotal

7. Purchaser Maintenance - Rock Wear

TIMBER HAUL (7.1)

ROCK HAUL (7.2) 2/ 3/

Road No	1/ and Segment	A	RkWear	Vol	Total	Rkwear	Vol	Total
		N	Mi x Fee x	MBF =	RkWear	Mi x Fee x	C.Y.=	RkWear
33-3E-28.01B	N	0.61	0.51	611	\$190.08			
33-3E-28.01C	N	0.12	0.51	611	\$37.39			
33-3E-19.00A1	N	0.11	0.51	611	\$34.28			
33-3E-19.01A	N	1.02	0.51	611	\$317.84			
33-3E-28.00B	N	1.26	0.51	4270	\$2743.90			
33-3E-28.00B	N	0.90	0.51	3645	\$1673.06			
33-3E-28.00D	N	0.67	0.51	857	\$292.84			
33-3E-28.00E1	N	0.46	0.51	418	\$98.06			
33-3E-30.01A	N	0.57	0.51	831	\$241.57			
33-3E-19.00A2	N	0.10	0.51	600	\$30.60			
33-3E-19.00A2	N	0.29	0.51	100	\$14.79			
33-3E-19.00B	N	0.47	0.51	100	\$23.97			
33-2E-33.00C	N	0.43	0.51	100	\$21.93			
33-2E-25.02A	N	0.42	0.51	100	\$21.42			
33-2E-25.02B	N	0.18	0.51	20	\$1.84			
33-2E-25.03	N	0.31	0.51	80	\$12.65			
33-3E-30.00	N	0.55	0.51	231	\$64.80			
33-3E-34.01B	N	0.50	0.51	777	\$198.14			
34-3E-4.03C	N	0.43	0.51	777	\$170.40			
33-3E-33.00	N	0.34	0.51	422	\$73.17			
33-3E-33.01	N	0.70	0.51	422	\$150.65			
34-3E-9.00A	A	0.43	0.51	1199	\$262.94			
34-3E-9.00B	A	0.19	0.51	1199	\$116.18			
34-3E-9.00E	N	0.27	0.51	1199	\$165.10			
34-3E-9.00E	N	1.19	0.51	747	\$453.35			
34-3E-9.00F	N	0.40	0.51	408	\$83.23			
34-3E-9.00F	N	0.77	0.51	169	\$66.37			
33-3E-28.00E2	N	0.55	0.51	169	\$47.40			
33-3E-32.00	N	0.70	0.51	239	\$85.32			
34-3E-3.00B	N	0.02	0.51	339	\$3.46			
34-3E-5.01	A	0.31	0.51	452	\$71.46			
34-3E-9.02B	A	0.35	0.51	314	\$56.05			
34-3E-5.00	A	0.56	0.51	99	\$28.27			
34-3E-18.00C	A	1.21	0.51	99	\$61.09			

(7.1) Subtotal \$7913.61

(7.2) Subtotal \$0.00

- 1/ List all purchaser maintained roads and enter list in Section 41(RC-2a). Don't repeat any BLM maintained roads listed on appraisal. List may include new const. roads without fees.
- 2/ All surfaced roads have a rockwear fee, except no rockwear fee is charged for rock haul on roads surfaced or resurfaced under this timber sale.
- 3/ Include lump sum logging damage repair (See Ex. D, Subsection 3108a Option F & 3401a).

7. 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, RC-2a and RC-2h stips. Note in prospectus.

7.3A Move In

Equipment 1/	No Units	Move x in	Cost/ 50 Mi	Dist x Factor	Sub- total
Motor Grader:	1	1	\$356.00	1.00	\$356.00
Back Hoe:	1	1	\$356.00	1.00	\$356.00
Loader:	1	1	\$356.00	1.00	\$356.00
Water Truck:	1	1	\$216.00	1.00	\$216.00
Dump Truck 2/:	1	1	\$228.00	1.00	\$228.00

(7.3A) Total \$1512.00

1/ Equipment limited to that allowed in Exhibit D. Refer to Sch. 20 Table 2.

2/ Dump truck is allowable for surface repair only.

7.3B Culvert Maintenance - Including Catchbasins and Downpipes 1/

Miles	x	Cost/Mi	=	Subtotal
264.30				\$0.00

Type CMP	No CMPS	x Cost/CMP	=	Subtotal
Class I	20	100		\$2000.00

(7.3B) Total \$2000.00

1/ Does not include purchase or installation of culvert pipe. Refer to Sch. 20 Table 32.

7.3C Grading (Includes Ditches and Shoulders) 1/

	Miles	x	Cost/Mi	x Freq	= Subtotal
Blade Road:	15.00		512.82	1	\$7692.30
Blade Ditch:	10.00		139.08	1	\$1390.80

(7.3C) Total \$9083.10

1/ Watch for double allowance on roadway preparation for dust palliative application.

7.3D Slide and Slough removal, Slump Repair (15 sta-yds. ea.) 1/

Type Equipment	No Slides /Slumps	Hours x Each	Equip Cost	= Subtotal
Grader:	1	2	137.80	\$275.60
Loader:	1	2	89.31	\$178.62
Backhoe:	1	2	64.75	\$129.50

(7.3D) Total \$583.72

1/ Maximum haul is 15 sta. yds. Use grader or front end loader only. Dump truck not allowed in specifications. Refer to Sch. 20 Table 28.

