P R O S P E C T U S

Lump Sum Sale

BUTTE FALLS RESOURCEAREA
JACKSON MASTER UNIT

Medford Sale # ORMO5- TS-2016.0012
May 26, 2016 (TG)

2 EIGHTY ACRE (5900) Jackson County, O&C

BID DEPOSIT REQUIRED: $ 61,800.00

All timber designated for cutting in Govt. Lot 3, Sec. 13, W½SW¼, SE¼SW¼, Sec. 24, NE¼, SE¼NW¼, NE¼SW¼, Govt. Lot 2, NW¼SE¼, Govt. Lot 3, 4, Sec. 26, SE¼SW¼, Sec. 34, W½NE¼, N½NW¼, SE¼NW¼, NE¼SW¼, S½SW¼, SE¼, Sec.35, T.34S., R.2E., Govt. Lot 3, SE¼SW¼, SW¼SE¼, Sec. 19, N½NE¼, SE¼NE¼, NW¼, N½SW¼, Sec. 29, Govt. Lot 1, Lot 2, SE¼NE¼, Govt. Lot 3, Lot 4, Lot 5, Lot 6, Lot 7, NE¼SE¼, Sec 31, T34S., R3E., Govt. Lot 4, Lot 5, Lot 8, NW¼SW¼, Lot 9, Lot 7, Govt. Lot 10, Sec. 1, Govt. Lot 2, Lot 7, Govt. Lot 3, Lot 4, Lot 6, Lot 11, Lot 12, Govt. Lot 9, Lot 10 Sec. 3, T35S., R2E., Willamette Meridian.

Approx. Number Merch. Trees	Est. Volume MBF 32' Log	Species	Est. Volume MBF 16' Log	Appr. Price Per MBF*	Est. Volume Times Appraised Price
16,958	2,506	Douglas-fir	3,027	$166.40	$503,692.80
9,060	1,728	White Fir	2,150	$37.90	$81,485.00
1,900	122	Incense-cedar	149	$193.70	$28,861.30
780	94	Ponderosa Pine	118	$26.90	$3,174.20
42	10	Sugar Pine	13	$26.00	$338.00
28,740	**4,460**	**Totals**	**5,457**		**$617,551.30**

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

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

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

The sampling method for DF, WF, IC, and PP was 3P sampling in all units. SP was 100% cruised.

With respect to merchantable trees of all conifer species: the average tree is 14.4 inches DBHOB; the average gross merchantable log contains 57 bd. ft.; the total gross volume is approximately 6518 M bd. ft; and 85% recovery is expected (Average DF is 14.0 inches DBHOB; average gross merchantable DF log contains 53 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 nine (29) units containing seven hundred and fifty (749) acres must be thinned, and six (6) right of way acres must be clear-cut for temporary road and helicopter landing construction.

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

ACCESS - Access to the sale area is available via public roads, via existing BLM roads; via Right-of-Way and Road Use Agreement M-2000D with Juniper Properties, LLC; via Right-of-Way and Road Use Agreement M-2000E with Indian Hill, LLC; via Right-of-Way and Road Use Agreement M-2000D with Juniper Properties, LLC; via Right-of-Way M-2000F with Plum Creek Timberlands, LP. Among other conditions, agreement M-2000D with Juniper Properties, LLC requires completion of a license agreement between the Purchaser and Juniper Properties, LLC a road use obligation of $2,068.86, road maintenance to be performed by the Purchaser or BLM, and payment of a surface replacement fee of $100.44. Among other conditions, agreement M-2000E with Indian Hill, LLC requires completion of a license agreement between the Purchaser and Indian Hill, LLC, road maintenance to be performed by the Purchaser or BLM, and payment of a surface replacement fee of $414.25. Among other conditions, agreement M-2000F with Plum Creek Timberlands, LP requires completion of a license agreement between the Purchaser and Plum Creek Timberlands, LP, road maintenance to be performed by the Purchaser or BLM, and payment of a surface replacement fee of $118.55.

ROAD MAINTENANCE - The Purchaser will be required to maintain approximately 11.44 miles of existing BLM and private control roads as described in Section 42, RC-2a (C)(5). The BLM will maintain approximately 14.73 miles of existing BLM and private control roads as described in Section 42, RC-2 (C)(4).

ROAD CONSTRUCTION – The contract will require the Purchaser to construct 0.32 miles of temporary roads.

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

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

SLASH DISPOSAL - Perform logging residue reduction and site preparation work on approximately four hundred (400) acres of harvest area as directed by the Authorized Officer.

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

1. Comply with the Endangered Species Act, or;
2. Comply with a court order, or;
3. Protect species which were identified for protection through survey and manage and/or protection buffer standards and guidelines established in the ROD and RMP.

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

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

OTHER –

1. No extension of time beyond the normal 30 days will be granted for completing bonding and contract signing requirements.
2. Various seasonal restrictions are placed on this sale.

3. There are log length restrictions within some units (see section 42 Special Provisions).
4. Directional falling is required.
5. Cleaning of equipment to eliminate noxious weed seeds is required prior to move-in of equipment onto federal lands.
6. Designated skid roads are required on all tractor units.
7. Ripping of all newly constructed temporary spur roads and helicopter landings is required.
8. Dust abatement is required.
9. Purchaser should be aware that logging residue reduction costs listed under SD-5 are in addition to costs assessed under SD-4. Refer to the appraisal for total assessed costs of logging residue reduction.
10. Purchaser will need to protect and not disturb the buried utility lines along road 32-1-33.1

NARRATIVE DESCRIPTION OF HOW TO GET TO THE TIMBER SALE AREA

South Eighty Acre Creek sale area:
From the junction of Butte Falls-Prospect Highway and Fredenburg Road proceed north on the Butte Falls-Prospect Highway for approximately 3.5 miles to the 34-3E-31.1 road. Turn left on to the 34-3E-31.1 road to access units in section 31.

North Eighty Acre Creek sale area:
From the junction of Butte Falls-Prospect Highway and BLM road 34-3E-31.1 road, proceed north for approximately 1 mile to the 34-3E-29.0 road. Turn left to access units in the north Eighty Acre Timber sale area.

Fredenburg Butte sale area:
From the town of Butte Falls Oregon, proceed east on the Butte Falls-Fish Lake Highway for approximately 0.5 miles to the Butte Falls-Prospect Highway. Turn left onto the Butte Falls-Prospect Highway and follow for approximately 1/2 mile to Fredenburg Road. Turn left to access the west half of the sale area.

ENVIRONMENTAL ASSESSMENT – The environmental assessment (DOI-BLM-OR M050-2014-0010-EA) was prepared for this sale, and a Finding of No Significant Impact has been documented for each environmental assessment. These documents are available for inspection as background for this sale at the Medford District Office.

EIGHTY ACRE
SPECIAL PROVISIONS

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

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

(A) AR-1 All timber on the Reserve Area(s) as shown on Exhibit A and all orange painted and posted trees which are on or mark the boundaries of the Reserve Area(s).

(B) IR-1 Approximately twenty two thousand eight hundred and thirty seven (22,837) trees marked with yellow paint in units19-2, 24-1, 26-1, 26-3, 26-4, 29-2, 31-2, 31-3, 31-4, 31-5, 31-6, 31-7, 31-8, 35-1, 35-2, 34-1, 3-1, and 3-3, as shown on exhibit A.

(C) IR-1 Approximately four hundred seventy six (476) trees marked with orange paint in units 1-3, and 13-1, as shown on exhibit A.

(D) IR-2 All timber except approximately four thousand two hundred and forty four (4244) trees marked for cutting heretofore by the Government with blue paint above and below stump height in units 19-1, 26-2, 26-5, 29-1, 31-1, 35-3, 35-4, 35-5, 1-2, as shown on Exhibit A.

(E) IR-5 All young growth conifers less than eight (8) inches in diameter D.B.H.O.B. not damaged in the normal course of logging in all units as shown on Exhibit A.

(F) IR-6 All hardwood and Yew trees in all units as shown on Exhibit A.

(G) IR-6 All non-hazardous snags in all units as shown on Exhibit A. Any felled hazard snags must remain where felled or as directed by the authorized officer.

(H) IR-6 All pre-existing dead and down wood in all units as shown on Exhibit A

(I) IR-8 All standing timber except trees located within painted and posted road or landing right-of-way clearing limit boundaries as shown on Exhibit A.

Section 42

(A) Log Exports

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

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

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

(a) Date of last export sale.

(b) Volume of timber contained in last export sale.

(c) Volume of timber exported in the past twelve (12) months from the date of last export sale.

(d) Volume of Federal timber purchased in the past twelve (12) months from the date of last export sale.

(e) Volume of timber exported in succeeding twelve (12) months from date of last export sale.

(f) Volume of Federal timber purchased in succeeding twelve (12) months from date of last export sale.

In the event the Purchaser elects to sell any or all of the timber sold under this contract in the form of unprocessed timber, the Purchaser shall require each party

buying, exchanging, or receiving such timber to execute a Form 5460-16 (Certificate as to Nonsubstitution and the Domestic Processing of Timber). The original of such certification shall be filed with the Authorized Officer. Additionally, when the other party is an affiliate of the Purchaser, the Purchaser will be required to update information under item (2) of Form 5450-17 (Export Determination) and file the form with the Authorized Officer.

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

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

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

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

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

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

(B) Logging

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

(2) L-3 In units 29-1, and 31-8, as shown on Exhibit A, all trees designated for cutting within 100 feet of the centerline of Butte Falls-Prospect Highway (HWY 992) shall be cut so that the resulting stumps shall not be higher than six (6) inches measured from the ground on the uphill side of the tree with the angle of the cut facing away from the road.

(3) L-6 In all tractor units, (except unit 19-2), as shown on Exhibit A, all trees twenty one (21) inches D.B.H.O.B. and smaller designated for cutting shall be felled and yarded to approved landing locations either whole tree, or as log segments (segment length not to exceed forty-four (44) feet) If excessive stand damage occurs from whole tree yarding as determined by the authorized officer, bucking and/or limbing will be required.
In unit 19-2 all logs yarded to the log landing along the 34-3E-29.1 (section 30.T34S, R03E) road shall be yarded pre-limbed and without tops attached. This landing area which is located on private property will need to be used for log decking and loading only, as per the agreement with the landowner. Landing improvements will need to be confined within the painted and posted clearing limit boundaries and no slash pile shall be constructed at this landing site.

(4) L-6 In all tractor units as shown on Exhibit A, all trees over twenty one (21) inch D.B.H.O.B. designated for cutting shall be felled and cut into log lengths not to exceed forty-four (44) feet and be completely limbed prior to being yarded

(5) L-6 In all skyline units as shown on Exhibit A, all trees designated for cutting shall be felled and cut into log lengths not to exceed forty-four (44) feet and be completely limbed prior to being yarded.

(6) L-6 In all helicopter units as shown on Exhibit A, all trees designated for cutting shall be felled and yarded to approved landing locations either whole tree, or as log segments. If excessive stand damage occurs from whole tree yarding as determined by the authorized officer, bucking and/or limbing will be required.

(7) L-7MC Yarding on the areas designated herein and shown on Exhibit A shall be done in accordance with the yarding requirements or limitations for the designated area.

Designated Area	Yarding Requirements or Limitations
Tractor Units 1-2, 1-3, 3-3, 13-1 19-1, 19-2, 24-1 26-1, 26-2, 26-4 29-1, 29-2, 31-1 31-2, 31-3, 31-4 31-5, 31-7, 31-8 34-1, 35-1, 35-3 35-4, 35-5	Yarding tractor width will not be greater than twelve (12) feet as measured from the outer edges of the standard width dozer blade in the straight position, or nine (9) feet as measured from the outer edges of standard width track shoes. Yarding tractors will be equipped with integral arches and winch systems capable of lining logs at least seventy five (75) feet. Wherever trees are cut to be removed, directionally fell trees away from dry draws and irrigation ditches. Fell trees toward skid trails. Protect irrigation ditches in the project area from damage and keep free of activity slash. Once soil moisture exceeds 25%, ground-based operations may only occur when snow depth is at least 18 inches. In the condition where snow is present but soil moisture is below 25%, ground-based operations may occur. Stop ground-based harvest if rutting begins to occur within the unit or when soil moisture exceeds 25%. Designate skid trails at an average of one hundred and fifty (150) foot spacing in order to minimize ground disturbance. The location of the tractor skid roads must be clearly designated on the ground, at locations approved by the Authorized Officer. Use existing skid trails to the extent possible. Where new skid trails are necessary, limit the extent to minimize the impact. No front-end loaders are permitted. No yarding up or down draw bottoms is permitted. Restrict tractor and mechanical operations to slopes generally less than 35%. In areas where it is necessary to exceed these gradients to access adjacent tractor area, use ridge tops where possible. The use of ground based equipment on unstable areas within units is not permitted. Mechanized felling equipment must have an arm capable of reaching at least 20 feet.

	No tractor yarding is permitted when soil moisture content at six (6) inch depth exceeds twenty five (25) percent by weight as determined by the oven dry method. Yarding and mechanical harvesting will be further limited in accordance with Section 25 if detrimental soil damage is occurring, as determined by the authorized officer. In order to restrict the amount of compacted soil to less than 12% in a timber harvest unit: □ allow mechanized equipment capable of creating and walking on slash (such as a cut-to-length system) to work off designated skid trails for 1 or 2 passes on at least 8 inches of slash and under dry soil conditions (less than 25% soil moisture content), □ allow mechanized equipment (feller-buncher systems) to work off designated skid trails during the dry season (soil moisture content less than 15%) for 1 or 2 passes only (one round-trip), □ space the 1 to 2-pass harvest trails a minimum of 50 feet apart off of designated skid trails, □ use low, ground-pressure equipment (8 psi or less), □ restrict all other use of ground-based equipment to designated skid trails, and □ stop the use of forwarding trails if logging equipment is causing continuous mineral soil displacement greater than 2 inches deep for a distance of 20 feet, a change of soil structure/compaction indicators at depths greater than 2 inches, or as determined by the Authorized Officer. 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. Log landing size shall not exceed one-quarter (¼) acre.
Special Yarding Area – Equipment Exclusion Zone Units 19-2, 34-1	Yarding corridors will be perpendicular to the contours. No tractor operations are permitted within the special yarding areas located within these units as shown on Exhibit A. Equipment used in these units must be capable of lining logs approximately 150 ft. in order to remove logs Logs will be cable yarded (bull-lined). No suspension of logs is required.

	Standing timber to be felled shall be quartered to the roads. Tractors may be used in units on slopes less that 35% as determined by the Authorized Officer. The yarding requirements or limitations for the tractor yarding portion of Section 41(B)(6) must be followed.
Special Yarding Area – Equipment Use Restriction Units 31-4	Ground based skidding in these areas shall be perpendicular to the contours and favorable (safety permitting) utilizing existing skids where possible. The westside special yarding area does not have existing skid trails aligned in a favorable direction so new skids are expected. The eastside special yarding area has some skid trails aligned favorably which should be used if possible. New skids may also be needed as well. In both special yarding areas material yarded shall be skidded in a downhill direction (to minimize the possibility of rutting) to the pre-existing skid trails as shown on exhibit A and back to the landing area. This will be an adverse skid up the ridge.
Skyline Units 26-3, 26-5	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. A carriage which will maintain a fixed position on the skyline during lateral yarding and has a minimum lateral yarding capability of seventy-five (75) feet is required. Prior to marking or falling any timber in the unit, all yarding corridors, tail/lift trees and/or intermediate support trees shall be identified by the purchaser and approved by the authorized officer. Wherever trees are cut to be removed, directionally fell trees away from dry draws and irrigation ditches. Fell trees toward skid trails. Protect irrigation ditches in the project area from damage and keep free of activity slash. Existing cable corridors shall be used whenever possible. Corridors shall be spaced approximately one hundred fifty (150) feet apart, measured at the tailholds. The width of the skyline corridors shall be as narrow as operationally feasible. The maximum width will be fifteen [15] feet Immediately after use, construct water bars by hand, and pull available slash into cable yarding corridors where gouging of mineral soil occurs for a continuous distance of 20 feet or more, as directed by the Authorized Officer.

