

PROSPECTUS

Lump Sum
***SBA Set-Aside

Ashland RESOURCE AREA
Jackson MASTER UNIT

Medford Sale # ORM06-TS-13-01
January 17, 2013

#1. Heppsie, Jackson County, (O&C)

BID DEPOSIT REQUIRED: \$33,000.00

All timber designated for cutting in N ½ SE ¼, Sec. 31, T. 36 S., R. 3 E.; Lot 3, Lot 4, SW ¼ NE ¼, S ½ NW ¼, N ½ SW ¼, SE¼ SW ¼, SE¼ Sec. 35, T. 36 S., R. 2 E.; Lot 2, Lot 4, S ½ NE ¼, S ½ NW ¼, N ½ SE ¼, Sec. 1, T. 37 S., R. 2 E.; Lot 3, S ½ NE ¼, SE ¼ NW ¼, SW ¼ SW ¼, E ½ SW ¼, SE ¼, Sec. 5, T. 37 S., R. 3 E.; S ½ SE ¼, Sec. 6, T. 37 S., R. 3 E.; Lot 1, N ½ NE ¼, Sec. 7, T. 37 S., R. 3 E.; NW ¼ NW ¼, Sec. 8, T. 37 S., R. 3 E.; 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 |
|--------------------------------------|----------------------------------|-----------------------|----------------|----------------------------------|----------------------------|--|
| 13,313 | 2,737 | 5,960 | Douglas-fir | 3,436 | \$ 93.00 | \$ 319,548.00 |
| 649 | 88 | 207 | White fir | 118 | \$ 33.90 | \$ 4,000.20 |
| 374 | 61 | 131 | Ponderosa pine | 77 | \$ 31.30 | \$ 2,410.10 |
| 896 | 45 | 129 | Incense-cedar | 62 | \$ 52.10 | \$ 3,230.20 |
| 15,232 | 2,931 | 6,427 | Totals | 3,693 | | \$ 329,188.50 |

*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 Interagency 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.

TIMBER AUCTION LOCATION – The timber auction will be held at the Medford Interagency Office, located at 3040 Biddle Road, Medford, Oregon, at 9:00 a.m. on Thursday, January 17, 2013.

CRUISE INFORMATION - The conifer volume of all species has been cruised using the 3-P sampling method to select sample trees. The sample trees have been measured, utilizing the VOLT system of measurement, and the volume expanded to a total sale volume. A map showing the location and description of these sample trees is available at the Medford Interagency Office.

With respect to merchantable trees of all conifer species: the average tree is 16.0 inches DBHOB; the average gross merchantable log contains 54.71 bd. ft.; the total gross volume is approximately 4,273 M bd. ft; and 86% recovery is expected. (Average DF is 16.2 inches

DBHOB; average gross merchantable log DF contains 72 bd. ft.)

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

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

The BLM has revised the log export restrictions special provision to reduce the log branding and painting requirements. The new requirements include branding of one end of all logs with a scaling diameter of over 10 inches. All loads of 11 logs or more, regardless of the diameter of the logs, will have a minimum of 10 logs branded on one end. All logs will be branded on loads of 10 logs or less. One end of all branded logs will be marked with yellow paint. At the discretion of the Contracting Officer, the Purchaser may be required to brand and paint all logs. The Purchaser shall bear any increased costs for log branding and painting.

CUTTING AREA – Twenty (20) units containing 342 acres must be partial cut. Three (3) right-of-ways containing 6 acres must be clear-cut.

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

ACCESS – Access to the sale area is available via existing BLM roads, Right-of-Way and Road use Agreements as shown in Section 41 (C)(10).

ROAD MAINTENANCE - BLM will maintain 11.98 miles of roads listed in Section 41(C)(3). The Purchaser will be required to pay a maintenance fee of \$ 4.59 per MBF or a total of \$16,948.25 for the use of these roads as shown in Section 41(C)(4). The Purchaser will be required to maintain all of the roads which he constructs plus 1.11 miles of existing road.

ROAD CONSTRUCTION - The contract will require the Purchaser to construct 54+01 stations of road. Additional information is available in the timber sale prospectus.

SOIL DAMAGE PREVENTION - Pursuant to Section 25 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 a depth of three to five (3-5) inches is greater than twenty five (25) percent as determined by oven dry weight. The Purchaser shall construct motor vehicle barricades on all primary skid roads which intersect any haul roads; water bar all skid trails; and mulch and seed fill slopes on the newly constructed landings fill slope.

EQUIPMENT REQUIREMENTS - LOGGING: A yarding tractor not greater than 9 feet wide as measured from the outer edges of standard width shoes and equipped with an integral arch and a winch for lining logs seventy-five (75) feet. A skyline yarder capable of one-end suspension with a minimum lateral yarding capability of seventy-five (75) feet while maintaining a fixed position during inhaul.

SLASH DISPOSAL - Slash disposal will consist of Hand Piling.

CONTRACT TERMINATION - A 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 comply with the Endangered Species Act, or comply with a court order, or 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). 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. Winter hauling may be allowed. Refer to stipulations L-18 and E-1 in the contract for more information.
3. Tractor yarding operations may be allowed in winter conditions. Refer to stipulation L-7MC in the contract for more information.
4. Mechanical harvesters and/or harvester forwarders are not permitted on this project.
5. Tractor swing trails shall be used for harvest operations in portions of units 5-7, 5-15, 5-16, 6-1 and 7-1.
6. Utility location services are required before operations in units 31-1 and 31-2 prior to ground based equipment operations.

NARRATIVE DESCRIPTION OF HOW TO GET TO THE TIMBER SALE AREA – From Medford, proceed approximately 6 miles north on highway OR-62/ Crater Lake Highway. Turn right onto OR-140/ east towards Klamath Falls and proceed approximately 25 miles to Heppsie Mountain turnoff. Project area begins adjacent to highway.

ENVIRONMENTAL ASSESSMENT - An environmental assessment (DOI-BLM-OR-M060-2012-0017-EA-2R) 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 Interagency Office.

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

Sec. 40. 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/or posted trees which are on or mark the boundaries of the Reserve Area(s).
- (B) IR-1 Approximately eight thousand nine hundred ninety nine (8,999) trees marked with yellow paint above and below stump height in units 1-1, 1-6, 1-7, 1-8, 1-9, 5-8, 5-9, 5-11, 5-14, 5-15, 5-16, 7-1, 35-3 and 35-4 as shown on Exhibit A.
- (C) IR-2 All timber except approximately one thousand three hundred seventy three (1,373) trees marked for cutting heretofore by the Government with blue paint above and below stump height in units 1-3, 5-7, 5-13, 6-1, 31-1 and 31-2 as shown on Exhibit A.
- (D) IR-5 All young growth less than seven (7) inches 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 snags, except when determined to be a hazard during operations by the Authorized Officer, in units 5-15 and 5-16 as shown on Exhibit A. Snags felled for safety will be retained on site as course woody debris.
- (F) IR-10M Genetically superior trees marked with orange paint and seed trees tags in the contract area. These trees are selected, genetically superior trees and are specially valued as a component of the tree improvement program. Any damage to such reserve trees caused by Purchaser shall be charged for on the basis of the resulting total loss to the Government including any loss in value as a superior seed source.

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Section 41

(A) Log Exports

- (1) LE-1 All timber sold to the Purchaser under the terms of this contract 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 ($8\frac{3}{4}$) 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 ($8\frac{3}{4}$) 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.

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- (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 (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, prior to the removal of timber from the contract area, brand with the Purchaser's registered log brand at least one end of each log bolt or other roundwood and identify each of these by painting with highway yellow paint.

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.

(B) Logging

- (1) L-1 Before beginning operations on the contract area for the first time or after a shutdown of seven (7) or more days, the Purchaser shall notify the Authorized Officer in writing of the date they plan to begin operations. The Purchaser shall

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also notify the Authorized Officer in writing if they intend to cease operations for any period of seven (7) or more days.

- (2) L-5 All trees seven (7) inches or larger D.B.H.O.B. designated for cutting shall be felled concurrently with all other trees designated for cutting in all harvest units.
- (3) 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.

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| Tractor Units: 1-1, 1-3, 1-6, 1-7, 1-8, 1-9, 5-8, 5-9, 5-11, 5-13, 5-14, 6-1, 31-1, 31-2, 35-3 & 35-4 | <p>All ground-based yarding systems shall be approved by the Authorized Officer.</p> <p>Yarding tractor width will not be greater than nine (9) feet as measured from the outer edges of standard width track shoes.</p> <p>Yarding tractors will operate only on tractor skid roads approved by the Authorized Officer. Skid road locations will be approved prior to felling of timber to be yarded over that skid trail and trees shall be felled to the lead. The location of the tractor skid roads must be clearly designated on the ground and spaced at approximately one hundred fifty (150) foot intervals where feasible. Existing skid roads will be utilized where possible. Ground based yarding systems shall be limited to slopes thirty-five (35) percent or less except as approved by the Authorized Officer. Disturbance to natural openings/meadows within tractor units shall be kept to a minimum. No yarding will be allowed up or down draw bottoms. Skid trails shall avoid areas with high water tables.</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>Landing size shall not exceed one-quarter (1/4) acre. Front end loaders shall not be used in units or on landings.</p> <p>No tractor yarding is permitted when soil moisture content at a depth of three to five (3-5) inches is greater than</p> |
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| | <p>twenty five (25) percent as determined by oven dry weight. Yarding will be limited in accordance with Section 25 if detrimental soil damage about to occur, 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>Front end loaders shall not be used in units or on landings.</p> |
| <p>Cable Units: 5-7, 5-15, 5-16 & 7-1</p> | <p>Yarding will be done with a cable yarding system which will suspend one end of the log clear of the ground during inhaul on the yarding corridor.</p> <p>A carriage 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>The carriage will be a minimum of fifteen (15) feet above the ground during lateral yarding.</p> <p>Yarding corridors will be perpendicular to the contours and landings shall be spaced at an average of one hundred fifty (150) foot intervals where feasible. The width of the skyline corridors shall be as narrow (maximum 15 feet) as operationally feasible. The number of corridors for each cable setting is limited to two (2). Exceptions must have prior approval from the Authorized Officer.</p> <p>No yarding will be allowed up or down draw bottoms and no yarding corridors will be allowed in riparian reserves.</p> <p>Trees shall be felled to the lead in respect to the yarding corridor.</p> <p>Front end loaders shall not be used in units or on landings.</p> |

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| | All yarding corridors, guyline trees, tailholds and lift trees shall be designated on the ground by the Purchaser and approved by the Authorized Officer. |
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- (4) L-9 No ground disturbing activities are permitted in or through the reserve area as shown on Exhibit A.
- (5) L-11 No new construction of landings or expansion of old landings shall be located within the riparian reserve of any stream as shown on Exhibit A.
- (6) L-11 No landings shall be located within 100 feet of any known Special Status Plant species would be used or constructed without approval of the Field Manager in consultation with a Resource Area Botanist. Landings extending beyond the project unit boundaries in undisturbed habitat (e.g. outside existing road prism) must have botany review prior to BLM approval of landing location.
- (7) L-18 No ground-based operations shall be conducted on the contract area between October 15 of one calendar year and June 1 of the following calendar year, both days inclusive. This restriction may be waived during dry soil conditions as approved by the Authorized Officer.
- (8) L-18 No road construction, landing construction, road maintenance or road decommissioning activities shall be permitted on the contract area between October 15 of one calendar year and June 1 of the following calendar year, both days inclusive. This restriction could be waived during dry conditions except during rain events of 0.20 inches or more in a 24-hour period. Restart will not occur until 48 hours after the rain event or by approval of the Authorized Officer.
- (9) L-18 Any natural surface roads opened or constructed would be closed during wet season.
- (10) L-18 No hauling shall be conducted between October 15th of one calendar year and June 1th of the following calendar year. A waiver may be granted by the Contracting Officer if dry conditions occur. Winter hauling would be allowed on any road if at least 4 inches of packed snow is present on hauling roads. Snow plowing would maintain at least 4 inches of packed snow on hauling roads.
- (11) L-18 No hauling would be allowed on road 36-3E-31.00A between November 15th of one calendar year and May 15th of the following calendar year, both days

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inclusive. The additional hauling time is due to the surfacing with at least 6 inches of pit-run rock or 8 inches of crushed rock. This restriction is dependent upon weather and soil moisture conditions of the road as approved by the Authorized Officer. Winter hauling would be allowed on any road if at least 4 inches of packed snow is present on hauling roads. Snow plowing would maintain at least 4 inches of packed snow on hauling roads.

- (12) L-18a No operations shall be conducted within units 5-15 and 5-16 between March 1 through June 30th of the same calendar year, both days inclusive. This restriction will not apply if it can be shown from Northern Spotted owl protocol surveys conducted by the Bureau of Land Management in accordance with accepted standards that Northern Spotted owl nesting and/or fledging activities are not occurring during the year or time of harvest.
- (13) L-18a No operations shall be conducted on any roads and within any units between November 15th of one calendar year and April 1st of the following calendar year, both days inclusive, which are located within the deer and elk winter range management area.
- (14) L-21 The Purchaser shall provide sufficient warning signs to control traffic on all roads where it passes through the contract area whenever harvest operations are adjacent to roads the harvest operations could create a hazard to the public.
- (15) L-23 Prior to the commencement of operations, the Purchaser shall obtain from the Contracting 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 ensure protection of the environment and watershed. Any requested changes to the terms and conditions of this contract (such as a change in logging systems) must be authorized by the Contracting Officer through bilateral modification of the contract. A prework conference between the Purchasers authorized representative and the Authorized Officer must be held at a location designated by the Contracting Officer before the logging plan will be approved.
- (16) L-26 In all units shown on Exhibit A, all trees designated for cutting shall be felled away from unit boundaries, property lines, fences, streams, draw bottoms, irrigation ditches, seed trees, and reserve area. The Purchaser shall notify the Authorized Officer three (3) days before beginning felling operations in the above area(s).
- (17) L-33 In accordance with the requirements of Section 8 of contract it has been determined that it is in the best interest of the Government and within the provisions of 43 CFR 5402.0-6 to sell additional timber located in the contract

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area, which is obstructing needed cable yarding roads, hazardous to workers, needed for guyline, tailhold, and/or tieback trees, obstructing ground based equipment skid roads, is severely damaged from the normal conduct of felling or yarding operations, or 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 Section 40 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 yellow flagging so that that stump can be visually located from a distance of not less than 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 Section 3(b) or 3(d) of the contract as required by Section 8 of the contract.
- d) No timber may be cut or removed under the terms of this provision if all contract payments required by Section 3(b) or 3(d) of the contract have been made.
- e) The permission to cut and remove additional timber contained in this provision may be withdrawn by the Contracting Officer if the Authorized Officer determines that the Purchaser:
 - (1) failed to properly mark any stump with the "X" cut.
 - (2) failed to identify the location of any stump.
 - (3) cut any tree that was reserved for tree improvement and/or wildlife habitat.
 - (4) cut any tree in or adjacent to cable yarding corridors that was not necessary to facilitate cable yarding.
 - (5) cut any reserve tree in or adjacent to tractor skid roads that was not necessary to facilitate ground based yarding.

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

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

If the permission to cut and remove additional timber provision is withdrawn, the Purchaser shall inform the Authorized Officer at least two working days prior to the need for cutting and yarding any guyline tree, tailhold tree, tie-back tree, danger tree, corridor tree, pulled over tree, and severely damaged tree. All sales of additional timber shall comply with Section 8 of the contract. The Contracting Officer may order the Purchaser, in writing, to suspend, delay, or interrupt all or any part of the work of this contract for the period of time that the Contracting Officer determines appropriate for the Government to safely measure and mark additional timber.

All cable-yarding and/or 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 Section 13 of the contract for any reserved timber cut or removed in violation of the terms of this special provision.

(C) Road Construction - Maintenance - Use

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- (1) RC-1a The Purchaser shall construct, improve and/or renovate all roads and other structures in strict accordance with the plans and specifications shown on Exhibit C, which is attached hereto and made a part hereof.
- (2) RC-1b Prior to removal of any timber, except right-of-way timber, the Purchaser shall complete all construction, improvement, or renovation of structures and roads as specified in Exhibit C.
- (3) RC-2 The Purchaser is authorized to use the roads listed below and shown on Exhibit C-2 which are under the jurisdiction of the Bureau of Land Management, and or Indian Hill, 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 pay the required maintenance obligations described in Section 41(C)(6). Any road listed below and requiring improvement or renovation in Exhibit C of this contract, shall be maintained by the Purchaser until receiving written acceptance of the improvement or renovation from the Authorized Officer. The Purchaser shall pay current Bureau of Land Management maintenance fees for the sale of additional timber under modification to the contract.

| Road No. and Segment | Length Miles Used | Road Control | Road Surface Type |
|----------------------|-------------------|--------------|-------------------|
| 36-3E-31.00 A | 0.60 | BLM | BST |
| 36-3E-31.00 B-E | 4.19 | BLM | ASC |
| 37-2E-01.00 | 1.46 | BLM | ASC |
| 37-2E-01.02 A | 0.35 | BLM | ASC |
| 37-2E-01.03 | 0.26 | BLM | ASC |
| 37-3E-05.01 | 0.82 | BLM | ASC |
| 37-3E-05.02 | 0.24 | BLM | ASC |
| 37-3E-05.03 | 0.12 | BLM | ASC |
| 37-3E-06.02 | 0.32 | BLM | PRR |
| 37-3E-06.06 | 0.93 | BLM | ASC |
| 37-3E-06.08A | 0.23 | PVT | ASC |
| 37-3E-06.08 B-D | 2.46 | BLM | ASC |
| Total | 11.98 | | |

- (4) RC-2a The Purchaser is authorized to use the roads listed below and shown on Exhibit C-2 which are under the jurisdiction of the Bureau of Land Management for the removal of Government timber sold under the terms of this contract and/or the hauling of rock as required in Exhibit C, provided that the Purchaser comply with the conditions set forth in Section 41(C)(9). The Purchaser shall pay current

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Bureau of Land Management rockwear fees for the sale of additional timber under modification to the contract.

| Road No. and Segment | Length Miles Used | Road Control | Road Surface Type |
|----------------------|-------------------|--------------|-------------------|
| 36-2E-35.00 | 0.35 | BLM | NAT |
| 36-2E-35.01 (new) | 0.61 | BLM | NAT |
| 37-2E-01.02 B | 0.19 | BLM | NAT |
| 37-3E-05.02 | 0.42 | BLM | NAT |
| 37-3E-05.03 | 0.15 | BLM | NAT |
| 37-3E-05.05 (new) | 0.11 | BLM | NAT |
| 37-3E-06.11 (new) | 0.30 | BLM | NAT |
| Total | 2.13 | | |

- (5) RC-2b With the prior written approval of the Authorized Officer, the Purchaser may arrange for cooperative maintenance with other users on road included in Section 41(C)(4) of this contract; provided, that such cooperative arrangement shall not relieve the Purchaser of his liability for the maintenance and repair of such roads resulting from wear or damage, in accordance with this contract. The Purchaser shall furnish the Authorized Officer a copy of any cooperative maintenance agreements entered into with other users on these roads.
- (6) RC-2c The Purchaser shall pay the Government a road maintenance obligation in the amount of Sixteen Thousand Nine Hundred Forty Eight and 25/100 dollars (\$16,948.25) for the transportation of timber included in the contract price and for the transportation of any mineral material required under the terms of the contract over road or roads listed in Section 41(C)(3).

The above road maintenance amount is for use of 11.98 miles of road or less. Unless the total maintenance amount is paid prior to commencement of operations on the contract area, payments shall be made in installments of not less than Five hundred dollars (\$500.00); payable in the same manner as and together with payments required in Sec. 3 of this contract. The total maintenance amount shall be paid prior to the removal of timber from the contract area.

- (7) RC-2d The Purchaser shall be authorized to use other roads not included in Section 41(C)(3) and/or Section 41(C)(4) provided, that in the use of such road(s), the Purchaser shall pay the Government current Bureau of Land Management road maintenance fees for the particular surface type of the road(s) used.

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

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

Section 41(C)(6) of this contract shall be amended to include adjustments of fee obligations.

- (8) RC-2f The Authorized Officer may at any time by written notice, terminate the Purchaser's operator road maintenance obligations and require instead payment of current Bureau of Land Management road maintenance fees for the particular surface type of the road(s) involved. These fees will be applied to the remaining contract volume on the sale area to be transported over road or roads listed in Section 41(C)(4). The Purchaser shall pay the total maintenance amount for said road(s) within thirty (30) days following receipt of written notice; provided, however, that if the total amount exceeds five hundred and no/100 dollars (\$500.00), the Purchaser may elect to make payment in installments in the same manner as and together with payments required in Section 3 of this contract.
- (9) RC-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.
- (10) RC-3 In the use of road No. 37-3E-06.08 A the Purchaser shall comply with the conditions of Right-of-Way and Road Use Agreement No. M-250 dated August 14, 1959 between the United States of America and Indian Hill. This document is available for inspection at the Bureau of Land Management, Medford District Office, 3040 Biddle Road, Medford, Oregon 97504. Prior to the use of said road(s), 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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- (11) RC-3d The Purchaser agrees that if they elect to use any other private road which is the subject of a right-of-way agreement with the Government for the removal of Government timber sold under the terms of this contract, the Purchaser shall request and agree to the modification of this contract to provide for such use and for allowances for amortization of the Government's share of the capital investment of any such road.
- (12) RC-8 The Purchaser shall be required to secure written approval to use vehicles or haul equipment over Government owned or controlled roads and/or structures when that vehicle or equipment exceeds the maximum allowable weights or dimensions established by the State for vehicles operating without a permit.

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

Details shall include:

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

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

(D) Environmental Protection

- (1) E-1 The purchaser shall contact the Oregon Utility Notification Center prior to ground equipment operations in units 31-1 and 31-2. The purchaser shall request underground utility location services in order to avoid damage to nearby utilities.
- (2) E-1 In addition to the requirement set forth in Sec. 25 of this contract, the Purchaser shall:
 - (a) Abate dust created from hauling in accordance with Exhibit D.

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- (b) Construct earth and log motor vehicle barricades on all major skid roads which intersect any haul road.
 - (c) Water bar all skid trails utilized in the contract area in accordance with specifications shown on Exhibit W.
 - (d) Fill slopes on all new roads and landings would be seeded with native or approved seed.
- (3) E-1 In addition to the requirement set forth in Sec. 25 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, as directed by the Authorized Officer. Such plan shall include identification of Purchaser's representatives responsible for supervising initial containment action for releases and subsequent cleanup. Such plans must comply with the State of Oregon DEQ OAR 340-142, Oil and Hazardous Materials Emergency Response Requirements.
- (4) E-1 In addition to the requirement set forth in Section 25 of this contract, the Purchaser shall implement the following noxious weed control measures shall be implemented by the purchaser:
 - (a) In order to prevent the potential spread of noxious weeds into the Medford District BLM, the operator would be required to clean all logging construction, rock crushing, and transportation equipment prior to entry on BLM lands.
 - (b) Cleaning shall be defined as removal of dirt, grease, plant parts, and material that may carry noxious weed seeds into BLM lands. Cleaning prior to entry onto BLM lands may be accomplished by using a pressure hose.
 - (c) Only logging and construction equipment inspected by the BLM would be allowed to operate within the Analysis Area. All subsequent move-ins of logging and construction equipment as described above shall be treated the same as the initial move-in.
 - (d) Prior to initial move-in of any logging or construction equipment, and all subsequent move-ins, the operator shall make the equipment available for BLM inspection at an agreed upon location off Federal lands.
 - (e) Logging and construction equipment would be visually inspected by the Authorized officer to verify that the equipment has been reasonably cleaned.
- (5) E-1 Scarify and contour landings to provide for adequate drainage. Bare soil due to landing construction/renovation would be protected and stabilized prior to fall rains to reduce soil erosion and sediment potential. Straw mulch and seed exposed

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earth on temporary logging spurs and tractor landings with certified weed free straw and seed mixture as directed and approved by the Authorized Officer. Selected landings may be left "as is" where natural rock occurs or where vegetation/topography prevents movement of sediment, as determined by the Authorized Officer. The seed mix and straw shall be provided by the purchaser from an approved commercial source, or may be provided by the BLM if the purchaser is unable to locate and buy the certified seed and straw. The purchaser shall reimburse the government for the cost of seed and straw if provided by the government.

The Purchaser shall furnish and apply to acres designated for treatment as directed by the Authorized Officer, a mixture of grass seed and mulch material at the following rate of application:

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

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

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

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

The Purchaser shall mix grass seed in the following proportions:

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

The Purchaser shall furnish the Authorized Officer a Seed Test result from a certified seed testing lab (i.e. Oregon State University), which shall

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

- (6) E-4 The Purchaser shall immediately discontinue specified construction or timber harvesting operations upon written notice from the Contracting Officer that:
- (a) 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;
 - (b) when, in order to comply with the Endangered Species Act, the Contracting Officer determines it may be necessary to modify or terminate the contract, or;
 - (c) 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;
 - (d) 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;
 - (e) 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;
 - (f) when, in order to comply with a court order, the Contracting Officer determines it may be necessary to modify or terminate the contract, or;
 - (g) species have been discovered which were identified for protection through survey and manage and/or protection buffer standards and guidelines

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established in the ROD and RMP, and the Contracting Officer determines that continued operations would affect the species or its habitat, or;

- (h) 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 (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

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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.

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

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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.

- (7) 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.
- (8) 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 within harvest units 5-15 and 5-16 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 to determine whether spotted owls are nesting within 0.25 miles of the harvest units. If it is determined that spotted owls are not nesting or that no young have been produced, the Authorized Officer may lift the seasonal restriction on such operations in writing. Without this written approval, such operations are prohibited from March 1 through September 30 of each year.

(E) Miscellaneous

- (1) M-2 The Government, at its option, may administratively check scale any portion of the timber removed from the contract area, and if necessary, conduct check scaling of independent scalers contracted to BLM for administrative check scaling purposes. The Purchaser hereby agrees to make such contract timber available for such scaling at a location or locations to be approved in writing by the Authorized Officer. At the approved location or locations, the Purchaser shall provide an area for logs to be safely rolled out for scaling, to unload logs from trucks, place logs in a manner so that both ends and three faces of each log are visible for scaling, and to reload or remove logs after scaling has been completed. In the event that BLM elects to administratively check scale and if such check scaling causes a delay in log transportation time, an adjustment will be made to the purchase price as follows: If the entire sale is check scaled, the purchase price of this contract shall be reduced by Two thousand seven hundred sixty nine 75/100 dollars (\$2,769.75). In the event that only a portion of the contract timber is scaled, the

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purchase price shall be reduced by that portion of Two thousand seven hundred sixty nine 75/100 dollars (\$2,769.75) 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-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 any persons or property that arise out of any operations under this contract and result from any breach of contract or wrongful or negligent act or omission of the Purchaser, its contractors, subcontractors, or employees of any of them.

(F) Fire Prevention and Control

- (1) F-1a Fire Prevention and Control. Primarily for purposes of fire prevention and control, the Purchaser shall comply with the following provisions:
 - (a) Prior to the operation of power driven equipment in construction or logging operations under this contract during the closed fire season or periods of fire danger, prepare a fire prevention and control plan to the satisfaction of the State of Oregon, Department of Forestry.
 - (b) Provide and maintain in good repair, on the contract area, the following equipment for use during closed fire season or periods of fire danger:
 - (1) F-2a Fire fighting tools shall be kept at each landing or at such other place as the Authorized Officer shall designate whenever people are working on the contract area. All fire fighting tools shall be kept in a sturdily constructed box which shall be painted red and lettered on the front or top in large letters, "For Fire Only."

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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 "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 Medford, Oregon. Such communication shall be available during periods of operation including the time watch-service is required.
- (5) 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.
- (6) 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

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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.

(G) Slash Disposal and Site Preparation

- (1) SD-5 Perform logging residue reduction and site preparation work on approximately three hundred forty two (342) acres of harvest area located in the harvest units as shown on Exhibit A.

- (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.

| Handpile and Cover | Cost/Acre |
|--------------------|-----------|
| Level II | \$365.40 |
| Level III | \$492.28 |
| Level IV | \$598.85 |

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

| Handpile and Cover Appraised Treatment | Acres | Cost/Acre | Total Cost per Treatment |
|--|------------|-----------|--------------------------|
| Level II | 10 | \$365.40 | \$3,654.00 |
| Level III | 299 | \$492.28 | \$147,191.72 |
| Level IV | 33 | \$598.85 | \$19,762.05 |
| Total Appraised Cost | 342 | | \$170,607.77 |

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- (c) The Total Purchase Price set forth in Section 2 shall be adjusted by the amount that the total cost of the site preparation treatments designated pursuant to Section 41(G)(1)(a) differs from \$170,607.77 as calculated by using the estimated acres determined by the Authorized Officer and the per acre costs listed in Section 41(G)(1)(a). Actual acres treated may vary considerably from the estimated acres shown in Section 41(G)(1)(b). The area to be treated may vary from zero acres to all harvest units shown on the Exhibit A.
 - (d) There is significant uncertainty as to the appropriate slash disposal. The above slash disposal requirements have been appraised. This provision establishes a "menu" of available treatments (based on the above pre-sale determination) for the selection by the Authorized Officer upon post-harvest determination of need.
- (2) SD-1 Fire Hazard Reduction. In addition to the requirements of Sec. 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 hazard reduction measure(s) required by this contract:
- (a) SD-1c HAND PILING Hand pile all slash in accordance with the following specifications:

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.

Piling shall be accomplished by hand. Finished piles shall be tight and free of earth.

Pile all slash which is between one (1) and six (6) inches in diameter on the large end and exceeds two (2) feet in length.

A six (6) foot by six (6) foot sheet of six (6) mil. black plastic or equivalent material shall be placed in each pile in a manner such that approximately one-third (a) of the pile lies above it to hold it in place and so that a 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)

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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 five (5) feet and no greater than eight (8) feet; width shall not exceed six (6) feet; piles shall be circular and not windrowed. No pile shall be located in any stream channel; on down logs or stumps, within twenty-five (25) feet of any other pile, unit boundary or the trunk of the nearest living tree. No portion of the pile will be under the crown of any living tree.