7.3E Dust Palliative (Water) 1/

Spreading Hours

Miles	/ MPH	= Hours	x	No Days	x	Freq /Day	=	Truck Hours
29.44	10	2.9		25		1		72.5
Load & Haul-Roundtrip =			1.0	25		1		25.0

Fixed Hours (3000 Gal. tanker)

Total Hours = 97.5

Truck Cost: \$86.57/Hr. x 97.5 Hours = \$8440.58

(7.3E) Total \$8440.58

1/ Allow water for all BLM maint. non-oiled roads. Subsection 3403 requires 0.50 gal/syd.

7.3F Surface Repair (Aggregate)

Production Cost: 1/	200 C.Y. x \$0.00/C.Y.	= \$1392.00
Haul to Stockpile:	200 C.Y. x \$2.32/C.Y. x 3.00 Mi	= \$1392.00
Stockpile:	200 C.Y. x \$1.25/C.Y.	= \$250.00
Load from Stockpile:	200 C.Y. x \$1.38/C.Y.	= \$276.00
Haul from Stockpile:	200 C.Y. x \$2.32/C.Y. x 3.00 Mi	= \$1392.00
Process with Grader:	200 C.Y. x \$0.77/C.Y.	= \$154.00

(7.3F) Total \$4856.00

1/ Use unit cost from Road Construction Cost Guide.

7.3G Dust Palliative (Bituminous, Lignin, Magnesium Chloride)

(7.3G) Total

7.3H Other

Fallen Timber Cutting: 1/	8.0 Hours x \$40.00/Hour	= \$320.00
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
Misc. L.S.		= \$0.00

(7.3H) Total \$320.00

1/ Exhibit D Subsection 3104.
2/ Exhibit D Subsection 3107.
3/ Exhibit D Subsection 3401a.
4/ Exhibit D Subsection 3405b.

Tract No : ORM05-12-22
Sale Name: Vine Maple
Prep. By : EFREEMAN
Sale Date: Sept 2012

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

ROAD MAINTENANCE AND ROAD USE APPRAISAL WORK SHEET

Summary of Costs

1. Road Use - Amortization: (1) \$398.47/6755 MBF = \$0.06/MBF 1/
(RC-3 & RC-3a) (Tot Sale Vol)

2. Road Maintenance Obligation:

<u>\$0.00</u> (2.1)	+	<u>\$0.00</u> (3.1)	+	<u>\$0.00</u> (4.1)	+	<u>\$0.00</u> (5.1)	=	<u>\$0.00</u> (RC-2c)
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3. Rockwear Obligation:

<u>\$0.00</u> (4.2)	+	<u>\$0.00</u> (5.2)	+	<u>\$7913.61</u> (7.1)	+	<u>\$0.00</u> (7.2)	=	<u>\$7913.61</u> (RC-2g)
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4. Other Maintenance Payments:

Total (6)	=	<u>\$0.00</u> (RC-3a)
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5. Purchaser Maintenance Allowances:

(7.3A) Move In	\$1512.00
(7.3B) Culverts, Catch Basins, Downspouts	\$2000.00
(7.3C) Grading, Ditching	\$9083.10
(7.3D) Slide Removal and Slump Repair	\$583.72
(7.3E) Dust Palliative (Water)	\$8440.58
(7.3F) Surface Repair (Aggregate)	\$4856.00
(7.3G) Dust Palliative (Bituminous, Lignin, MgCl) . . .	\$0.00
(7.3H) Other	\$320.00

Total (7.3)	=	<u>\$26795.40</u> (Ex D)
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(2+3+4+5) Total = \$34,709.01/6755 MBF = \$5.14/MBF 1/
(Total Sale Vol)

Costs are estimates only and do not include Profit and Risk.
1/ Enter on Timber Sale Summary Form OSO 5420-1.

OR110-9113-1

File S:\Butte Falls\ENGINEERING\BF_Timber_Sales\12VineMaple\5-Road Cost Info - Complete\VineMapleRoadMaintenance.mdc

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 ORM07-TS-12-22
Sale Name Vine Maple
Sale Notice (dated) 08/15/2012
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 **\$55,400.00** 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	2,185	X	=	X	=
White fir	MBF	4,360	X			
Ponderosa Pine	MBF	126	X			
Incense Cedar	MBF	51	X			
Western Hemlock	MBF	19	X			
Sugar Pine	MBF	14	X	=	X	=
Total		6755	X	=	X	=
			X	=	X	=
			X	=	X	=
			X	=	X	=
			X	=	X	=
			X	=	X	=
			X	=	X	=
			X	=	X	=
			X	=	X	=
			X	=	X	=
TOTAL PURCHASE PRICE						

(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 (type or print)
<input type="checkbox"/>	Signatures, if firm is a partnership or L.L.C.	Business address, include zip code (type or print)
<input type="checkbox"/>	Corporation organized under the state laws of	(To be completed following oral bidding)
Signature of Authorized Corporate Signing Officer		I HEREBY confirm the above oral bid By (signature)
Title		Date
Submit bid, in duplicate, 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.		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
Oral Auction – Submit to Sales Supervisor prior to closing of qualifying period for tract.		

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 bondsman 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.