	Apply native seed and certified weed-free straw mulch to the top 20 feet of the skyline-cable yarding corridor where yarding logs to the road results in extended soil exposure. No downhill yarding is allowed Log landing size shall not exceed one-quarter (¼) acre.
Helicopter Units 3-1, 31-6, 35-2,	All yarding will be done with an aerial system. Service landing pads and log landing pads can be constructed with prior approval of the Contract Administrator and shall not be larger than necessary. Log landing size shall not exceed one (1) acre and all landings are to be approved by the Authorized Officer prior to construction. A dropline with a minimum length of one hundred fifty (150) feet is required. Logs to be yarded will be lifted vertically to a height above the adjacent leave trees without horizontal movement. When operationally feasible, yard all units in such a way that the coarse woody material remaining after logging will be maintained at or greater than current levels in order to protect the soil surface (riparian reserve areas only). Wherever trees are cut to be removed, directionally fell trees away from dry draws and irrigation ditches. Protect irrigation ditches in the project area from damage and keep free of activity slash. All multiple log turns will be vertically lifted from a small enough radius to result in minimal damage to the residual forest stand as determined by the Authorized Officer. The purchaser may negotiate, in good faith, with adjacent landowners to build/use helicopter landings on private land. All aerial operations within 0.5 miles of any residence will be restricted to an operating time of 6:00 am to 6:00 pm Monday thru Friday.

(8) L-9 No yarding or loading is permitted in or through plant sites, mollusk sites, or protected sites, shown on Exhibit A.

(9) L-9 All equipment and vehicles using road 35-2E-2.3 across the meadow area as shown on exhibit A (section 34, T34S, R02E, and section 3, T35S, R02E) will be restricted to the existing roadbed or landings.

(10) L-11 No temporary spur roads, or new landings, shall be located within riparian reserves, wet areas, or 100 acre northern spotted owl activity centers. Landing or temporary route construction will be located away from unstable soil conditions and headwalls.

(11) L-18 No ground based yarding, mechanized equipment use, and soil ripping operations shall be conducted between October 15 of one calendar year and May 15 of the following calendar year both days inclusive unless soil moisture is less than 25 percent when sampled at a 6 inch depth as determined by Authorized Officer.

(12) L-18 No feller buncher system operations shall be conducted between October 15 of one calendar year and May 15 of the following calendar year both days inclusive unless soil moisture is less than 15 percent when sampled at a 6 inch depth as determined by Authorized Officer.

(13) L-18 Restrict all timber hauling, rock hauling, and landing operations on all natural surfaced or rocked roads whenever soil moisture conditions or rain events could result in road damage or the transport of sediment to nearby stream channels (generally October 15 of one calendar year to May 15 of the following calendar year, both days inclusive). If the Authorized Officer determines that hauling would not result in road damage or the transport of sediment to nearby stream channels based on soil moisture conditions or rain events, the Contracting Officer may approve a conditional waiver for hauling. If soil moisture conditions or rain events are anticipated to cause unacceptable impacts to roads or stream water quality, as determined by the Authorized Officer, the waiver will be revoked.

(14) L-18 No road construction, landing construction, road re-construction or renovation, culvert removal culvert replacement, road decommissioning, or road closure work, shall be conducted within the contract area between October 15 of one calendar year and May 15 of the following calendar year, both days inclusive.

(15) L-18a No timber falling/bucking, log yarding, Helicopter operations, log processing/log loading, soil ripping/seeding/mulching, roadside brushing, shall be conducted in units 26-1, 26-4, 24-1, 29-2 between March 1 and September 30, both days inclusive. This restriction will not apply if it can be shown from spotted owl surveys conducted in accordance with accepted standards that spotted owl nesting and/or fledgling activities are not occurring during the year of harvest.

(16) L-18a No site preparation with chainsaws and/or prescribed burning shall be conducted in units 26-1, 26-4, 24-1, 29-2, between March 1 and September 30, both days inclusive. This restriction will not apply if it can be shown from spotted owl surveys conducted in accordance with accepted standards that spotted owl nesting and/or fledgling activities are not occurring during the year of harvest.

(17) L-18a No timber falling/bucking, log yarding, helicopter operations, log processing/log loading, soil ripping/seeding/mulching, roadside brushing, shall be conducted in unit 1-2 between March 1 and August 30, both days inclusive. This restriction may be waived if it can be shown from raptor surveys conducted in accordance with accepted standards that raptor nesting and/or fledgling activities are not occurring during the year of harvest.

(18) L-18a No site preparation with chainsaws and/or prescribed burning shall be conducted in unit 1-2 between March 1 and August 30, both days inclusive. This restriction may be waived if it can be shown from raptor surveys conducted in accordance with accepted standards that raptor nesting and/or fledgling activities are not occurring during the year of harvest.

(19) L-20 During logging operations, the operator shall keep the Butte Falls-Prospect Highway (HWY 992) where it passes through the contract area clear of trees, rock, dirt, and other debris to allow for vehicle traffic. This road shall not be blocked at any time. In addition, to these requirements, this road shall have warning signs displayed a minimum of 300 feet in advance of the logging operation along all roads which pass through the logging operation. Warning Signs must be worded to describe the hazard, type of operation, or action to be taken which will alert oncoming traffic to the logging operation and/or dangers ahead. Warning sign size, color, and shape must comply with OR-OSHA applicable rules and guidelines.

(20) L-21 The purchaser shall provide appropriate signs and flaggers to control traffic on Butte Falls-Prospect Highway (HWY 992) where it passes through the contract area whenever falling operations occur within two hundred (200) feet of the highway.

(21) L-24 Prior to the commencement of operations, the Purchaser shall obtain from the Authorized Officer written approval of a written operations and logging plan commensurate with the terms and conditions of the contract which shall include measures needed to assure protection of the environment and watershed. A pre-work conference between the Purchaser's authorized representative and the Authorized Officer's representative must be held at a location designated by the Authorized Officer before the logging plan will be approved. All logging shall be done in accordance with the plan developed by this provision.

(22) L-26 In the contract area shown on Exhibit A, all trees designated for cutting which are within one hundred ninety (190) feet of the unit boundary shall be felled way from the unit boundary. The Purchaser shall notify the Authorized Officer three (3) days before beginning felling operations in the above area(s).

(23) L-26 In units 29-1 and 31-8 as shown on Exhibit A, all trees designated for cutting which are within two hundred (200) feet of the Butte Falls-Prospect Highway (HWY 992) shall be felled away from the highway. The Purchaser shall notify the Authorized Officer three (3) days before beginning felling operations in the above area(s).

(24) L-26 In the contract area shown on Exhibit A, all trees designated for cutting which are within one hundred ninety (190) of a private property line shall be felled away from the private property line. The Purchaser shall notify the Authorized Officer three (3) days before beginning felling operations in the above area(s).

(25) L-26 In the contract area shown on Exhibit A, all trees designated for cutting which are within one hundred ninety (190) of the corner monument shall be felled away from the corner monument. The Purchaser shall notify the Authorized Officer three (3) days before beginning felling operations in the above area(s).

(26) L-26 In the contract area shown on Exhibit A, all trees designated for cutting which are within one hundred ninety (190) feet of any plant site, mollusk site, protected site, or reserve area boundary as shown on Exhibit A shall be felled away from the painted and posted boundary. The Purchaser shall notify the Authorized Officer three (3) days before beginning felling operations in the above area(s).

(27) L-29 In all skyline units as shown on Exhibit A, the Purchaser shall make cable yarding road changes by completely spooling the cables and restringing the layout from the head spar to the new tail hold to protect advance reproduction and/or reserve trees and snags present on these areas.

(28) L-33 In accordance with the requirements of Sec. 8 of the contract it has been determined that it is in the best interest of the Government and within the provisions of 43 CFR 5402.0-6 to sell additional timber located in or adjacent to all units as shown on Exhibit A, which is obstructing needed cable yarding roads, ground based yarding skid roads, hazardous to workers, needed for guyline, tailhold, and/or tieback trees, or severely damaged from the normal conduct of felling or yarding operations to meet all applicable State safety laws, codes or regulations. This timber must be cut or removed so that the Purchaser can continue active falling and yarding operations. The Purchaser is, therefore, authorized to cut and remove such additional timber in accordance with the provisions of Section 8 of the contract: provided, however, that:

(a) Trees reserved for the tree improvement program and trees reserved for the wildlife habitat objectives under Sec. 41 of the contract are not included in the authorization.

(b) The Purchaser shall identify each tree sold and cut in accordance with the provision by marking the cut surface of the stump immediately after falling with a large "X". The "X" shall be cut with a chain saw. The stump shall be marked by hanging red fluorescent flagging near the stump so that the stump can be visually located from a distance of not less than one hundred (100) feet.

(c) The volume and price for such timber shall be determined by the Authorized Officer in accordance with Bureau of Land Management prescribed procedures and paid for by the Purchaser in accordance with Sec. 3(a) or 3(c) of the contract as required by Sec. 8 of the contract.

(d) No timber may be cut or removed under the terms of this provision if all contract payments required by Sec. 3(a) or 3(c) of the contract have been made.

(e) The permission to cut and remove additional timber contained in this provision may be withdrawn by the Contracting Officer if the Authorized Officer determines that the Purchaser:

1. Failed to properly mark any stump with the "X" cut.
2. Failed to identify the location of any stump.
3. Cut any tree that was reserved for tree improvement and/or wildlife habitat.
4. Cut any tree in or adjacent to cable yarding corridors that was not necessary to facilitate cable yarding.
5. Cut any reserve tree in or adjacent to tractor skid roads that was not necessary to facilitate ground based yarding.
6. Failed to properly segregate any pulled over tree that was yarded to the landing.
7. Cut any reserve tree that was not severely (as defined during the prework conference and documented in the approved logging plan) damaged from felling and yarding operations.
8. Cut more than the minimum number of trees necessary to properly serve as guyline anchor stumps.
9. Cut or topped more than the minimum number of trees necessary to properly serve as tailhold trees.
10. Cut more than the minimum number of trees necessary to properly serve as tie-backs for topped tailhold trees.
11. Failed to maintain accurate and current (no more than 24 hours old) documentation of cut and removed timber.

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

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

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

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

(C) Road Construction - Maintenance – Use

(1) RC-1a The Purchaser shall construct, improve and/or renovate all roads and other structures in strict accordance with the plans and specifications shown on Exhibit C, which is attached hereto and made a part hereof.

(2) RC-1b Prior to removal of any timber, except right-of-way timber, the Purchaser shall complete all construction, improvement, or renovation of structures and roads as specified in Exhibit C.

(3) RC-1f Upon completion of all logging activities, the Purchaser shall rip the entire roadway of all Temp Routes and system roads per the road maintenance worklist (Exhibit D-3) and as shown on the Exhibit D-4 Road Maintenance Maps. All newly constructed landings, per the road renovation and improvement worklist (Exhibit C-14) and as shown on the Road Renovation Maps (Exhibit C-2) and the road maintenance worklist (Exhibit D-3) shall be scarified in strips of not less than twenty-four (24) inches or more than twenty-eight (28) inches in width to a minimum depth of eighteen (18) inches, provided that no scarification shall be required where the road traverses rock outcroppings. All natural water courses shall be opened to prevent erosion of the roadways. Barriers shall be constructed so as to prevent further use of the road by vehicles.

(4) RC-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, Plum Creek Timberlands LP, Indian Hill LLC, Juniper Properties LLC, for the removal of Government timber sold under the terms of this contract provided that the Purchaser pay the required maintenance obligations described in Section 42(C)(7). 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
34-2E-24.01	0.05	BLM	PRR
34-2E-24.05	0.62	BLM	PRR
34-2E-26.00	0.40	BLM	PRR
34-2E-26.01	0.34	BLM	ASC
34-2E-26.07	0.11	BLM	NAT
34-2E-35.01A	0.19	BLM	ASC
34-2E-35.01B	0.08	Juniper Properties	ASC
34-2E-35.01C	1.28	Juniper Properties	ASC
34-2E-35.01D1	0.70	Juniper Properties	ASC
34-2E-35.01D2	0.33	Juniper Properties	ASC
34-2E-35.01E	0.30	Plum Creek	ASC
34-2E-35.02A	0.53	BLM	ASC
34-3E-19.03A	0.19	Plum Creek	ASC
34-3E-28.00A1	0.09	Juniper Properties	PRR
34-3E-28.00A2	0.05	Plum Creek	PRR
34-3E-29.01A	0.66	BLM	ASC
34-3E-29.01B1-B2	0.28	Indian Hill	ASC
34-3E-29.01C	0.12	BLM	ASC
34-3E-29.01D	0.27	Indian Hill	ASC
34-3E-29.01E	0.62	BLM	ASC
34-3E-29.01F	0.44	Plum Creek	ASC
34-3E-29.01G	0.60	BLM	ASC
34-3E-29.02	0.44	BLM	ASC

34-3E-30.00A	0.03	Indian Hill	PRR
34-3E-30.00B	0.35	Plum Creek	PRR
34-3E-31.00	0.10	BLM	PRR
35-2E-2.00	5.56	BLM	ASC

(5) RC-2a The Purchaser is authorized to use the roads listed below and shown on Exhibit D-2 which are under the jurisdiction of the Bureau of Land Management, Plum Creek Timberlands LP, and Indian Hill LLC for the removal of Government timber sold under the terms of this contract provided that the Purchaser comply with the conditions set forth in Section 42(C)(11) and pay the required rockwear obligation described in Section 42(C)(10). The Purchaser shall pay current 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
34-2E-13.04	0.16	BLM	ASC
34-2E-13.06	0.28	BLM	NAT
34-2E-24.07A	0.37	Plum Creek	ASC
34-2E-24.07B	0.17	BLM	ASC
34-2E-35.02B	0.64	BLM	NAT
34-3E-19.01	0.21	BLM	PRR
34-3E-35.03	0.63	BLM	PRR
34-3E-35.04	0.10	BLM	NAT
34-3E-35.06	0.41	BLM	PRR
34-2E-35.09	0.10	BLM	NAT
34-3E-21.03C	0.20	Plum Creek	PRR
34-3E-31.01	0.95	BLM	ASC
34-3E-31.02	0.94	BLM	ASC
34-3E-31.04	0.26	BLM	PRR
34-3E-31.05	0.13	Indian Hill	NAT
34-3E-31.06A	0.12	BLM	PRR
34-3E-31.06A1	0.15	BLM	NAT
34-3E-31.07	0.05	BLM	GRR
35-2E-1.02	0.57	BLM	NAT
35-2E-2.01A	0.39	Indian Hill	PRR
35-2E-2.01B	0.21	BLM	PRR

35-2E-2.02	0.45	Indian Hill	PRR
35-2E-2.03A	0.95	Indian Hill	PRR
35-2E-2.03B	0.78	BLM	NAT
35-2E-3.01	0.22	BLM	NAT
35-2E-11.00A	0.63	Indian Hill	ABC
35-2E-11.00B1-B2	1.37	BLM	ABC

(6) RC-2b With the prior written approval of the Authorized Officer, the Purchaser may arrange for cooperative maintenance with other users on roads included in Section 42(C)(5)_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.

(7) RC-2c The Purchaser shall pay the Government a road maintenance obligation in the amount of **seven thousand nine hundred forty two and 44/100 dollars ($7,942.44)** for the transportation of timber included in the contract price and for the transportation of any mineral material required under the terms of the contract over road or roads listed in Section 42(C)(4).