Operations required by this provision shall be kept current with yarding as directed by the Authorized Officer and shall be conducted as follows:

- (1) Piling shall be completed in each unit or portion thereof, within four (4) weeks after completion of yarding that unit, or portion thereof.
- (b) SD-1i LANDING PILES Pile all slash located within one hundred (100) feet on each side of log landing. Slash shall be piled by hand or machine. Finished piles shall be tight and free of earth.
 - (1) A ten (10) foot by ten (10) foot cover of six (6) mil. black plastic or equivalent material shall cap each landing pile to maintain a dry ignition point. The cover shall be firmly fixed to each pile to hold it in place. Maximum pile size shall be twenty (20) feet in diameter by fifteen (15) feet in height.

(H) Equal Opportunity in Employment

Certification of Nonsegregated Facilities attached hereto and made a part hereof.

Seasonal Restriction Matrix

Sheet 1 of 3

Heppsie Timber Sale

ORM06-TS-2013-0001

***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 |
| Unit 31-1 | Falling and bucking | | | | | | | | | | | | | | | | | | | | | | | | |
| | Ground Based Operations ¹ | | | | | | | | | | | | | | | | | | | | | | | | |
| | Hauling ¹ | | | | | | | | | | | | | | | | | | | | | | | | |
| Unit 31-2 | Falling and bucking | | | | | | | | | | | | | | | | | | | | | | | | |
| | Ground Based Operations ¹ | | | | | | | | | | | | | | | | | | | | | | | | |
| | Hauling ¹ | | | | | | | | | | | | | | | | | | | | | | | | |
| Unit 35-3 | Falling and bucking | | | | | | | | | | | | | | | | | | | | | | | | |
| | Ground Based Operations ¹ | | | | | | | | | | | | | | | | | | | | | | | | |
| | Hauling ¹ | | | | | | | | | | | | | | | | | | | | | | | | |
| Unit 35-4 | Falling and bucking | | | | | | | | | | | | | | | | | | | | | | | | |
| | Ground Based Operations ¹ | | | | | | | | | | | | | | | | | | | | | | | | |
| | Hauling ¹ | | | | | | | | | | | | | | | | | | | | | | | | |
| Unit 1-1 | Falling and bucking | | | | | | | | | | | | | | | | | | | | | | | | |
| | Ground Based Operations ¹ | | | | | | | | | | | | | | | | | | | | | | | | |
| | Hauling ¹ | | | | | | | | | | | | | | | | | | | | | | | | |
| Unit 1-3 | Falling and bucking | | | | | | | | | | | | | | | | | | | | | | | | |
| | Ground Based Operations ¹ | | | | | | | | | | | | | | | | | | | | | | | | |
| | Hauling ¹ | | | | | | | | | | | | | | | | | | | | | | | | |
| Unit 1-6 | Falling and bucking | | | | | | | | | | | | | | | | | | | | | | | | |
| | Ground Based Operations ¹ | | | | | | | | | | | | | | | | | | | | | | | | |
| | Hauling ¹ | | | | | | | | | | | | | | | | | | | | | | | | |
| Unit 1-7 | Falling and bucking | | | | | | | | | | | | | | | | | | | | | | | | |
| | Ground Based Operations ¹ | | | | | | | | | | | | | | | | | | | | | | | | |
| | Hauling ¹ | | | | | | | | | | | | | | | | | | | | | | | | |

¹ Some variation of these dates possible depending on conditions

Seasonal Restriction Matrix

Sheet 2 of 3

Heppsie Timber Sale

OR110-TS12-23

***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 |
| Unit 1-8 | Falling and bucking | | | | | | | | | | | | | | | | | | | | | | | | |
| | Ground Based Operations ¹ | | | | | | | | | | | | | | | | | | | | | | | | |
| | Hauling ¹ | | | | | | | | | | | | | | | | | | | | | | | | |
| Unit 1-9 | Falling and bucking | | | | | | | | | | | | | | | | | | | | | | | | |
| | Ground Based Operations ¹ | | | | | | | | | | | | | | | | | | | | | | | | |
| | Hauling ¹ | | | | | | | | | | | | | | | | | | | | | | | | |
| Unit 6-1 | Falling and bucking | | | | | | | | | | | | | | | | | | | | | | | | |
| | Ground Based Operations ¹ | | | | | | | | | | | | | | | | | | | | | | | | |
| | Hauling ¹ | | | | | | | | | | | | | | | | | | | | | | | | |
| Unit 7-1 | Falling and bucking ¹ | | | | | | | | | | | | | | | | | | | | | | | | |
| | Cable yarding | | | | | | | | | | | | | | | | | | | | | | | | |
| | Hauling ¹ | | | | | | | | | | | | | | | | | | | | | | | | |
| Unit 5-7 | Falling and bucking ¹ | | | | | | | | | | | | | | | | | | | | | | | | |
| | Cable yarding ¹ | | | | | | | | | | | | | | | | | | | | | | | | |
| | Hauling ¹ | | | | | | | | | | | | | | | | | | | | | | | | |
| Unit 5-8 | Falling and bucking | | | | | | | | | | | | | | | | | | | | | | | | |
| | Ground Based Operations ¹ | | | | | | | | | | | | | | | | | | | | | | | | |
| | Hauling ¹ | | | | | | | | | | | | | | | | | | | | | | | | |
| Unit 5-9 | Falling and bucking ¹ | | | | | | | | | | | | | | | | | | | | | | | | |
| | Ground Based Operations ¹ | | | | | | | | | | | | | | | | | | | | | | | | |
| | Hauling ¹ | | | | | | | | | | | | | | | | | | | | | | | | |
| Unit 5-11 | Falling and bucking ¹ | | | | | | | | | | | | | | | | | | | | | | | | |
| | Ground Based Operations ¹ | | | | | | | | | | | | | | | | | | | | | | | | |
| | Hauling ¹ | | | | | | | | | | | | | | | | | | | | | | | | |

¹ Some variation of these dates possible depending on conditions

Sheet 3 of 3
Heppsie Timber Sale
OR110-TS12-23

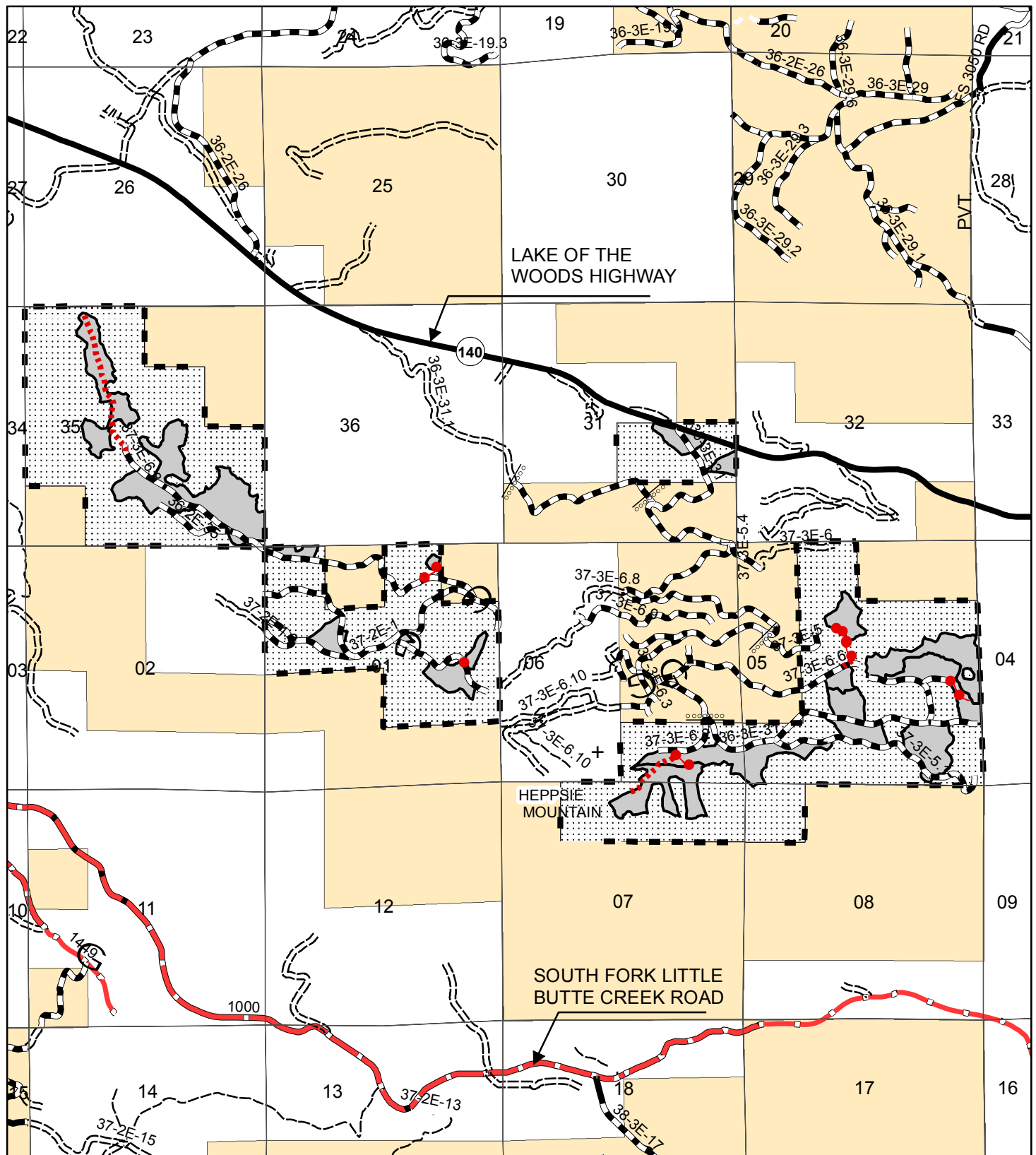
Heppsie Timber Sale

OR110-TS12-23

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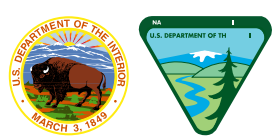
¹ Some variation of these dates possible depending on conditions

HEPPSIE TIMBER SALE LOCATION MAP























Legend

- Contract Boundaries
- Harvest Units
- Bureau of Land Management

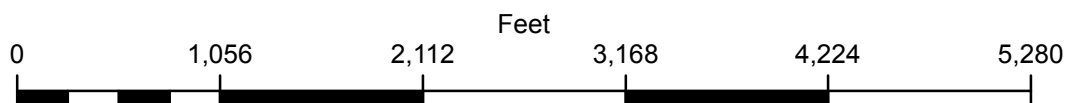
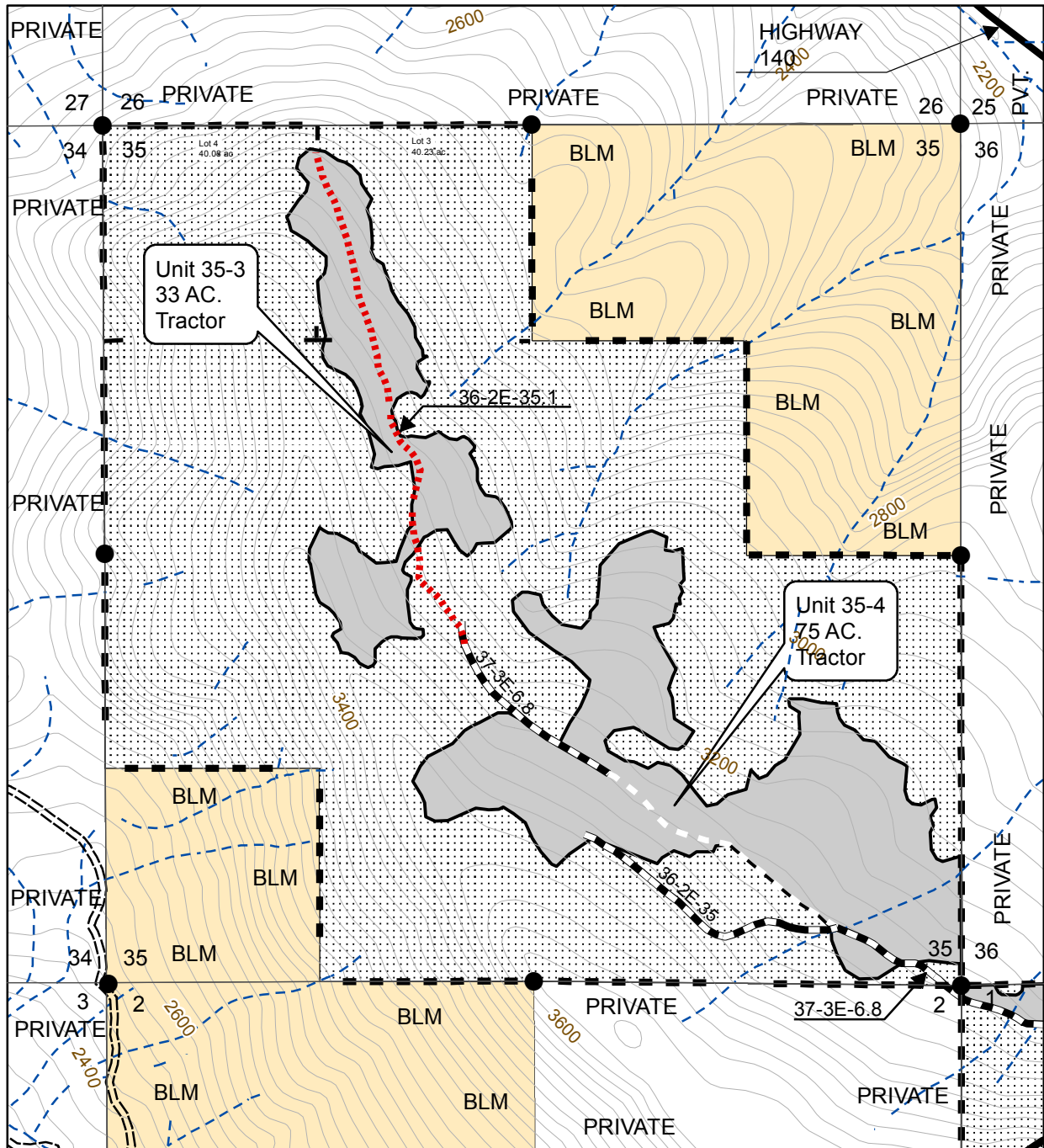


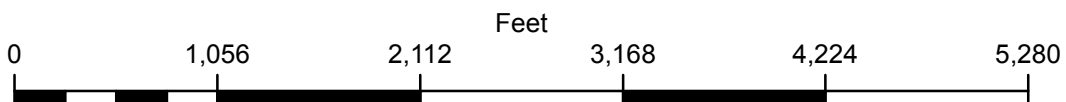
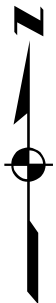
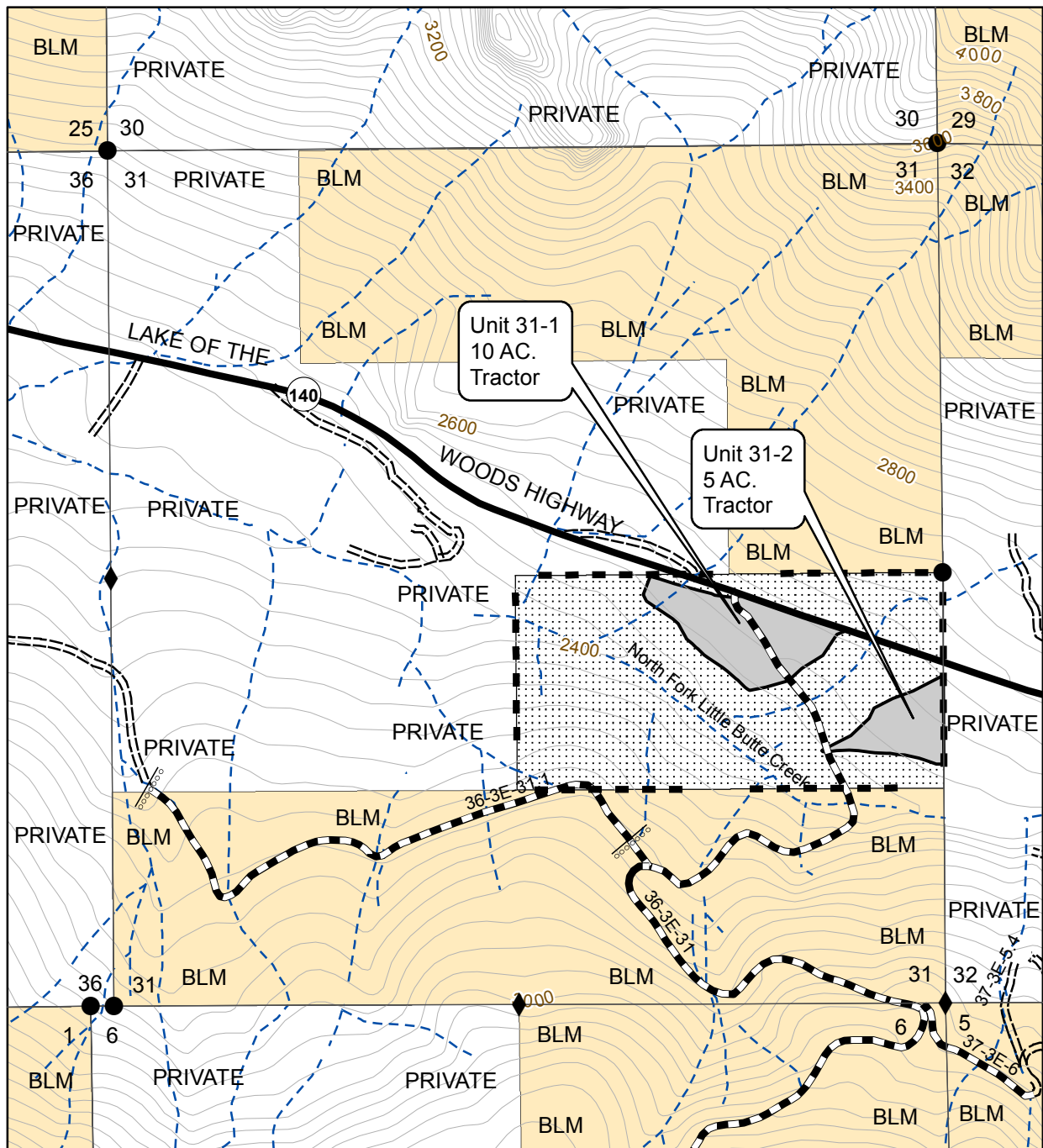
U.S.D.I. BLM MEDFORD DISTRICT SALE
 HEPPSIE TIMBER SALE
 T.36S., R.2E. SEC. 35
 T.36S., R.3E. SEC. 31
 T.37S., R.2E. SEC. 1
 T.37S., R.3E. SEC. 5, 6, 7, 8

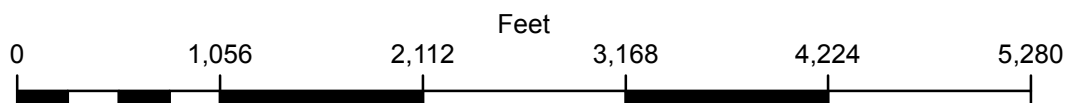
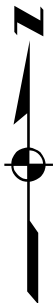
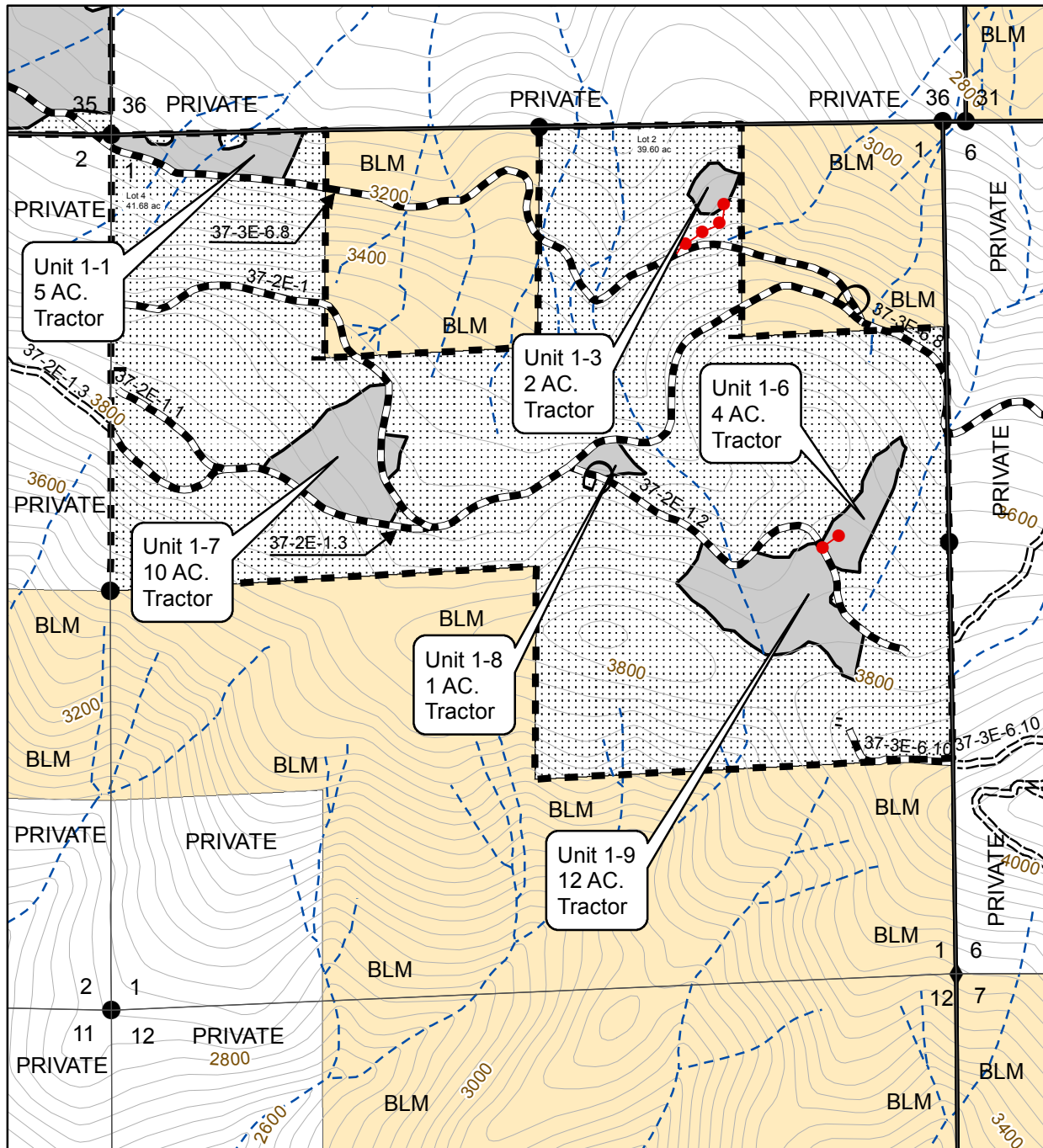
TIMBER SALE CONTRACT MAP
 CONTRACT ORMO6-TS-2013-0001
 EXHIBIT A
 PAGE 1 OF 6

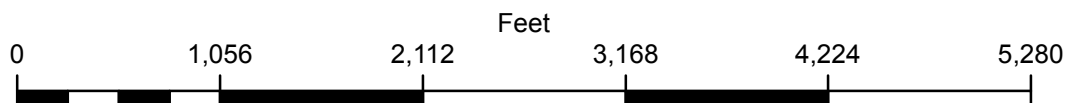
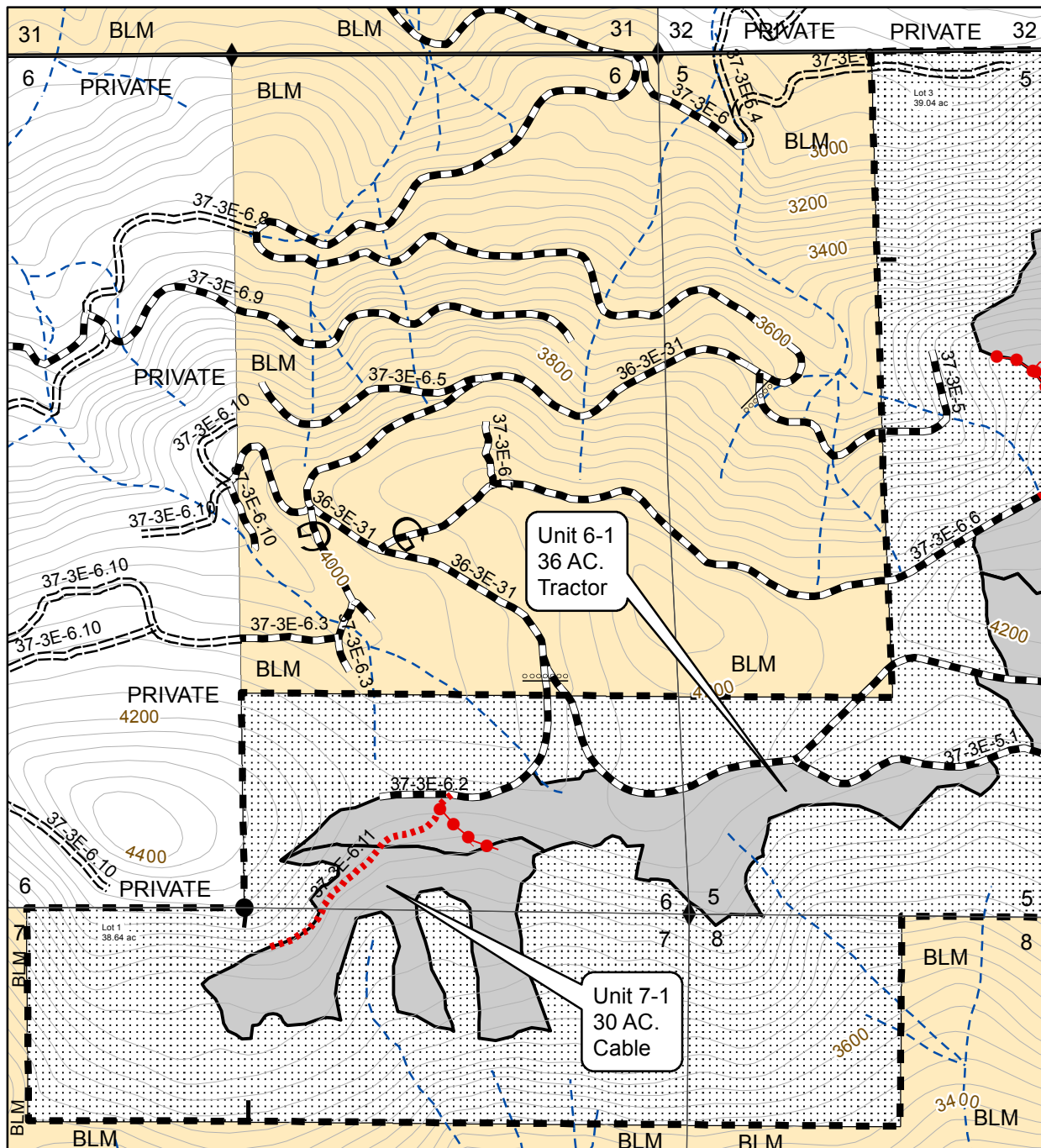
| Legend | |
|---|--------------------------------|
|  | Gate |
|  | Earth Berm |
|  | Contract Boundaries |
|  | BLM Corner |
|  | County Corner |
|  | Designated Skid Road |
|  | Proposed New Road Construction |
|  | QUARRY |
|  | State Highway |
|  | BLM Road |
|  | County Road |
|  | US Forest Service Road |
|  | Private or Unimproved Road |
|  | Stream |
|  | 40' Contour Interval |
|  | Harvest Units |
|  | Reserve Area |
|  | Bureau of Land Management |
|  | Private Individual or Company |
|  | US Forest Service |

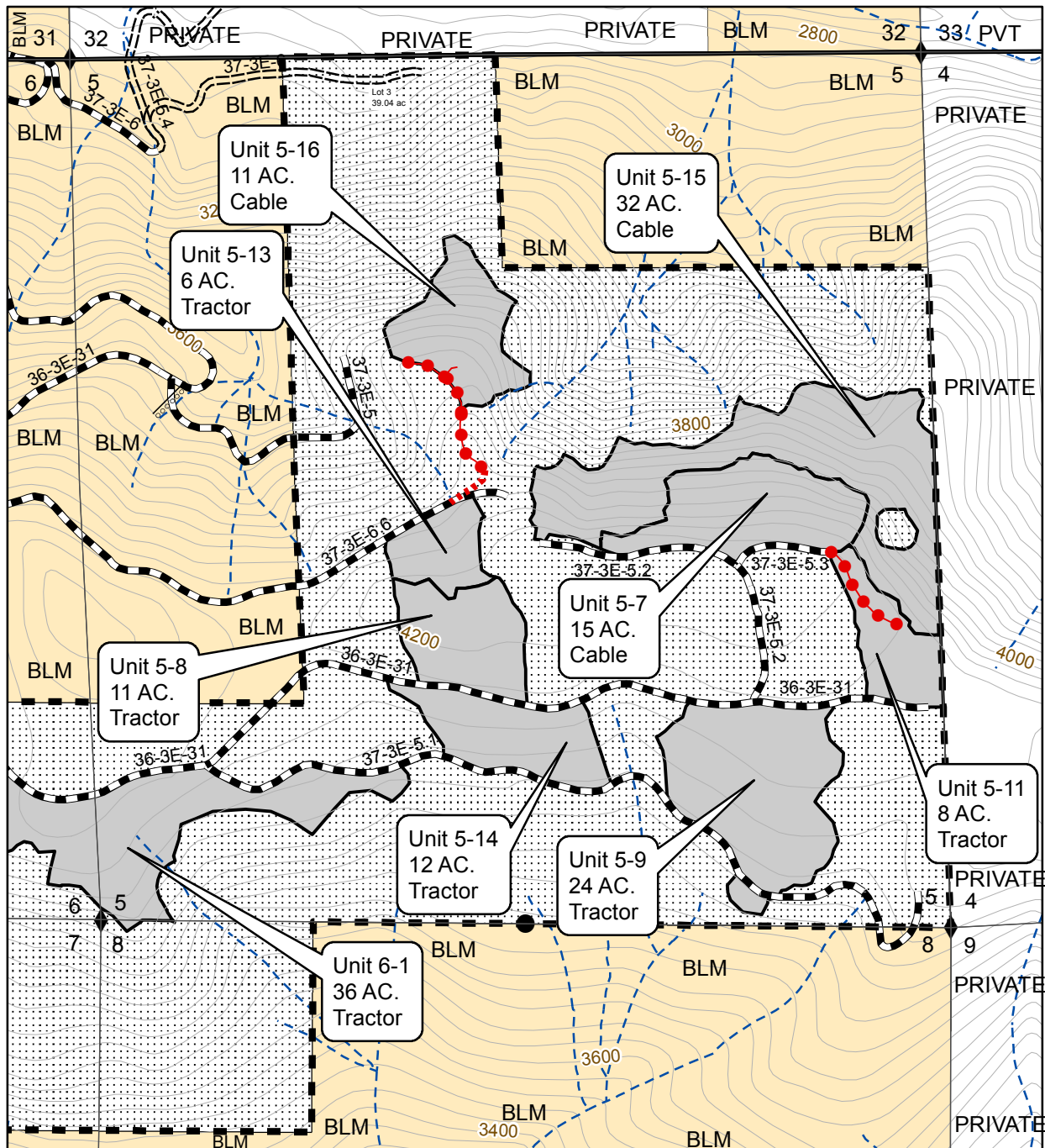
TRACTOR YARD HARVEST UNITS
 UNITS BLUE MARKED FOR CUTTING
 1-3, 5-13, 6-1, 31-1, 31-2.....59.00 AC.
 INDIVIDUAL TREES YELLOW MARKED
 FOR RESERVE
 1-1, 1-6, 1-7, 1-8, 1-9, 5-8, 5-9, 5-11, 5-14
 35-3, 35-4.....195.00 AC.
 CABLE YARD HARVEST UNITS
 UNITS BLUE MARKED FOR CUTTING
 5-7.....15.00 AC.
 INDIVIDUAL TREES YELLOW MARKED
 FOR RESERVE
 5-15, 5-16, 7-1.....73.00 AC.
 TOTAL.....342.00 AC.
 RIGHT OF WAY.....6.00 AC.
 RESERVE AREA.....1,251.27 AC.
 TOTAL CONTRACT AREA.....1,599.27 AC.