The above road maintenance amount is for use of 14.73 miles of road or less. Unless the total maintenance amount is paid prior to commencement of operations on the contract area, payments shall be made in installments of not less than five hundred and no/100 dollars ($500.00); payable in the same manner as and together with payments required in Sec. 3 of this contract.

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

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

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

Section 42(C)(7) and Section 42(C)(10) of this contract shall be amended to include adjustments of fee obligations.

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

(10) RC-2g The Purchaser shall also pay to the Government a road maintenance obligation for rockwear in the amount of **seven hundred seventy eight and 34/100 dollars ($778.34)** for the transportation of timber included in the contract price and for transportation of any mineral material required under terms of the contract over road or roads listed in Section 42(C)(5). The amount of the rockwear shown above shall be paid prior to removal of timber from the contract area; provided, however, that if the total of such amount exceeds five hundred and no/100 dollars ($500.00), the Purchaser may elect to make the payment in installments in the same manner as and together with payments required in Section 3 of this contract.

(11) RC-2h Except for road maintenance in accordance with Section 42(C)(12), (C)(13), and (C)(14), the Purchaser shall perform any required road repair and maintenance work on roads used by him, under the terms of Exhibit D, "Road Maintenance Specifications," of this contract, which is attached hereto and made a part hereof.

(12) RC-3 In the use of road No.s 34-2E-35.01B-D2 and 34-3E-28.00A1 the Purchaser shall comply with the conditions of Right-of-Way and Road Use Agreement No. M-2000D between the United States of America and Juniper Properties, LLC. These conditions include: Payment to Juniper Properties, LLC, a road use obligation of **two thousand sixty eight and 86/100 dollars ($2,068.86)** and a rockwear obligation of **one hundred and 44/100 dollars ($100.44)** payable at the time indicated in the license agreement. This document is available for inspection at the Bureau of Land Management, Medford Interagency Office, 3040 Biddle Road, Medford, Oregon 97504. Prior to the use of said roads, the Purchaser shall furnish the Authorized Officer a copy of the executed License Agreement. Default by the Purchaser of said Right-of-Way and Road Use Agreement, or any License Agreement executed pursuant thereto, for failure to pay appropriate road use fees shall be considered a violation of this contract. The amount of unpaid fees shall be considered as the amount of damage suffered by the Government as a result of the violation of this provision.

(13) RC-3 In the use of road No.s 34-3E-29.01B1, B2, D, 34-3E-30.00A, 35-2E-2.02A, 35-2E-2.03A and 35-2E-11.00A the Purchaser shall comply with the conditions of Right-of-Way and Road Use Agreement No. M-2000E between the United States of America and Indian Hill, LLC. These conditions include: Payment to Indian Hill, LLC, a rockwear obligation of **four hundred fourteen and 25/100 dollars ($414.25)** payable at the time indicated in the license agreement. This document is available for inspection at the Bureau of Land Management, Medford Interagency Office, 3040 Biddle Road, Medford, Oregon 97504. Prior to the use of said roads, the Purchaser shall furnish the Authorized Officer a copy of the executed License Agreement. Default by the Purchaser of said Right-of-Way and Road Use Agreement, or any License Agreement executed pursuant thereto, for failure to pay appropriate road use fees shall be considered a violation of this contract. The amount of unpaid fees shall be considered as the amount of damage suffered by the Government as a result of the violation of this provision.

(14) RC-3 In the use of road No.s 34-2E-24.07A, 34-2E-35.01E, 34-3E-19.03A, 34-3E-21.03C, 34-3E-28.00A2, 34-3E-29.01F, 34-3E-30.00B and 35-2E-2.01D the Purchaser shall comply with the conditions of Right-of-Way and Road Use Agreement No. M-2000F between the United States of America and Plum Creek Timberlands, LP. These conditions include: Payment to Plum Creek Timberlands, LP, a rockwear obligation of **one hundred eighteen and 55/100 dollars ($118.55)** payable at the time indicated in the license agreement. This document is available for inspection at the Bureau of Land Management, Medford Interagency Office, 3040 Biddle Road, Medford, Oregon 97504. Prior to the use of said roads, 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.

(15) RC-3d The Purchaser agrees that if they elect to use any other private road which is the subject of a right-of-way agreement with the Government for the removal of Government timber sold under the terms of this contract, the Purchaser shall request and agree to the modification of this contract to provide for such use and for allowances for amortization of the Government's share of the capital investment of any such road.

(16) RC-7 Prior to cutting or removing any timber from the landing construction along the 34-3E-29.01 road, the Purchaser shall pay to Indian Hill, LLC, the owner of the right-of-way timber, the total value of that timber, as shown below, based upon the indicated estimated volume and species price per unit used in the Government's contract as set forth in Exhibit B.

Species	Estimated Volume – M bd. ft.	Price per Unit	Estimated Volume Times Unit Price
Douglas Fir	0.10		
Incense Cedar	0.70		
Total	**0.80**		

(17) RC-7 Prior to cutting or removing any timber from the temp spur off of the 34-2E-35.01E road, the Purchaser shall pay to Plum Creek Timberlands LP, the owner of the right-of-way timber, the total value of that timber, as shown below, based upon the indicated estimated volume and species price per unit used in the Government's contract as set forth in Exhibit B.

Species	Estimated Volume – M bd. ft.	Price per Unit	Estimated Volume Times Unit Price
Douglas Fir	1.90		
White Fir	0.40		
Incense Cedar	0.40		
Total	**2.70**		

(18) 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 In addition to the requirement set forth in Sec. 26 of this contract, the Purchaser shall prepare a Spill Prevention, Control, and Countermeasure Plan for all hazardous substances to be used in the contract area. Such plan shall include identification of Purchaser's representatives responsible for supervising initial containment action for releases and subsequent cleanup. In addition, such plan shall follow all applicable State of Oregon Department of Environmental Quality guidelines for spill prevention and containment of petroleum products (Oregon Administrative Rules, Chapter 340, Department of Environmental Quality, Division 142, Oil and Hazardous Materials Emergency Response Requirements).

(2) E-1 In addition to the requirement set forth in Sec. 26 of this contract, the Purchaser shall furnish absorbent pads which will be on site and will be deployed in case any toxic materials are spilled near waters.

(3) E-1 In addition to the requirement set forth in Sec. 26 of this contract, the Purchaser shall not store, or cause to have stored, any fuel or other petroleum products inside any riparian reserve area. All petroleum products shall be stored in durable containers and located so that any accidental release will be contained and not drain into any stream system. Refueling of equipment shall be done outside of riparian reserve areas.

(4) E-1 In addition to the requirement set forth in Sec. 26 of this contract, the Purchaser shall only be allowed to use logging, construction, rock crushing, brushing chipping, shredding or grinding and/or transportation equipment that is free of noxious weed seeds prior to entering federal lands in the contract area as shown on Exhibit A.

If equipment is not considered free of noxious weed seeds by the Government, it shall be cleaned prior to entering federal lands. Cleaning shall be defined as removal from all surfaces including the under carriage any dirt, grease, plant parts, and material that may carry noxious weed seeds onto federal lands. Cleaning prior to entering federal lands may be accomplished by using a pressure hose.

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

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

(5) E-1 In addition to the requirement set forth in Sec. 26 of this contract and as directed by the Authorized Officer, the Purchaser shall construct barricades on all pre-designated skid trails, temporary roads and reconstruction roads, and at any location where an existing barricade has been removed to provide access to units as shown on exhibit A. Barricades shall be in place by October 15 of each calendar year. If hauling on a temporary route is not completed in the same year the route is constructed, the route will be storm-proofed and blocked by October 15 or when soil moisture exceeds 25%.

(6) E-1 In addition to the requirement set forth in Sec. 26 of this contract and as directed by the Authorized Officer, the Purchaser shall barricade and place woody debris or other appropriate barriers (e.g. rocks, logs, and slash) on the first 100 feet of skid trails leading off system roads in all ground-based yarding units upon completion of yarding.

(7) E-1 In addition to the requirement set forth in Sec. 26 of this contract, the Purchaser shall construct road barricades as specified on Exhibit C, at locations where an existing barricade has been removed to provide for harvest access. Barricades shall be in place by October 15 of each calendar year.

(8) E-1 In addition to the requirements set forth in Sec. 26 of this contract, the Purchaser shall;

(a) Use a minimum 200 flywheel horsepower tractor with mounted rippers having shanks and teeth consistent with drawings and specifications shown on Exhibit R of this contract, which is attached hereto and made a part hereof.

(b) Rip to a depth of eighteen (18) inches or bedrock (which ever is shallower).

(c) Ripping will not occur unless soil moisture content is twenty-five (25) percent or less (at a six (6) inch depth) as determined by the oven-dry method.

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

(e) Rip skid trails in units 13-1 and 1-3 discontinously to avoid rocky areas and tree root damage as directed by the authorized officer to a depth of 18

inches. Equipment must be able to avoid rocky areas and adapt to changes in rock depth.

(f) Seed and mulch all temporary roads, newly constructed landings, reconstruction roads, and pre-designated skid trails, in all units as shown on Exhibit A. by October 15 in the same year constructed. If hauling on a temporary route is not completed in the same year the route is constructed, the route will be storm-proofed and blocked by October 15 or when soil moisture exceeds 25%.

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

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

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

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

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

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

	Germination	Purity	Weed Content
Species	Min. %	Min. %	Max. %
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:

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

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

(9) E-2 The water bars to be constructed as required by Sec. 26(c) shall be constructed in accordance with the specifications shown on Exhibit C-10, which is attached hereto and made a part hereof.

(a) Water-bar all temporary roads, reconstruction roads, and pre-designated skid roads shown on Exhibit A by October 15 of the year operations are completed.

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

(10) E-4 The Purchaser shall immediately discontinue specified construction or timber harvesting operations upon written notice from the Contracting Officer that:

(1) threatened or endangered plants or animals protected under the Endangered Species Act of 1973, as amended, may be affected by the operation, and a determination is made that consultation or reinitiation of consultation is required concerning the species prior to continuing operation, or;

(2) when, in order to comply with the Endangered Species Act, or to protect occupied marbled murrelet sites in accordance with the Standards and Guidelines of the Medford District Record of Decision (ROD) and Resource Management Plan (RMP), the Contracting Officer determines it may be necessary to modify or terminate the contract, or;

(3) federal proposed, federal candidate, Bureau sensitive or State listed species protected under BLM Manual 6840 - Special Status Species Management - have been identified, and a determination is made that continued operations would affect the species or its habitat, or;

(4) other active raptor nests have been discovered, and a determination is made that continued operations under this contract would adversely affect the present use of the discovered nesting area by the raptor, or;

(5) when, in order to comply with a court order which enjoins operations on the sale or otherwise requires the Bureau of Land Management to suspend operations, or;

(6) when, in order to comply with a court order, the Contracting Officer determines it may be necessary to modify or terminate the contract, or;

(7) species have been discovered which were identified for protection through survey and manage and/or protection buffer standards and guidelines established in the ROD and RMP, and the Contracting Officer determines that continued operations would affect the species or its habitat, or;

(8) when, in order to protect species which were identified for protection through survey and manage and/or protection buffer standards and guidelines established in the ROD and RMP, the Contracting Officer determines it may be necessary to modify or terminate the contract.

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

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

In the event of a suspension period or a combination of suspension periods that exceed a total of 30 days, the First Installment held on deposit may be temporarily reduced upon the written request of the Purchaser. For the period of suspension extending beyond 30 days, the First Installment on deposit may be reduced to five (5) percent of the First Installment amount listed in Section 3.b. of the contract. Any First Installment amount temporarily reduced may be refunded or transferred to another BLM contract at the request of the Purchaser. However, if the Purchaser has outstanding debt owing the United States, the Contracting Officer

must first apply the amount of First Installment that could be refunded to the debt owed in accordance with the Debt Collection Improvement Act, as amended (31 USC 3710, *et seq.*). Upon Purchaser's receipt of a bill for collection and written notice from the Contracting Officer lifting the suspension, the Purchaser shall restore the First Installment to the full amount shown in Section 3.b. of the contract within 15 days after the bill for collection is issued, subject to Section 3.h. of the contract. The Purchaser shall not resume contract operations until the First Installment amount is fully restored.
In the event of a suspension period or a combination of suspension periods that exceed a total of 30 days, the unamortized Out-of-Pocket Expenses for road or other construction required pursuant to Exhibit C of the contract shall be refunded or transferred to another BLM contract at the request of the Purchaser. Upon written notice from the Contracting Officer lifting the suspension, the Purchaser shall reimburse the Government the amounts refunded or transferred. The Purchaser may choose to pay this reimbursement at once or in installments payable at the same time as payments are due for the timber under the contract and in amounts approximately equal to the expenses associated with the timber for which payment is due.

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

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

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

occupied site protection in accordance with the ROD and RMP, survey and manage and/or protection buffer standards and guidelines established in the ROD and RMP, or court order requirements necessitating the modification or termination.

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

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

(11) 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.

(12) E-6 The Purchaser shall notify the Authorized Officer in writing by February 1 of each calendar year in which operations are expected to take place on the contract area between March 1 and September 30, both days inclusive. If notification is not received by the Authorized Officer by February 1, felling, bucking, yarding, road construction, or any other activity with the potential to disturb nesting owls may not be allowed during this time period.

Upon receipt of a notice that the Purchaser expects to perform such operations during this time period, the Government will conduct surveys in units 26-1, 26-2, 24-1, 29-2, to determine whether spotted owls are nesting within 0.25 miles of the harvest units to be logged using ground based logging systems. If it is determined that spotted owls are not nesting or that no young have been produced, the Authorized Officer may lift the seasonal restriction on such operations in writing.

Without this written approval, such operations are prohibited from March 1 through September 30 of each year.

(E) Miscellaneous

(1) M-2 The Government, at its option, may administratively check scale any portion of the timber removed from the contract area, and if necessary, conduct check scaling of independent scalers contracted to BLM for administrative check scaling purposes. The Purchaser hereby agrees to make such contract timber available for such scaling at a location or locations to be approved in writing by the Authorized Officer. At the approved location or locations, the Purchaser shall provide an area for logs to be safely rolled out for scaling, to unload logs from trucks, place logs in a manner so that both ends and three faces of each log are visible for scaling, and to reload or remove logs after scaling has been completed. In the event that BLM elects to administratively check scale and if such check scaling causes a delay in log transportation time, an adjustment will be made to the purchase price as follows: If the entire sale is check scaled, the purchase price of this contract shall be reduced by one thousand five hundred fifty and 00/100 dollars ($1550.00) In the event that only a portion of the contract timber is scaled, the purchase price shall be reduced by that portion of one thousand five hundred fifty and 00/100 dollars ($1550.00) which is equal to the percentage of timber sold which was actually scaled by the Government. For purposes of computing this price reduction, the percentage of timber sold which has been scaled shall be determined by the Government. Any reduction in purchase price under the terms of this provision shall be full compensation to the Purchaser for any expense or loss incurred as a result of such scaling. Scaling shall be conducted in accordance with the Northwest Log Rules Eastside Log Scaling Handbook, as amended, or supplemented by BLM before the first advertisement date of the sale, by BLM scalers, and/or independent scalers contracted to BLM. A copy of the scale report will be made available to the Purchaser upon request.

(2) M-4 Notwithstanding the provisions of Section 5(c), when the Purchaser elects to furnish and operate under a payment bond as provided in Section 39(d), the value of right-of-way timber included in a billing shall be based on the value of timber removed from the right-of-way.

(3) M-5 The Purchaser shall, without expense to the Government, be responsible for obtaining any necessary licenses and permits and for complying with any and all Federal, State, County, and municipal laws, codes, regulations, and administrative rules applicable to the performance of this contract. The Purchaser shall also be responsible for all damages to persons or property that arise out of any operations under this contract and result from any breach of contract or wrongful or negligent act or omission of the Purchaser, its contractors, subcontractors, or employees of any of them.

(4) M-6 The purchaser agrees not to sell and/or exchange more than 30 percent of the timber or log volume from this preferential sale to concerns that do not meet the Small Business Administration small business size standard (13 CFR 121).
The purchaser understands that in addition to other penalties which may be imposed for violating the foregoing, the purchaser may be declared ineligible to participate in future Federal timber sales that are set-aside for preferential bidding by small business qualified concerns for two semi-annual triggered periods succeeding the violation.
The purchaser shall provide a current, interim Log Scale and Disposition of Timber Removed Report (Form 5460-15) upon request by the Authorized Officer at anytime during the contract period for cutting and removal specified in Section 4 of this contract as amended.

(F) Fire Prevention and Control

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

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

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

   (a) F-2a Firefighting tools shall be kept at each landing or at such other place as the Authorized Officer shall designate whenever people are working on the contract area. All fire fighting tools shall be kept in a sturdily constructed box which shall be painted red and lettered on the front or top in large letters, "For Fire Only."

   The box shall have a hinged lid and a hasp by which the lid can be sealed. One box may serve two landings not over six hundred (600) feet apart. When filled, the box shall not weigh over two hundred (200) pounds. The fire tools shall be in good condition, be tight on strong handles, and have sharp cutting edges. There shall not be less than four (4) tools in each box nor less than one (1) tool for each person working on the contract area. Three-fourths (¾) of all fire tools shall be shovels, hazel hoes, or other scraping tools. The fire tools shall be used only for fighting fire.

   (b) 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.

(c) F-2c At each landing during periods of operation (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.

(d) F-2d Serviceable radio or radio-telephone equipment able to provide prompt and reliable communication between the contract area and Medford, OR. Such communication shall be available during periods of operation including the time watch-service is required.

(e) F-2e A pair of headlights capable of being quickly attached to each bulldozer used on the contract area. The headlights shall be adequate to provide illumination sufficient to allow use of the bulldozers for fire fighting and construction of fire trails at night.

(f) F-2f A headlight for each person in the woods crew adequate to provide sufficient illumination for night fire fighting. A headlight shall be of the type that can be fastened to the head so as to allow independent use of the hands. It shall be equipped with a battery case so designed that it can be either carried in the hip pocket or fastened to the belt. The head of the light and the battery case shall be connected by insulated wires. At least one extra set of batteries shall be provided for each such headlight.

(g) 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.

(h) F-2h A chemical fire extinguisher of at least eight (8) ounces minimum capacity of a type approved by the Oregon State Forester shall be carried during the closed fire season or periods of fire danger by each saw operator using a power saw on the contract area. Such fire extinguisher shall be filled and in effective operating condition and shall at all times be immediately available to the operator when the saw is being fueled or the motor of the saw is running. A size "0" or larger shovel shall be available with each gas can when refueling. Any fueling of a power saw shall be done in an area which has first been cleared of all flammable material. Power saws shall be moved at least twenty (20) feet from the place of fueling before the engine is started. Each power saw shall be equipped with an exhaust system and a spark arresting device which are of types approved by the Oregon State Forester.

3. Where blocks and cables are used on the contract area during periods of fire danger, the Purchaser shall remove all flammable material at least ten (10) feet from the place where the tail or any other block will hang when the cable is tight. Such clearings shall be inspected periodically by the Purchaser and shall be kept free of flammable material.

4. Blasting caps and fuses shall not be used during closed fire season or any period of fire danger on any land administered by the Government. Blasting with electric detonators during the closed fire season or periods of fire danger is permitted only between the hours of 0400 a.m. and 1000 a.m.

(G) Slash Disposal and Site Preparation

(1) 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:

Prior to commencement of any operation under Section G (Slash Disposal and Site Preparation) of this contract, a slash disposal and site preparation prework conference between the purchaser's representative and the Authorized Officer must be held at a location designated by the Authorized Officer. All slash disposal and site preparation shall be done in accordance with the plans developed at this prework conference.

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

(a) LOP AND SCATTER Lop and scatter all slash as directed by the Authorized Officer, concurrently with normal felling operations. All top and side branches must be free of the central stem so that such slash is reduced to the extent that it is within 18 inches of the ground at all points.

(b) SLASHING DAMAGED RESIDUALS Slash all sprung or otherwise severely damaged trees between 1 inches and 6 inches D.B.H.O.B. concurrently with logging as directed by the Authorized Officer. All slashing is to be completed prior to any required piling of slash.

(c) HAND PILING Pile all slash in units or portions of units as designated by the Authorized officer in accordance with the following specifications: In unit 19-2 (west side, approx. 7 acres) no activity slash shall be brought to the landing located on private property in section 30.T34S, R03E.

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

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

3. A six (6) foot by six (6) foot sheet of 4 mil polyethylene black plastic shall be placed in each pile in a manner such that approximately one-third (⅓) 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) inch in diameter and free of dirt. Piles shall be constructed by aligning individual pieces in the same direction and placing the heavier slash on top. Piles shall have a stable base to prevent toppling. The long axis of individual pieces shall be oriented up and down the slope. Protruding pieces shall be trimmed to allow covering in a manner that permits the pile to shed water. Height shall be no less than four (4) feet and no greater than six (6) feet; width shall not exceed six (6) feet; piles shall be circular and not windrowed. No pile shall be located in any stream channel; on down logs, stumps, talus slopes, roadways, drainage ditches, within ten feet of reserve trees, within 25 feet of designated wildlife trees and within ten feet of any other pile or unit boundary. No portion of the pile will be under the crown of any living conifer tree. Covering shall be done at time of piling.

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

(d) EXCAVATOR PILING Pile all slash in units or portions of units as designated by the Authorized officer in accordance with the following specifications:

1. Piling shall be accomplished with a track-mounted excavator with track shoes producing less than ten (10) pounds per square inch ground pressure. The excavator shall be equipped with a hydraulic thumb or rotating, controllable grapple head. The machine shall have a minimum

reach of twenty five (25) feet. Finished piles shall be tight and free of earth.

2. Pile all slash, brush and downed hardwoods which are greater than two (2) inch and less than sixteen (16) inches in diameter on the large end and exceed two (2) feet in length. Existing reproduction of commercial coniferous species shall be protected where feasible.

3. Unmerchantable logs greater than sixteen (16) inches on the small end shall be left in place, or positioned so that they will not be burned.

4. Prior to the commencement of piling work, all equipment shall meet the approval of the Authorized Officer.

5. Excavators are limited to designated skid roads approved by the Authorized Officer.

6. Additional trails needed shall be approved by the Authorized Officer, and the excavator shall be limited to one pass on these trails. The excavator shall pile by walking over the slash and working back to the designated trails. Existing reproduction of commercial coniferous species shall be protected where feasible.

7. A ten (10) foot by ten (10) foot cover of four (4) mil black plastic or equivalent material shall cap each excavator pile to maintain a dry ignition point. The cover shall be firmly fixed to each pile to hold it in place. Covering shall be done at time of piling.

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

(e) LANDING PILES Pile all slash located within (50) feet on each side of each landing. Slash shall be piled by grapple loader. Finished piles shall be tight and free of earth.

1. A (10) foot by (10) foot cover of four (4) mil black plastic shall cap each pile to maintain a dry ignition point. The cover shall be firmly fixed to each pile to hold it in place. Landings shall be piled and covered during the same season that they are logged.

(2) SD-2 Notwithstanding the provisions of Sec. 15 of this contract, the Government shall assume all obligations for disposal or reduction of fire hazards created by Purchaser's operations on Government lands, except for burning and mop-up assistance as required herein. In accordance with written instructions to be issued by the Authorized Officer at least ten (10) days in advance of earliest date of required performance, the Purchaser shall, under supervision of the Authorized Officer or designated representative, assist in preparing units for burning, burning, mop-up, and patrol by furnishing, at the Purchaser's own expense, the services of personnel and equipment on each unit, or portion thereof, as shown below.

(a) Purchaser shall fall any trees or snags determined by the Authorized Officer or designated representative to be hazardous for the prescribed burning operations. This work shall be completed within one (1) month of completion of yarding the unit.

(b) Burn and mop-up excavator and hand piled units (or portions of units) as directed by the Authorized Officer.

1. Prescribed fire plans shall be prepared for hand pile burning activities to ensure that resource and fire management objectives are met by setting parameters under which the burning may take place. Prescribed burning within the harvest units will be conducted in a manner that will minimize damage to reserve trees, duff and soil, and to avoid loss of large, coarse woody debris and will be consistent with ecosystem management objectives.

2. Piles will be burned in the fall/winter season after one or more inches of precipitation has occurred to reduce the potential for fire spread and scorch and mortality to the residual trees and shrubs. Patrol and mop-up of burning piles will occur when needed to prevent escape. The timing of prescribed burns depends on these parameters and the availability of adequate fire suppression resources as a contingency plan in the event of escaped fire.

3. Igniting and Burning Piles

a. One (1) person to supervise crew(s) and equipment operators, and to serve as Purchaser's representative.

b. One (1) crew(s) with ten (10) members per crew, including a designated crew foreman. Each crew shall be equipped with fuel, ten (10) drip torches, one (1) power saw, one (1) backpack pump, shovels and pulaskis; one (1) tool for each crew member.

c. Hand ignition with drip torches is required.

d. All crews shall arrive on the project area with radios capable of inter-crew communications and communication with a BLM representative at a ratio of one (1) radio per five (5) crew members.

e. All ignition personnel will be directly supervised by a BLM representative

4. Mop-up Piles

a. One (1) person to supervise crew(s) and equipment operators, and to serve as Purchaser's representative.

b. One (1) crew(s) with ten (10) members per crew, including a designated crew foreman. Each crew shall be equipped with fuel, ten (10) drip torches, one (1) power saw, one (1) backpack pump, shovels and pulaskis; one (1) tool for each crew member.

c. All crews shall arrive on the project area with radios capable of inter-crew communications and communication with a BLM representative at a ratio of one (1) radio per five (5) crew members.

d. All mop up personnel will be directly supervised by a BLM representative

e. Foam will not be used within 150 feet of stream channels

Aircraft and pilots used for Logging Residue Reduction or the suppression of escaped fires from Logging Residue Reduction operations, shall be acquired from a list of aircraft and pilots approved (i.e., carded for these specific activities) by the Office of Aircraft Services or the U.S. Forest Service. This list is available from BLM District Offices upon request.

All listed personnel shall be physically fit, experienced, and fully capable of functioning as required. All personnel shall arrive at the project area(s) with the following personal safety equipment: long sleeve natural fabric shirt, full length natural fabric trousers, minimum eight (8) inch top leather boots, hardhat, and leather gloves. All listed tools and equipment shall be in good usable condition. All power-driven equipment shall be fully fueled and available for immediate use. During periods of use under this subsection, the Purchaser shall provide fuel and maintenance for all such power-driven equipment.

Except as provided hereafter for fire escapement, the Purchaser shall continue the required assistance in mop-up on each unit to be burned as required in Section

41(G) for 450 work hours for each piled as directed by the Authorized Officer within a ten (10) day work period beginning 8:00 a.m. the day following completion of ignition in that unit or until released from such services by the Authorized Officer, whichever occurs first.

In the event of a fire escapement, Purchaser's personnel and equipment shall, under supervision of the Authorized Officer or designated representative, take action to suppress, including control and mop-up, the escaped fire until released from such service by the Government. If it becomes necessary to suppress a fire which escapes from the prescribed fire area for a period beyond midnight of ignition day, then the Government shall, at its option: (1) reimburse Purchaser for such additional use of personnel and equipment at wage rates shown in the current Administratively Determined Pay Rates for Western Area and at equipment rates shown in the current Oregon-Washington Interagency Fire Fighting Equipment Rental Rates schedule, until the Purchaser is released from such service by the Government, or (2) release the Purchaser from additional suppression work and assume responsibility for suppressing the escaped fire.

In situations where an escaped fire is controlled and contained by an adequate fire break (i.e., trail, road, stream, rock formation, etc.), the Government may permit the Purchaser to remove personnel for that day; provided that, all mop-up work on the escaped fire area is included with mop-up work on the prescribed fire area. In such an event, the Purchaser must sign a statement of agreement to complete mop-up work on all escaped fire areas concurrently with mop-up work on the prescribed fire area.

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

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

(3) SD-5 Perform logging residue reduction and site preparation work on approximately (500) acres of harvest area as directed by the Authorized Officer.

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

Treatment	Description	Cost/Acre
Slash Damage	Slash conifers and hardwoods <7"dbh damaged during harvest	$45.00
Excavator pile and cover	Pile slash 1"to 16"dbh cover piles	$488.00
Lop and Scatter L1	0-12 tons/acre	$29.00
Lop and Scatter L2	13-20 tons/acre	$48.00
Handpile and Cover - L1	0 - 40 piles/acre	$300.00
Handpile and Cover - L2	41 - 60 piles/acre	$385.00
Handpile and Cover - L3	61 - 80 piles/acre	$515.00
Burn Handpile – Level 1	0 - 40 piles/acre	$31.00
Burn Handpile – Level 2	41 - 60 piles/acre	$45.00
Burn Handpile – Level 3	61 - 80 piles/acre	$54.00
Excavator pile burning	Burn excavator piles	$39.00

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

Appraised Treatment	Cost/Acre	Acres	Total Cost Per Treatment
Lop and Scatter	$48.00	200	$9,600.00
Slash Damage	$45.00	100	$4,500.00
Excavator pile and cover	$488.00	50	$24,400.00
Excavator Pile Burn	$45.00	50	$2,250.00
Hand Pile and cover	$545.00	50	$25,750.00
Hand Pile Burn	$54.00	50	$2,700.00
Total Appraised Cost			$69,200.00

(c) The Total Purchase Price set forth in Section 2 shall be adjusted by the amount that the total cost of the site preparation treatments designated pursuant to Section 41(G)(2)(a) differs from $69,200.00, as calculated by using the estimated acres determined by the Authorized Officer and the per acre costs listed in Section 41(G)(2)(a).

(H) Quarry Development

(1) Q-1 The Purchaser shall develop a rock quarry in strict accordance with the plans and specifications shown on Exhibit C-11 which is attached hereto and made a part hereof. Exhibit C-11 contains 1 sheet.

(a) Q-1b Any quarry access road construction and site preparation shown on exhibit C-11 shall be completed at each quarry location shown on Exhibit C-11 prior to removal of any rock from such area.