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

Medford
HEPPSIE
ORM06-TS-13-01

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 |
|--------------------|--------------|-----------|---------------|
| Douglas-fir | 3,436 | | |
| White Fir | 118 | | |
| Ponderosa Pine | 77 | | |
| Incense-cedar | 62 | | |
| Sale Totals | 3,693 | | |

Unit Details (16' MB)

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

| Species | Net Volume | Bid Price | Species Value |
|--------------------|------------|-----------|---------------|
| Douglas-fir | 110 | | |
| Incense-cedar | 3 | | |
| Ponderosa Pine | | | |
| White Fir | 1 | | |
| Unit Totals | 114 | | |

Unit 1-3 2 Acres Value per Acre : \$0.00

| Species | Net Volume | Bid Price | Species Value |
|--------------------|------------|-----------|---------------|
| Douglas-fir | 22 | | |
| Unit Totals | 22 | | |

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

Medford
HEPPSIE
ORM06-TS-13-01

Unit 1-6 4 Acres Value per Acre : \$0.00

| Species | Net Volume | Bid Price | Species Value |
|--------------------|------------|-----------|---------------|
| Douglas-fir | 64 | | |
| Incense-cedar | | | |
| Ponderosa Pine | | | |
| White Fir | 1 | | |
| Unit Totals | 65 | | |

Unit 1-7 10 Acres Value per Acre : \$0.00

| Species | Net Volume | Bid Price | Species Value |
|--------------------|------------|-----------|---------------|
| Douglas-fir | 102 | | |
| Incense-cedar | | | |
| Ponderosa Pine | | | |
| White Fir | 3 | | |
| Unit Totals | 105 | | |

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

| Species | Net Volume | Bid Price | Species Value |
|--------------------|------------|-----------|---------------|
| Douglas-fir | 19 | | |
| Ponderosa Pine | | | |
| White Fir | 1 | | |
| Unit Totals | 20 | | |

Unit 1-9 12 Acres Value per Acre : \$0.00

| Species | Net Volume | Bid Price | Species Value |
|--------------------|------------|-----------|---------------|
| Douglas-fir | 227 | | |
| Ponderosa Pine | 2 | | |
| White Fir | 4 | | |
| Unit Totals | 233 | | |

Unit 31-1 10 Acres Value per Acre : \$0.00

| Species | Net Volume | Bid Price | Species Value |
|--------------------|------------|-----------|---------------|
| Douglas-fir | 24 | | |
| Incense-cedar | 2 | | |
| Ponderosa Pine | 1 | | |
| Unit Totals | 27 | | |

Medford
HEPPSIE
ORM06-TS-13-01

| Species | Net Volume | Bid Price | Species Value |
|--------------------|---------------|--------------|------------------|
| Douglas-fir | 24 | | |
| Incense-cedar | | | |
| White Fir | 5 | | |
| Unit Totals | 29 | | |

| Species | Net Volume | Bid Price | Species Value |
|--------------------|------------|-----------|---------------|
| Douglas-fir | 480 | | |
| Incense-cedar | 1 | | |
| Ponderosa Pine | 8 | | |
| White Fir | | | |
| Unit Totals | 489 | | |

| Species | Net Volume | Bid Price | Species Value |
|--------------------|------------|-----------|---------------|
| Douglas-fir | 787 | | |
| Incense-cedar | 4 | | |
| Ponderosa Pine | 7 | | |
| White Fir | | | |
| Unit Totals | 798 | | |

| Species | Net Volume | Bid Price | Species Value |
|--------------------|------------|-----------|---------------|
| Douglas-fir | 84 | | |
| Incense-cedar | 1 | | |
| White Fir | 20 | | |
| Unit Totals | 105 | | |

| Species | Net Volume | Bid Price | Species Value |
|--------------------|------------|-----------|---------------|
| Douglas-fir | 31 | | |
| White Fir | 8 | | |
| Unit Totals | 39 | | |

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

Medford
HEPPSIE
ORM06-TS-13-01

Unit 5-14 12 Acres Value per Acre : \$0.00

| Species | Net Volume | Bid Price | Species Value |
|--------------------|------------|-----------|---------------|
| Douglas-fir | 91 | | |
| Incense-cedar | 2 | | |
| Ponderosa Pine | 6 | | |
| White Fir | 4 | | |
| Unit Totals | 103 | | |

Unit 5-15 32 Acres Value per Acre : \$0.00

| Species | Net Volume | Bid Price | Species Value |
|--------------------|------------|-----------|---------------|
| Douglas-fir | 298 | | |
| White Fir | 11 | | |
| Unit Totals | 309 | | |

Unit 5-16 11 Acres Value per Acre : \$0.00

| Species | Net Volume | Bid Price | Species Value |
|--------------------|------------|-----------|---------------|
| Douglas-fir | 168 | | |
| Ponderosa Pine | | | |
| White Fir | 12 | | |
| Unit Totals | 180 | | |

Unit 5-7 15 Acres Value per Acre : \$0.00

| Species | Net Volume | Bid Price | Species Value |
|--------------------|------------|-----------|---------------|
| Douglas-fir | 87 | | |
| White Fir | | | |
| Unit Totals | 87 | | |

Unit 5-8 11 Acres Value per Acre : \$0.00

| Species | Net Volume | Bid Price | Species Value |
|--------------------|------------|-----------|---------------|
| Douglas-fir | 139 | | |
| Incense-cedar | 1 | | |
| Ponderosa Pine | 2 | | |
| White Fir | 15 | | |
| Unit Totals | 157 | | |

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

Medford
HEPPSIE
ORM06-TS-13-01

Unit 5-9 24 Acres Value per Acre : \$0.00

| Species | Net Volume | Bid Price | Species Value |
|--------------------|------------|-----------|---------------|
| Douglas-fir | 221 | | |
| Incense-cedar | 18 | | |
| Ponderosa Pine | 2 | | |
| White Fir | 6 | | |
| Unit Totals | 247 | | |

Unit 6-1 36 Acres Value per Acre : \$0.00

| Species | Net Volume | Bid Price | Species Value |
|--------------------|------------|-----------|---------------|
| Douglas-fir | 158 | | |
| Incense-cedar | 1 | | |
| Ponderosa Pine | 3 | | |
| White Fir | 15 | | |
| Unit Totals | 177 | | |

Unit 7-1 30 Acres Value per Acre : \$0.00

| Species | Net Volume | Bid Price | Species Value |
|--------------------|------------|-----------|---------------|
| Douglas-fir | 213 | | |
| Incense-cedar | 27 | | |
| Ponderosa Pine | 33 | | |
| White Fir | 9 | | |
| Unit Totals | 282 | | |

Unit ROW35 3 Acres Value per Acre : \$0.00

| Species | Net Volume | Bid Price | Species Value |
|--------------------|------------|-----------|---------------|
| Douglas-fir | 55 | | |
| Incense-cedar | 1 | | |
| Ponderosa Pine | 10 | | |
| Unit Totals | 66 | | |

Unit ROW5B 1 Acres Value per Acre : \$0.00

| Species | Net Volume | Bid Price | Species Value |
|--------------------|------------|-----------|---------------|
| Douglas-fir | 14 | | |
| Incense-cedar | | | |
| White Fir | 2 | | |
| Unit Totals | 16 | | |

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

Medford
HEPPSIE
ORM06-TS-13-01

Unit ROW6 2 Acres Value per Acre : \$0.00

| Species | Net Volume | Bid Price | Species Value |
|----------------|---------------|--------------|------------------|
| Douglas-fir | 18 | | |
| Incense-cedar | 1 | | |
| Ponderosa Pine | 3 | | |
| White Fir | 1 | | |
| Unit Totals | 23 | | |

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
MEDFORD DISTRICT
HEPPSIE TIMBER SALE
TRACT NO. 13-01

PROJECT LOCATION

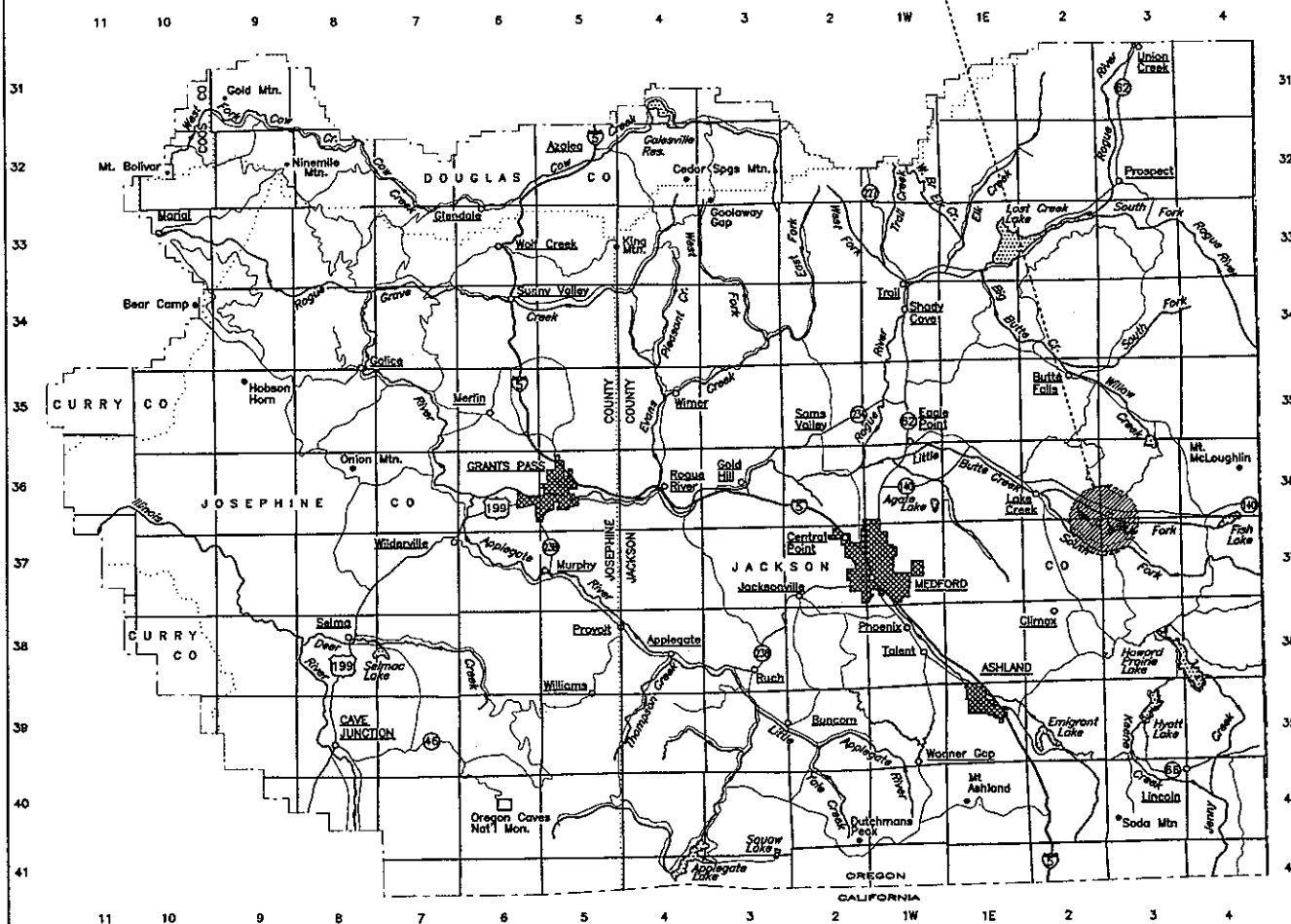
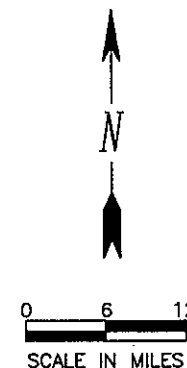


EXHIBIT C-1
SHEET 1 OF 1

| Exhibit No. | Description |
|-------------|---------------------------------|
| C 1 | TITLE SHEET |
| C 2 | ROAD LOCATION MAP |
| C 3 | ESTIMATE OF QUANTITIES |
| C 4 | SPECIFICATION SHEET |
| C 5 | ROAD RENOVATION WORKLIST |
| C 6 | DRAINAGE AND EROSION CONTROL |
| C 7 | PLAN AND PROFILE SHEETS |
| C 8 | TYPICAL SLOPE STAKING |
| C 9 | CONSTRUCTION SPECIFICATIONS |
| D 1 | ROAD MAINTENANCE SPECIFICATIONS |
| D 2 | ROAD MAINTENANCE MAP |

ALWAYS
THINK
SAFETY




| REV. NO. | DESCRIPTION | DATE | APPROV. |
|----------------|---|------|---------|
| | UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT MEDFORD DISTRICT - MEDFORD, OREGON | | |
| TITLE SHEET | | | |
| DESIGNED | <i>John C. Miller</i> | | |
| REVIEWED | <i>John C. Miller</i> | | |
| APPROVED | <i>John C. Miller</i> | | |
| DRAWN BY JWR | SCALE AS SHOWN | | |
| DATE JULY 2012 | SHEET 1 OF 1 | | |
| DRAWING NO. | OR-110-TS13-01-C1 | | |










HEPPSIE TIMBER SALE
ROAD LOCATION MAP
EXHIBIT C-2; PAGE 1 OF 1

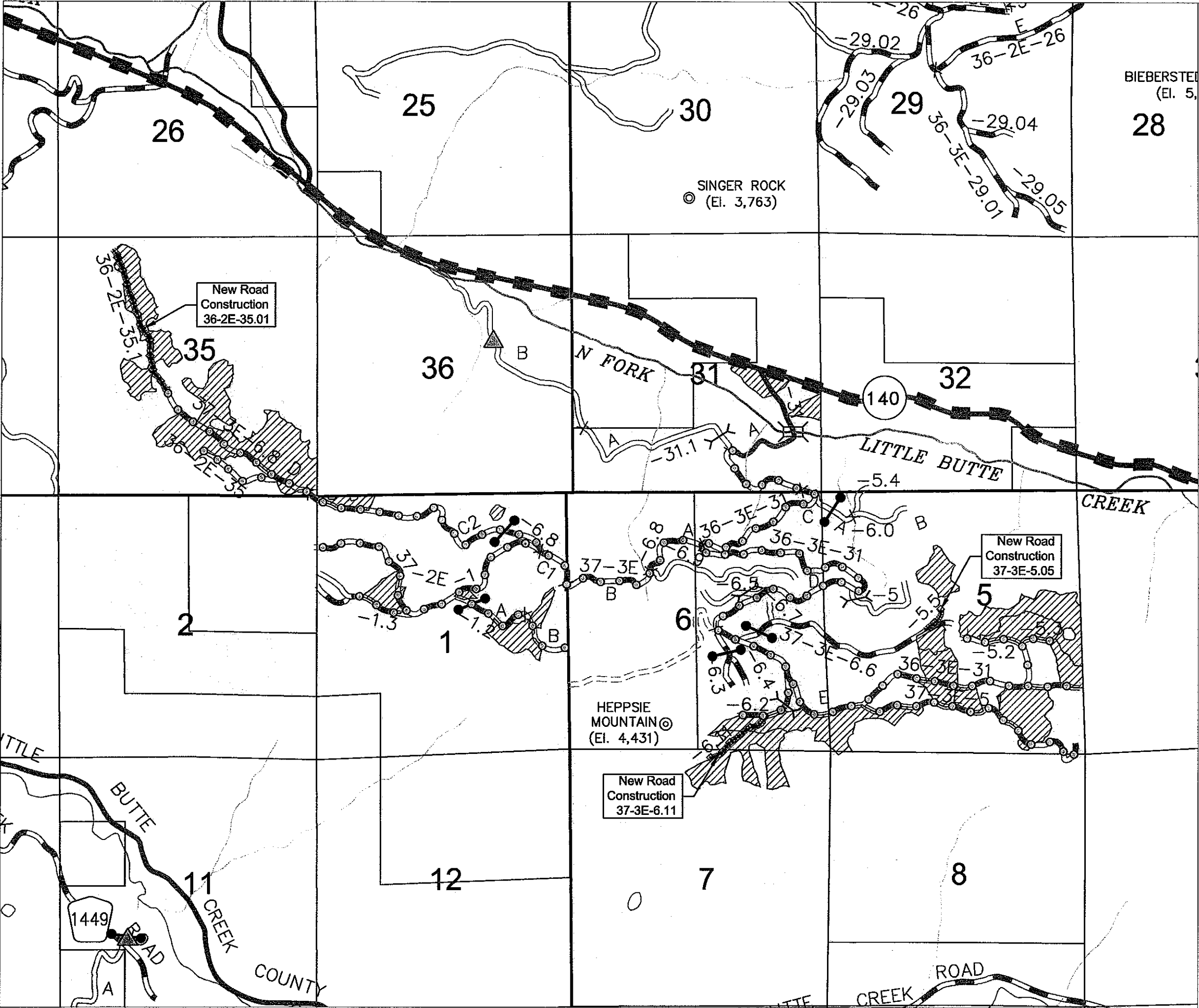
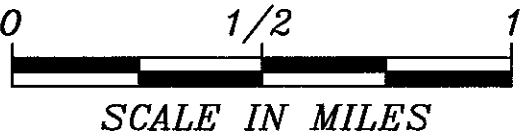
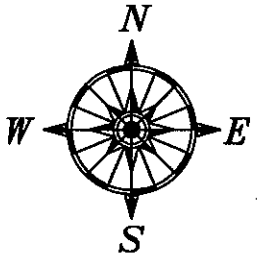
U.S.D.I. BLM MEDFORD DISTRICT

T.36S., R.2E. WILL. MER.
T.36S., R.3E. WILL. MER.
T.37S., R.2E. WILL. MER.
T.37S., R.3E. WILL. MER.

-  EXISTING GATE
-  EXISTING BARRICADE
-  PUMP CHANGE

ROAD PROJECTS

-  EXISTING ROAD
-  EXISTING PAVED ROAD
-  EXISTING PRIMITIVE ROAD
-  ROAD TO BE BLADED AND DRAINAGE IMPROVED
-  ROAD TO BE CONSTRUCTED
-  BLM LAND
-  TS UNITS



R.2E. | R.3E.

[illegible]

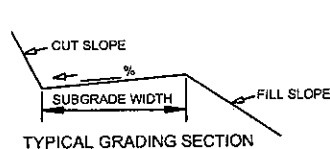
* FOR INFORMATIONAL USE ONLY,
QUANTITIES SHOWN ARE NOT PAY ITEMS.

**** Indicate gradation.**

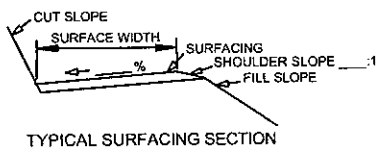
ALWAYS
THINK
SAFETY

| | | | |
|---|-----------------------|--------------|---------|
| REV. NO. | | DATE | APPROV. |
| U. S. DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT MEDFORD DISTRICT MEDFORD, OREGON | | | |
| ESTIMATE OF QUANTITIES* | | | |
| DESIGNED | <i>John W. Nelson</i> | | |
| REVIEWED | <i>John W. Nelson</i> | | |
| APPROVED | <i>Frank Marshall</i> | | |
| DRAWN: | JWR | SCALE: NONE | |
| DATE: | July 2012 | SHEET 1 OF 1 | |
| DRAWING NO. OR-110-TS13-01-C3 | | | |

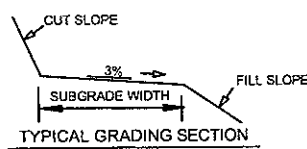
| ROAD NUMBER | STATION OR MILE POST | TO STATION OR MILE POST | LENGTH MILE OR STATION | TYPICAL SECTION TYPE | ALIGNMENT MAXIMUM DEGREE OF CURVE | ROAD WIDTH (1-3) | | GRADIENT | | CLEARING WIDTH | | | | SURFACING (4) | | | | | | | | REMARKS | |
|-------------|----------------------------|-------------------------------|------------------------------|----------------------------|--|------------------|-------|----------------------|--------------------|----------------|-------------|---------------------|---|------------------|----------------|----------|---------|------------------|---|----------|---------|---------|--------------------------|
| | | | | | | SUBGRADE | DITCH | MAXIMUM FAVORABLE | MAXIMUM ADVERSE | BEYOND | | EXISTING ROAD(S) | | BASE COURSE | | | | SURFACE COURSE | | | | | |
| | | | | | | | | | | TOP CUT | TOE FILL | L | R | MINIMUM WIDTH | COMP. DEPTH | TYPE (2) | GRADING | MINIMUM WIDTH | COMP. WIDTH | TYPE (2) | GRADING | | |
| | | | | | | | | | | | | | | | | | | | | | | | Road to be Bladed |
| | | | | | | | 16 | 3 | | | | | | | | | | | | | | | Road to be Bladed |
| 36-2E-35.00 | 0.00 | 0.35 | 0.35 | 5 | | | 16 | 3 | | | | | | | | | | | | | | | Road to be Bladed |
| 36-3E-31.00 | 0.00 | 4.66 | 4.66 | 6 | | | 18 | 3 | | | | | | | | | | | | | | | Road to be Bladed |
| 37-2E-1.00 | 0.00 | 1.24 | 1.24 | 6 | | | 16 | 3 | | | | | | | | | | | | | | | Road to be Bladed |
| 37-2E-1.02 | 0.00 | 0.54 | 0.54 | 5 | | | 16 | 3 | | | | | | | | | | | | | | | Road to be Bladed |
| 37-2E-1.03 | 0.00 | 0.50 | 0.50 | 5 | | | 16 | 3 | | | | | | | | | | | | | | | Road to be Bladed |
| 37-3E-5.01 | 0.00 | 1.03 | 1.03 | 6 | | | 16 | 3 | | | | | | | | | | | | | | | Road to be Bladed |
| 37-3E-5.02 | 0.00 | 0.42 | 0.42 | 3 | | | 14 | | | | | | | | | | | | Road to be Baricaded upon Completion Log Haul | | | | Road to be Bladed |
| 37-3E-5.03 | 0.00 | 0.15 | 0.15 | 3 | | | 14 | | | | | | | | | | | | | | | | Road to be Bladed |
| 37-3E-6.02 | 0.00 | 0.32 | 0.32 | 3 | | | 14 | | | | | | | | | | | | Road to be Baricaded upon Completion Log Haul | | | | Road to be Bladed |
| 37-3E-6.08 | 0.00 | 2.69 | 2.69 | 6 | | | 16 | 3 | | | | | | | | | | | | | | | Road to be Bladed |
| 36-2E-35.01 | 0+00 | 32+40 | 0.61 | 3 | | | 15 | | | | 3 | 0 | | | 14 | 0'-8" | A | 0'-4" | Road to be Baricaded and Water Barred upon Completion Log Haul | | | | New Road Construction |
| 37-3E-5.05 | 0+00 | 5+91 | 0.11 | 3 | | | 15 | | | | 3 | 0 | | | | | | | Road to be Baricaded upon Completion Log Haul | | | | New Road Construction |
| 37-3E-6.11 | 0+00 | 15+70 | 0.30 | 3 | | | 15 | | | | 3 | 0 | | | | | | | Road to be Water Barred upon Completion Log Haul | | | | New Road Construction |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
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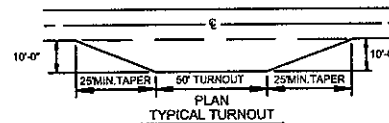
TYPE 1



TYPE 2



TYPE 3

PLAN
TYPICAL TURNOUT

NOTES

- EXTRA SUBGRADE WIDTHS
ADD TO EACH FILL SHOULDER 1 FT. FOR
FILLS OF 1-5 FT. & 2 FT. FOR FILLS OVER
5 FT. WHEN THE INSIDE SHOULDER OF ALL
CURVES AS FOLLOWS:
WHEN THE DEGREE OF CURVE EQUALS
7-21 ADD 1 FT.
22-35 ADD 2 FT.
36-49 ADD 3 FT.
50-64 ADD 4 FT.
65-99 ADD 5 FT.

MATERIALS CUT SLOPES FILL SLOPES

COMMON 1 1/2:1

SOFT ROCK & SHALE 1 1/2:1

SOLID ROCK 1 1/2:1 ANGLE OF REPOSE
FULL BENCH CONSTRUCTION IS REQUIRED ON SIDE SLOPES
EXCEEDING 50%.

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

- TURNOUTS
A. WIDTH 10 FT. IN ADDITION TO SUBGRADE WIDTH, OR AS
SHOWN ON THE PLANS.
B. LOCATED APPROXIMATELY AS SHOWN ON THE ROAD PLANS.
C. INTERVISIBLE AND NOT MORE THAN 100 FT. APART.

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

- CLEARING WIDTH
SEE SUBSECTION 2100

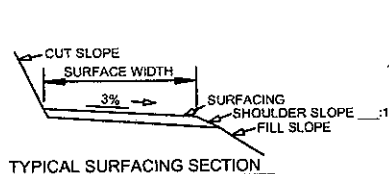
ALWAYS
THINK
SAFETY

REV. NO. DESCRIPTION DATE APPROV.

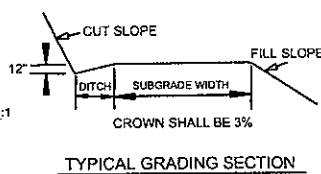
UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT MEDFORD DISTRICT
MEDFORD, OREGON

SPECIFICATION SHEET

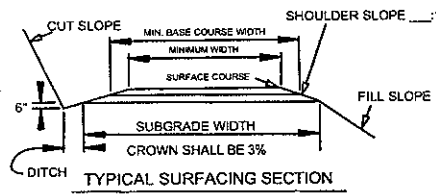
DESIGNED *John W. Wilson*
 REVIEWED *John W. Wilson*
 APPROVED *John W. Wilson*
 DRAWN: JWR SCALE: NONE
 DATE: July 2012 SHEET: 1 OF 1
 DRAWING NO. OR-110-TS13-01-C4



TYPE 4



TYPE 5



TYPE 6

HEPPSIE TIMBER SALE Roads Worklist

This consists of road work to be performed on the road prior to its use. The work includes, but not limited to blading the road surface, cleaning catch basins, cleaning ditches, and placing crushed aggregate on approved road bed..

Road barricades removed during timber operations shall be replaced immediately after use. For activities that are not finished in one dry season, barricades shall be re-installed before the wet season, October 15th.