(I) Equal Opportunity in Employment

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

Seasonal Restriction Matrix continued

Sheet 2 of 2

Eighty Acre Timber sale

ORM05-TS15-08

▨ ***Possible Waived Times are Hatched**

■ ***Restricted Times are Shaded**

Sale Area	Activity	Jan		Feb		Mar		Apr		May		June		July		Aug		Sept		Oct		Nov		Dec	
		1	15	1	15	1	15	1	15	1	15	1	15	1	15	1	15	1	15	1	15	1	15	1	15
Units: 1-2	Hand Timber Falling and Bucking [4]					▨	▨	▨	▨	▨	▨	▨	▨	▨	▨	▨	▨								
	Ground based yarding[1,2,4]	■	■	■	■	■	■	■	■	■	▨	▨	▨	▨	▨	▨	▨				■	■	■	■	■
	Skyline cable yarding[4]	■	■	■	■	▨	▨	▨	▨	▨	▨	▨	▨	▨	▨	▨	▨				■	■	■	■	■
	Helicopter operation [4]	■	■	■	■	▨	▨	▨	▨	▨	▨	▨	▨	▨	▨	▨	▨				■	■	■	■	■
	Log processing, Log loading [1,2,4]	■	■	■	■	■	■	■	■	■	▨	▨	▨	▨	▨	▨	▨				■	■	■	■	■
	Log hauling, rock hauling, [1,2]	■	■	■	■	■	■	■	■	■											■	■	■	■	■
	Road, landing, skid trail, waterbar, barricade construction and/or decommissioning[1,2]	■	■	■	■	■	■	■	■	■											■	■	■	■	■
	Road grading and watering[1,2,]	■	■	■	■	■	■	■	■	■											■	■	■	■	■
	Soil ripping, seeding, mulching[1,2,4]	■	■	■	■	■	■	■	■	▨	▨	▨	▨	▨	▨	▨	▨				■	■	■	■	■
	Roadside brushing, [1,2,]	■	■	■	■	■	■	■	■	■											■	■	■	■	■
	Fuels site prep with chainsaws [4]					▨	▨	▨	▨	▨	▨	▨	▨	▨	▨	▨	▨								
	Prescribed burning [4]					▨	▨	▨	▨	▨	▨	▨	▨	▨	▨	▨	▨								

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

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

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

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

Seasonal Restriction Matrix

Sheet 1 of 2

Eighty Acre Timber sale

ORM05-TS15-08

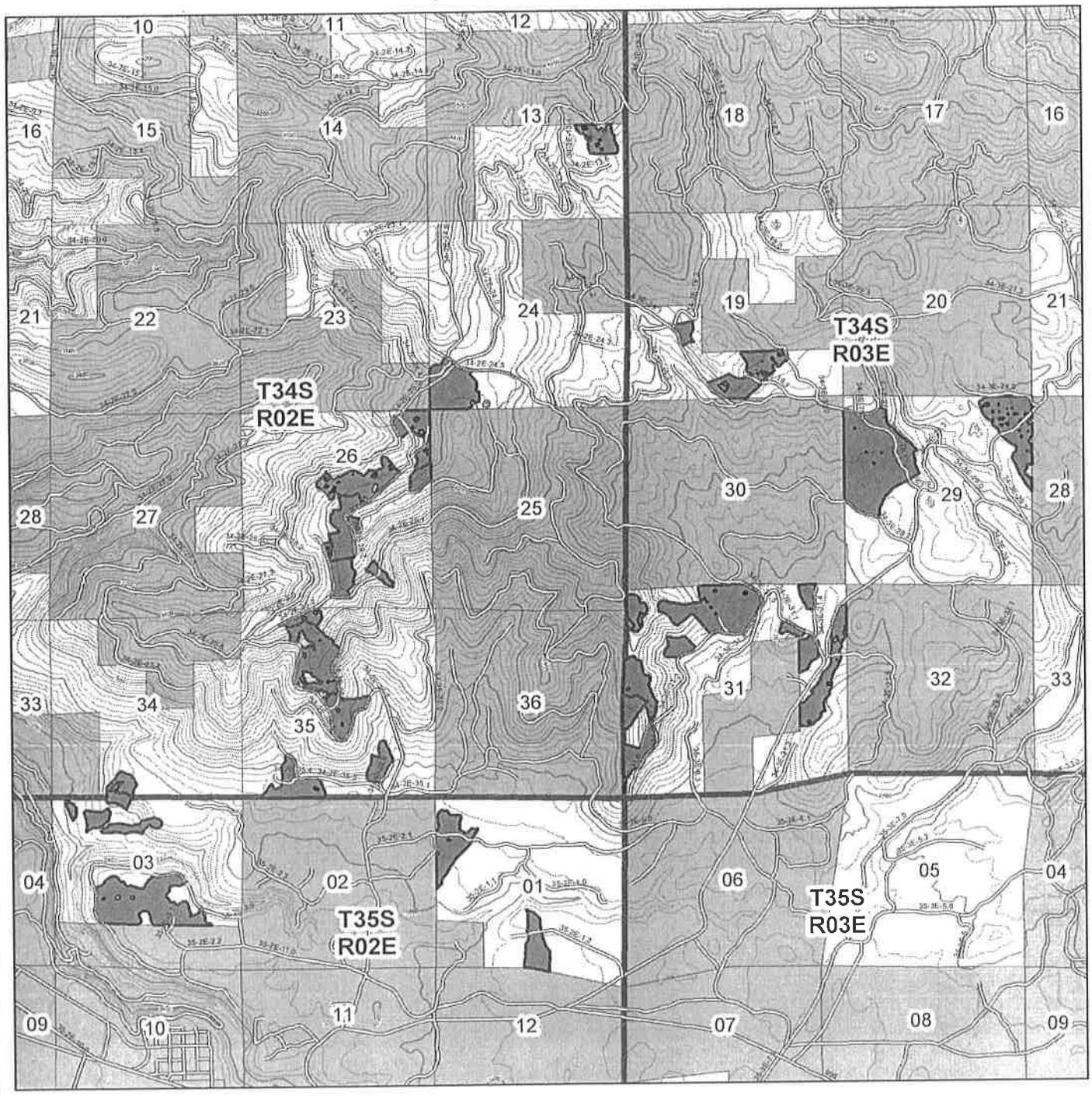
▨ ***Possible Waived Times are Hatched**

■ ***Restricted Times are Shaded**

Sale Area	Activity	Jan		Feb		Mar		Apr		May		June		July		Aug		Sept		Oct		Nov		Dec	
		1	15	1	15	1	15	1	15	1	15	1	15	1	15	1	15	1	15	1	15	1	15	1	15
Units 1-3, 3-1, 3-3, 13-1, 19-1, 19-2, 26-2, 26-3, 26-5, 29-1, 31-1, 31-2, 31-3, 31-4, 31-5, 31-6, 31-7, 31-8, 34-1, 35-1, 35-2, 35-3, 35-4, 35-5	Hand Timber Falling and Bucking																								
	Ground based yarding[1,2]	■	■	■	■	■	■	■	■	■											■	■	■	■	■
	Skyline cable yarding	■	■	■	■	■	■	■	■	■											■	■	■	■	■
	Helicopter operation	■	■	■	■	■	■	■	■	■											■	■	■	■	■
	Log processing, Log loading [1,2]	■	■	■	■	■	■	■	■	■											■	■	■	■	■
	Log hauling, rock hauling, [1,2]	■	■	■	■	■	■	■	■	■											■	■	■	■	■
	Road, landing, skid trail, waterbar, barricade construction and/or decommissioning[1,2]	■	■	■	■	■	■	■	■	■											■	■	■	■	■
	Road grading and watering[1,2]	■	■	■	■	■	■	■	■	■											■	■	■	■	■
	Soil ripping, seeding, mulching[1,2]	■	■	■	■	■	■	■	■	■											■	■	■	■	■
	Roadside brushing, [1,2]	■	■	■	■	■	■	■	■	■											■	■	■	■	■
	Fuels site prep with chainsaws																								
	Prescribed burning																								
Units: 24-1, 26-1, 26-4, 29-2,	Hand Timber Falling and Bucking[3]					▨	▨	▨	▨	▨	▨	▨	▨	▨	▨	▨	▨	▨	▨						
	Ground based yarding[1,2,3]	■	■	■	■	■	■	■	■	▨	▨	▨	▨	▨	▨	▨	▨	▨	▨		■	■	■	■	■
	Skyline cable yarding[3]	■	■	■	■	▨	▨	▨	▨	▨	▨	▨	▨	▨	▨	▨	▨	▨	▨		■	■	■	■	■
	Helicopter operation[3]	■	■	■	■	▨	▨	▨	▨	▨	▨	▨	▨	▨	▨	▨	▨	▨	▨		■	■	■	■	■
	Log processing, Log loading [1,2,3]	■	■	■	■	■	■	■	■	▨	▨	▨	▨	▨	▨	▨	▨	▨	▨		■	■	■	■	■
	Log hauling, rock hauling, [1,2,3]	■	■	■	■	■	■	■	■												■	■	■	■	■
	Road, landing, skid trail, waterbar, barricade construction and/or decommissioning[1,2]	■	■	■	■	■	■	■	■												■	■	■	■	■
	Road grading and watering[1,2,3]	■	■	■	■	■	■	■	■												■	■	■	■	■
	Soil ripping, seeding, mulching[1,2,3]	■	■	■	■	■	■	■	■	▨	▨	▨	▨	▨	▨	▨	▨	▨	▨		■	■	■	■	■
	Roadside brushing, [1,2,3]	■	■	■	■	■	■	■	■												■	■	■	■	■
	Fuels site prep with chainsaws[3]					▨	▨	▨	▨	▨	▨	▨	▨	▨	▨	▨	▨	▨	▨						
	Prescribed burning [3]					▨	▨	▨	▨	▨	▨	▨	▨	▨	▨	▨	▨	▨	▨						