BST – Bituminous Surface
NAT – Natural Surface
CMP – Corrugated Metal Pipe

ASC – Aggregate Surface
PRR – Pitrun Surface
Jct.– Junction

Road 36-2E-35.00 (Heppsie Mtn Last Sp) NAT 16' Width

| <u>MP</u> | <u>Remarks</u> |
|-----------|--|
| 0.00 | Jct. with BLM Road 37-3E-6.08. Begin blading and shaping. |
| 0.06 | Existing 18" CMP. |
| 0.13 | Existing 18" CMP. |
| 0.19 | Existing 18" CMP. |
| 0.35 | End of project. |

Road 36-3E-31.00 (Heppsie Mtn Mainline) BST/ASC 18' Width

| <u>MP</u> | <u>Remarks</u> |
|-----------|------------------------|
| 0.00 | Jct. with Highway 140. |
| 0.07 | Existing 18" CMP. |
| 0.16 | Existing 18" CMP. |
| 0.28 | Existing Bridge. |
| 0.38 | Existing 24" CMP. |
| 0.40 | Existing Cattleguard. |
| 0.46 | Existing 18" CMP. |

| | |
|------|--|
| 0.54 | Existing 18" CMP. |
| 0.56 | Existing 36" CMP. |
| 0.63 | Junction road 36-3E-31.1 right. End Existing BST surface. Begin existing ASC surface. |
| 0.65 | Existing 18" CMP. |
| 0.71 | Begin blading and shaping. |
| 0.73 | Existing 18" CMP. |
| 0.82 | Existing 24" CMP. |
| 0.95 | Existing 18" CMP. |
| 1.06 | Existing 18" CMP. End blading and shaping. |
| 1.12 | Junction road 37-3E-6.00 left. |
| 1.23 | Existing 18" CMP. |
| 1.34 | Existing 18" CMP. Clean inlet and catch basin. |
| 1.45 | Existing 18" CMP. Clean inlet and catch basin. |
| 1.54 | Existing 18" CMP. Clean inlet and catch basin. |
| 1.62 | Existing 18" CMP. Clean inlet and catch basin. |
| 1.71 | Junction road 37-3E-6.08 right. |
| 1.81 | Existing 24" CMP. Clean inlet and catch basin. |
| 1.89 | Existing 18" CMP. |
| 1.92 | Remove debris from ditch line and fill slope. |
| 2.00 | Existing 18" CMP. |
| 2.11 | Existing 18" CMP. |
| 2.24 | Existing 18" CMP. |
| 2.63 | Existing 18" CMP. |
| 2.69 | Existing 18" CMP. |

| | |
|------|--|
| 2.82 | Existing 18" CMP. |
| 2.93 | Existing 18" CMP. |
| 3.00 | Existing 18" CMP. |
| 3.13 | Existing 18" CMP. |
| 3.22 | Existing 18" CMP. |
| 3.24 | Junction road 37-3E-6.03 right. |
| 3.34 | Junction road 37-3E-6.06 left. |
| 3.39 | Existing 18" CMP. |
| 3.49 | Existing 18" CMP. |
| 3.59 | Existing 18" CMP. |
| 3.60 | Junction road 37-3E-6.02 right. |
| 3.72 | Existing 18" CMP. |
| 3.82 | Begin blading and shaping. |
| 3.92 | Existing 18" CMP. |
| 4.00 | Junction road 37-3E-5.01 right. |
| 4.06 | Existing 18" CMP. Clean inlet and catch basin. |
| 4.14 | Existing 18" CMP. |
| 4.43 | Existing 18" CMP. Clean inlet and catch basin. |
| 4.56 | Existing 18" CMP. |
| 4.71 | Junction road 37-3E-5.02 left. |
| 4.88 | Existing 18" CMP. |
| 4.94 | End of project. |

Road 37-2E-1.00 (Heppsie Mtn B Spur)
ASC 16' Width

| <u>MP</u> | <u>Remarks</u> |
|------------------|--|
| 0.00 | Jct. with BLM Road 37-3E-6.08. Begin blading and shaping. |
| 0.07 | Existing 18" CMP. Clean inlet and catch basin. |
| 0.13 | Existing 18" CMP. |
| 0.21 | Existing 18" CMP. |
| 0.36 | Existing 18" CMP. |
| 0.58 | Existing 18" CMP. |
| 0.66 | Junction road 37-2E-1.03 left. |
| 0.97 | Existing 18" CMP. |
| 1.10 | Existing 18" CMP. Clean inlet and catch basin. |
| 1.16 | Remove debris from ditch line and fill slope. |
| 1.24 | End of project. |

Road 37-2E-1.02 (Heppsie Mtn C Spur)
ASC/NAT 16' Width

| <u>MP</u> | <u>Remarks</u> |
|------------------|--|
| 0.00 | Jct. with BLM Road 37-2E-1.00. Begin blading and shaping. |
| 0.02 | Remove existing green powder river gate. |
| 0.05 | Existing 18" CMP. |
| 0.12 | Existing 18" CMP. |
| 0.20 | Reconstruct existing water dip. Armor with 40 cy of pit run. |
| 0.23 | Existing 18" CMP. |
| 0.28 | Existing 18" CMP. |

0.35 End Existing ASC surface. Begin existing NAT surface.
0.54 End of project.

Road 37-2E-1.03 (Heppsie Mtn Quarry Spur)
ASC 16' Width

| <u>MP</u> | <u>Remarks</u> |
|------------------|--|
| 0.00 | Jct. with BLM Road 37-2E-1.00. Begin blading and shaping. |
| 0.01 | Existing 18" CMP. |
| 0.08 | Existing 18" CMP. |
| 0.14 | Existing 18" CMP. |
| 0.18 | Existing 18" CMP. |
| 0.24 | Existing 18" CMP. |
| 0.29 | End of project. |

Road 37-3E-5.01 (Heppsie Mtn One Mile Spur)
ASC 16' Width

| <u>MP</u> | <u>Remarks</u> |
|------------------|---|
| 0.00 | Jct. with BLM Road 36-3E-31.00. Begin blading and shaping. |
| 0.14 | Existing 18" CMP. |
| 0.29 | Existing 18" CMP. |
| 0.40 | Existing 18" CMP. |
| 0.56 | Existing 18" CMP. |
| 0.72 | Existing 18" CMP. |
| 0.88 | Existing 18" CMP. |
| 1.03 | End of project. |

Road 37-3E-5.02 (Heppsie Mtn Ridgetop Spur)

NAT 14' Width

| <u>MP</u> | <u>Remarks</u> |
|------------------|--|
| 0.00 | Jct. with BLM Road 36-3E-31.00. Begin blading and shaping. |
| 0.01 | Remove existing Earth Berm Barricade. Replace upon completion of log haul. |
| 0.42 | End. |

Road 37-3E-5.03 (Heppsie Mtn Ne Spur)

NAT 14' Width

| <u>MP</u> | <u>Remarks</u> |
|------------------|--|
| 0.00 | Jct. with BLM Road 37-3E-5.02. Begin blading and shaping. |
| 0.15 | End Existing Road. Begin Construction (See Plan and Profile Sheets). |

Road 37-3E-6.02 (Heppsie Mtn S)

PRR 14' Width

| <u>MP</u> | <u>Remarks</u> |
|------------------|--|
| 0.00 | Jct. with BLM Road 36-3E-31.00. Begin blading and shaping. |
| 0.05 | Remove existing Earth Berm Barricade. Replace upon completion of log haul. |
| 0.32 | End of project. |

Road 37-3E-6.06 (Heppsie Mtn Long Spur)

ASC 12' Width

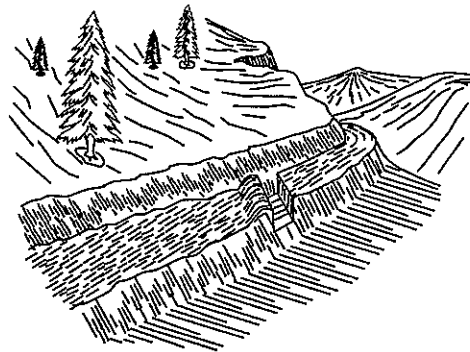
| <u>MP</u> | <u>Remarks</u> |
|------------------|---------------------------------|
| 0.00 | Jct. with BLM Road 36-3E-31.00. |
| 0.01 | Existing steel pipe gate. |
| 0.05 | Existing water dip. |
| 0.09 | Existing water dip. |
| 0.14 | Existing water dip. |
| 0.19 | Existing water dip. |
| 0.22 | Existing water dip. |
| 0.48 | Existing water dip. |

0.53 Existing water dip.
0.83 Begin Construction (See Plan and Profile Sheets).
0.93 End of project.

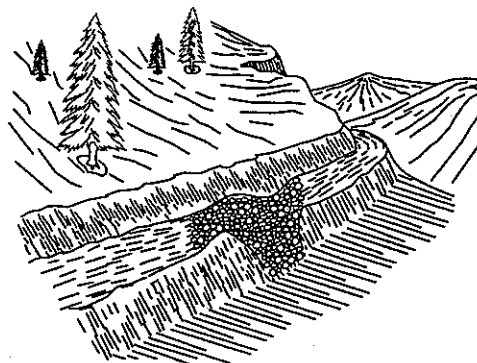
Road 37-3E-6.08 (Heppsie Mtn A Spur)
ASC 16' Width

| <u>MP</u> | <u>Remarks</u> |
|------------------|---|
| 0.00 | Jct. with BLM Road 36-3E-31.00. Begin blading and shaping. |
| 0.11 | Existing 18" CMP. |
| 0.23 | Existing 18" CMP. |
| 0.29 | Junction Private road right. |
| 0.32 | Existing 18" CMP. |
| 0.38 | Existing 36" CMP. |
| 0.45 | Existing 18" CMP. |
| 0.52 | Existing 18" CMP. |
| 0.55 | Remove slide material. |
| 0.58 | Existing 18" CMP. Clean inlet and catch basin. |
| 0.63 | Junction Private road left. |
| 0.69 | Existing 24" CMP. |
| 0.75 | Existing 18" CMP. |
| 0.82 | Existing 18" CMP. Clean inlet and catch basin. |
| 0.87 | Existing 18" CMP. |
| 0.89 | Existing 18" CMP. |
| 0.91 | Existing steel pipe gate. |
| 0.95 | Existing 18" CMP. |

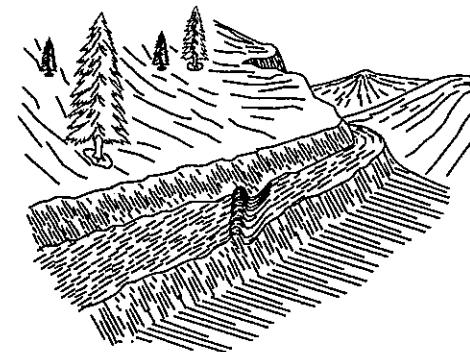
- 1.11 Existing 18" CMP.
- 1.26 Existing 24" CMP.
- 1.30 Existing 18" CMP.
- 1.35 Existing 18" CMP.
- 1.45 Existing 18" CMP.
- 1.52 Existing 24" CMP.
- 1.59 Existing 18" CMP.
- 1.63 Existing 18" CMP.
- 1.67 Existing 18" CMP.
- 1.78 Existing 18" CMP.
- 1.84 Existing 18" CMP.
- 1.88 Existing 18" CMP.
- 1.96 Existing 18" CMP.
- 2.05 Existing 18" CMP.
- 2.15 Junction Private road left.
- 2.16 Junction Private road right.
- 2.21 Existing 18" CMP.
- 2.43 Existing 18" CMP.
- 2.64 Existing 18" CMP.
- 2.69 End Existing Road. Begin Construction (See Plan and Profile Sheets).



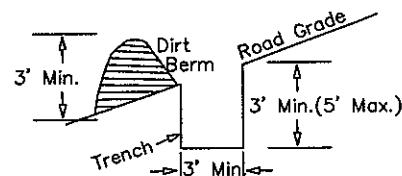
TRENCH BARRICADE



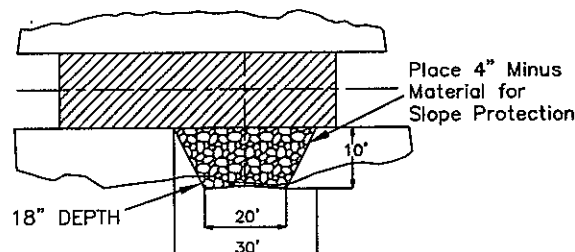
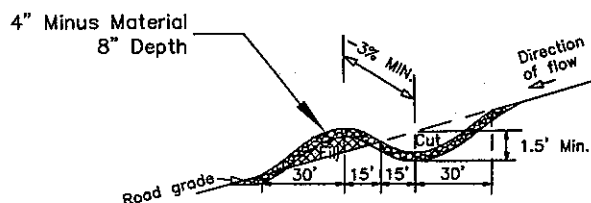
ARMORED WATER DIP



CROSS-DRAIN

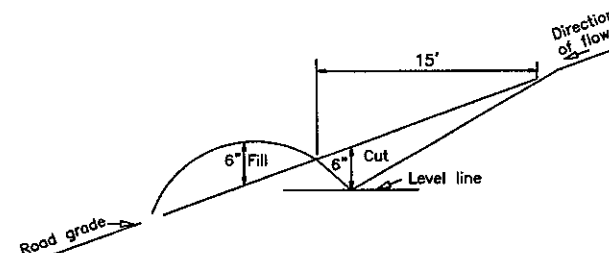


1. BARRICADE LENGTH SHALL EXTEND ACROSS THE ENTIRE ROAD SURFACE TO A POINT SUFFICIENT TO PROHIBIT MOTOR VEHICLE TRAFFIC.
2. THE EXACT LOCATION SHALL BE AS STAKED IN THE FIELD.
3. THE BARRICADE SHALL BE SKEWED AS NEEDED TO DRAIN OR AS DIRECTED BY THE AUTHORIZED OFFICERS REPRESENTATIVE.



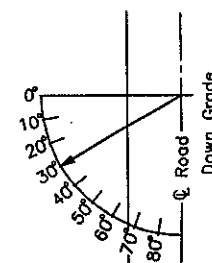
PLAN

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 WATER DIP INVERT SHALL BE SMOOTH AND FREE DRAINING.
5. THE LENGTH SHALL BE SUFFICIENT TO EXTEND FROM THE CUT BANK TO THE FILL SLOPE AND BE READILY CROSSED BY HIGH CLEARANCE TYPE VEHICLES.
6. MATERIAL SOURCE FOR 4" MINUS CRUSHED MATERIAL SHALL BE FROM A COMMERCIAL SOURCE.
7. EXCAVATED MATERIAL SHALL BE UTILIZED IN CONSTRUCTION OF WATER DIP. NO SIDECASTING IS ALLOWED.



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

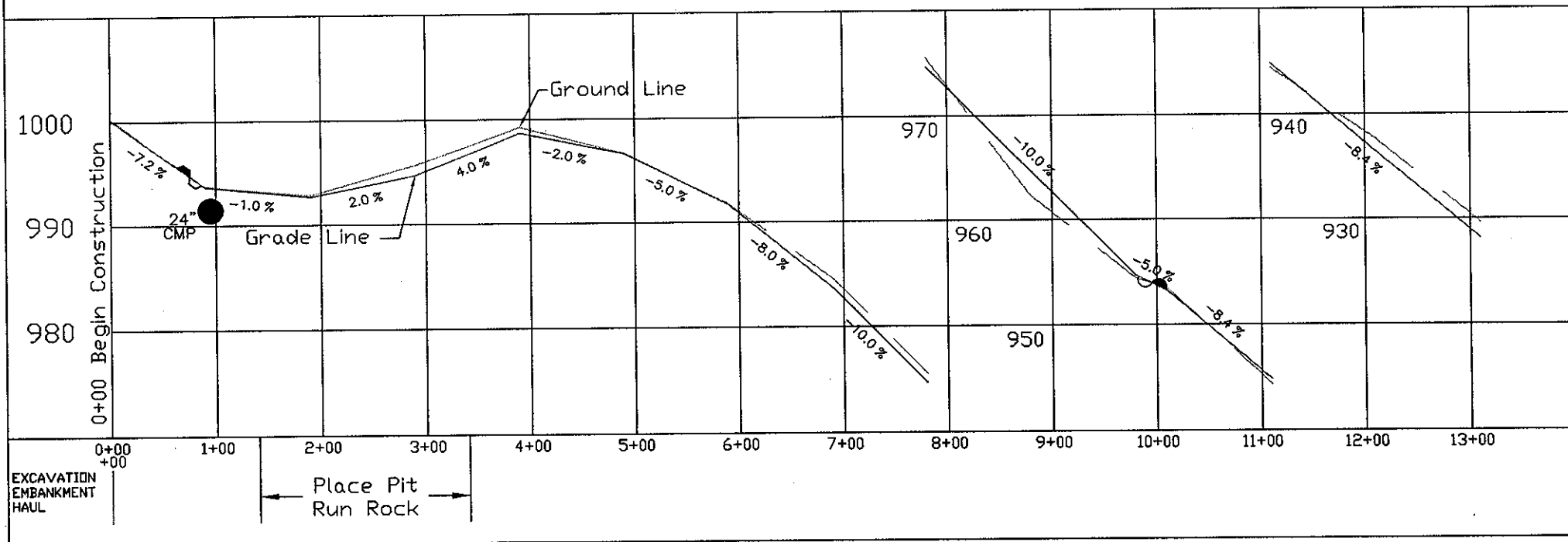
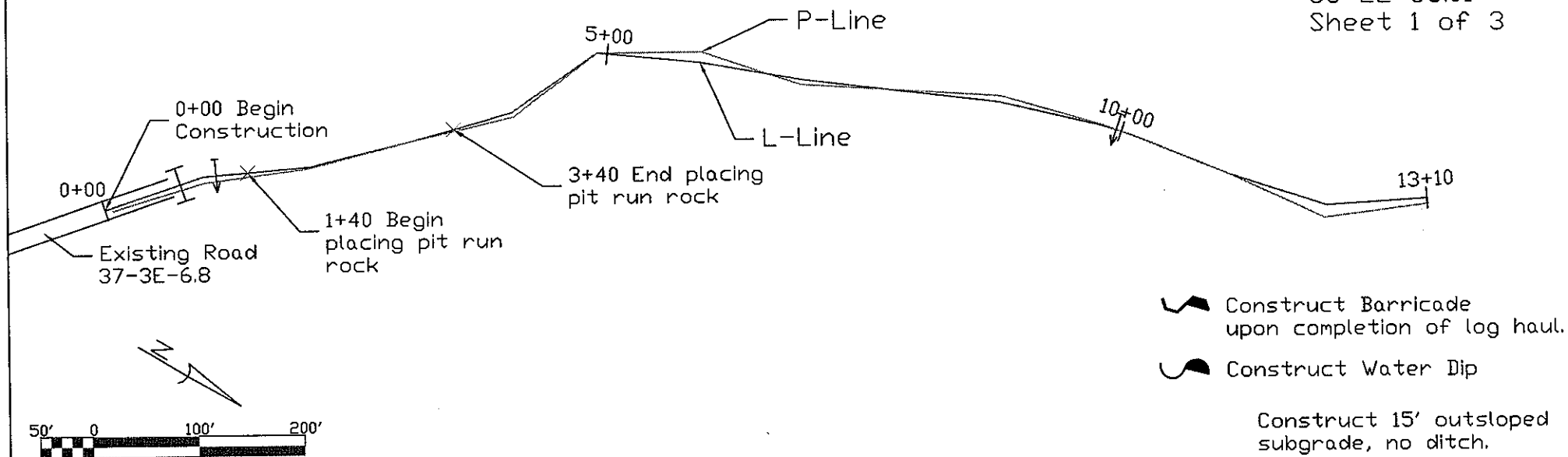
SKEW DIAGRAM



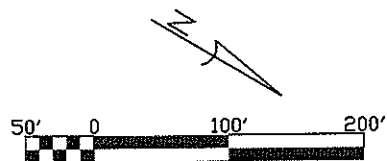
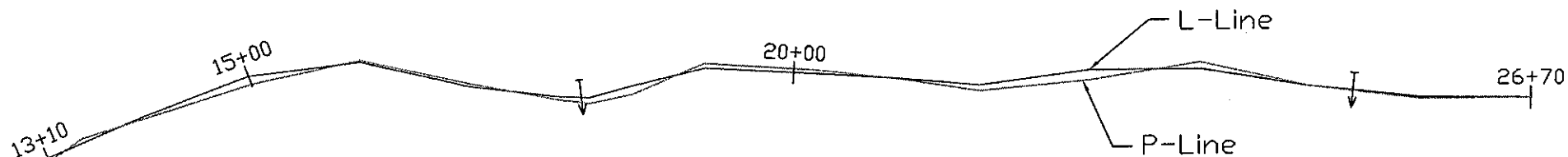
NOTE:

1. All armored water dips shall be rocked the entire width & length to a depth of 8".

| | | | | |
|---|-----------------------|-------------|--------|---------|
| | | | | |
| | | | | |
| REV. | NO. | DESCRIPTION | DATE | APPROV. |
| UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT MEDFORD DISTRICT - MEDFORD, OREGON | | | | |
| DRAINAGE & EROSION CONTROL INSTALLATION | | | | |
| DESIGNED | <i>John W. Miller</i> | | | |
| REVIEWED | <i>John W. Miller</i> | | | |
| APPROVED | <i>John W. Miller</i> | | | |
| DRAWN | JWR | SCALE | NONE | |
| DATE | July 2012 | SHEET | 1 OF 1 | |
| DRAWING NO. | OR-110-TS13-01-C6 | | | |

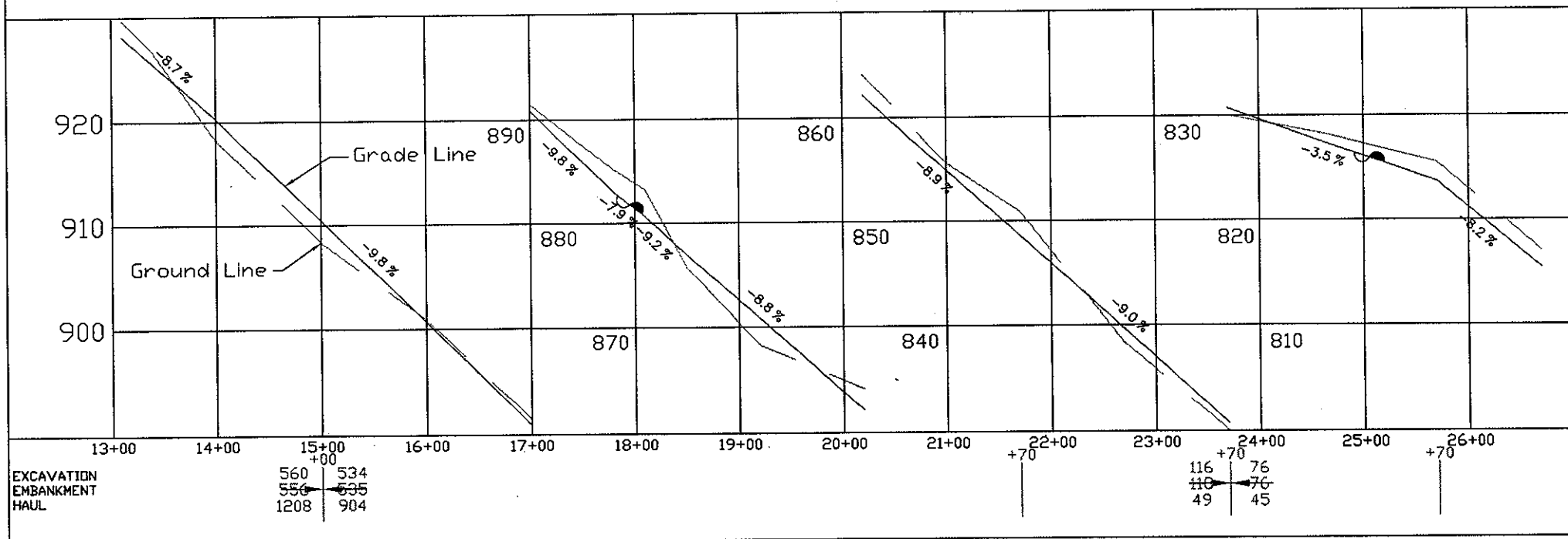


Heppsie TS
36-2E-35.01
Sheet 2 of 3

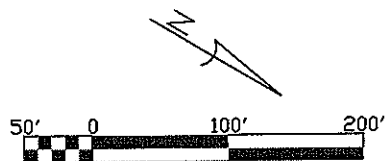
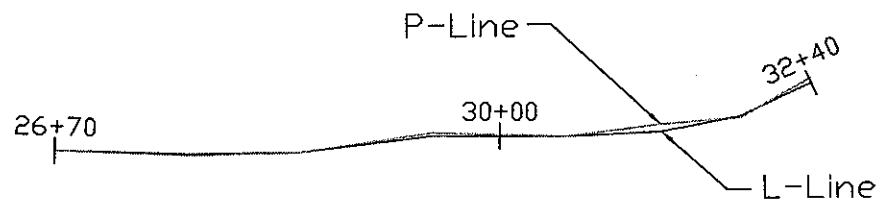


 Construct Water Dip

Construct 15' outsloped subgrade, no ditch.

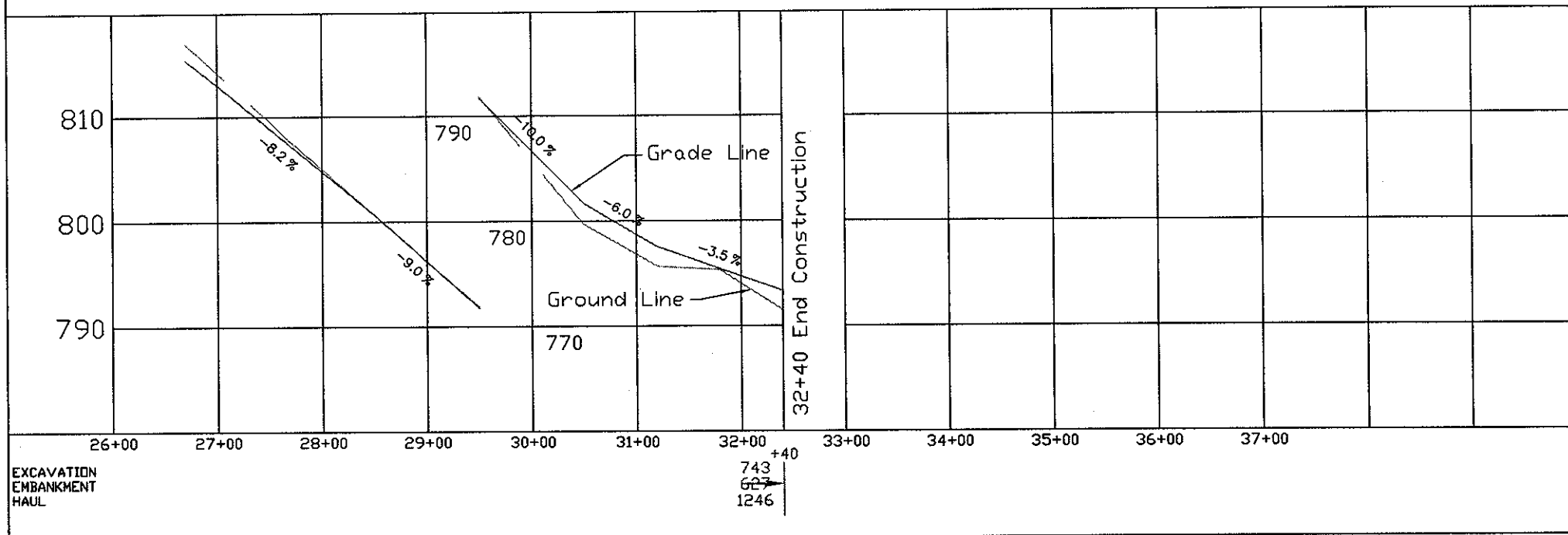


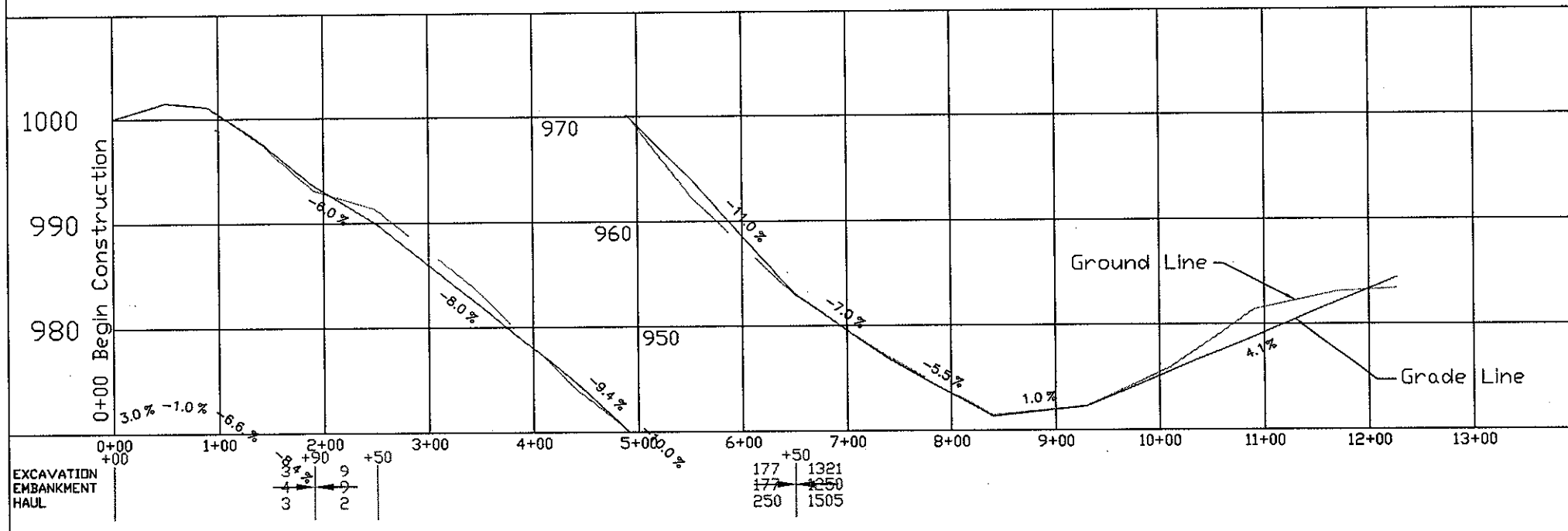
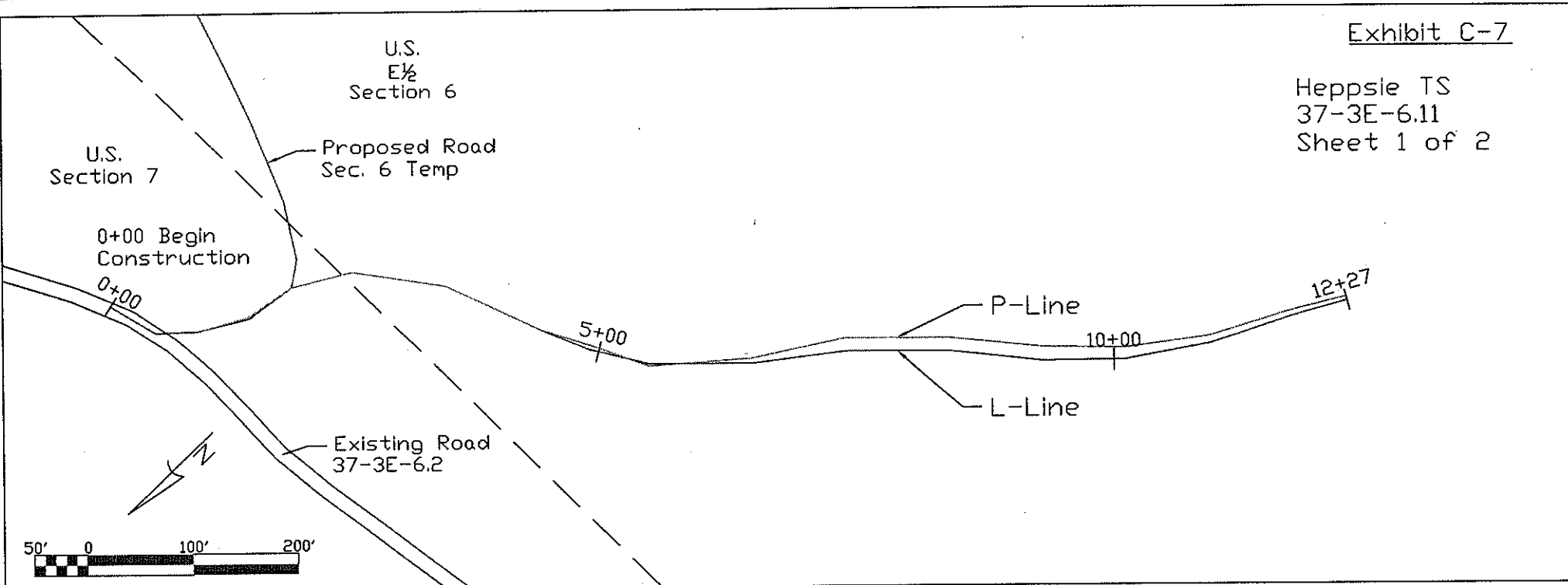
Heppsle TS
36-2E-35.01
Sheet 3 of 3



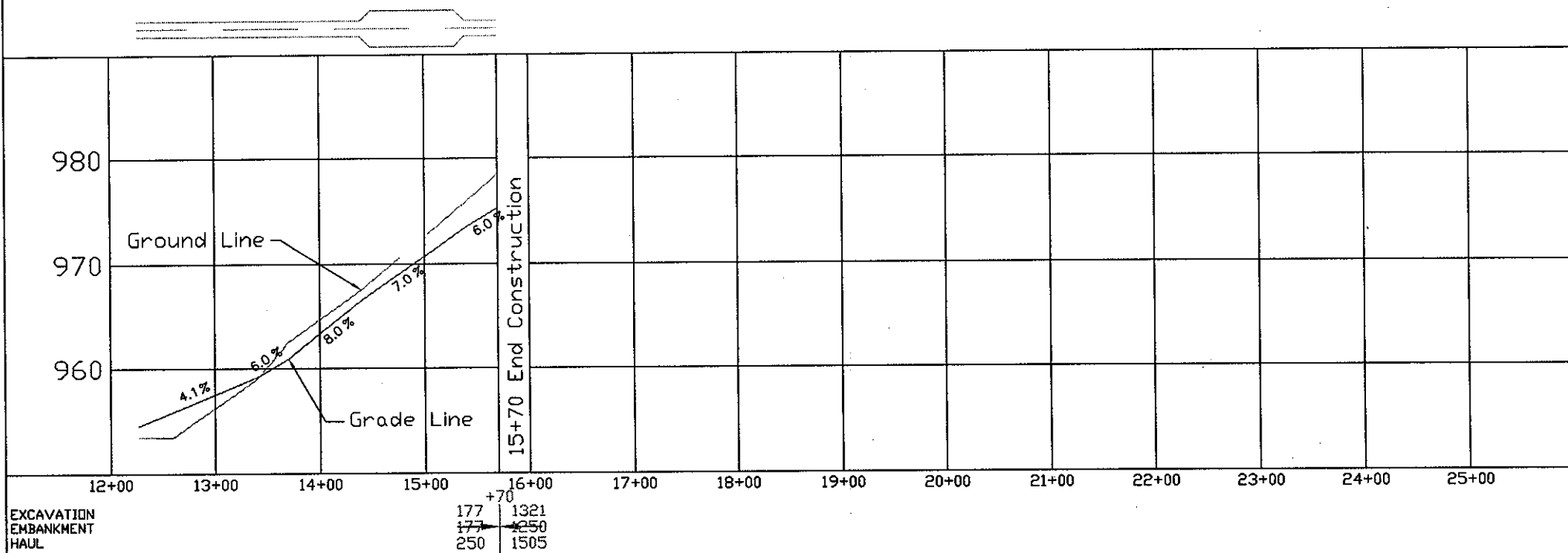
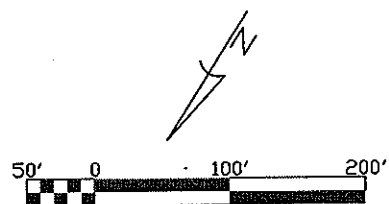
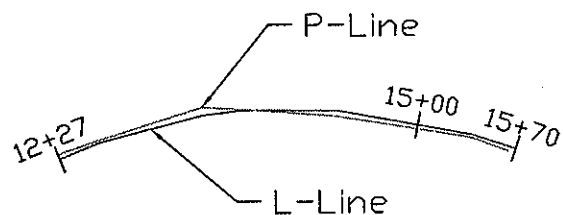
Construct Water Dip

Construct 15' outsloped
subgrade, no ditch.

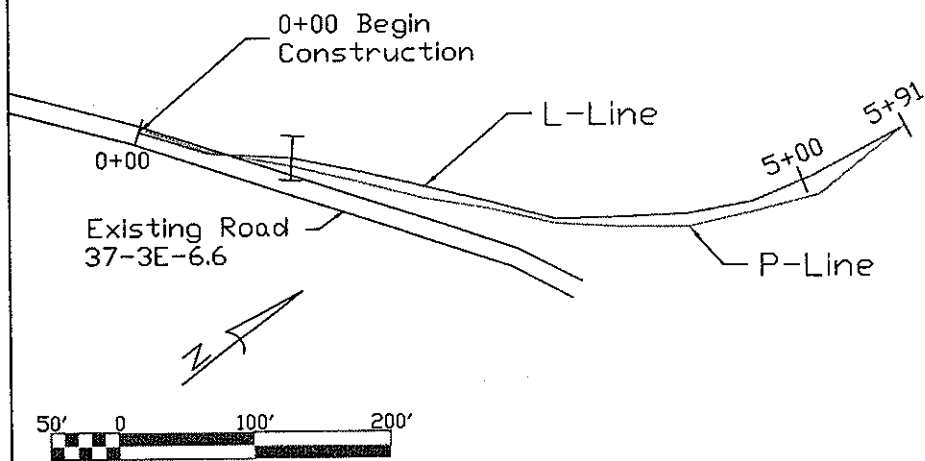




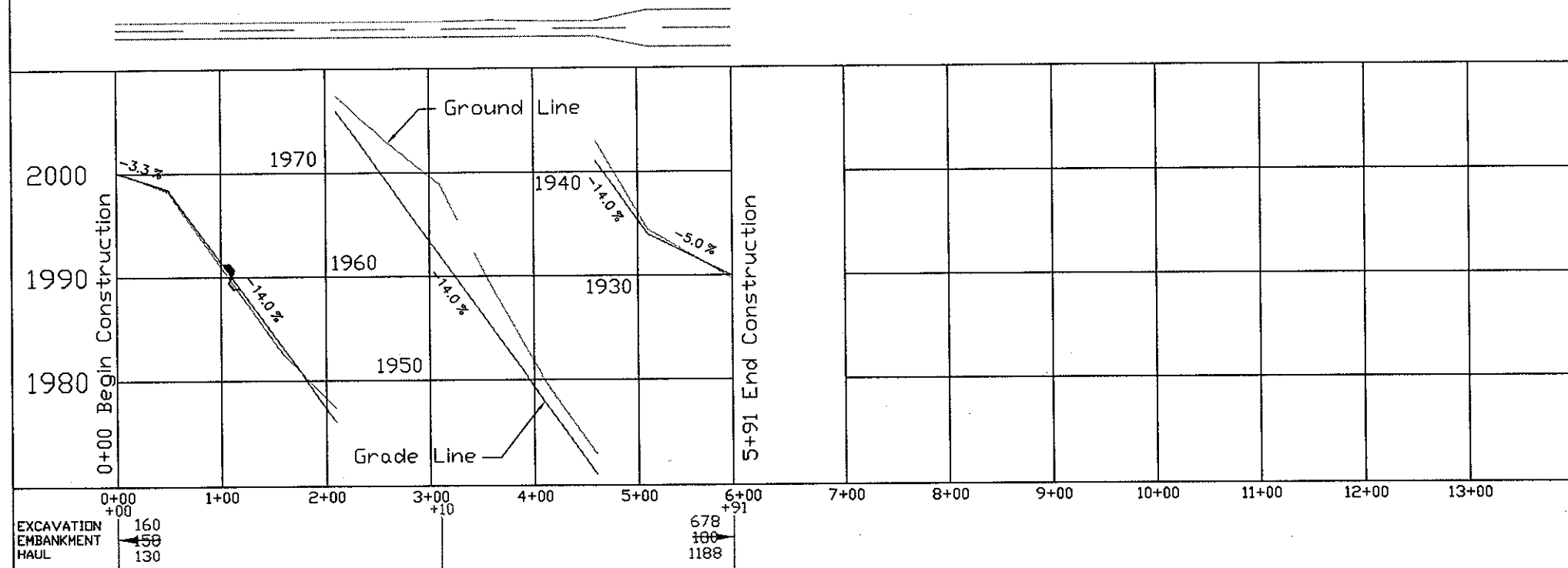
Heppsie TS
37-3E-6.11
Sheet 2 of 2

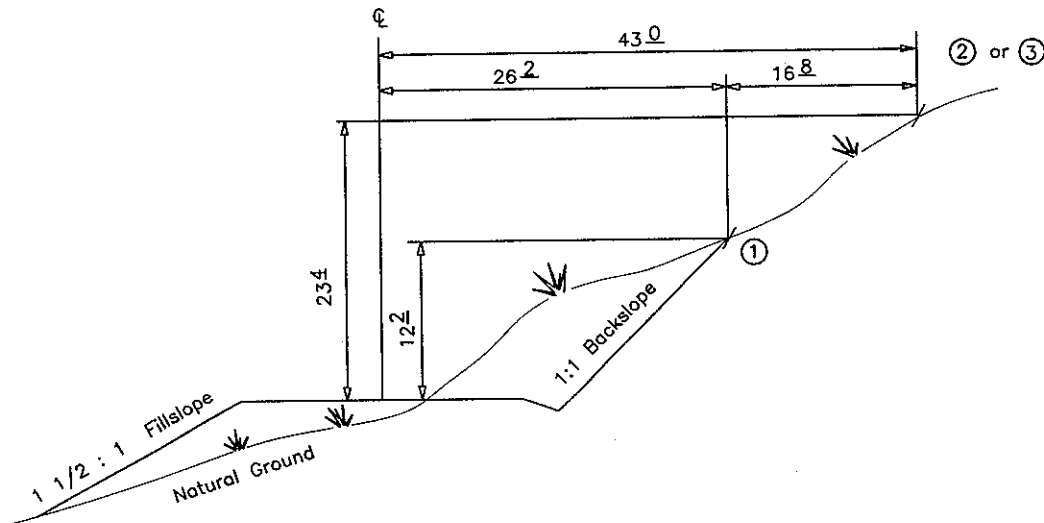


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37-3E-5.05
Sheet 1 of 1

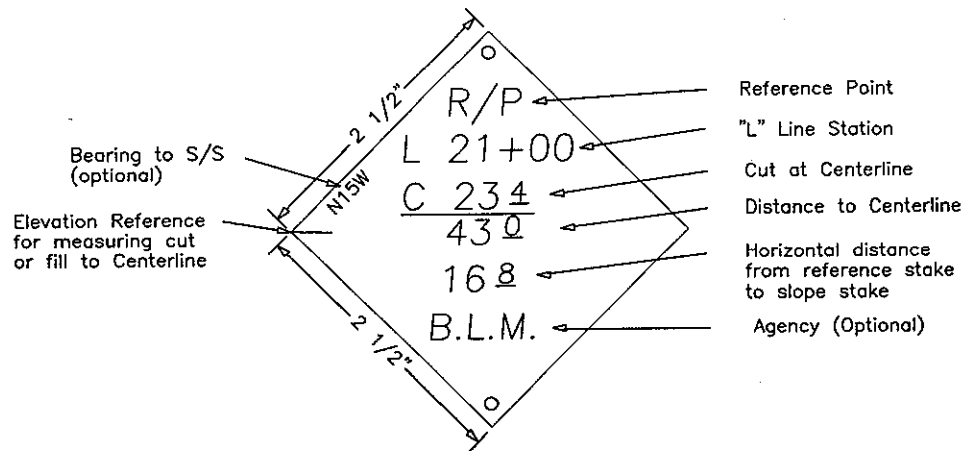


Construct Barricade upon completion of log haul.

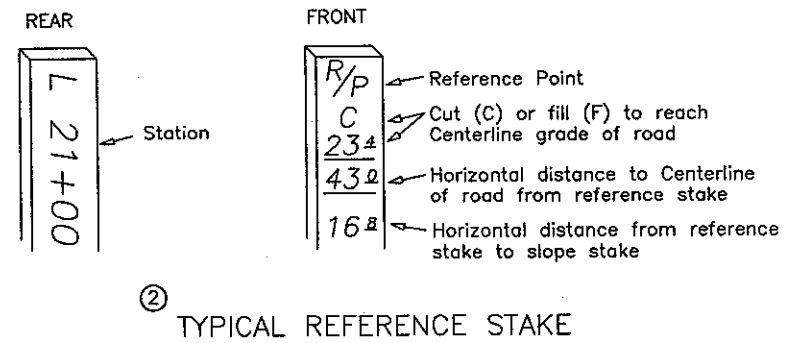
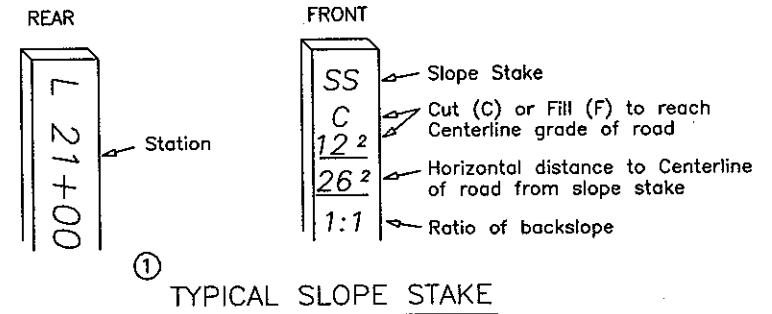




TYPICAL SLOPE STAKED
CROSS SECTION



TYPICAL REFERENCE TAG



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

TYPICAL SLOPE STAKING

| | | | |
|-------------|-------------------|-------|--------|
| DRAWN | JWR | SCALE | NONE |
| DATE | July 2012 | SHEET | 1 OF 1 |
| DRAWING NO. | OR-110-TS13-01-CB | | |

SPECIAL PROVISIONS

1. Before beginning road construction operations for the first time or after a shutdown of seven or more days, the Purchaser shall notify the Authorized Officer of the date he plans to begin operations. The Purchaser shall also notify the Authorized Officer if he intends to cease operations for any period of 30 or more days.
2. Winterized - All road segments not completed during dry weather periods shall be winterized, by providing a well-drained roadway by water barring, maintaining drainage, barricades, and any additional measures necessary to minimize erosion and other damage to the roadway, as directed by the Authorized Officer.
3. The P-line as staked in the field and as shown on Exhibit C, are intended to be used as a control, and should be considered as being in the area of the finished grade.
4. Seed mix and Straw sources: At agency discretion

A) Provided from BLM: based on availability
OR
B) Purchased from approved Commercial source:
5. The application of dust abatement materials such as Lignin or approved petroleum based dust abatement products shall be restricted from application just after wet weather or at stream crossings or other locations that could result in direct delivery to a water body.
6. Water sources/ Pump chances – Water sources shall be approved by the Authorized Officer prior to use. The Purchaser is responsible for all permits and fees from water sources on private or commercial sources.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

ROAD SPECIFICATIONS

Jackson County, Oregon

INDEX

SPECIAL PROVISIONS

| | |
|------|---|
| 100 | GENERAL |
| 500 | ROAD STABILIZATION AND DRAINAGE IMPROVEMENTS OF EXISTING ROADS |
| 600 | WATERING |
| 700 | AGGREGATE BASE COURSE (PIT RUN) |
| 1800 | SOIL STABILIZATION |
| 2600 | POST HARVEST WORK |

GENERAL -- 100

101 - Prewrite Conference(s):

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

The purpose will be to review the required work, exhibits and specifications, and to establish a work schedule and a list of the Purchaser's representatives and subcontractors. A Prewrite conference shall be scheduled at the work site for quarry development.

102 - Definitions:

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

ASTM - American Society for Testing and Materials.

Base Course - Surfacing structure consisting of crushed gravel or stone, crushed sandstone, pit run 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.

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

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

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

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

Road Centerline - Longitudinal center of roadbed.

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

Road Stabilization - 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.

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 pit run 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.

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:

AASHTO T 11 Quantity of rock finer than No. 200 sieve.

AASHTO T 27 Sieve analysis of fine and coarse aggregate using sieves with square openings; gradation.

AASHTO T 89 Liquid limit of material passing the No. 40 sieve.
Water content at which the soil passes from a plastic to a liquid state.

AASHTO T 90 Plastic limits and plasticity index of soil.
a. Plastic limit - lowest water content at which the soil remains plastic.
b. Plasticity index - range of water content, within which the material is in a plastic state. Numerical difference between the liquid and plastic limits of the soil.

- AASHTO T 96 Resistance to abrasion of small size coarse aggregate by use of the Los Angeles machine.
- AASHTO T 99 Relationship between soil moisture and maximum density of soil.
Method A - 4" mold, soil passing a No. 4 Sieve.
25 blows/layer & 3 layers.
Method D - 6" mold, soil passing a 19.00mm 3/4
inches sieve. 56 blows/layer & 5
layers.
- AASHTO T 176 Shows relative portions of fine dust or claylike materials in soil or graded aggregate.
- AASHTO T 180 (OSHD 106-71) moisture density relationship of soil same as AASHTO T 99 proctor but uses a 10-lb rammer & 18-in drop.
- AASHTO T 191 Sand Cone. 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.
- AASHTO T 205 Rubber balloon. Density of soil in place. Use for compacted or firmly bonded soil.
- AASHTO T 210 Durability of aggregates based on resistance to produce fines.
- AASHTO T 224 Correction for coarse particles in the soil.
- AASHTO T 238 Determination of density of soil and soil aggregates in place by nuclear methods.
- AASHTO T 248 Reducing field samples of aggregate to testing size by mechanical splitter, quartering, or miniature stockpile sampling.
- DES. E-12 Determination of relative density of cohesionless soils.
- DMSO (dimethyl sulfide) - 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.

The towing vehicle and roller or self-propelled unit meeting the above requirements shall be considered a vibratory roller unit.

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.

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

ROAD STABILIZATION AND DRAINAGE
IMPROVEMENTS 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, as shown on the plans, and as marked on the ground with stakes or metal tags.

501a - This work shall include the removal and disposal of slides in accordance with these specifications.

502 - The existing road surface shall be bladed and shaped to the lines, grades, dimensions, and typical cross sections shown on the plans at the following locations:

| Road No. | From | To |
|-------------|------|------|
| 36-2E-35.00 | 0.00 | 0.35 |
| 36-3E-31.00 | 0.00 | 1.47 |
| 37-2E-1.00 | 0.00 | 1.24 |
| 37-2E-1.02 | 0.00 | 0.54 |
| 37-2E-1.03 | 0.00 | 0.29 |
| 37-3E-5.01 | 0.00 | 1.03 |
| 37-3E-5.02 | 0.00 | 0.42 |
| 37-3E-5.03 | 0.00 | 0.15 |

| Road No. | From | To |
|------------|------|------|
| 37-3E-6.02 | 0.00 | 0.32 |
| 37-3E-6.08 | 0.00 | 2.69 |

- 502b - Drainage ditches shall be bladed and shaped in accordance with the lines, grades, dimensions, and typical cross sections shown on the plans.
- 506 - The inlet end of all existing drainage structures shall be cleared of vegetative debris and boulders that are of sufficient size to obstruct normal stream flow. Pipe inverts shall be cleared of sediment and other debris lodged in the barrel of the pipe. The outflow area of all pipe structures shall be cleared of rock and vegetative obstructions which will impede the structure's designed outflow configuration.
- 507 - The finished grading shall be approved in writing by the Authorized Officer. The Purchaser shall give the Authorized Officer 5 days 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 roadbed.
- 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 - 700
PIT RUN ROCK MATERIAL

- *701 - This work shall consist of hauling and placing one or more layers of pit run rock material on the approved roadbeds in accordance with these specifications and conforming to the lines, grades, dimensions, and typical cross sections shown on the plans.

- 702 - Pit run rock materials used in this work shall be obtained from the commercial source.
- 705 - Pit run rock material shall be placed in layers of sufficient thickness to accommodate the material, except that the maximum thickness of any layer shall not exceed 10 inches.
- 706 - Oversize material that cannot be accommodated in the layer shall be removed at the source or on the road, and shall be disposed of as directed by the Authorized Officer.
- 707 - When so indicated by the plans, filler or binder obtained from the source shown on the plans shall be uniformly blended with pit run rock material on the road.
- *708 - The roadbed as shaped and compacted under Section 500 of these specifications shall be approved in writing by the Authorized Officer prior to placement of pit run rock material.
- 709 - Pit run rock material shall be placed on roadbed, blade processed and spread to required dimensions.
- 710 - Pit run rock material shall be compacted by routing construction and hauling equipment over the full width of each layer placed.
- 711 - Layers of pit run rock material placed and shaped as specified shall be uniformly moistened or dried to the optimum moisture content for maximum density and compacted to full width by compacting equipment conforming to the requirements of Subsections 103f, 103g, and 103h. Minimum compaction shall be one 1 hour of continuous compacting for each 250 cubic yards, or fraction thereof, of pit run rock material placed per layer.
- 712 - Pit run rock material shall be surface bladed during the compaction operation to remove irregularities and to produce a smooth running surface.
- 713 - Pit run rock material used to repair or reinforce soft, muddy, frozen, yielding, or rutted subgrades shall not be construed as surfacing required under this specification unless approved in writing by the Authorized Officer prior to placement.

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.
- 1802a- Soil stabilization work consisting of seeding and mulching shall be performed on all disturbed portions of roads shown in Section 2601, landings, new road construction, and all disturbed areas in accordance with these specifications and as shown on the plans.

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

From: August 1 to: October 31

- 1804 - The Purchaser shall furnish the following species of grass seed meeting corresponding germination, purity, and weed content requirements:

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

The grass seed furnished shall meet the minimum requirement for Blue Tag Seed as set forth in the latest edition of Oregon Certification Standards published by Oregon State University. Seed source shall be approved by the Authorized Officer and shall be from general region where the project occurs.

The Purchaser shall furnish the Authorized Officer a Seed Test Result from a certified seed testing lab (Oregon State University), which shall include: date of test; lot number of each kind of seed; seed source; and results of tests as to name, percentages of purity and of germination, weed species and percentage of weed content, for each kind of seed furnished and, in case of mixture, the proportions of each kind of seed. The seed must have been tested within the last year to be accepted for use on this contract.

Genetically appropriate native plant species (seed or other native plant materials) shall be selected as a first choice for project work. If native grass/forb seed or (other plant materials) is not available, non-native species to be used shall be approved by the appropriate resources specialist (botanist, native plant coordinator, etc.) and authorized officer prior to application on the ground.

- 1805 - The Purchaser shall mix grass seed specified under Subsection 1804 in the following proportions: Seed Mixture "A":

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

- 1809d - Straw mulch shall be from native grass or other approved grain crops which are certified weed free, and free from noxious weeds, mold, or other objectionable materials. Straw mulch shall be in an air-dry condition and suitable for placing in a uniform manner. Straw mulch shall be applied evenly in treatment areas to a depth of 2 inches (approximately 1000 lbs/ac), or as directed by the Authorized Officer.

- 1810 - 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 it is maintained in a dry state and has the approval of the Authorized Officer.
- 1811 - Bulk mulching material required under these specifications shall be delivered to the work area bound either by twine, string, or hemp rope. Wire binding and plastic twine will not be permitted.
- 1812 - The Purchaser shall furnish and apply to acres designated for treatment as shown on the plans, a mixture of grass seed and mulch material at the following rate of application:
- | | |
|------------|----------------|
| Grass seed | 20 lbs./acre |
| Mulch | 1000 lbs./acre |
- 1816b - Dry Method - Blowers, mechanical seeders, seed drills, landscape seeders, cultipacker seeders, or other approved mechanical seeding equipment may be used when seed is to be applied in dry form.
- 1820 - The Purchaser shall notify the Authorized Officer at least 5 days in advance of the date he intends to commence the specified soil stabilization work.
- 1822 - Mulch that collects at the ends of culverts or accumulates to excessive depths on the slopes shall be evenly spread by hand methods, as directed by the Authorized Officer's Rep.
- 1823 - No material shall be applied when wind velocities would prevent a uniform application of the mix or slurry or when winds would drift the mix or slurry spray outside of the designated treatment area.
- 1826 - 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.

POST HARVEST ROAD WORK - 2600

- 2601 - Construct cross-drains on the following roads after use during same operating season:

| Road # and Name | From | To |
|-----------------|------|-------|
| 36-2E-35.01 | 0+00 | 32+40 |
| 37-3E-6.11 | 0+00 | 15+70 |
| TOTAL STATIONS | | 48+10 |

2601a - Construct log/earth barricades on the following roads after use during same operating season:

| Road # and Name |
|-----------------|
| 36-2E-35.01 |
| 37-3E-5.02 |
| 37-3E-5.05 |
| 37-3E-6.02 |

2602 - Post harvest road work shall consist of the following treatments:

- a. Construct cross-drains at 150' spacing, or as staked or directed by the Authorized Officer's Representative.
- b. Construct log/earth barricades near the beginning of roads to be decommissioned. The final locations will be staked by the Authorized Officer's Rep.

**SPECIFICATION
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| Section 3400 | Other Maintenance | Sheet 5 |

GENERAL - 3000

- 3001 - The Purchaser shall be required to maintain all roads listed and/or referenced in Section 41(C)(4) Special Provisions of this contract in accordance with Sections 3000, 3100, 3200, 3300, and 3400 of this exhibit.
- 3001a - The Purchaser shall be required to provide maintenance on roads in accordance with Subsections 3403 and 3404.
- 3002 - The Purchaser shall maintain the cross section of existing dirt or graveled roads to the existing geometric standards.
- 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 patrol 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 patrol 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 suitable turnout or 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.

3104b - The Purchaser shall be responsible for removal of all slides or slough, up to fifteen (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 removal of any slough or slide material exceeding fifteen (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, 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 work, based on current BLM Timber Appraisal Production Cost Schedules. 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 waterbars using equipment specified in Subsection 3104 and other culvert cleaning and flushing equipment.

3106 - The Purchaser shall be responsible for repair and replacement of all materials eroded from road shoulders and fill slopes, up to fifteen (15) station yards in quantity, at any one site. The work includes unlimited multiple sites on all roads required to be maintained by the Purchaser. Prior to repair and replacement of eroded material exceeding fifteen (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 Timber Sale Appraisal Production Cost Schedules. Adjustments in purchase price for completed work shall be made as necessary, and no less than once per year when actual work is ongoing.

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

The Purchaser shall also cut trees or brush encroaching on the road prism that are a result of his activities or winter damage during the contract period. Disposal of such vegetative material shall be by scattering below the road.

- 3108 - The Purchaser shall avoid fouling gravel or bituminous surfaces through covering with earth and debris from side ditches, slides, or other sources. The Purchaser shall also avoid blading surfacing material off the running surface of the roadway.
- 3108a - The Purchaser shall perform logging operations on gravel bituminous roadways only where the locations have been marked on the ground and/or approved by the Authorized Officer. Repair of the road shall be as specified in Subsection 3401.

SEASONAL MAINTENANCE - 3200

- 3201 - The Purchaser shall perform preventive maintenance at the end of Purchaser's hauling each season and during nonhauling periods which occur between other operations on the contract area. This includes cross ditching, removing ruts or other surface irregularities, and all other requirements specified in Section 3100.
- 3202 - The Purchaser shall perform and complete maintenance, specified in Sections 3000, 3100, and 3200, on all roads maintained by him, prior to October 1 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 road(s) 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 30 calendar days following the completion of hauling and in accordance with Sec. 16(b) of this contract. This work shall include any maintenance and/or damage repairs specified in Sections 3000, 3100, and 3200 necessary to meet the conditions specified in Subsection 3002 and shall be executed in accordance with Subsection 3302 of this section. The Authorized Officer may grant acceptance of Purchaser's maintenance responsibility in part where certain individual roads or road segments are no longer of any use to the Purchaser's remaining removal operations, providing that all contract requirements as specified under Sec. 16(b), Special Provisions (Sections 3000, 3100, 3200, and 3300 of the maintenance specifications) have been completed and a relinquishment of cutting and removal rights on cutting units tributary to these roads is signed by the Purchaser. Request for partial acceptance must be submitted in writing by the Purchaser.
- 3302 - The Purchaser shall perform final road maintenance only when weather or soil moisture conditions are suitable for normal maintenance equipment operations as determined by the Authorized Officer.

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

OTHER MAINTENANCE - 3400

- 3401 - The Purchaser shall repair any damage to road surfaces that was specified under Subsection 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 and 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 waterings 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 following roads shall be watered:

| Road No. | From M.P./STA | To M.P./STA |
|-------------|---------------|-------------|
| 36-2E-35.00 | 0.00 | 0.35 |
| 36-2E-35.01 | 0.00 | 0.61 |
| 36-3E-31.00 | 0.00 | 4.03 |
| 37-2E-1.00 | 0.00 | 1.46 |
| 37-2E-1.02 | 0.00 | 0.54 |
| 37-2E-1.03 | 0.00 | 0.50 |
| 37-3E-5.01 | 0.00 | 1.03 |
| 37-3E-5.02 | 0.00 | 0.42 |
| 37-3E-5.03 | 0.00 | 0.15 |
| 37-3E-5.05 | 0.00 | 0.11 |
| 37-3E-6.02 | 0.00 | 0.32 |
| 37-3E-6.06 | 0.00 | 0.93 |
| 37-3E-6.08 | 0.00 | 2.81 |
| 37-3E-6.11 | 0.00 | 0.35 |

During drought periods when the transportation of water from the source to the roads noted above exceeds 10 miles, a reduction shall be made in the total purchase price to reflect the additional haul or the substitution of other acceptable dust

palliatives in lieu of watering, based on equipment rental rates from current BLM Timber Appraisal Production Cost Schedules.