U.S.D.I. BLM MEDFORD DISTRICT SALE NO. 15-08
EIGHTY ACRE TIMBER SALE
BUTTE FALLS RESOURCE AREA
JACKSON COUNTY

TIMBER SALE LOCATION MAP
CONTRACT NO.ORM05-TS-15-08



Medford District BLM
July 2015

Eighty Acre Units
BLM Other

1 inch = 4,000 feet
Contours = 40 feet

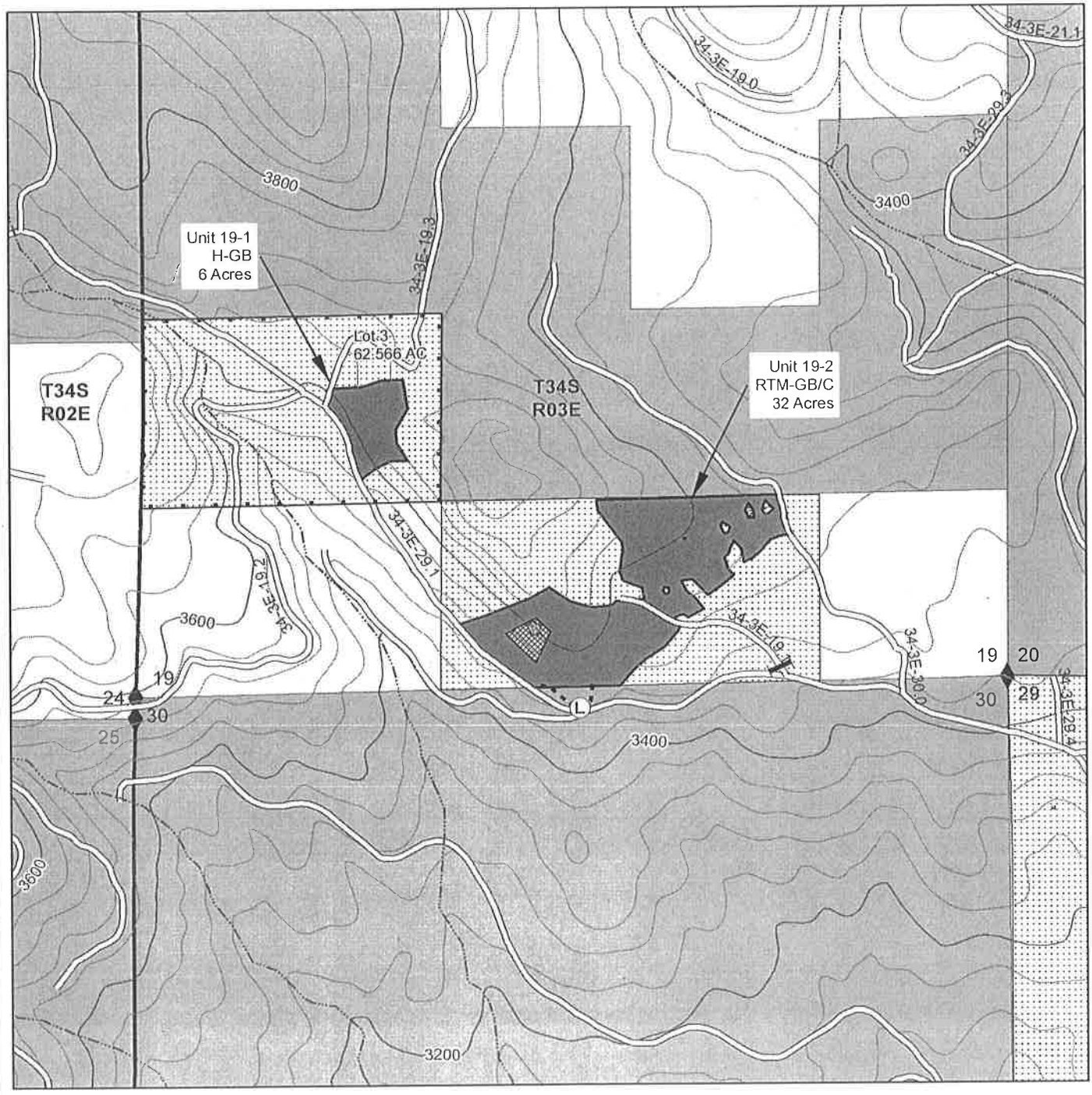
0 0.25 0.5
Miles

OREGON

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

U.S.D.I. BLM MEDFORD DISTRICT SALE NO. 15-08
T34S-R3E SECTION 19, WILL. MER
EIGHTY ACRE TIMBER SALE

TIMBER SALE CONTRACT MAP
CONTRACT NO. ORM05-TS-15-08
EXHIBIT A



Medford District BLM
July 2015

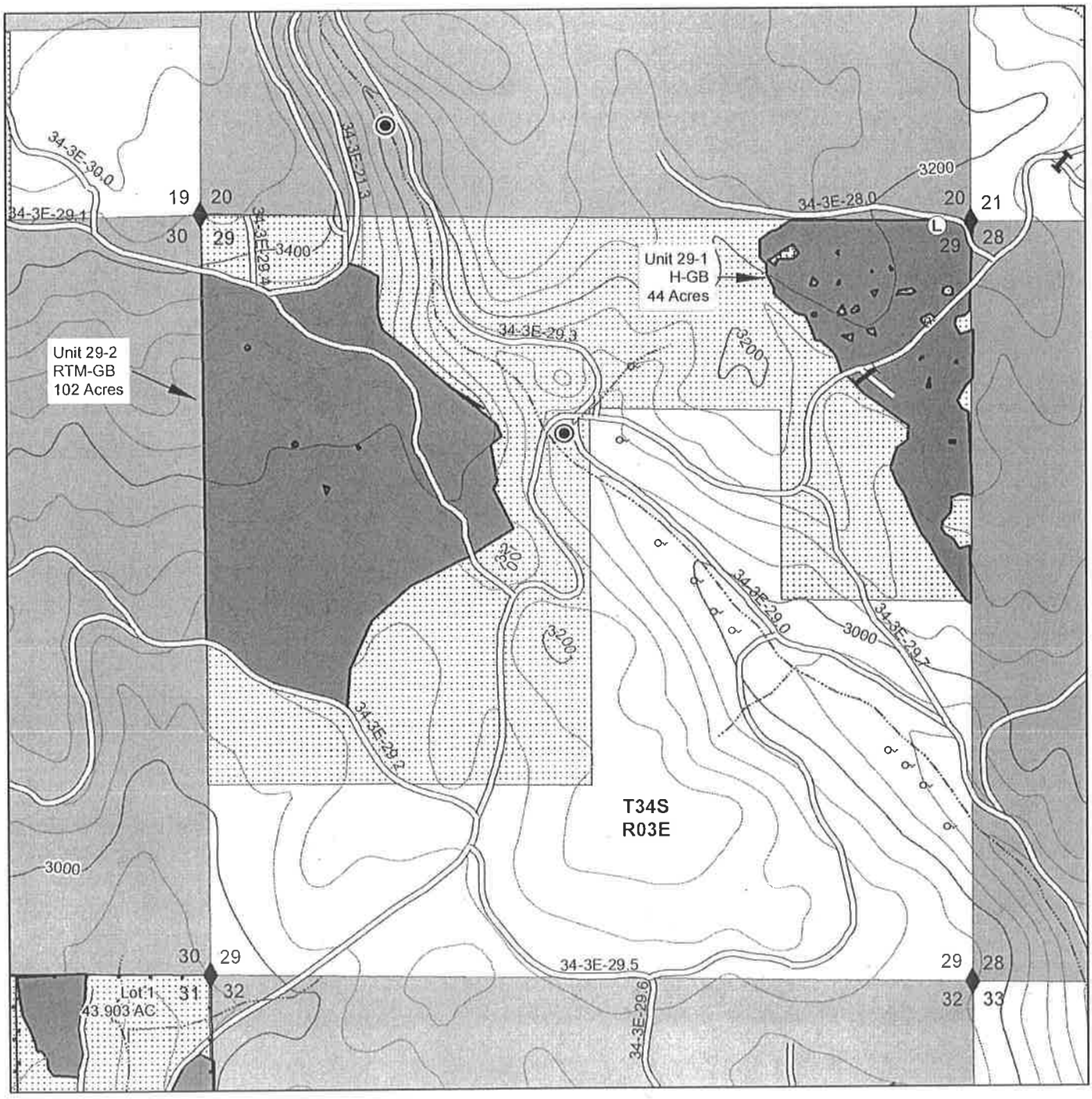
1 inch = 1,000 feet
Contours = 40 feet

N

0 0.25 0.5
Miles

U.S.D.I. BLM MEDFORD DISTRICT SALE NO. 15-08
T34S-R3E SECTION 29, WILL. MER
EIGHTY ACRE TIMBER SALE

TIMBER SALE CONTRACT MAP
CONTRACT NO. ORM05-TS-15-08
EXHIBIT A



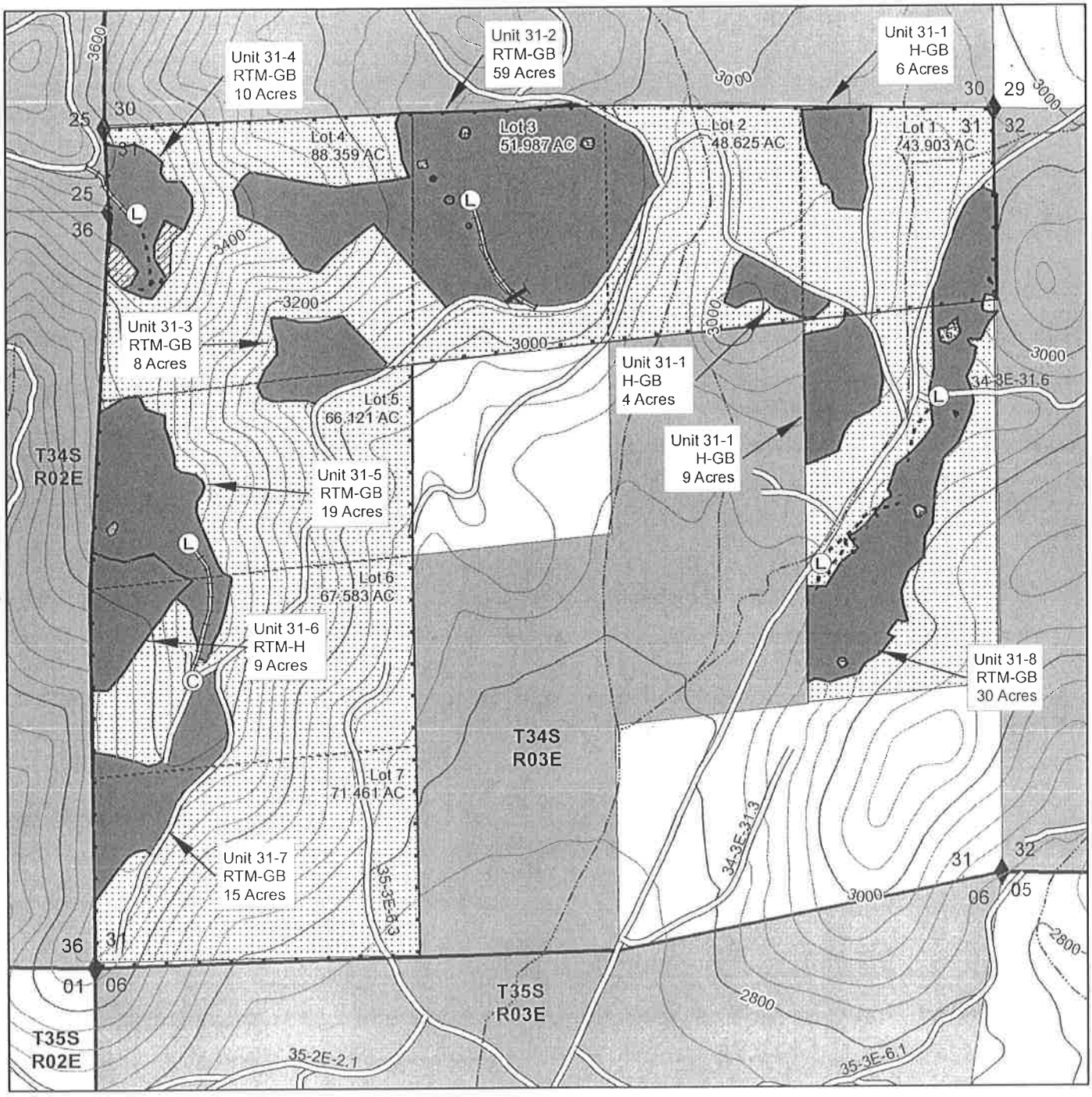
Medford District BLM
July 2015

1 inch = 1,000 feet
Contours = 40 feet

0 0.25 0.5
Miles

U.S.D.I. BLM MEDFORD DISTRICT SALE NO. 15-08
T34S-R3E SECTION 31, WILL. MER
EIGHTY ACRE TIMBER SALE

TIMBER SALE CONTRACT MAP
CONTRACT NO. ORM05-TS-15-08
EXHIBIT A



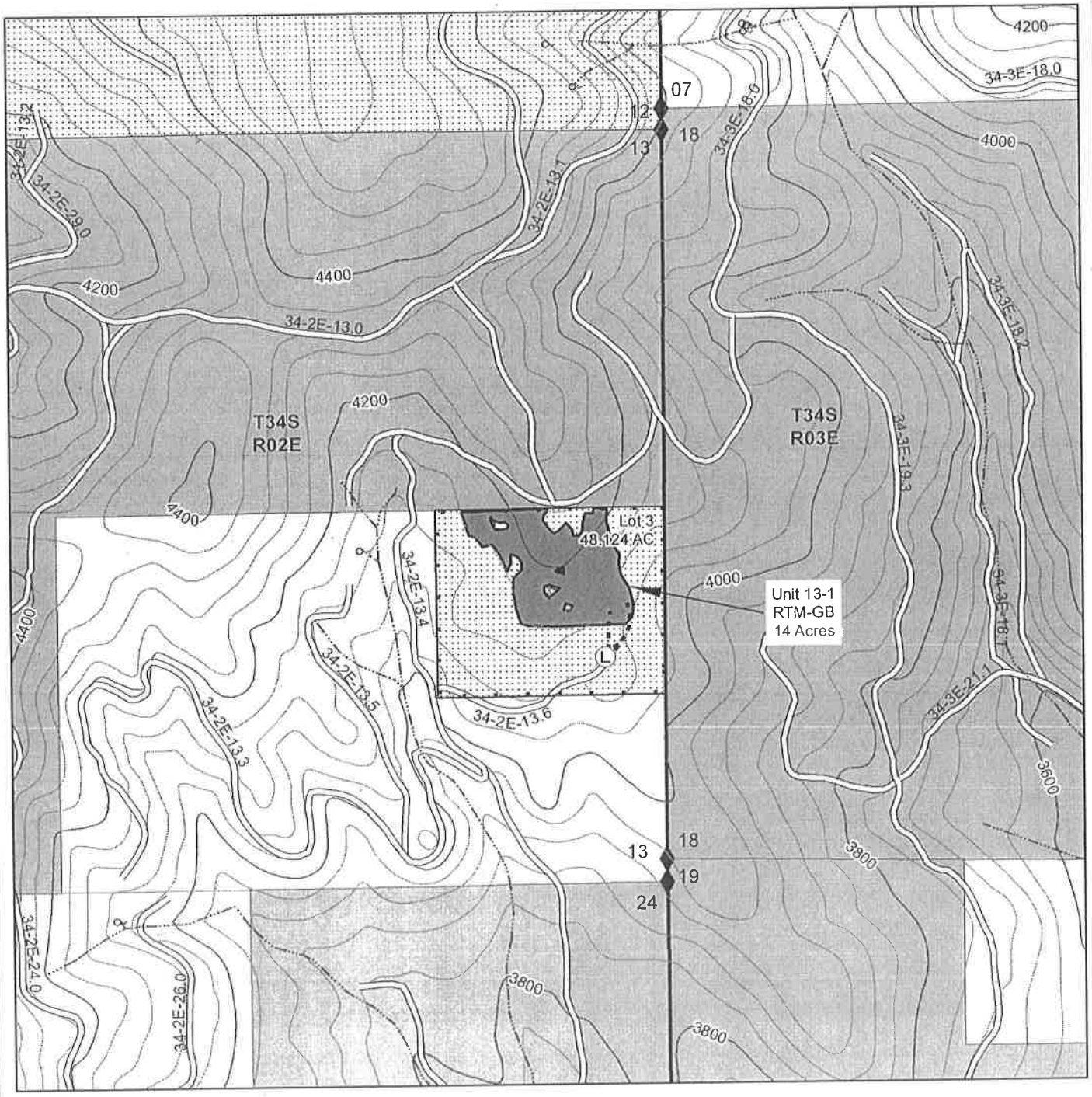
Medford District BLM
July 2015

1 inch = 1,000 feet
Contours = 40 feet

0 0.25 0.5
Miles

U.S.D.I. BLM MEDFORD DISTRICT SALE NO. 15-08
T34S-R2E SECTION 13, WILL. MER
EIGHTY ACRE TIMBER SALE

TIMBER SALE CONTRACT MAP
CONTRACT NO. ORM05-TS-15-08
EXHIBIT A



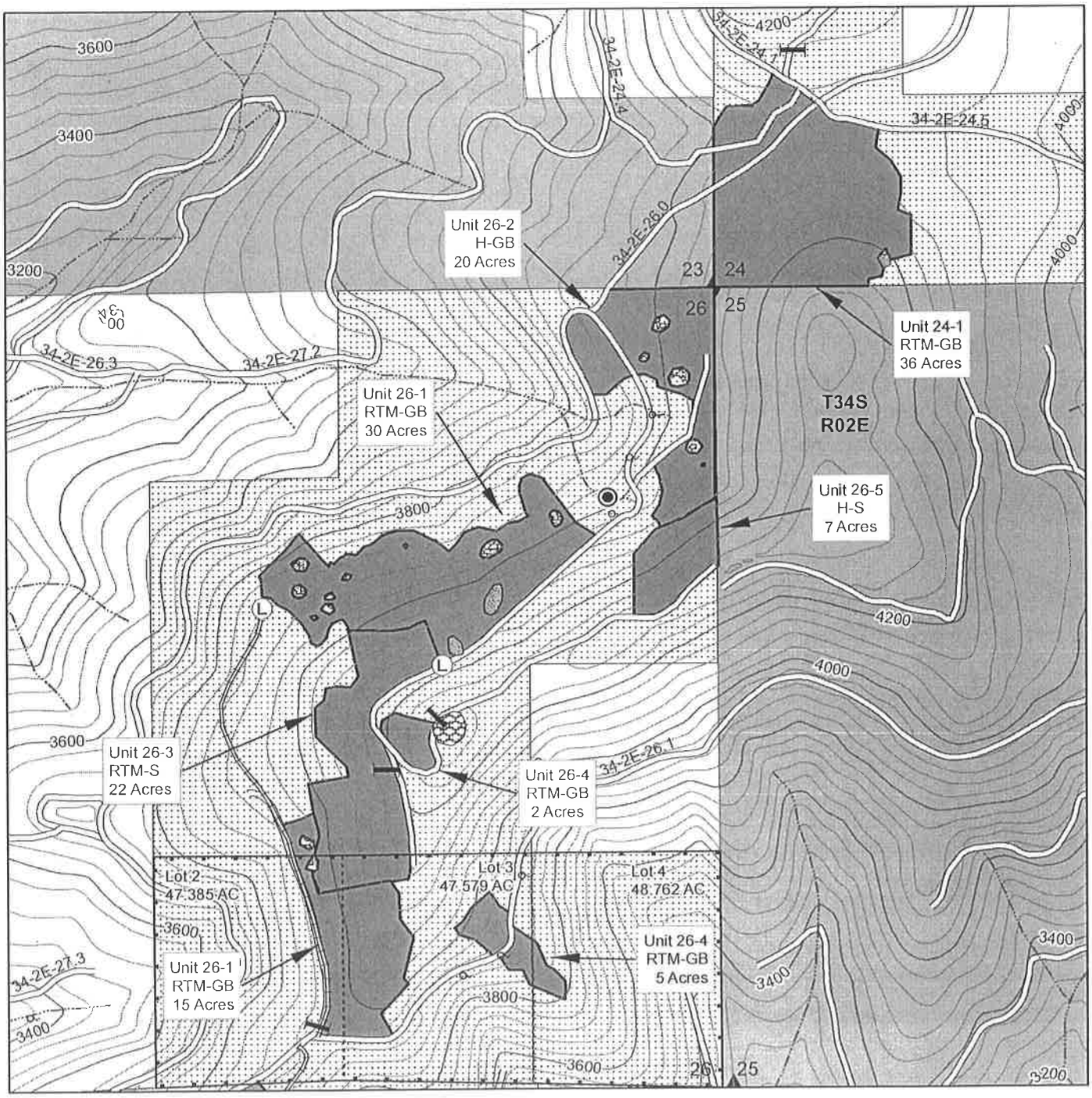
Medford District BLM
July 2015

1 inch = 1,000 feet
Contours = 40 feet

0 0.25 0.5
Miles

U.S.D.I. BLM MEDFORD DISTRICT SALE NO. 15-08
T34S-R2E SECTION 24, 26 WILL. MER
EIGHTY ACRE TIMBER SALE

TIMBER SALE CONTRACT MAP
CONTRACT NO. ORM05-TS-15-08
EXHIBIT A



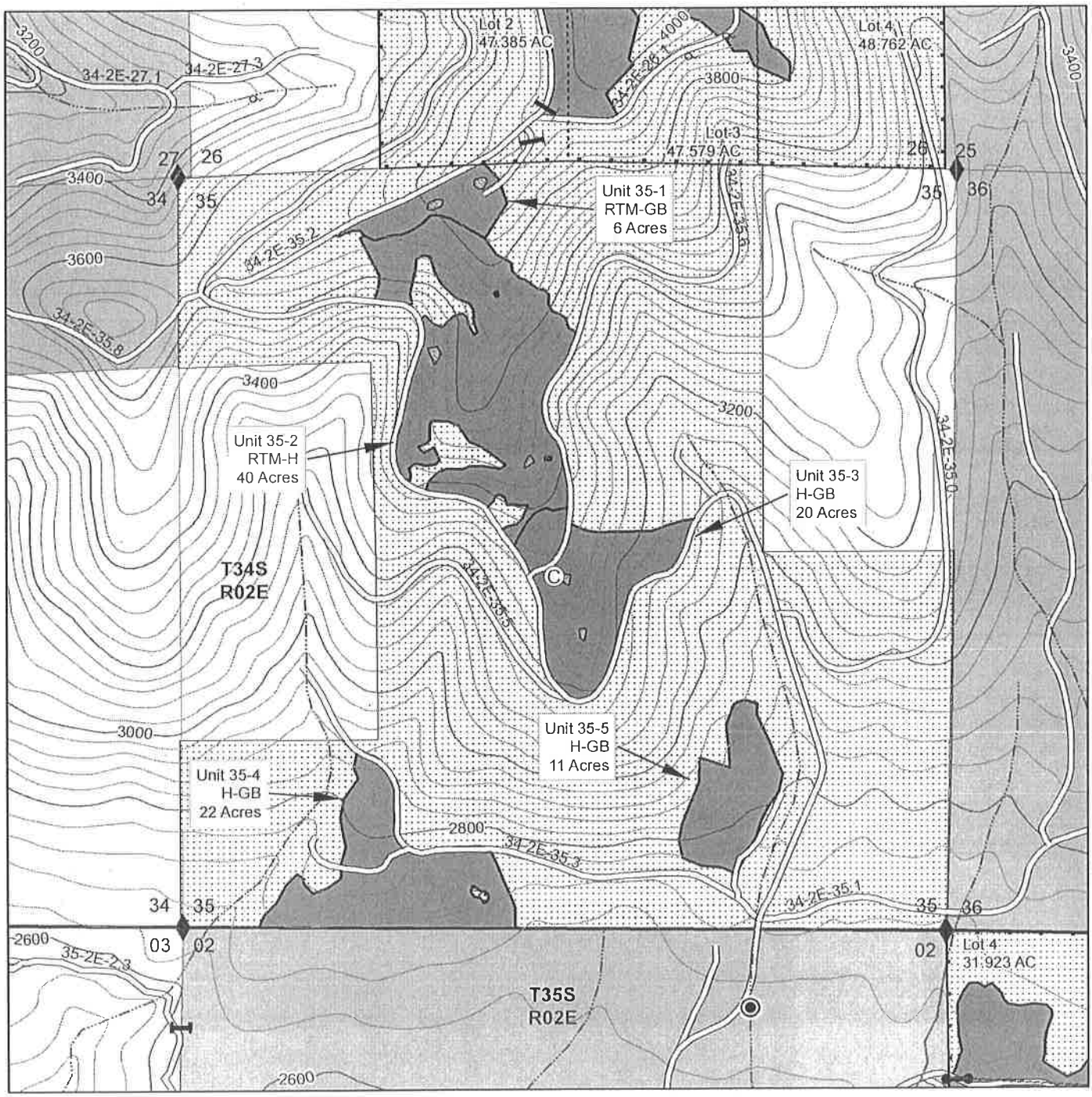
Medford District BLM
July 2015

1 inch = 1,000 feet
Contours = 40 feet

0 0.25 0.5
Miles

U.S.D.I. BLM MEDFORD DISTRICT SALE NO. 15-08
T34S-R2E SECTION 35, WILL. MER
EIGHTY ACRE TIMBER SALE

TIMBER SALE CONTRACT MAP
CONTRACT NO. ORM05-TS-15-08
EXHIBIT A



Medford District BLM
July 2015

1 inch = 1,000 feet
Contours = 40 feet

0 0.25 0.5
Miles

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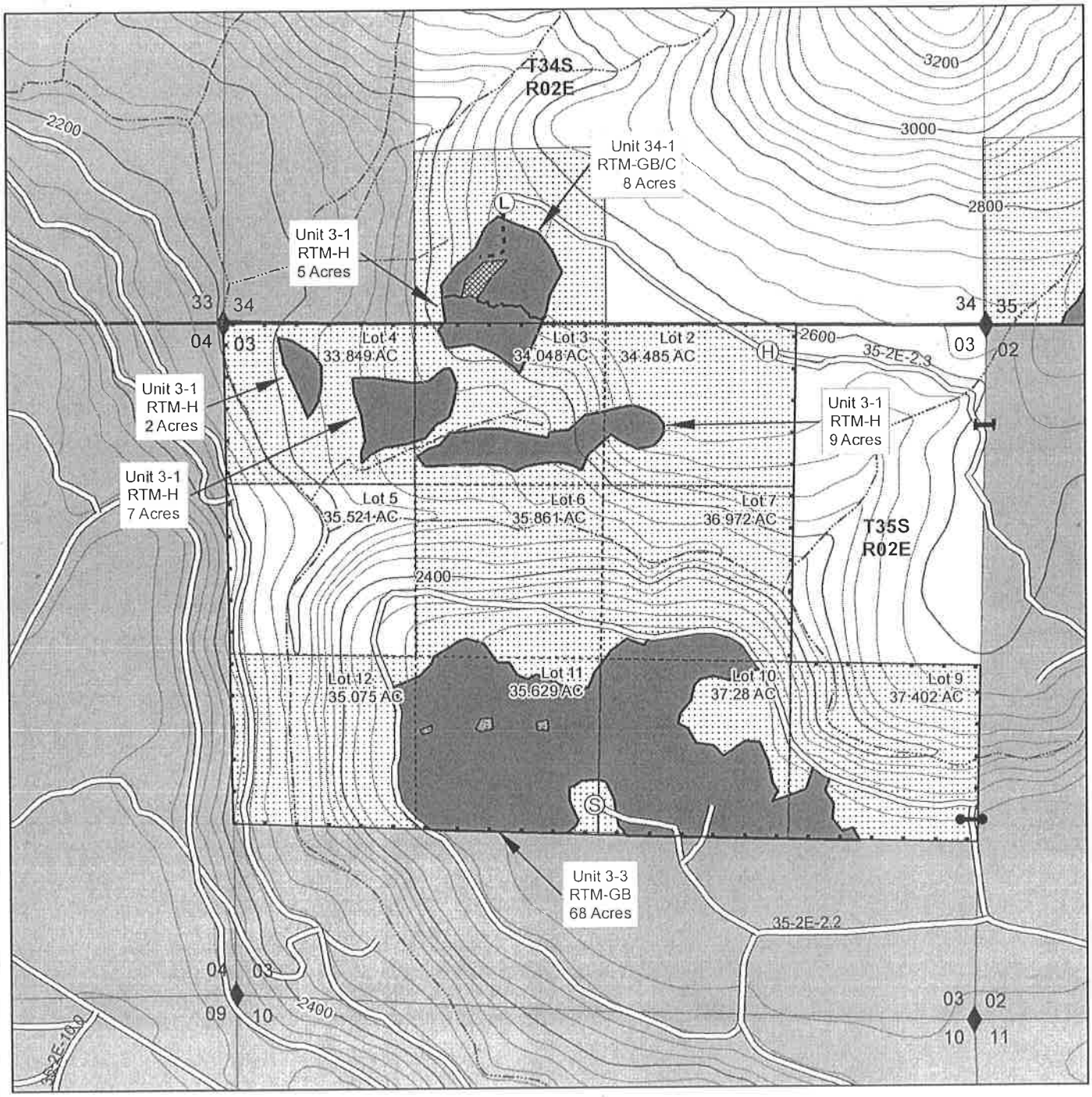
U.S.D.I. BLM MEDFORD DISTRICT SALE NO. 15-08
T34S-R2E SECTION 34, WILL. MER
T35S-R2E SECTION 3, WILL. MER
EIGHTY ACRE TIMBER SALE

TIMBER SALE CONTRACT MAP
CONTRACT NO. ORM05-TS-15-08
EXHIBIT A



Medford District BLM
July 2015

1 inch = 1,000 feet
Contours = 40 feet

0 0.25 0.5
Miles

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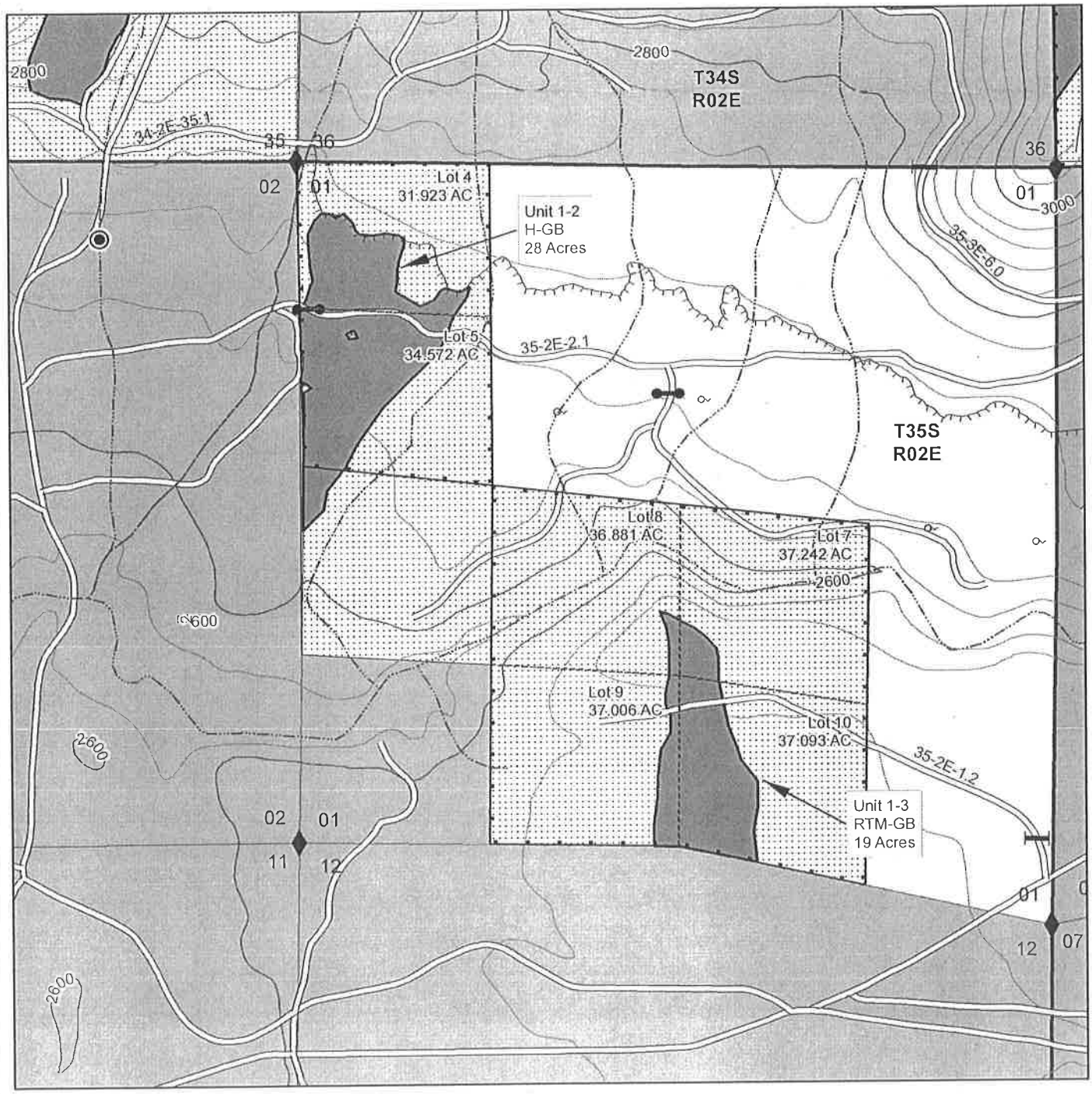
U.S.D.I. BLM MEDFORD DISTRICT SALE NO. 15-08
T35S-R2E SECTION 1, WILL. MER
EIGHTY ACRE TIMBER SALE

TIMBER SALE CONTRACT MAP
CONTRACT NO. ORM05-TS-15-08
EXHIBIT A



Medford District BLM
July 2015