- 3403a - During dry hauling conditions when the authorized officer determines watering is not required, the Purchaser shall reduce hauling speeds to 5 MPH and/or restrict the number of loads hauled to 2 per day on the following road:

| Road No. | From M.P./STA | To M.P./STA |
|-------------|---------------|-------------|
| 36-2E-35.00 | 0.00 | 0.35 |
| 36-2E-35.01 | 0.00 | 0.61 |
| 36-3E-31.00 | 0.00 | 4.03 |
| 37-2E-1.00 | 0.00 | 1.24 |
| 37-2E-1.02 | 0.00 | 0.54 |
| 37-2E-1.03 | 0.00 | 0.50 |
| 37-3E-5.01 | 0.00 | 1.03 |
| 37-3E-5.02 | 0.00 | 0.42 |
| 37-3E-5.03 | 0.00 | 0.28 |
| 37-3E-5.05 | 0.00 | 0.11 |
| 37-3E-6.02 | 0.00 | 0.32 |
| 37-3E-6.06 | 0.00 | 0.93 |
| 37-3E-6.08 | 0.00 | 2.69 |
| 37-3E-6.11 | 0.00 | 0.30 |

Adjustments to the above schedules may be made by the Authorized Officer at his option as hauling conditions improve. The Purchaser, at his option and expense, may elect to substitute watering or other dust palliatives in lieu of the above hauling requirements provided that written approval is received from the Authorized Officer. Such authorization shall include the approval of product specifications for the application and the product to be used.

- 3404 - The Purchaser may at his option and expense, substitute lignin sulfonate, magnesium chloride, or bituminous dust palliatives for water on any or all road segments listed in Subsection 3403 or 3403a provided that written approval is received from the Authorized Officer. Such authorization shall include approval of product specifications for the application of the product to be used. Multiple applications may be required to maintain the conditions specified in Subsection 3403.

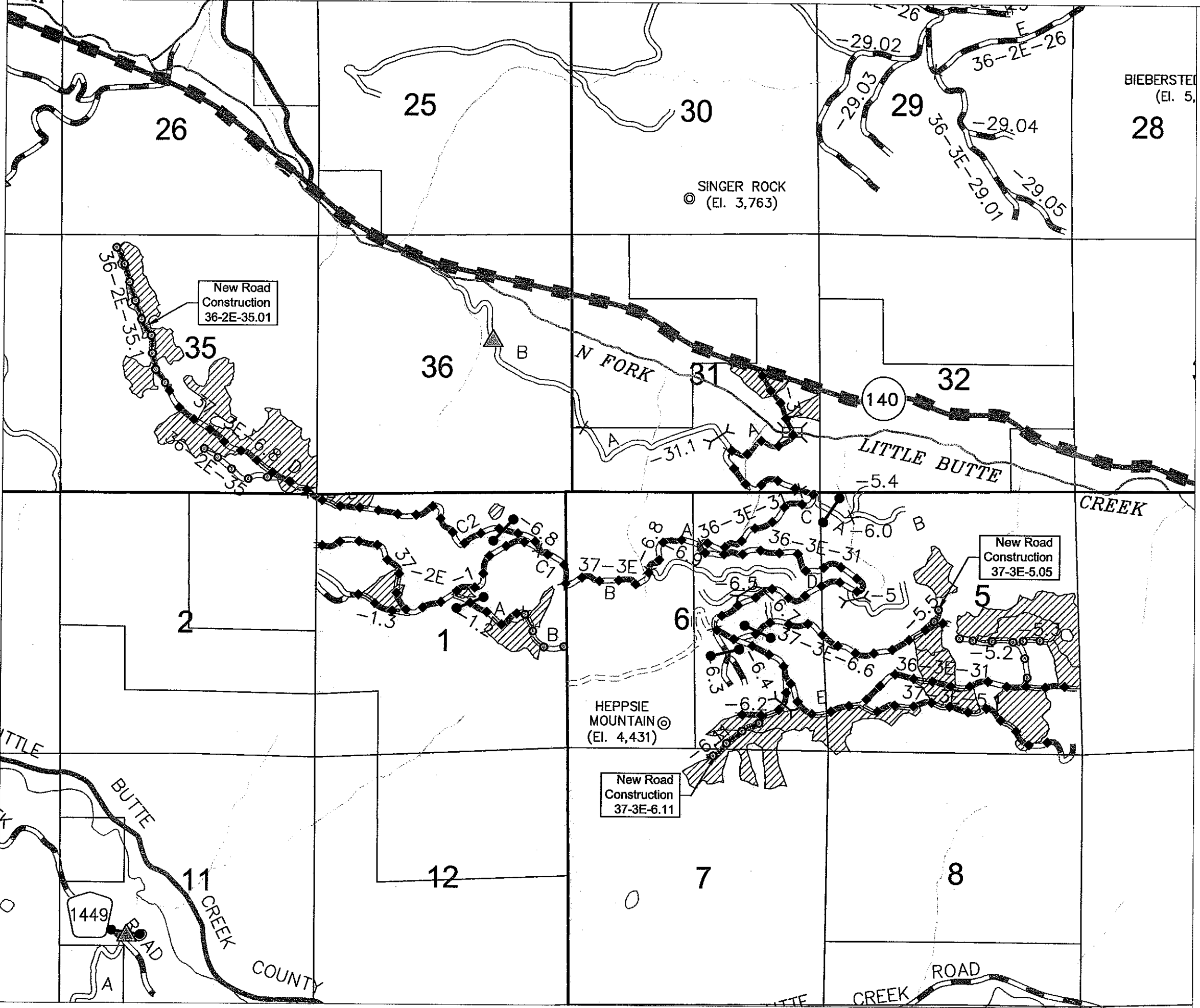
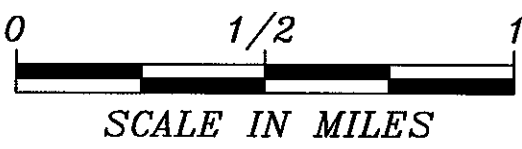
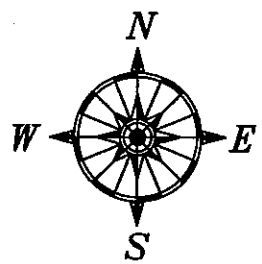
HEPPSIE TIMBER SALE
ROAD LOCATION MAP
EXHIBIT D-2; PAGE 1 OF 1

U.S.D.I. BLM MEDFORD DISTRICT

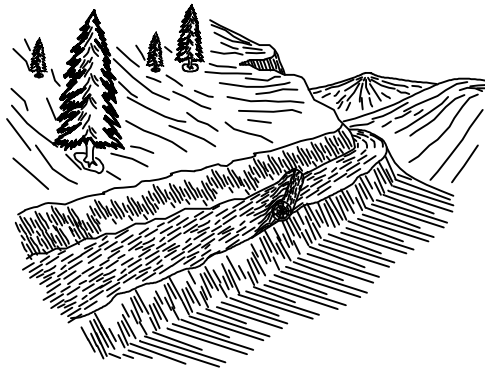
T.36S., R.2E. WILL. MER.
T.36S., R.3E. WILL. MER.
T.37S., R.2E. WILL. MER.
T.37S., R.3E. WILL. MER.

- EXISTING GATE
- EXISTING BARRICADE
- PUMP CHANCE

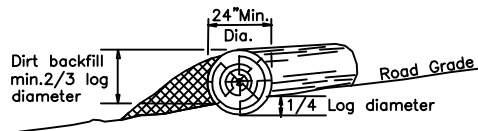
- ROAD PROJECTS
- EXISTING ROAD
 - EXISTING PAVED ROAD
 - EXISTING PRIMITIVE ROAD
 - OPERATOR MAINTENANCE
 - BLM MAINTENANCE
- BLM LAND
 - TS UNITS



R.2E. | R.3E.

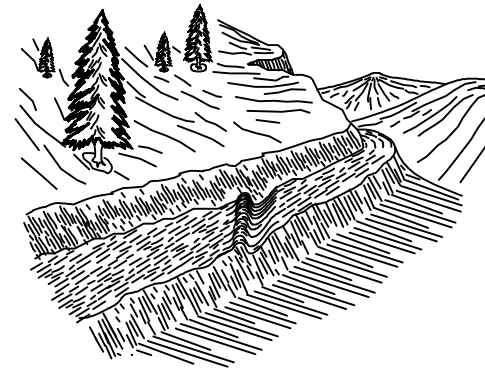
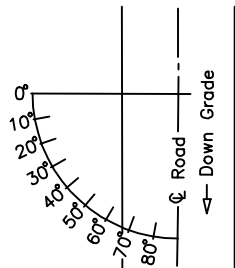


LOG BARRICADE

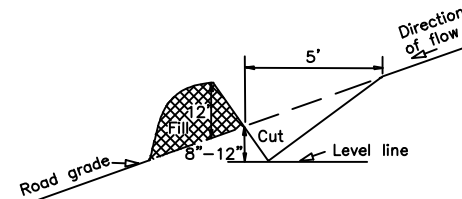


1. LOG BARRICADE SHALL BE CONSTRUCTED AS SHOWN ABOVE.
2. EXACT LOCATION WILL BE FLAGGED BY THE AUTHORIZED OFFICER PRIOR TO CONSTRUCTION.
3. ALL BARRICADES SHALL BE SKEWED 30 DEGREES
4. THE LENGTH SHALL BE SUFFICIENT TO EXTEND FROM THE CUT BANK TO THE FILL SLOPE.
5. THE MINIMUM SMALL END DIAMETER OF THE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

SKEW 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 BLOCKING, EACH ROAD WILL HAVE CROSS DRAINAGE CONSTRUCTED AS SHOWN ABOVE.

WATER 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.

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
HEPPSIE
ORM06-TS-13-01

Legal Description

| Forest Type | Township | Range | Section | Subdivision |
|-------------|----------|-------|---------|---|
| O&C | 36S | 3E | 31 | N1/2 SE1/4. |
| O&C | 36S | 2E | 35 | Lot 3, Lot 4, SW1/4 NE1/4, S1/2 NW1/4, N1/2 SW1/4, SE1/4SW1/4, SE1/4. |
| O&C | 37S | 2E | 1 | Lot 2, Lot 4, S1/2 NE1/4,S1/2 NW1/4, N1/2 SE1/4. |
| O&C | 37S | 3E | 5 | Lot 3, S1/2 NE1/4, SE1/4 NW1/4, SW1/4 SW1/4, E1/2 SW1/4, SE1/4. |
| O&C | 37S | 3E | 6 | S1/2 SE1/4. |
| O&C | 37S | 3E | 7 | Lot 1, N1/2 NE1/4. |
| O&C | 37S | 3E | 8 | NW1/4 NW1/4. |

Cutting Volume (16' MBF)

| Unit | DF | WF | PP | IC | | | | | Total | Regen | Partial | ROW |
|--------|-------|-----|----|----|--|--|--|--|-------|-------|---------|-----|
| 1-1 | 110 | 1 | 0 | 3 | | | | | 114 | 0 | 5 | 0 |
| 1-3 | 22 | | | | | | | | 22 | 0 | 2 | 0 |
| 1-6 | 64 | 1 | 0 | 0 | | | | | 65 | 0 | 4 | 0 |
| 1-7 | 102 | 3 | 0 | 0 | | | | | 105 | 0 | 10 | 0 |
| 1-8 | 19 | 1 | 0 | | | | | | 20 | 0 | 1 | 0 |
| 1-9 | 227 | 4 | 2 | | | | | | 233 | 0 | 12 | 0 |
| 31-1 | 24 | | 1 | 2 | | | | | 27 | 0 | 10 | 0 |
| 31-2 | 24 | 5 | | 0 | | | | | 29 | 0 | 5 | 0 |
| 35-3 | 480 | 0 | 8 | 1 | | | | | 489 | 0 | 33 | 0 |
| 35-4 | 787 | 0 | 7 | 4 | | | | | 798 | 0 | 75 | 0 |
| 5-11 | 84 | 20 | | 1 | | | | | 105 | 0 | 8 | 0 |
| 5-13 | 31 | 8 | | | | | | | 39 | 0 | 6 | 0 |
| 5-14 | 91 | 4 | 6 | 2 | | | | | 103 | 0 | 12 | 0 |
| 5-15 | 298 | 11 | | | | | | | 309 | 0 | 32 | 0 |
| 5-16 | 168 | 12 | 0 | | | | | | 180 | 0 | 11 | 0 |
| 5-7 | 87 | 0 | | | | | | | 87 | 0 | 15 | 0 |
| 5-8 | 139 | 15 | 2 | 1 | | | | | 157 | 0 | 11 | 0 |
| 5-9 | 221 | 6 | 2 | 18 | | | | | 247 | 0 | 24 | 0 |
| 6-1 | 158 | 15 | 3 | 1 | | | | | 177 | 0 | 36 | 0 |
| 7-1 | 213 | 9 | 33 | 27 | | | | | 282 | 0 | 30 | 0 |
| ROW35 | 55 | | 10 | 1 | | | | | 66 | 0 | 0 | 3 |
| ROW5B | 14 | 2 | | 0 | | | | | 16 | 0 | 0 | 1 |
| ROW6 | 18 | 1 | 3 | 1 | | | | | 23 | 0 | 0 | 2 |
| Totals | 3,436 | 118 | 77 | 62 | | | | | 3,693 | 0 | 342 | 6 |

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

Medford
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Logging Costs per 16' MBF

| | | |
|-------------------|----|--------|
| Stump to Truck | \$ | 138.76 |
| Transportation | \$ | 70.17 |
| Road Construction | \$ | 10.42 |
| Road Amortization | \$ | 0.00 |
| Road Maintenance | \$ | 5.95 |

Other Allowances :

| | |
|---------------------------------|-----------------|
| Fuels Treatment | \$ 46.20 |
| Misc | \$ 1.30 |
| Other Costs | \$ 2.60 |
| Total Other Allowances : | \$ 50.09 |

Total Logging Costs per 16' MBF

\$ 275.39

Utilization Centers

Center #1 : Obrien, Or 64 Miles
Center #1 : White City 25 Miles
Weighted distance to Utilization Centers 57

Length of Contract

Cutting and Removal Time 36 Months
Personal Property Removal Time 6 Months

Profit & Risk

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

Tract Features

Avg Log Douglas-fir : 73 bf All : 72 bf
Recovery Douglas-fir : 86 % All : 86 %
Salvage Douglas-fir : 5 % All : 5 %
Avg Volume (16' MBF per Acre) 11
Avg Yarding Slope 25 %
Avg Yarding Distance (feet) 325
Avg Age 86
Volume Cable 23 %
Volume Ground 77 %
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 Aaron Worman
Date 06/01/2012
Type of Cruise 3-P
County, State Jackson, OR

Net Volume

Green (16' MBF) 3,512
Salvage (16' MBF) 181
Douglas-fir Peeler 74
Export Volume 0
Scaling Allowance (\$0.75 per 16' MBF) \$2,769.75

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Medford
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ORM06-TS-13-01

Stumpage Summary

Stumpage Computation (16' MBF)

| Species | Trees | Net Volume | Pond Value | (-) Profit & Risk | (-) Logging Cost | (+) Marginal Log Value | (-) Back Off | Appraised Price | Appraised Value |
|---------------|---------------|--------------|------------|-------------------|------------------|------------------------|--------------|-----------------|----------------------|
| DF | 13,313 | 3,436 | \$ 410.05 | \$ 45.11 | \$ 275.39 | \$ 3.46 | | \$ 93.00 | \$ 319,548.00 |
| WF | 649 | 118 | \$ 339.36 | \$ 37.33 | \$ 275.39 | | | \$ 33.90 | \$ 4,000.20 |
| PP | 374 | 77 | \$ 313.16 | \$ 34.45 | \$ 275.39 | | | \$ 31.30 | \$ 2,410.10 |
| IC | 896 | 62 | \$ 367.98 | \$ 40.48 | \$ 275.39 | | | \$ 52.10 | \$ 3,230.20 |
| Totals | 15,232 | 3,693 | | | | | | | \$ 329,188.50 |

Log Code by Percent

| Species | Code #1 | Code #2 | Code #3 | Code #4 | Code #5 | Code #6 |
|----------------|---------|---------|---------|---------|---------|---------|
| Douglas-fir | | | 2.0 | 59.0 | 35.0 | 4.0 |
| White Fir | | | | 53.0 | 38.0 | 9.0 |
| Ponderosa Pine | | | 4.0 | 65.0 | 26.0 | 5.0 |
| Incense-cedar | | | | 15.0 | 53.0 | 32.0 |

Marginal Log Volume

| Species | Grade #7 | Grade #8 |
|----------------|----------|----------|
| Douglas-fir | 39 | 80 |
| White Fir | | |
| Ponderosa Pine | | |
| Incense-cedar | | |

| | |
|---|--------------------------|
| Appraised By : Worman, Aaron | Date : 10/30/2012 |
| Area Approval By : Worman, Aaron | Date : 10/30/2012 |
| District Approval By : | Date : |

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

Medford
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ORM06-TS-13-01

Prospectus

Appraisal Method : (16' MBF)

| Species | Trees | Net Volume 16' MBF | Net Volume 32' MBF | Net Volume CCF |
|----------------|---------------|-----------------------|-----------------------|-------------------|
| Douglas-fir | 13,313 | 3,436 | 2,737 | 5,960 |
| White Fir | 649 | 118 | 88 | 207 |
| Ponderosa Pine | 374 | 77 | 61 | 131 |
| Incense-cedar | 896 | 62 | 45 | 129 |
| Total | 15,232 | 3,693 | 2,931 | 6,427 |

All Species

| Gross Volume | Number Trees | Avg bf Volume Per Tree | DBH | Gross Merch Volume | Merch Logs | Avg bf Gross Merch Log |
|--------------|--------------|------------------------|------|--------------------|------------|------------------------|
| 4,273 | 15,232 | 280 | 16.0 | 4,147 | 57,287 | 72 |

| Merch Logs | Cull Logs | Total Logs | Logs per Tree | Net Volume | Gross Volume | Recovery |
|------------|-----------|------------|---------------|------------|--------------|----------|
| 57,287 | 4,415 | 61,702 | 4.1 | 3,693 | 4,273 | 86 % |

Douglas-fir

| Gross Volume | Number Trees | Avg bf Volume Per Tree | DBH | Gross Merch Volume | Merch Logs | Avg bf Gross Merch Log |
|--------------|--------------|------------------------|------|--------------------|------------|------------------------|
| 3,984 | 13,313 | 299 | 16.2 | 3,865 | 52,784 | 73 |

| Merch Logs | Cull Logs | Total Logs | Logs per Tree | Net Volume | Gross Volume | Recovery |
|------------|-----------|------------|---------------|------------|--------------|----------|
| 52,784 | 4,203 | 56,987 | 4.3 | 3,436 | 3,984 | 86 % |

UNITED STATES
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Cutting Areas

| Unit | Regen Acres | Partial Cut Acres | Right Of Way Acres | Total Acres |
|----------|----------------|----------------------|-----------------------|----------------|
| 1-1 | | 5 | | 5 |
| 1-3 | | 2 | | 2 |
| 1-6 | | 4 | | 4 |
| 1-7 | | 10 | | 10 |
| 1-8 | | 1 | | 1 |
| 1-9 | | 12 | | 12 |
| 31-1 | | 10 | | 10 |
| 31-2 | | 5 | | 5 |
| 35-3 | | 33 | | 33 |
| 35-4 | | 75 | | 75 |
| 5-11 | | 8 | | 8 |
| 5-13 | | 6 | | 6 |
| 5-14 | | 12 | | 12 |
| 5-15 | | 32 | | 32 |
| 5-16 | | 11 | | 11 |
| 5-7 | | 15 | | 15 |
| 5-8 | | 11 | | 11 |
| 5-9 | | 24 | | 24 |
| 6-1 | | 36 | | 36 |
| 7-1 | | 30 | | 30 |
| ROW35 | | | 3 | 3 |
| ROW5B | | | 1 | 1 |
| ROW6 | | | 2 | 2 |
| Totals : | | 342 | 6 | 348 |

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

Medford
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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 |
|--------------------|--------------|-----------|---------------|
| Douglas-fir | 3,436 | | |
| White Fir | 118 | | |
| Ponderosa Pine | 77 | | |
| Incense-cedar | 62 | | |
| Sale Totals | 3,693 | | |

Unit Details (16' MB)

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

| Species | Net Volume | Bid Price | Species Value |
|--------------------|------------|-----------|---------------|
| Douglas-fir | 110 | | |
| Incense-cedar | 3 | | |
| Ponderosa Pine | | | |
| White Fir | 1 | | |
| Unit Totals | 114 | | |

Unit 1-3 2 Acres Value per Acre : \$0.00

| Species | Net Volume | Bid Price | Species Value |
|--------------------|------------|-----------|---------------|
| Douglas-fir | 22 | | |
| Unit Totals | 22 | | |

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Unit 1-6 4 Acres Value per Acre : \$0.00

| Species | Net Volume | Bid Price | Species Value |
|--------------------|------------|-----------|---------------|
| Douglas-fir | 64 | | |
| Incense-cedar | | | |
| Ponderosa Pine | | | |
| White Fir | 1 | | |
| Unit Totals | 65 | | |

Unit 1-7 10 Acres Value per Acre : \$0.00

| Species | Net Volume | Bid Price | Species Value |
|--------------------|------------|-----------|---------------|
| Douglas-fir | 102 | | |
| Incense-cedar | | | |
| Ponderosa Pine | | | |
| White Fir | 3 | | |
| Unit Totals | 105 | | |

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

| Species | Net Volume | Bid Price | Species Value |
|--------------------|------------|-----------|---------------|
| Douglas-fir | 19 | | |
| Ponderosa Pine | | | |
| White Fir | 1 | | |
| Unit Totals | 20 | | |

Unit 1-9 12 Acres Value per Acre : \$0.00

| Species | Net Volume | Bid Price | Species Value |
|--------------------|------------|-----------|---------------|
| Douglas-fir | 227 | | |
| Ponderosa Pine | 2 | | |
| White Fir | 4 | | |
| Unit Totals | 233 | | |

Unit 31-1 10 Acres Value per Acre : \$0.00

| Species | Net Volume | Bid Price | Species Value |
|--------------------|------------|-----------|---------------|
| Douglas-fir | 24 | | |
| Incense-cedar | 2 | | |
| Ponderosa Pine | 1 | | |
| Unit Totals | 27 | | |

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HEPPSIE
ORM06-TS-13-01

| Species | Net Volume | Bid Price | Species Value |
|--------------------|---------------|--------------|------------------|
| Douglas-fir | 24 | | |
| Incense-cedar | | | |
| White Fir | 5 | | |
| Unit Totals | 29 | | |

| Species | Net Volume | Bid Price | Species Value |
|--------------------|------------|-----------|---------------|
| Douglas-fir | 480 | | |
| Incense-cedar | 1 | | |
| Ponderosa Pine | 8 | | |
| White Fir | | | |
| Unit Totals | 489 | | |

| Species | Net Volume | Bid Price | Species Value |
|--------------------|------------|-----------|---------------|
| Douglas-fir | 787 | | |
| Incense-cedar | 4 | | |
| Ponderosa Pine | 7 | | |
| White Fir | | | |
| Unit Totals | 798 | | |

| Species | Net Volume | Bid Price | Species Value |
|--------------------|---------------|--------------|------------------|
| Douglas-fir | 84 | | |
| Incense-cedar | 1 | | |
| White Fir | 20 | | |
| Unit Totals | 105 | | |

| Species | Net Volume | Bid Price | Species Value |
|--------------------|------------|-----------|---------------|
| Douglas-fir | 31 | | |
| White Fir | 8 | | |
| Unit Totals | 39 | | |

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Unit 5-14 12 Acres Value per Acre : \$0.00

| Species | Net Volume | Bid Price | Species Value |
|--------------------|------------|-----------|---------------|
| Douglas-fir | 91 | | |
| Incense-cedar | 2 | | |
| Ponderosa Pine | 6 | | |
| White Fir | 4 | | |
| Unit Totals | 103 | | |

Unit 5-15 32 Acres Value per Acre : \$0.00

| Species | Net Volume | Bid Price | Species Value |
|--------------------|------------|-----------|---------------|
| Douglas-fir | 298 | | |
| White Fir | 11 | | |
| Unit Totals | 309 | | |

Unit 5-16 11 Acres Value per Acre : \$0.00

| Species | Net Volume | Bid Price | Species Value |
|--------------------|------------|-----------|---------------|
| Douglas-fir | 168 | | |
| Ponderosa Pine | | | |
| White Fir | 12 | | |
| Unit Totals | 180 | | |

Unit 5-7 15 Acres Value per Acre : \$0.00

| Species | Net Volume | Bid Price | Species Value |
|--------------------|------------|-----------|---------------|
| Douglas-fir | 87 | | |
| White Fir | | | |
| Unit Totals | 87 | | |

Unit 5-8 11 Acres Value per Acre : \$0.00

| Species | Net Volume | Bid Price | Species Value |
|--------------------|------------|-----------|---------------|
| Douglas-fir | 139 | | |
| Incense-cedar | 1 | | |
| Ponderosa Pine | 2 | | |
| White Fir | 15 | | |
| Unit Totals | 157 | | |

Medford
HEPPSIE
ORM06-TS-13-01

| Species | Net Volume | Bid Price | Species Value |
|--------------------|------------|-----------|---------------|
| Douglas-fir | 221 | | |
| Incense-cedar | 18 | | |
| Ponderosa Pine | 2 | | |
| White Fir | 6 | | |
| Unit Totals | 247 | | |

| Species | Net Volume | Bid Price | Species Value |
|--------------------|------------|-----------|---------------|
| Douglas-fir | 158 | | |
| Incense-cedar | 1 | | |
| Ponderosa Pine | 3 | | |
| White Fir | 15 | | |
| Unit Totals | 177 | | |

| Species | Net Volume | Bid Price | Species Value |
|--------------------|------------|-----------|---------------|
| Douglas-fir | 213 | | |
| Incense-cedar | 27 | | |
| Ponderosa Pine | 33 | | |
| White Fir | 9 | | |
| Unit Totals | 282 | | |

| Species | Net Volume | Bid Price | Species Value |
|--------------------|---------------|--------------|------------------|
| Douglas-fir | 55 | | |
| Incense-cedar | 1 | | |
| Ponderosa Pine | 10 | | |
| Unit Totals | 66 | | |

| Species | Net Volume | Bid Price | Species Value |
|--------------------|---------------|--------------|------------------|
| Douglas-fir | 14 | | |
| Incense-cedar | | | |
| White Fir | 2 | | |
| Unit Totals | 16 | | |

**UNITED STATES
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Unit ROW6 2 Acres Value per Acre : \$0.00

| Species | Net Volume | Bid Price | Species Value |
|----------------|---------------|--------------|------------------|
| Douglas-fir | 18 | | |
| Incense-cedar | 1 | | |
| Ponderosa Pine | 3 | | |
| White Fir | 1 | | |
| Unit Totals | 23 | | |

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

Medford
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Sale Volume Totals

348 Acres 0 Regen 342 Partial 6 R/W 23 Units

| SpeciesName | # of Trees | Merch Logs | Cull Logs | 16' MBF Net | 16' MBF GM | 16' MBF Gross | 32' MBF Net | 32' MBF GM | 32' MBF Gross | CCF Net | CCF GM | CCF Gross |
|----------------|---------------|---------------|--------------|--------------|--------------|---------------|--------------|--------------|---------------|--------------|--------------|--------------|
| Douglas-fir | 13,313 | 52,784 | 4,203 | 3,436 | 3,865 | 3,984 | 2,737 | 3,081 | 3,177 | 5,960 | 6,686 | 6,937 |
| White Fir | 649 | 1,780 | 91 | 118 | 129 | 133 | 88 | 96 | 100 | 207 | 226 | 233 |
| Ponderosa Pine | 374 | 1,095 | 95 | 77 | 86 | 89 | 61 | 67 | 70 | 131 | 147 | 153 |
| Incense-cedar | 896 | 1,628 | 26 | 62 | 67 | 67 | 45 | 49 | 49 | 129 | 140 | 142 |
| Totals | 15,232 | 57,287 | 4,415 | 3,693 | 4,147 | 4,273 | 2,931 | 3,293 | 3,396 | 6,427 | 7,199 | 7,465 |

Unit Totals

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

| SpeciesName | # of Trees | Merch Logs | Cull Logs | 16' MBF Gross | 16' MBF GM | 16' MBF Net |
|--------------------|------------|--------------|------------|---------------|------------|-------------|
| Douglas-fir | 440 | 1,663 | 171 | 131 | 126 | 110 |
| Incense-cedar | 26 | 77 | 1 | 3 | 3 | 3 |
| White Fir | 4 | 11 | 1 | 1 | 1 | 1 |
| Ponderosa Pine | 1 | 3 | | | | |
| Unit Totals | 471 | 1,754 | 173 | 135 | 130 | 114 |

Unit : 1-3 2 Acres 0 Regen 2 Partial 0 R/W

| SpeciesName | # of Trees | Merch Logs | Cull Logs | 16' MBF Gross | 16' MBF GM | 16' MBF Net |
|--------------------|------------|------------|-----------|---------------|------------|-------------|
| Douglas-fir | 77 | 323 | 52 | 29 | 27 | 22 |
| Unit Totals | 77 | 323 | 52 | 29 | 27 | 22 |

Unit : 1-6 4 Acres 0 Regen 4 Partial 0 R/W

| SpeciesName | # of Trees | Merch Logs | Cull Logs | 16' MBF Gross | 16' MBF GM | 16' MBF Net |
|--------------------|------------|--------------|-----------|---------------|------------|-------------|
| Douglas-fir | 256 | 980 | 83 | 75 | 72 | 64 |
| Ponderosa Pine | 2 | 6 | 1 | 1 | 1 | |
| White Fir | 8 | 14 | 1 | 1 | 1 | 1 |
| Incense-cedar | 1 | 1 | | | | |
| Unit Totals | 267 | 1,001 | 85 | 77 | 74 | 65 |

Unit : 1-7 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 | 464 | 1,590 | 106 | 117 | 114 | 102 |

**UNITED STATES
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| | | | | | | |
|--------------------|------------|--------------|------------|------------|------------|------------|
| White Fir | 25 | 53 | 3 | 4 | 4 | 3 |
| Ponderosa Pine | 5 | 6 | 1 | 1 | 1 | |
| Incense-cedar | 5 | 6 | | | | |
| Unit Totals | 499 | 1,655 | 110 | 122 | 119 | 105 |

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

| SpeciesName | # of Trees | Merch Logs | Cull Logs | 16' MBF Gross | 16' MBF GM | 16' MBF Net |
|--------------------|-------------------|-------------------|------------------|----------------------|-------------------|--------------------|
| Douglas-fir | 53 | 266 | 60 | 26 | 24 | 19 |
| White Fir | 4 | 8 | | 1 | 1 | 1 |
| Ponderosa Pine | 1 | 2 | | | | |
| Unit Totals | 58 | 276 | 60 | 27 | 25 | 20 |

Unit : 1-9 12 Acres 0 Regen 12 Partial 0 R/W

| SpeciesName | # of Trees | Merch Logs | Cull Logs | 16' MBF Gross | 16' MBF GM | 16' MBF Net |
|--------------------|-------------------|-------------------|------------------|----------------------|-------------------|--------------------|
| Douglas-fir | 708 | 3,458 | 314 | 267 | 258 | 227 |
| White Fir | 20 | 54 | 3 | 4 | 4 | 4 |
| Ponderosa Pine | 5 | 21 | 2 | 2 | 2 | 2 |
| Unit Totals | 733 | 3,533 | 319 | 273 | 264 | 233 |

Unit : 31-1 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 | 149 | 362 | 35 | 28 | 27 | 24 |
| Incense-cedar | 37 | 62 | 1 | 3 | 3 | 2 |
| Ponderosa Pine | 5 | 12 | 1 | 1 | 1 | 1 |
| Unit Totals | 191 | 436 | 37 | 32 | 31 | 27 |

Unit : 31-2 5 Acres 0 Regen 5 Partial 0 R/W

| SpeciesName | # of Trees | Merch Logs | Cull Logs | 16' MBF Gross | 16' MBF GM | 16' MBF Net |
|--------------------|-------------------|-------------------|------------------|----------------------|-------------------|--------------------|
| Douglas-fir | 127 | 376 | 28 | 28 | 27 | 24 |
| White Fir | 31 | 81 | 4 | 6 | 6 | 5 |
| Incense-cedar | 9 | 12 | | 1 | 1 | |
| Unit Totals | 167 | 469 | 32 | 35 | 34 | 29 |

Unit : 35-3 33 Acres 0 Regen 33 Partial 0 R/W

| SpeciesName | # of Trees | Merch Logs | Cull Logs | 16' MBF Gross | 16' MBF GM | 16' MBF Net |
|--------------------|-------------------|-------------------|------------------|----------------------|-------------------|--------------------|
| Douglas-fir | 2,374 | 7,419 | 597 | 562 | 546 | 480 |
| Ponderosa Pine | 47 | 114 | 10 | 10 | 9 | 8 |
| Incense-cedar | 11 | 15 | | 1 | 1 | 1 |

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| | | | | | | |
|--------------------|--------------|--------------|------------|------------|------------|------------|
| White Fir | 2 | 5 | | | | |
| Unit Totals | 2,434 | 7,553 | 607 | 573 | 556 | 489 |

Unit : 35-4 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 |
|--------------------|-----------------------|-----------------------|----------------------|--------------------------|-----------------------|------------------------|
| Douglas-fir | 3,828 | 12,013 | 933 | 902 | 877 | 787 |
| Ponderosa Pine | 47 | 105 | 9 | 8 | 8 | 7 |
| Incense-cedar | 59 | 118 | 2 | 5 | 5 | 4 |
| White Fir | 1 | 2 | | | | |
| Unit Totals | 3,935 | 12,238 | 944 | 915 | 890 | 798 |

Unit : 5-11 8 Acres 0 Regen 8 Partial 0 R/W

| SpeciesName | # of Trees | Merch Logs | Cull Logs | 16' MBF Gross | 16' MBF GM | 16' MBF Net |
|--------------------|-----------------------|-----------------------|----------------------|--------------------------|-----------------------|------------------------|
| Douglas-fir | 228 | 1,291 | 99 | 97 | 94 | 84 |
| White Fir | 95 | 294 | 15 | 22 | 21 | 20 |
| Incense-cedar | 20 | 34 | 1 | 1 | 1 | 1 |
| Unit Totals | 343 | 1,619 | 115 | 120 | 116 | 105 |

Unit : 5-13 6 Acres 0 Regen 6 Partial 0 R/W

| SpeciesName | # of Trees | Merch Logs | Cull Logs | 16' MBF Gross | 16' MBF GM | 16' MBF Net |
|--------------------|-----------------------|-----------------------|----------------------|--------------------------|-----------------------|------------------------|
| Douglas-fir | 44 | 465 | 59 | 38 | 37 | 31 |
| White Fir | 31 | 121 | 6 | 9 | 9 | 8 |
| Unit Totals | 75 | 586 | 65 | 47 | 46 | 39 |

Unit : 5-14 12 Acres 0 Regen 12 Partial 0 R/W

| SpeciesName | # of Trees | Merch Logs | Cull Logs | 16' MBF Gross | 16' MBF GM | 16' MBF Net |
|--------------------|-----------------------|-----------------------|----------------------|--------------------------|-----------------------|------------------------|
| Douglas-fir | 272 | 1,403 | 105 | 105 | 102 | 91 |
| Ponderosa Pine | 30 | 89 | 8 | 7 | 7 | 6 |
| White Fir | 22 | 66 | 3 | 5 | 5 | 4 |
| Incense-cedar | 27 | 58 | 1 | 2 | 2 | 2 |
| Unit Totals | 351 | 1,616 | 117 | 119 | 116 | 103 |

Unit : 5-15 32 Acres 0 Regen 32 Partial 0 R/W

| SpeciesName | # of Trees | Merch Logs | Cull Logs | 16' MBF Gross | 16' MBF GM | 16' MBF Net |
|--------------------|-----------------------|-----------------------|----------------------|--------------------------|-----------------------|------------------------|
| Douglas-fir | 790 | 4,616 | 320 | 341 | 332 | 298 |
| White Fir | 52 | 161 | 8 | 12 | 12 | 11 |
| Unit Totals | 842 | 4,777 | 328 | 353 | 344 | 309 |

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Unit : 5-16 11 Acres 0 Regen 11 Partial 0 R/W

| SpeciesName | # of Trees | Merch Logs | Cull Logs | 16' MBF Gross | 16' MBF GM | 16' MBF Net |
|--------------------|---------------|---------------|--------------|------------------|---------------|----------------|
| Douglas-fir | 597 | 2,554 | 231 | 197 | 190 | 168 |
| White Fir | 81 | 185 | 9 | 14 | 13 | 12 |
| Ponderosa Pine | 2 | 5 | | | | |
| Unit Totals | 680 | 2,744 | 240 | 211 | 203 | 180 |

Unit : 5-7 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 |
|--------------------|---------------|---------------|--------------|------------------|---------------|----------------|
| Douglas-fir | 129 | 1,347 | 104 | 101 | 98 | 87 |
| White Fir | 3 | 7 | | 1 | | |
| Unit Totals | 132 | 1,354 | 104 | 102 | 98 | 87 |

Unit : 5-8 11 Acres 0 Regen 11 Partial 0 R/W

| SpeciesName | # of Trees | Merch Logs | Cull Logs | 16' MBF Gross | 16' MBF GM | 16' MBF Net |
|--------------------|---------------|---------------|--------------|------------------|---------------|----------------|
| Douglas-fir | 349 | 2,154 | 144 | 158 | 154 | 139 |
| White Fir | 91 | 229 | 12 | 17 | 17 | 15 |
| Ponderosa Pine | 9 | 32 | 3 | 3 | 3 | 2 |
| Incense-cedar | 15 | 22 | | 1 | 1 | 1 |
| Unit Totals | 464 | 2,437 | 159 | 179 | 175 | 157 |

Unit : 5-9 24 Acres 0 Regen 24 Partial 0 R/W

| SpeciesName | # of Trees | Merch Logs | Cull Logs | 16' MBF Gross | 16' MBF GM | 16' MBF Net |
|--------------------|---------------|---------------|--------------|------------------|---------------|----------------|
| Douglas-fir | 669 | 3,433 | 225 | 252 | 246 | 221 |
| Incense-cedar | 288 | 464 | 8 | 19 | 19 | 18 |
| White Fir | 36 | 94 | 5 | 7 | 7 | 6 |
| Ponderosa Pine | 18 | 28 | 2 | 2 | 2 | 2 |
| Unit Totals | 1,011 | 4,019 | 240 | 280 | 274 | 247 |

Unit : 6-1 36 Acres 0 Regen 36 Partial 0 R/W

| SpeciesName | # of Trees | Merch Logs | Cull Logs | 16' MBF Gross | 16' MBF GM | 16' MBF Net |
|--------------------|---------------|---------------|--------------|------------------|---------------|----------------|
| Douglas-fir | 611 | 2,427 | 191 | 183 | 177 | 158 |
| White Fir | 92 | 229 | 12 | 16 | 16 | 15 |
| Ponderosa Pine | 21 | 54 | 5 | 4 | 3 | 3 |
| Incense-cedar | 7 | 15 | | 2 | 1 | 1 |
| Unit Totals | 731 | 2,725 | 208 | 205 | 197 | 177 |

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Unit : 7-1 30 Acres 0 Regen 30 Partial 0 R/W

| SpeciesName | # of Trees | Merch Logs | Cull Logs | 16' MBF Gross | 16' MBF GM | 16' MBF Net |
|--------------------|-----------------------|-----------------------|----------------------|--------------------------|-----------------------|------------------------|
| Douglas-fir | 788 | 3,312 | 222 | 244 | 238 | 213 |
| Ponderosa Pine | 139 | 431 | 37 | 35 | 34 | 33 |
| Incense-cedar | 369 | 691 | 12 | 27 | 28 | 27 |
| White Fir | 39 | 129 | 7 | 10 | 9 | 9 |
| Unit Totals | 1,335 | 4,563 | 278 | 316 | 309 | 282 |

Unit : ROW35 3 Acres 0 Regen 0 Partial 3 R/W

| SpeciesName | # of Trees | Merch Logs | Cull Logs | 16' MBF Gross | 16' MBF GM | 16' MBF Net |
|--------------------|-----------------------|-----------------------|----------------------|--------------------------|-----------------------|------------------------|
| Douglas-fir | 263 | 832 | 90 | 66 | 64 | 55 |
| Ponderosa Pine | 28 | 138 | 12 | 11 | 11 | 10 |
| Incense-cedar | 10 | 21 | | 1 | 1 | 1 |
| Unit Totals | 301 | 991 | 102 | 78 | 76 | 66 |

Unit : ROW5B 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 | 34 | 216 | 14 | 16 | 15 | 14 |
| White Fir | 7 | 27 | 1 | 2 | 2 | 2 |
| Incense-cedar | 5 | 7 | | | | |
| Unit Totals | 46 | 250 | 15 | 18 | 17 | 16 |

Unit : ROW6 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 |
|--------------------|-----------------------|-----------------------|----------------------|--------------------------|-----------------------|------------------------|
| Douglas-fir | 63 | 284 | 20 | 21 | 20 | 18 |
| Ponderosa Pine | 14 | 49 | 4 | 4 | 4 | 3 |
| Incense-cedar | 7 | 25 | | 1 | 1 | 1 |
| White Fir | 5 | 10 | 1 | 1 | 1 | 1 |
| Unit Totals | 89 | 368 | 25 | 27 | 26 | 23 |

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Stump to Truck Costs

Total (16' MBF)

| Total Stump to Truck Costs | Net Volume | Cost / Net Volume |
|---------------------------------------|-----------------------|------------------------------|
| \$ 512,423.30 | 3,693 | \$ 138.76 |

Detail

Yarding & Loading

| Yarding System | Unit Of Measure | Units | Cost / Unit | Total Cost |
|-----------------------|----------------------------|--------------|------------------------|-----------------------|
| Med Twr=40-70 | gmbf | 956 | \$ 175.50 | \$ 167,778.00 |
| Track Skidder | gmbf | 3,191 | \$ 103.80 | \$ 331,225.80 |
| Subtotal | | | | \$ 499,003.80 |

Other Costs

| Explanation | Unit Of Measure | Units | Cost / Unit | Total Cost |
|---------------------|----------------------------|--------------|------------------------|-----------------------|
| swing gmbf | gmbf | 329 | \$ 32.06 | \$ 10,547.74 |
| directional felling | mbf | 184 | \$ 12.89 | \$ 2,371.76 |
| Subtotal | | | | \$ 12,919.50 |

Additional Move-Ins

| Equipment | # Move-In | Cost / Move In | Total Cost |
|------------------|------------------|---------------------------|-----------------------|
| Dozer | 1 | \$ 500.00 | \$ 500.00 |
| Subtotal | | | \$ 500.00 |

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Other Allowances Costs

Total (16' MBF)

| Total Other Allowances Costs | Net Volume | Cost / Net Volume * | Total Buy Out Cost |
|-------------------------------------|-------------------|----------------------------|---------------------------|
| \$184,997.77 | 3,693 | \$50.09 | \$0.00 |

Fuels Treatment

Detail (16' MBF)

| Cost Item | Total Cost | Cost / Net Vol * | Buy Out | Buy Out Cost |
|--------------------------|----------------------|-------------------------|----------------|---------------------|
| Hand Pile Brn-Level 4 | \$ 19,762.05 | \$ 5.35 | N | \$ 0.00 |
| Hand Pile Brn-Level 3 | \$ 147,191.72 | \$ 39.86 | N | \$ 0.00 |
| Hand Pile, Cvr - Level 2 | \$ 3,654.00 | \$ 0.99 | N | \$ 0.00 |
| Subtotal | \$ 170,607.77 | \$ 46.20 | | \$ 0.00 |

Misc

Detail (16' MBF)

| Cost Item | Total Cost | Cost / Net Vol * | Buy Out | Buy Out Cost |
|----------------------|--------------------|-------------------------|----------------|---------------------|
| Seed and mulch | \$ 3,990.00 | \$ 1.08 | N | \$ 0.00 |
| Seed and mulch labor | \$ 800.00 | \$ 0.22 | | \$ 0.00 |
| Subtotal | \$ 4,790.00 | \$ 1.30 | | \$ 0.00 |

Other Costs

Detail (16' MBF)

| Cost Item | Total Cost | Cost / Net Vol * | Buy Out | Buy Out Cost |
|--------------------------|--------------------|-------------------------|----------------|---------------------|
| Skid Location | \$ 400.00 | \$ 0.11 | N | \$ 0.00 |
| Skid Construction | \$ 1,950.00 | \$ 0.53 | N | \$ 0.00 |
| Waterbar Skids | \$ 3,300.00 | \$ 0.89 | N | \$ 0.00 |
| Landing Construction | \$ 450.00 | \$ 0.12 | N | \$ 0.00 |
| Landing Clean up | \$ 750.00 | \$ 0.20 | N | \$ 0.00 |
| Equipment Washing | \$ 800.00 | \$ 0.22 | N | \$ 0.00 |
| Intermediate Support | \$ 900.00 | \$ 0.24 | N | \$ 0.00 |
| Down Wood / Snag Falling | \$ 1,050.00 | \$ 0.28 | N | \$ 0.00 |
| Subtotal | \$ 9,600.00 | \$ 2.60 | | \$ 0.00 |

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

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Consolidated Comments**

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General

Yarding & Loading

Extra yarding cost for swing volume in units 7-1 (125gmbf) and 15-16 (204gmbf). Based on 4800 bf per hour, skidder production. 68.5 hours @ \$154/ hour for both skidder and loader.

Road Costs

(see Engineering Appraisal for details).

Transportation

70% gmbf to sba utilization center. 30% to nearest railhead.

(see Transportation appendix for details).

Other Allowances

skid const= %5 of cat acres.

snag felling of strata #2 non merch.

support trees for cable units as per layout.

h20 bars time for all cat units.

Seed and mulch; \$8/lb for seed, 20 lb per acre x 13.5 acres = \$2160. Mulch; \$250/ton require 1000lb per acre; \$125x13.5 = \$1,687.5 Total seed and mulch 13.5 ac @ \$3990.

Prospectus



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

District : Medford
Sale Name : HEPPSIE
Sale Date : 12/20/2012
Appraisal Method : 16' MBF

Contract # : ORM06-TS-13-01
Job File # : ADP-288
Master Unit : Jackson
Planning Unit : Ashland

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1. Road Use Fees - Amortization

| | | | | |
|--------|-------------|--------|-------|------------|
| R/W | | Rd Use | Vol | Road Use |
| Number | Road Number | Fee x | MBF = | Obligation |

(1) Subtotal

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

| Road Number and Segment | A Surf N Type | Maint Mi | Vol x Fee x | MBF = | Total Maint |
|----------------------------|------------------|-------------|----------------|-------|----------------|
| 37-3E-6.08 D | N ASC | 0.30 | 1.30 | 555 | \$216.45 |
| 37-3E-6.08 D | N ASC | 0.43 | 1.30 | 1154 | \$645.09 |
| 37-3E-6.08 C2 | N ASC | 0.15 | 1.30 | 1410 | \$274.95 |
| 37-3E-6.08 C2 | N ASC | 0.90 | 1.30 | 1467 | \$1716.39 |
| 37-3E-6.08 C2 | N ASC | 0.20 | 1.30 | 1489 | \$387.14 |
| 37-3E-6.08 A-CN | ASC | 0.86 | 1.30 | 1912 | \$2137.62 |
| 37-3E-6.06 | A ASC | 0.94 | 1.13 | 235 | \$249.62 |
| 37-3E-6.02 | A PRR | 0.30 | 1.13 | 394 | \$133.57 |
| 37-3E-5.01 | A ASC | 0.82 | 1.13 | 220 | \$203.85 |
| 37-2E-1.03 | N ASC | 0.26 | 1.30 | 53 | \$17.91 |
| 37-2E-1.02 A | N ASC | 0.35 | 1.30 | 298 | \$135.59 |
| 37-2E-1.00 | N ASC | 0.80 | 1.30 | 53 | \$55.12 |
| 37-2E-1.00 | N ASC | 0.48 | 1.30 | 423 | \$263.95 |
| 37-2E-1.00 | N ASC | 0.21 | 1.30 | 105 | \$28.67 |
| 36-3E-31.00 | A ASC | 0.21 | 1.13 | 53 | \$12.58 |
| 36-3E-31.00 | A ASC | 0.70 | 1.13 | 876 | \$692.92 |
| 36-3E-31.00 | A ASC | 0.40 | 1.13 | 1096 | \$495.39 |
| 36-3E-31.00 | A ASC | 0.25 | 1.13 | 1490 | \$420.93 |
| 36-3E-31.00 | A ASC | 1.58 | 1.13 | 1725 | \$3079.82 |
| 36-3E-31.00 C | A ASC | 0.60 | 1.13 | 3637 | \$2465.89 |
| 36-3E-31.00 B | A ASC | 0.46 | 1.13 | 3637 | \$1890.51 |
| 36-3E-31.00 A | A BST1 | 0.39 | 0.65 | 3637 | \$921.98 |
| 36-3E-31.00 A | A BST1 | 0.10 | 0.65 | 3666 | \$238.29 |
| 36-3E-31.00 A | A BST1 | 0.11 | 0.65 | 3693 | \$264.05 |

(2.1) Subtotal \$16948.25

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 | A Surf | Maint | Vol | Total |
| and Segment | N Type | Mi x | Fee x | C.Y. = |
| | | | | Maint |

(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 | A | Maint | Vol | Total | | Rkwear | Vol | Total |
| and Segment | N | Mi | x | Fee x | MBF = | Maint | Mi | x |
| | | | | | | | | Fee x |
| | | | | | | | | MBF = |
| | | | | | | | | 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 | A | Maint | Vol | Total | Rkwear | Vol | Total | | |
| and Segment | N | Mi | x Fee x C.Y. = | Maint | Mi | x Fee x C.Y. = | 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/ | A | RkWear | Vol | Total | RkWear | Vol | Total | | |
| and Segment | N | Mi | x Fee x MBF = | RkWear | Mi | x Fee x C.Y. = | RkWear | | |
| 6.11 Spur | A | 0.09 | 0.00 | 1 | \$0.00 | 0.00 | 0.00 | 0 | \$0.00 |
| 37-3E-6.11 | A | 0.30 | 0.00 | 1 | \$0.00 | 0.00 | 0.00 | 0 | \$0.00 |
| 37-3E-6.11 | A | 0.05 | 0.00 | 1 | \$0.00 | 0.00 | 0.00 | 0 | \$0.00 |
| 37-3E-5.05 | A | 0.11 | 0.00 | 1 | \$0.00 | 0.00 | 0.00 | 0 | \$0.00 |
| 37-3E-5.03 | A | 0.13 | 0.00 | 1 | \$0.00 | 0.00 | 0.00 | 0 | \$0.00 |
| 37-3E-5.03 | A | 0.15 | 0.00 | 1 | \$0.00 | 0.00 | 0.00 | 0 | \$0.00 |
| 37-3E-5.02 | A | 0.42 | 0.00 | 1 | \$0.00 | 0.00 | 0.00 | 0 | \$0.00 |
| 37-3E-5.02 | A | 0.17 | 0.00 | 1 | \$0.00 | 0.00 | 0.00 | 0 | \$0.00 |
| 37-2E-1.02 B | N | 0.19 | 0.00 | 1 | \$0.00 | 0.00 | 0.00 | 0 | \$0.00 |
| 36-2E-35.01 | N | 0.61 | 0.00 | 1 | \$0.00 | 0.00 | 0.00 | 0 | \$0.00 |
| 36-2E-35.01 | N | 0.23 | 0.00 | 1 | \$0.00 | 0.00 | 0.00 | 0 | \$0.00 |
| 36-2E-35.00 | N | 0.35 | 0.00 | 1 | \$0.00 | 0.00 | 0.00 | 0 | \$0.00 |

(7.1) Subtotal \$0.00

(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 strips. Note in prospectus.

7.3A Move In

| Equipment 1/ | No | Move | Cost/ | Dist | Sub- |
|----------------|-------|--------|----------|----------|----------|
| | Units | x in x | 50 Mi x | Factor = | total |
| Motor Grader: | 1 | 1 | \$356.00 | 0.59 | \$210.04 |
| Back Hoe: | 1 | | \$356.00 | 0.59 | \$0.00 |
| Loader: | | | \$356.00 | 0.59 | \$0.00 |
| Water Truck: | 1 | 1 | \$216.00 | 0.59 | \$127.44 |
| Dump Truck 2/: | | | \$228.00 | 0.59 | \$0.00 |

(7.3A) Total \$337.48

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 |
|-------|---|---------|---|----------|
| 0.19 | | 264.30 | | \$50.22 |

(7.3B) Total \$50.22

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: | 2.35 | | 512.82 | | 1 | | \$1205.13 |
| Blade Ditch: | 0.00 | | 139.08 | | 0 | | \$0.00 |

(7.3C) Total \$1205.13

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: | 0 | 0 | 137.80 | | \$0.00 |
| Loader: | 0 | 0 | 89.31 | | \$0.00 |
| Backhoe: | 0 | 0 | 64.75 | | \$0.00 |

(7.3D) Total \$0.00

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 |
|--------------------------------|---|-----|---|-------|---|------------|---|--------------|---|--------------------|
| 12.51 | | 5 | | 2.5 | | 11 | | 1 | | 27.5 |
| Load & Haul-Roundtrip = | | | | 2.0 | | 6 | | 1 | | 12.0 |
| Fixed Hours (3000 Gal. tanker) | | | | | | | | | | |
| | | | | | | | | | | Total Hours = 39.5 |

Truck Cost: \$86.57/Hr. x 39.5 Hours = \$3419.52

(7.3E) Total \$3419.52

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/ | 0 C.Y. x \$0.00/C.Y. | = | \$0.00 |
| Haul to Stockpile: | 0 C.Y. x \$2.32/C.Y. x 0.00 Mi | = | \$0.00 |
| Stockpile: | 0 C.Y. x \$1.25/C.Y. | = | \$0.00 |
| Load from Stockpile: | 0 C.Y. x \$1.38/C.Y. | = | \$0.00 |
| Haul from Stockpile: | 0 C.Y. x \$2.32/C.Y. x 0.00 Mi | = | \$0.00 |
| Process with Grader: | 0 C.Y. x \$0.77/C.Y. | = | \$0.00 |

(7.3F) Total \$0.00

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/ | 0.0 Hours x \$0.00/Hour = \$0.00 |
| Brush Cutting/Tree Trimming: 2/ | 0.0 Hours x \$0.00/Hour = \$0.00 |
| Oil/Asphalt Materials: 3/ | Lump Sum = \$0.00 |
| Signing for Dust Palliatives: 4/ | Lump Sum = \$0.00 |
| Misc. L.S. = | \$0.00 |

(7.3H) Total \$0.00

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

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: Heppsie TS Sale Date: April 2012

Prepared by: Josh R Ph: 2258 Print Date: 11/5/2012 8:46:45 AM

Construction: 54.01 sta (Surfaced 32.40 sta Natural 21.61 sta)

Improve: 0.00 sta Renov: 677.94 sta Decom: 0.00 sta Temp: 0.00 sta

| | |
|--|-------------|
| 200 Clearing and Grubbing: 3.3 acres | \$5,279.72 |
| Clearing: 54.0 sta Grubbing: 3.3 acres | |
| Slash Treatment: 3.3 acres | |
| 300 Excavation: 4,375 cy | \$15,588.39 |
| Haul: 32,430 sta-yds | |
| 400 Drainage: | \$2,860.10 |
| Culvert: 34 lf wt = 816 lbs factor = 1.2 | |
| DownSpout: 0 lf | |
| PolyPipe: 0 lf | |
| 500 Renovation: | \$4,705.88 |
| Blading 8.50 mi | |
| Surfacing: | \$2,925.00 |
| 700 Quarry Name: Private 100 cy | |
| 1300 Geotextiles: | \$0.00 |
| 1400 Slope Protection: | \$0.00 |
| 1800 Soil Stabilization: 3.5 acres | \$1,768.91 |
| Includes Small Quantity Factor of 1.39 | |
| 1900 Cattleguards: | \$0.00 |
| 2100 RoadSide Brushing: 0.0 acres | \$0.00 |
| 2200 Surface Treatment: 0.0 tons | \$0.00 |
| 2300 Engineering: 54.01 sta. | \$1,677.55 |
| 2400 Minor Concrete: | \$0.00 |
| 2500 Gabions: | \$0.00 |
| 8000 Miscellaneous: | \$1,600.00 |
| Mobilization: Const. \$2,086.00 Surf. \$0.00..... | \$2,086.00 |
| Quarry Development: | \$0.00 |
| Total: 4,146 mbf @ \$9.28/mbf = | \$38,491.56 |

Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities are COMPACTED in place cubic yards.