1 inch = 1,000 feet
Contours = 40 feet

N

0 0.25 0.5
Miles

U.S.D.I. BLM MEDFORD DISTRICT SALE NO. 15-08
T. 34S. R. 2E., SEC 13, 24, 26, 34, 35 WILL. MER.
T. 34S. R. 3E., SEC 19, 29, 31 WILL. MER.
T. 35S. R. 2E., SEC 1, 3 WILL. MER.
EIGHTY ACRE TIMBER SALE

TIMBER SALE CONTRACT MAP
CONTRACT NO. ORM05-TS-15-08
EXHIBIT A

Legend

- Heli-Const
- Log
- Service
- Found Corner
- Spring
- Quarry
- Water Source
- Gate, Existing
- Barricade, Existing
- Road
- Temporary Spur Road
- Pre-Designated Skid Road
- Stream
- Irrigation Ditch
- 40 ft. Intermediate Contour
- 200 ft. Index Contour
- Boundary of Cutting Area
- Boundary of Special Yarding Area
- Mollusk Site
- Plant Site
- Protected Site
- Government Lot
- Contract Area
- BLM Administered Land
- Non-BLM Land

RTM - GB	RESERVE TREE MARK (ORANGE PAINT) GROUND BASED: 13-1, 1-3
RTM - GB	RESERVE TREE MARK (YELLOW PAINT) GROUND BASED: 24-1, 26-1, 26-4, 29-2, 31-2, 31-3, 31-4, 31-5, 31-7, 31-8, 35-1, 3-3
RTM - GB/C	RESERVE TREE MARK (YELLOW PAINT) GROUND BASED/BULL LINE LOG: UNITS: 19-2, 34-1
RTM - S	RESERVE TREE MARK (YELLOW PAINT) SKYLINE LOG: UNITS: 26-3
RTM - H	RESERVE TREE MARK (YELLOW PAINT) HELICOPTER LOG: UNIT 31-6, 35-2, 3-1
H - GB	HARVEST TREE MARK (BLUE PAINT) GROUND BASED: UNITS: 19-1, 26-2, 29-1, 31-1, 35-3, 35-4, 35-5, 1-2
H - S	HARVEST TREE MARK (BLUE PAINT) SKYLINE: UNITS: 26-5

U.S.D.I. BLM MEDFORD DISTRICT SALE NO. 15-08
T. 34S. R. 2E., SEC. 13, 24, 26, 34, 35, WILL. MER.
T. 34S. R. 3E., SEC.19, 29, 31, WILL. MER.
T. 35S. R. 2E., SEC. 1, 3, WILL. MER.
EIGHTY ACRE TIMBER SALE

TIMBER SALE CONTRACT MAP
CONTRACT NO. ORM05-TS15-08
EXHIBIT A

Section Number	Unit Number	Unit Acres	Reserve Acres	Contract Acres
13	13-1	14	29	43
24	24-1	36	84	120
26	26-1, 26-2, 26-3, 26-4, 26-5	101	322.73	423.73
34	34-1	8	32	40
35	35-1, 35-2, 35-3, 35-4, 35-5	99	381	480
19	19-1, 19-2	38	105.68	143.68
29	29-1, 29-2	146	214	360
31	31-1, 31-2, 31-3, 31-4, 31-5, 31-6, 31-7, 31-8	169	355.04	524.04
1	1-2, 1-3	47	207.95	254.94
3	3-1, 3-3	91	229.24	320.24
	Totals	749	1960.64	2709.63

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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	3,027		
White Fir	2,150		
Incense-cedar	149		
Ponderosa Pine	118		
Sugar Pine	13		
Sale Totals	**5,457**		

Unit Details (16' MB)

Unit 1-2 **28 Acres** **Value per Acre : $0.00**

Species	Net Volume	Bid Price	Species Value
Douglas-fir	35		
Incense-cedar	3		
White Fir	60		
Unit Totals	**98**		

Unit 1-3 **19 Acres** **Value per Acre : $0.00**

Species	Net Volume	Bid Price	Species Value
Douglas-fir	162		
Incense-cedar	8		
Sugar Pine	2		
White Fir	83		
Unit Totals	**255**		

Unit 13-1 **14 Acres** **Value per Acre : $0.00**

Species	Net Volume	Bid Price	Species Value
Douglas-fir	47		
Incense-cedar	12		
Sugar Pine	1		
White Fir	144		
Unit Totals	**204**		