File S:\Ashland\Engineering Projects\2012\Timber Sales\Heppsie\Rd Cost\Heppsie.mdb

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Heppsie TS Sale Date: April 2012
Road Number: 36-2E-35.00 Road Name: Heppsie Mtn Last Sp
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: | \$179.49 |
| 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: 0.0 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. \$10.28 Surf. \$0.00..... | \$10.28 |
| Quarry Development: | \$0.00 |
| Total: | \$189.77 |

Notes:

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

Road Construction Worksheet

Road Number: 36-2E-35.00 Road Name: Heppsie Mtn Last Sp

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Blading: $\$512.82/\text{mi} \times 0.35 \text{ mi} = \179.49

Subtotal: \$179.49

Surfacing:

Subtotal: \$0.00

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1800 Soil Stabilization:

Subtotal: \$0.00

Section 1900 Cattleguards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

Subtotal: \$0.00

Section 2200 Surface Treatment:

Subtotal: \$0.00

Section 2300 Engineering:

Subtotal: \$0.00

Section 2400 Minor Concrete:

Subtotal: \$0.00

Section 2500 Gabions:

Subtotal: \$0.00

Section 8000 Miscellaneous:

Subtotal: \$0.00

Mobilization:

Construction - 0.49% of total Costs = \$10.28

Surfacing - 0.00% by rock volume = \$0.00

Subtotal: \$10.28

Quarry Development:

Based on 0.00% of total rock volume

Subtotal: \$0.00

Total: \$189.77

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Heppsie TS Sale Date: April 2012
Road Number: 36-2E-35.01 new Road Name: Murray
Road Construction: 0.61 mi 14 ft Subgrade ft ditch T.S. Update 05/15/12

| | |
|--|-------------|
| 200 Clearing and Grubbing: 1.9 acres | \$3,385.98 |
| Clearing:32.4 sta Grubbing:1.9 acres | |
| Slash Treatment:1.9 acres | |
| 300 Excavation: 2,029 cy | \$6,463.35 |
| Haul: 3,452 sta-yds | |
| 400 Drainage: | \$2,279.46 |
| Culvert: 34 lf wt = 816 lbs factor = 1.2 | |
| DownSpout: 0 lf | |
| PolyPipe: 0 lf | |
| 500 Renovation: | \$0.00 |
| Surfacing: | \$2,925.00 |
| 700 Quarry Name: Private 100 cy | |
| 1300 Geotextiles: | \$0.00 |
| 1400 Slope Protection: | \$0.00 |
| 1800 Soil Stabilization: 1.9 acres | \$957.53 |
| Includes Small Quantity Factor of 1.39 | |
| 1900 Cattleguards: | \$0.00 |
| 2100 RoadSide Brushing: 0.0 acres | \$0.00 |
| 2200 Surface Treatment: 0.0 tons | \$0.00 |
| 2300 Engineering: 32.40 sta. | \$1,006.34 |
| 2400 Minor Concrete: | \$0.00 |
| 2500 Gabions: | \$0.00 |
| 8000 Miscellaneous: | \$300.00 |
| Mobilization: Const. \$992.28 Surf. \$0.00..... | \$992.28 |
| Quarry Development: | \$0.00 |
| Total: | \$18,309.95 |

Notes:

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

Road Construction Worksheet

Road Number: 36-2E-35.01 new Road Name: Murray

Section 200 Clearing and Grubbing:

Clearing - Light: \$15.08/sta x 32.40 sta = \$488.59

Grubbing - Medium: \$810.46/acre x 1.90 acres = \$1,539.87

Scatter: \$714.48/acre x 1.90 acres = \$1,357.51

Subtotal: \$3,385.98

Section 300 Excavation:

Excavation - Common: \$1.71/cy x 2,029 cy = \$3,469.59

Subgrade Compaction: 4 Sta/hr \$18.57/sta. x 32.4 sta = \$601.67

Compaction - Common: \$0.76/cy x 2,029 cy = \$1,542.04

End Hauling - 100 to 500 ft: \$0.14/sta-yd x 3,452 sta-yd = \$483.28

Blading: \$11.32/station x 32.40 stations = \$366.77

Subtotal: \$6,463.35

Section 400 Drainage:

Aluminized 24 inch 14 ga 34 lf x \$38.08/lf x 1.2 = \$1,553.66

Construct Cross Drains

Backhoe 30 in 10 hr x \$72.58/hr = \$725.80

Subtotal: \$2,279.46

Section 500 Renovation:

Subtotal: \$0.00

Section 700 Pitrun Quarry Name: Private

| <u>Length</u> | <u>TopW</u> | <u>BotW</u> | <u>Depth</u> | <u>CWid</u> | <u>#TOs</u> | <u>Width</u> | <u>F.W.L</u> | <u>Taper</u> | <u>Other</u> 100cy |
|---------------|-------------|-------------|--------------|-------------|-------------|--------------|--------------|--------------|-----------------------|
|---------------|-------------|-------------|--------------|-------------|-------------|--------------|--------------|--------------|-----------------------|

Rock Volume = 100cy

Production: \$2.58/cy x 100cy = \$258.00

Royalty: \$7.00/cy x 100cy = \$700.00

Processing: \$1.38/cy x 100cy = \$138.00

Compaction: \$0.77/cy x 100cy = \$77.00

Stockpiling: \$1.38/cy x 100cy = \$138.00

Basic Rock Haul cost: \$0.93/cy x 100cy = \$93.00

Rock Haul -15% grades: \$1.39/cy-mi x 100cy x 5.00 mi= \$695.00

Rock Haul St& Co Roads: \$0.62/cy-mi x 100cy x 10.00 mi= \$620.00

Basic Water Haul cost: \$0.61/cy x 100cy = \$61.00

Water Haul -15% grades: \$0.13/cy-mi x 100cy x 5.00 mi= \$65.00

Water Haul St&Co Roads: \$0.08/cy-mi x 100cy x 10.00 mi= \$80.00

Subtotal: \$2,925.00

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1800 Soil Stabilization:

Dry Method with Mulch: \$503.96/acre x 1.90 acres = \$957.53

Includes Small Quantity Factor of 1.39

Subtotal: \$957.53

Section 1900 Cattleguards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

Subtotal: \$0.00

Road Number: 36-2E-35.01 1 Murray Continued

Section 2200 Surface Treatment:

Subtotal: \$0.00

Section 2300 Engineering:

Both Sides Normal: $\$31.06/\text{sta} \times 32.40 \text{ sta} = \$1,006.34$

Subtotal: \$1,006.34

Section 2400 Minor Concrete:

Subtotal: \$0.00

Section 2500 Gabions:

Subtotal: \$0.00

Section 8000 Miscellaneous:

Construct Earth Barricade

Construct Earth Barricade 1 EA x $\$300.00/\text{EA} = \300.00

Subtotal: \$300.00

Mobilization:

Construction - 47.57% of total Costs = \$992.28

Surfacing - 100.00% by rock volume = \$0.00

Subtotal: \$992.28

Quarry Development:

Based on 100.00% of total rock volume

Subtotal: \$0.00

Total: \$18,309.95

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Heppsie TS Sale Date: April 2012
 Road Number: 36-3E-31.00 Road Name: Heppsie Mtn Mainline
 Road Renovation: 4.88 mi 18 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: | \$1,056.52 |
| Blading 1.47 mi | |
| Surfacing: | \$0.00 |
| 1300 Geotextiles: | \$0.00 |
| 1400 Slope Protection: | \$0.00 |
| 1800 Soil Stabilization: 0.0 acres | \$0.00 |
| 1900 Cattleguards: | \$0.00 |
| 2100 RoadSide Brushing: 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. \$60.54 Surf. \$0.00..... | \$60.54 |
| Quarry Development: | \$0.00 |

Total: \$1,117.06

Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are COMPACTED in place cubic yards.

Road Construction Worksheet

Road Number: 36-3E-31.00 Road Name: Heppsie Mtn Mainline

| | | |
|---|-----------|------------|
| Section 200 Clearing and Grubbing: | Subtotal: | \$0.00 |
| Section 300 Excavation: | Subtotal: | \$0.00 |
| Section 400 Drainage: | Subtotal: | \$0.00 |
| Section 500 Renovation: Blading: $\$512.82/\text{mi} \times 1.47 \text{ mi} = \753.85 Pull Ditches: $\$139.08/\text{mi} \times 0.58 \text{ mi} = \80.67 Clean Culverts: $\$264.30/\text{mi} \times 0.84 \text{ mi} = \222.01 | Subtotal: | \$1,056.52 |
| Surfacing: | Subtotal: | \$0.00 |
| Section 1300 Geotextiles: | Subtotal: | \$0.00 |
| Section 1400 Slope Protection: | Subtotal: | \$0.00 |
| Section 1800 Soil Stabilization: | Subtotal: | \$0.00 |
| Section 1900 Cattleguards: | Subtotal: | \$0.00 |
| Section 2100 Roadside Brushing: | Subtotal: | \$0.00 |
| Section 2200 Surface Treatment: | Subtotal: | \$0.00 |
| Section 2300 Engineering: | Subtotal: | \$0.00 |
| Section 2400 Minor Concrete: | Subtotal: | \$0.00 |
| Section 2500 Gabions: | Subtotal: | \$0.00 |
| Section 8000 Miscellaneous: | Subtotal: | \$0.00 |
| Mobilization: Construction - 2.90% of total Costs = \$60.54 Surfacing - 0.00% by rock volume = \$0.00 | Subtotal: | \$60.54 |
| Quarry Development: Based on 0.00% of total rock volume | Subtotal: | \$0.00 |
| | Total: | \$1,117.06 |

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Heppsie TS Sale Date: April 2012
 Road Number: 37-2E-1.00 Road Name: Heppsie Mtn B Spur
 Road Renovation: 1.24 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: | \$660.10 |
| Blading 1.24 mi | |
| Surfacing: | \$0.00 |
| 1300 Geotextiles: | \$0.00 |
| 1400 Slope Protection: | \$0.00 |
| 1800 Soil Stabilization: 0.0 acres | \$0.00 |
| 1900 Cattleguards: | \$0.00 |
| 2100 RoadSide Brushing: 0.0 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. \$37.82 Surf. \$0.00..... | \$37.82 |
| Quarry Development: | \$0.00 |
| Total: | \$697.92 |

Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are COMPACTED in place cubic yards.

Road Construction Worksheet

Road Number: 37-2E-1.00 Road Name: Heppsie Mtn B Spur

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Blading: $\$512.82/\text{mi} \times 1.24 \text{ mi} = \635.90

Pull Ditches: $\$139.08/\text{mi} \times 0.06 \text{ mi} = \8.34

Clean Culverts: $\$264.30/\text{mi} \times 0.06 \text{ mi} = \15.86

Subtotal: \$660.10

Surfacing:

Subtotal: \$0.00

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1800 Soil Stabilization:

Subtotal: \$0.00

Section 1900 Cattleguards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

Subtotal: \$0.00

Section 2200 Surface Treatment:

Subtotal: \$0.00

Section 2300 Engineering:

Subtotal: \$0.00

Section 2400 Minor Concrete:

Subtotal: \$0.00

Section 2500 Gabions:

Subtotal: \$0.00

Section 8000 Miscellaneous:

Subtotal: \$0.00

Mobilization:

Construction - 1.81% of total Costs = \$37.82

Surfacing - 0.00% by rock volume = \$0.00

Subtotal: \$37.82

Quarry Development:

Based on 0.00% of total rock volume

Subtotal: \$0.00

Total: \$697.92

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Heppsie TS Sale Date: April 2012
 Road Number: 37-2E-1.02 Road Name: Heppsie Mtn C Spur
 Road Renovation: 0.54 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: | \$276.92 |
| Blading 0.54 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. \$38.79 Surf. \$0.00..... | \$38.79 |
| Quarry Development: | \$0.00 |

Total: \$715.71

Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are COMPACTED in place cubic yards.

Road Construction Worksheet

Road Number: 37-2E-1.02 Road Name: Heppsie Mtn C Spur

| | | |
|--|-----------|----------|
| Section 200 Clearing and Grubbing: | Subtotal: | \$0.00 |
| Section 300 Excavation: | Subtotal: | \$0.00 |
| Section 400 Drainage: | Subtotal: | \$0.00 |
| Section 500 Renovation: Blading: $\$512.82/\text{mi} \times 0.54 \text{ mi} = \276.92 | Subtotal: | \$276.92 |
| Surfacing: | Subtotal: | \$0.00 |
| Section 1300 Geotextiles: | Subtotal: | \$0.00 |
| Section 1400 Slope Protection: | Subtotal: | \$0.00 |
| Section 1800 Soil Stabilization: | Subtotal: | \$0.00 |
| Section 1900 Cattleguards: | Subtotal: | \$0.00 |
| Section 2100 Roadside Brushing: | Subtotal: | \$0.00 |
| Section 2200 Surface Treatment: | Subtotal: | \$0.00 |
| Section 2300 Engineering: | Subtotal: | \$0.00 |
| Section 2400 Minor Concrete: | Subtotal: | \$0.00 |
| Section 2500 Gabions: | Subtotal: | \$0.00 |
| Section 8000 Miscellaneous: Construct Armored Waterdip Armored Waterdip 1 EA x $\$400.00/\text{EA} = \400.00 | Subtotal: | \$400.00 |
| Mobilization: Construction - 1.86% of total Costs = \$38.79 Surfacing - 0.00% by rock volume = \$0.00 | Subtotal: | \$38.79 |
| Quarry Development: Based on 0.00% of total rock volume | Subtotal: | \$0.00 |
| | Total: | \$715.71 |

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Heppsie TS Sale Date: April 2012
 Road Number: 37-2E-1.03 Road Name: Heppsie Mtn Quarry S
 Road Renovation: 0.29 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: | \$148.72 |
| Blading 0.29 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: | \$0.00 |
| Mobilization: Const. \$8.52 Surf. \$0.00..... | \$8.52 |
| Quarry Development: | \$0.00 |
| Total: | \$157.24 |

Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are COMPACTED in place cubic yards.

Road Construction Worksheet

Road Number: 37-2E-1.03 Road Name: Heppsie Mtn Quarry S

| | | |
|--|-----------|----------|
| Section 200 Clearing and Grubbing: | Subtotal: | \$0.00 |
| Section 300 Excavation: | Subtotal: | \$0.00 |
| Section 400 Drainage: | Subtotal: | \$0.00 |
| Section 500 Renovation: Blading: \$512.82/mi x 0.29 mi = \$148.72 | Subtotal: | \$148.72 |
| Surfacing: | Subtotal: | \$0.00 |
| Section 1300 Geotextiles: | Subtotal: | \$0.00 |
| Section 1400 Slope Protection: | Subtotal: | \$0.00 |
| Section 1800 Soil Stabilization: | Subtotal: | \$0.00 |
| Section 1900 Cattleguards: | Subtotal: | \$0.00 |
| Section 2100 Roadside Brushing: | Subtotal: | \$0.00 |
| Section 2200 Surface Treatment: | Subtotal: | \$0.00 |
| Section 2300 Engineering: | Subtotal: | \$0.00 |
| Section 2400 Minor Concrete: | Subtotal: | \$0.00 |
| Section 2500 Gabions: | Subtotal: | \$0.00 |
| Section 8000 Miscellaneous: | Subtotal: | \$0.00 |
| Mobilization: Construction - 0.41% of total Costs = \$8.52 Surfacing - 0.00% by rock volume = \$0.00 | Subtotal: | \$8.52 |
| Quarry Development: Based on 0.00% of total rock volume | Subtotal: | \$0.00 |
| | Total: | \$157.24 |

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Heppsie TS Sale Date: April 2012
 Road Number: 37-3E-5.01 Road Name: Heppsie Mtn One Mile
 Road Renovation: 1.03 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: | \$528.20 |
| Blading 1.03 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: 0.0 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. \$30.27 Surf. \$0.00..... | \$30.27 |
| Quarry Development: | \$0.00 |
| Total: | \$558.47 |

Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are COMPACTED in place cubic yards.

Road Construction Worksheet

Road Number: 37-3E-5.01 Road Name: Heppsie Mtn One Mile

| | | |
|---|-----------|----------|
| Section 200 Clearing and Grubbing: | Subtotal: | \$0.00 |
| Section 300 Excavation: | Subtotal: | \$0.00 |
| Section 400 Drainage: | Subtotal: | \$0.00 |
| Section 500 Renovation: Blading: \$512.82/mi x 1.03 mi = \$528.20 | Subtotal: | \$528.20 |
| Surfacing: | Subtotal: | \$0.00 |
| Section 1300 Geotextiles: | Subtotal: | \$0.00 |
| Section 1400 Slope Protection: | Subtotal: | \$0.00 |
| Section 1800 Soil Stabilization: | Subtotal: | \$0.00 |
| Section 1900 Cattleguards: | Subtotal: | \$0.00 |
| Section 2100 Roadside Brushing: | Subtotal: | \$0.00 |
| Section 2200 Surface Treatment: | Subtotal: | \$0.00 |
| Section 2300 Engineering: | Subtotal: | \$0.00 |
| Section 2400 Minor Concrete: | Subtotal: | \$0.00 |
| Section 2500 Gabions: | Subtotal: | \$0.00 |
| Section 8000 Miscellaneous: | Subtotal: | \$0.00 |
| Mobilization: Construction - 1.45% of total Costs = \$30.27 Surfacing - 0.00% by rock volume = \$0.00 | Subtotal: | \$30.27 |
| Quarry Development: Based on 0.00% of total rock volume | Subtotal: | \$0.00 |
| | Total: | \$558.47 |

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Heppsie TS Sale Date: April 2012
 Road Number: 37-3E-5.02 Road Name: Heppsie Mtn Ridgetop
 Road Renovation: 0.42 mi 12 ft Subgrade 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: | \$215.38 |
| 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: | \$300.00 |
| Mobilization: Const. \$29.53 Surf. \$0.00..... | \$29.53 |
| Quarry Development: | \$0.00 |
| Total: | \$544.92 |

Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are COMPACTED in place cubic yards.

Road Construction Worksheet

Road Number: 37-3E-5.02 Road Name: Heppsie Mtn Ridgetop

| | | |
|--|-----------|----------|
| Section 200 Clearing and Grubbing: | Subtotal: | \$0.00 |
| Section 300 Excavation: | Subtotal: | \$0.00 |
| Section 400 Drainage: | Subtotal: | \$0.00 |
| Section 500 Renovation: Blading: $\$512.82/\text{mi} \times 0.42 \text{ mi} = \215.38 | Subtotal: | \$215.38 |
| Surfacing: | Subtotal: | \$0.00 |
| Section 1300 Geotextiles: | Subtotal: | \$0.00 |
| Section 1400 Slope Protection: | Subtotal: | \$0.00 |
| Section 1800 Soil Stabilization: | Subtotal: | \$0.00 |
| Section 1900 Cattleguards: | Subtotal: | \$0.00 |
| Section 2100 Roadside Brushing: | Subtotal: | \$0.00 |
| Section 2200 Surface Treatment: | Subtotal: | \$0.00 |
| Section 2300 Engineering: | Subtotal: | \$0.00 |
| Section 2400 Minor Concrete: | Subtotal: | \$0.00 |
| Section 2500 Gabions: | Subtotal: | \$0.00 |
| Section 8000 Miscellaneous: Construct Earth Barricade Earth Berm Barricade 1 EA $\times \$300.00/\text{EA} = \300.00 | Subtotal: | \$300.00 |
| Mobilization: Construction - 1.42% of total Costs = \$29.53 Surfacing - 0.00% by rock volume = \$0.00 | Subtotal: | \$29.53 |
| Quarry Development: Based on 0.00% of total rock volume | Subtotal: | \$0.00 |
| | Total: | \$544.92 |

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Heppsie TS Sale Date: April 2012
 Road Number: 37-3E-5.03 Road Name: Heppsie Mtn Ne Spur
 Road Renovation: 0.15 mi 12 ft Subgrade 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: | \$76.92 |
| 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: | \$0.00 |
| Mobilization: Const. \$4.41 Surf. \$0.00..... | \$4.41 |
| Quarry Development: | \$0.00 |
| Total: | \$81.33 |

Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are COMPACTED in place cubic yards.

Road Construction Worksheet

Road Number: 37-3E-5.03 Road Name: Heppsie Mtn Ne Spur

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Blading: \$512.82/mi x 0.15 mi = \$76.92

Subtotal: \$76.92

Surfacing:

Subtotal: \$0.00

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1800 Soil Stabilization:

Subtotal: \$0.00

Section 1900 Cattleguards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

Subtotal: \$0.00

Section 2200 Surface Treatment:

Subtotal: \$0.00

Section 2300 Engineering:

Subtotal: \$0.00

Section 2400 Minor Concrete:

Subtotal: \$0.00

Section 2500 Gabions:

Subtotal: \$0.00

Section 8000 Miscellaneous:

Subtotal: \$0.00

Mobilization:

Construction - 0.21% of total Costs = \$4.41

Surfacing - 0.00% by rock volume = \$0.00

Subtotal: \$4.41

Quarry Development:

Based on 0.00% of total rock volume

Subtotal: \$0.00

Total: \$81.33

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Heppsie TS Sale Date: April 2012

Road Number: 37-3E-5.05 new Road Name: SHORT

Road Construction: 0.11 mi 14 ft Subgrade ft ditch T.S. Update 05/15/12

| | |
|---|-------------------|
| 200 Clearing and Grubbing: 0.4 acres | \$508.69 |
| Clearing: 5.9 sta Grubbing: 0.4 acres | |
| Slash Treatment: 0.4 acres | |
| 300 Excavation: 837 cy | \$3,801.71 |
| Haul: 27,219 sta-yds | |
| 400 Drainage: | \$0.00 |
| Culvert: 0 lf wt = 0 lbs factor = 1.2 | |
| DownSpout: 0 lf | |
| PolyPipe: 0 lf | |
| 500 Renovation: | \$0.00 |
| Surfacing: | \$0.00 |
| 1300 Geotextiles: | \$0.00 |
| 1400 Slope Protection: | \$0.00 |
| 1800 Soil Stabilization: 0.4 acres | \$206.62 |
| Includes Small Quantity Factor of 1.39 | |
| 1900 Cattleguards: | \$0.00 |
| 2100 RoadSide Brushing: 0.0 acres | \$0.00 |
| 2200 Surface Treatment: 0.0 tons | \$0.00 |
| 2300 Engineering: 5.91 sta. | \$183.56 |
| 2400 Minor Concrete: | \$0.00 |
| 2500 Gabions: | \$0.00 |
| 8000 Miscellaneous: | \$300.00 |
| Mobilization: Const. \$286.53 Surf. \$0.00..... | \$286.53 |
| Quarry Development: | \$0.00 |
| | Total: \$5,287.12 |

Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are COMPACTED in place cubic yards.

Road Construction Worksheet

Road Number: 37-3E-5.05 new Road Name: SHORT

Section 200 Clearing and Grubbing:

Clearing - Light: $\$15.08/\text{sta} \times 5.91 \text{ sta} = \89.12

Grubbing - Light: $\$389.65/\text{acre} \times 0.38 \text{ acres} = \148.07

Scatter: $\$714.48/\text{acre} \times 0.38 \text{ acres} = \271.50

Subtotal: \$508.69

Section 300 Excavation:

Excavation - Common: $\$1.71/\text{cy} \times 500 \text{ cy} = \855.00

Excavation - Rippable: $\$3.44/\text{cy} \times 337 \text{ cy} = \$1,159.28$

Subgrade Compaction: 4 Sta/hr $\$18.57/\text{sta} \times 5.9 \text{ sta} = \109.75

Compaction - Common: $\$0.76/\text{cy} \times 837 \text{ cy} = \636.12

End Hauling - 100 to 500 ft: $\$0.14/\text{sta-yd} \times 819 \text{ sta-yd} = \114.66

End Hauling > 500 ft and 20 mph: $\$1.72/\text{yd-mi} \times 500 \text{ yd-mi} = \860.00

Blading: $\$11.32/\text{station} \times 5.91 \text{ stations} = \66.90

Subtotal: \$3,801.71

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Subtotal: \$0.00

Surfacing:

Subtotal: \$0.00

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1800 Soil Stabilization:

Dry Method with Mulch: $\$503.96/\text{acre} \times 0.41 \text{ acres} = \206.62

Includes Small Quantity Factor of 1.39

Subtotal: \$206.62

Section 1900 Cattleguards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

Subtotal: \$0.00

Section 2200 Surface Treatment:

Subtotal: \$0.00

Section 2300 Engineering:

Both Sides Normal: $\$31.06/\text{sta} \times 5.91 \text{ sta} = \183.56

Subtotal: \$183.56

Section 2400 Minor Concrete:

Subtotal: \$0.00

Section 2500 Gabions:

Subtotal: \$0.00

Section 8000 Miscellaneous:

Construct Earth Barricade

Construct Earth Barricade 1 EA x $\$300.00/\text{EA} = \300.00

Road Number: 37-3E-5.05 ne SHORT Continued

Subtotal: \$300.00

Mobilization:

Construction - 13.74% of total Costs = \$286.53

Surfacing - 0.00% by rock volume = \$0.00

Subtotal: \$286.53

Quarry Development:

Based on 0.00% of total rock volume

Subtotal: \$0.00

Total: \$5,287.12

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Heppsie TS Sale Date: April 2012
 Road Number: 37-3E-6.02 Road Name: Heppsie Mtn S
 Road Renovation: 0.32 mi 14 ft Subgrade 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: | \$164.10 |
| Blading 0.32 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. \$26.59 Surf. \$0.00..... | \$26.59 |
| Quarry Development: | \$0.00 |
| Total: | \$490.70 |

Notes:

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

Road Construction Worksheet

Road Number: 37-3E-6.02 Road Name: Heppsie Mtn S

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Blading: $\$512.82/\text{mi} \times 0.32 \text{ mi} = \164.10

Subtotal: \$164.10

Surfacing:

Subtotal: \$0.00

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1800 Soil Stabilization:

Subtotal: \$0.00

Section 1900 Cattleguards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

Subtotal: \$0.00

Section 2200 Surface Treatment:

Subtotal: \$0.00

Section 2300 Engineering:

Subtotal: \$0.00

Section 2400 Minor Concrete:

Subtotal: \$0.00

Section 2500 Gabions:

Subtotal: \$0.00

Section 8000 Miscellaneous:

Construct Earth Barricade

Earth Berm Barricade 1 EA $\times \$300.00/\text{EA} = \300.00

Subtotal: \$300.00

Mobilization:

Construction - 1.27% of total Costs = \$26.59

Surfacing - 0.00% by rock volume = \$0.00

Subtotal: \$26.59

Quarry Development:

Based on 0.00% of total rock volume

Subtotal: \$0.00

Total: \$490.70

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Heppsie TS Sale Date: April 2012
 Road Number: 37-3E-6.06 Road Name: Heppsie Mtn Long Spu
 Road Renovation: 0.93 mi 12 ft Subgrade 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: | \$0.00 |
| 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: | \$0.00 |
| Mobilization: Const. \$0.00 Surf. \$0.00..... | \$0.00 |
| Quarry Development: | \$0.00 |
| Total: | \$0.00 |

Notes:

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

Road Construction Worksheet

Road Number: 37-3E-6.06 Road Name: Heppsie Mtn Long Spu

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Subtotal: \$0.00

Surfacing:

Subtotal: \$0.00

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1800 Soil Stabilization:

Subtotal: \$0.00

Section 1900 Cattleguards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

Subtotal: \$0.00

Section 2200 Surface Treatment:

Subtotal: \$0.00

Section 2300 Engineering:

Subtotal: \$0.00

Section 2400 Minor Concrete:

Subtotal: \$0.00

Section 2500 Gabions:

Subtotal: \$0.00

Section 8000 Miscellaneous:

Subtotal: \$0.00

Mobilization:

Construction - 0.00% of total Costs = \$0.00

Surfacing - 0.00% by rock volume = \$0.00

Subtotal: \$0.00

Quarry Development:

Based on 0.00% of total rock volume

Subtotal: \$0.00

Total: \$0.00

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Heppsie TS Sale Date: April 2012
 Road Number: 37-3E-6.08 Road Name: Heppsie Mtn A Spur
 Road Renovation: 2.69 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: | \$1,399.52 |
| Blading 2.69 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: | \$0.00 |
| Mobilization: Const. \$80.19 Surf. \$0.00..... | \$80.19 |
| Quarry Development: | \$0.00 |
| Total: | \$1,479.71 |

Notes:

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

Road Construction Worksheet

Road Number: 37-3E-6.08 Road Name: Heppsie Mtn A Spur

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Blading: $\$512.82/\text{mi} \times 2.69 \text{ mi} = \$1,379.49$

Pull Ditches: $\$139.08/\text{mi} \times 0.03 \text{ mi} = \4.17

Clean Culverts: $\$264.30/\text{mi} \times 0.06 \text{ mi} = \15.86

Subtotal: \$1,399.52

Surfacing:

Subtotal: \$0.00

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1800 Soil Stabilization:

Subtotal: \$0.00

Section 1900 Cattleguards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

Subtotal: \$0.00

Section 2200 Surface Treatment:

Subtotal: \$0.00

Section 2300 Engineering:

Subtotal: \$0.00

Section 2400 Minor Concrete:

Subtotal: \$0.00

Section 2500 Gabions:

Subtotal: \$0.00

Section 8000 Miscellaneous:

Subtotal: \$0.00

Mobilization:

Construction - 3.84% of total Costs = \$80.19

Surfacing - 0.00% by rock volume = \$0.00

Subtotal: \$80.19

Quarry Development:

Based on 0.00% of total rock volume

Subtotal: \$0.00

Total: \$1,479.71

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Heppsie TS Sale Date: April 2012

Road Number: 37-3E-6.11 new Road Name:

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

| | |
|---|-------------------|
| 200 Clearing and Grubbing: 1.0 acres | \$1,385.05 |
| Clearing:15.7 sta Grubbing:1.0 acres | |
| Slash Treatment:1.0 acres | |
| 300 Excavation: 1,509 cy | \$5,323.33 |
| Haul: 1,759 sta-yds | |
| 400 Drainage: | \$580.64 |
| Culvert: 0 lf wt = 0 lbs factor = 1.2 | |
| DownSpout: 0 lf | |
| PolyPipe: 0 lf | |
| 500 Renovation: | \$0.00 |
| Surfacing: | \$0.00 |
| 1300 Geotextiles: | \$0.00 |
| 1400 Slope Protection: | \$0.00 |
| 1800 Soil Stabilization: 1.2 acres | \$604.76 |
| Includes Small Quantity Factor of 1.39 | |
| 1900 Cattleguards: | \$0.00 |
| 2100 RoadSide Brushing: 0.0 acres | \$0.00 |
| 2200 Surface Treatment: 0.0 tons | \$0.00 |
| 2300 Engineering: 15.70 sta. | \$487.64 |
| 2400 Minor Concrete: | \$0.00 |
| 2500 Gabions: | \$0.00 |
| 8000 Miscellaneous: | \$0.00 |
| Mobilization: Const. \$480.25 Surf. \$0.00..... | \$480.25 |
| Quarry Development: | \$0.00 |
| | Total: \$8,861.67 |

Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are COMPACTED in place cubic yards.

Road Construction Worksheet

Road Number: 37-3E-6.11 new Road Name:

Section 200 Clearing and Grubbing:

Clearing - Light: $\$15.08/\text{sta} \times 15.70 \text{ sta} = \236.76
Grubbing - Light: $\$389.65/\text{acre} \times 1.04 \text{ acres} = \405.24
Scatter: $\$714.48/\text{acre} \times 1.04 \text{ acres} = \743.06

Subtotal: \$1,385.05

Section 300 Excavation:

Excavation - Common: $\$1.71/\text{cy} \times 1,000 \text{ cy} = \$1,710.00$
Excavation - Rippable: $\$3.44/\text{cy} \times 509 \text{ cy} = \$1,750.96$
Subgrade Compaction: 4 Sta/hr $\$18.57/\text{sta.} \times 15.7 \text{ sta} = \291.55
Compaction - Common: $\$0.76/\text{cy} \times 1,509 \text{ cy} = \$1,146.84$
End Hauling - 100 to 500 ft: $\$0.14/\text{sta-yd} \times 1,759 \text{ sta-yd} = \246.26
Blading: $\$11.32/\text{station} \times 15.70 \text{ stations} = \177.72

Subtotal: \$5,323.33

Section 400 Drainage:

Construct Cross Drains
Backhoe 30 in 8 hr $\times \$72.58/\text{hr} = \580.64

Subtotal: \$580.64

Section 500 Renovation:

Subtotal: \$0.00

Surfacing:

Subtotal: \$0.00

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1800 Soil Stabilization:

Dry Method with Mulch: $\$503.96/\text{acre} \times 1.20 \text{ acres} = \604.76
Includes Small Quantity Factor of 1.39

Subtotal: \$604.76

Section 1900 Cattleguards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

Subtotal: \$0.00

Section 2200 Surface Treatment:

Subtotal: \$0.00

Section 2300 Engineering:

Both Sides Normal: $\$31.06/\text{sta} \times 15.70 \text{ sta} = \487.64

Subtotal: \$487.64

Section 2400 Minor Concrete:

Subtotal: \$0.00

Section 2500 Gabions:

Subtotal: \$0.00

Section 8000 Miscellaneous:

Subtotal: \$0.00

Road Number: 37-3E-6.11 ne. Continued

Mobilization:

Construction - 23.02% of total Costs = \$480.25

Surfacing - 0.00% by rock volume = \$0.00

Subtotal: \$480.25

Quarry Development:

Based on 0.00% of total rock volume

Subtotal: \$0.00

Total: \$8,861.67

| | | | |
|----------------------|--|--|--|
| 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 <i>duplicate</i> , to qualify for either an oral auction or sealed bid sale together with the required bid deposit made payable to the Department of the Interior – BLM. | 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.