Unit 19-1 **6 Acres** **Value per Acre : $0.00**

Species	Net Volume	Bid Price	Species Value
Douglas-fir	16		
Incense-cedar			
White Fir	5		
Unit Totals	**21**		

Unit 19-2 **32 Acres** **Value per Acre : $0.00**

Species	Net Volume	Bid Price	Species Value
Douglas-fir	98		
Incense-cedar	10		
Ponderosa Pine			
White Fir	193		
Unit Totals	**301**		

Unit 24-1 **36 Acres** **Value per Acre : $0.00**

Species	Net Volume	Bid Price	Species Value
Douglas-fir	112		
Incense-cedar	3		
Ponderosa Pine			
White Fir	96		
Unit Totals	**211**		

Unit 26-1 **45 Acres** **Value per Acre : $0.00**

Species	Net Volume	Bid Price	Species Value
Douglas-fir	139		
Incense-cedar	10		
Ponderosa Pine	1		
White Fir	104		
Unit Totals	**254**		

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Unit 26-2 **20 Acres** **Value per Acre : $0.00**

Species	Net Volume	Bid Price	Species Value
Douglas-fir	25		
Incense-cedar			
White Fir	46		
Unit Totals	**71**		

Unit 26-3 **22 Acres** **Value per Acre : $0.00**

Species	Net Volume	Bid Price	Species Value
Douglas-fir	73		
Incense-cedar	11		
Sugar Pine	1		
White Fir	100		
Unit Totals	**185**		

Unit 26-4 **7 Acres** **Value per Acre : $0.00**

Species	Net Volume	Bid Price	Species Value
Douglas-fir	33		
Incense-cedar	2		
Ponderosa Pine			
White Fir	11		
Unit Totals	**46**		

Unit 26-5 **7 Acres** **Value per Acre : $0.00**

Species	Net Volume	Bid Price	Species Value
Douglas-fir	20		
White Fir	12		
Unit Totals	**32**		

Unit 29-1 **44 Acres** **Value per Acre : $0.00**

Species	Net Volume	Bid Price	Species Value
Douglas-fir	113		
Incense-cedar	6		
Ponderosa Pine	4		
Sugar Pine	1		
White Fir	68		
Unit Totals	**192**		

Unit 29-2 102 Acres Value per Acre : $0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	226		
Incense-cedar	20		
Ponderosa Pine	2		
Sugar Pine			
White Fir	782		
Unit Totals	**1,030**		

Unit 3-1 **23 Acres** **Value per Acre : $0.00**

Species	Net Volume	Bid Price	Species Value
Douglas-fir	194		
Incense-cedar	5		
Ponderosa Pine	4		
White Fir			
Unit Totals	**203**		

Unit 31-1 **19 Acres** **Value per Acre : $0.00**

Species	Net Volume	Bid Price	Species Value
Douglas-fir	51		
Incense-cedar	1		
Ponderosa Pine	2		
White Fir	35		
Unit Totals	**89**		

Unit 31-2 **59 Acres** **Value per Acre : $0.00**

Species	Net Volume	Bid Price	Species Value
Douglas-fir	182		
Incense-cedar	23		
Ponderosa Pine	40		
Sugar Pine	2		
White Fir	182		
Unit Totals	**429**		

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Unit 31-3 **8 Acres** **Value per Acre : $0.00**

Species	Net Volume	Bid Price	Species Value
Douglas-fir	39		
Incense-cedar	4		
Ponderosa Pine	1		
White Fir	28		
Unit Totals	72		

Unit 31-4 **10 Acres** **Value per Acre : $0.00**

Species	Net Volume	Bid Price	Species Value
Douglas-fir	47		
Incense-cedar	8		
Ponderosa Pine	1		
White Fir	27		
Unit Totals	83		

Unit 31-5 **19 Acres** **Value per Acre : $0.00**

Species	Net Volume	Bid Price	Species Value
Douglas-fir	171		
Incense-cedar	5		
Ponderosa Pine	3		
White Fir	3		
Unit Totals	182		

Unit 31-6 **9 Acres** **Value per Acre : $0.00**

Species	Net Volume	Bid Price	Species Value
Douglas-fir	36		
Incense-cedar			
Ponderosa Pine	4		
White Fir			
Unit Totals	40		

Unit 31-7 **15 Acres** **Value per Acre : $0.00**

Species	Net Volume	Bid Price	Species Value
Douglas-fir	16		
Ponderosa Pine			
White Fir	1		
Unit Totals	17		

Unit 31-8 30 Acres Value per Acre : $0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	176		
Incense-cedar	1		
Ponderosa Pine	5		
Sugar Pine			
White Fir	122		
Unit Totals	**304**		

Unit 3-3 68 Acres Value per Acre : $0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	373		
Incense-cedar	1		
Ponderosa Pine			
Sugar Pine	5		
White Fir	29		
Unit Totals	**408**		

Unit 34-1 8 Acres Value per Acre : $0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	71		
Incense-cedar	3		
Ponderosa Pine	3		
White Fir			
Unit Totals	**77**		

Unit 35-1 6 Acres Value per Acre : $0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	26		
Incense-cedar	1		
White Fir	3		
Unit Totals	**30**		

Unit 35-2 40 Acres Value per Acre : $0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	340		
Incense-cedar	5		
Ponderosa Pine	14		
White Fir	4		
Unit Totals	**363**		

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Unit 35-3 **20 Acres** **Value per Acre : $0.00**

Species	Net Volume	Bid Price	Species Value
Douglas-fir	87		
Incense-cedar	2		
Ponderosa Pine	2		
Sugar Pine			
White Fir	2		
Unit Totals	93		

Unit 35-4 **22 Acres** **Value per Acre : $0.00**

Species	Net Volume	Bid Price	Species Value
Douglas-fir	65		
Incense-cedar	2		
Ponderosa Pine	1		
Sugar Pine	1		
White Fir	1		
Unit Totals	70		

Unit 35-5 **11 Acres** **Value per Acre : $0.00**

Species	Net Volume	Bid Price	Species Value
Douglas-fir	34		
Ponderosa Pine			
Sugar Pine			
White Fir			
Unit Totals	34		

Unit Roadside **1 Acres** **Value per Acre : $0.00**

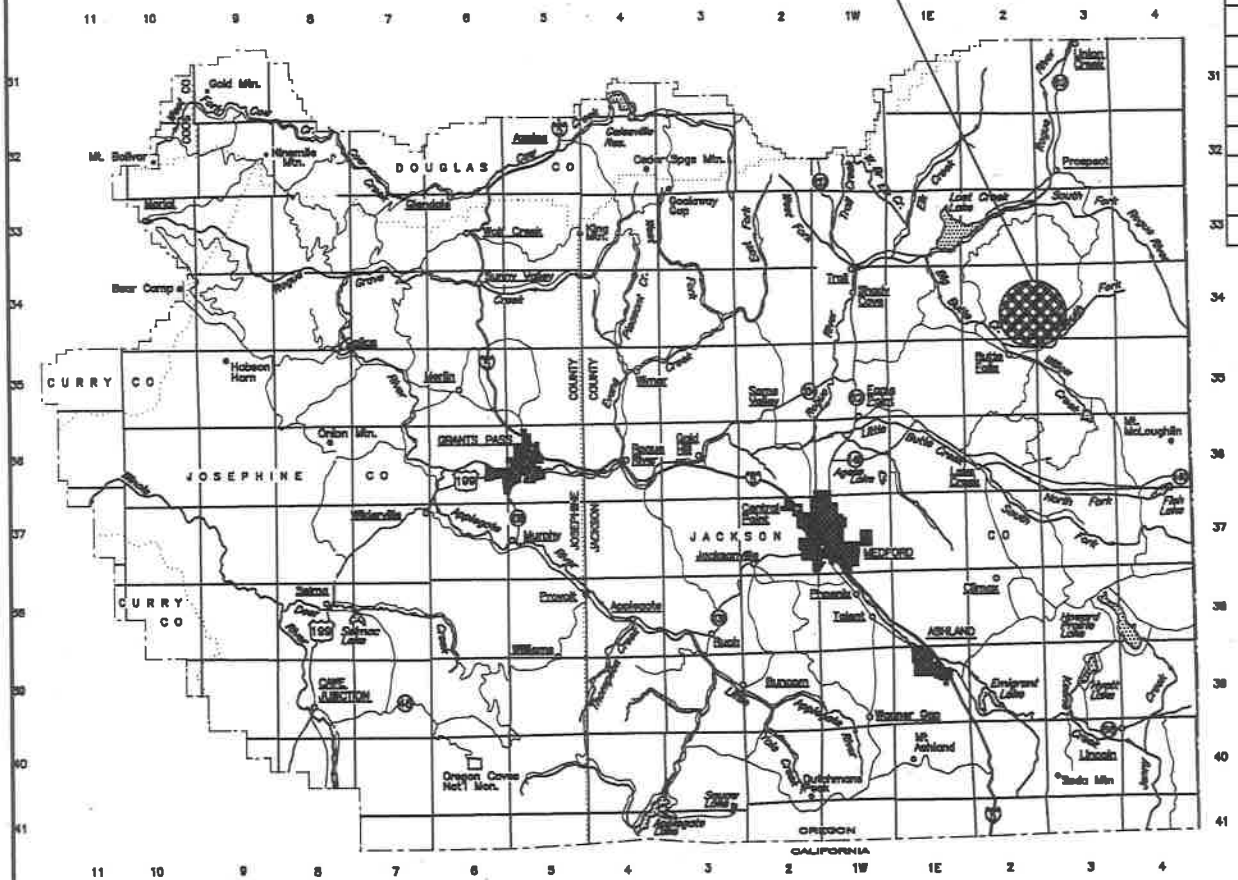
Species	Net Volume	Bid Price	Species Value
Douglas-fir	20		
Incense-cedar	3		
Ponderosa Pine	31		
White Fir	9		
Unit Totals	63		

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
MEDFORD DISTRICT
EIGHTY ACRE TIMBER SALE
TRACT no. ORM05-TS-2016-0012

EXHIBIT C-1
SHEET 1 OF 1

Exhibit No.	Description
C1	TITLE SHEET
C2	ROAD LOCATION MAP
C3	ROADSIDE VEGETATION MANAGEMENT MAP
C4	ESTIMATE OF QUANTITIES
C5	SPECIFICATION SHEET
C6	CULVERT LIST
C7	CULVERT INSTALLATION
C8	CULVERT BAND DETAILS
C9	TYPICAL ROAD DATA
C10	DRAINAGE AND EROSION CONTROL
C11	TYPICAL ARMORED WATER DIP CONSTRUCTION
C12	ROADSIDE BRUSHING AND MAINTENANCE DETAILS
C13	GATE FABRICATION AND INSTALLATION
C14	ROAD RENOVATION WORKLIST
C15	TEMP ROUTE WORKLIST
C16	ROAD SPECIFICATIONS
C17	SPECIAL PROVISIONS
D1	ROAD MAINTENANCE SPECIFICATIONS
D2	ROAD MAINTENANCE MAP
D3	ROAD DECOMMISSIONING WORKLIST
D4	ROAD DECOMMISSION MAP

PROJECT LOCATION



0 6 12
SCALE IN MILES

N

ALWAYS THINK SAFETY

REV. NO.	DESCRIPTION	DATE	APPROV.

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

EIGHTY ACRE T.S.
TITLE SHEET

DESIGNED
REVIEWED
APPROVED

DRAWN BY: BGS	SCALE: AS SHOWN
DATE: April 2016	SHEET: 1 OF 1

DRAWING NO. ORM05-TS-2016-0012-C-01

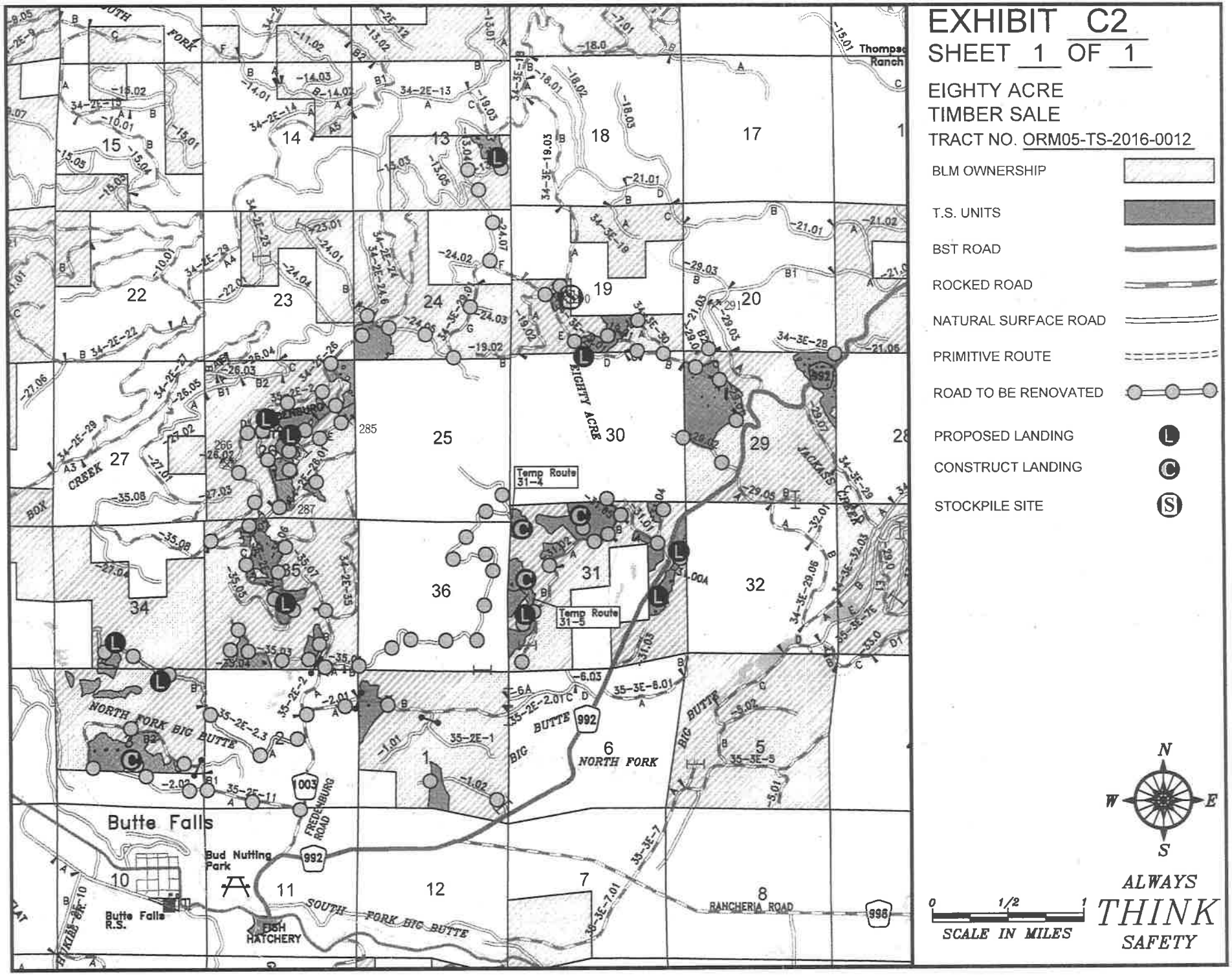


EXHIBIT C2
SHEET 1 OF 1
EIGHTY ACRE
TIMBER SALE
TRACT NO. ORM05-TS-2016-0012
BLM OWNERSHIP
T.S. UNITS
BST ROAD
ROCKED ROAD
NATURAL SURFACE ROAD
PRIMITIVE ROUTE
ROAD TO BE RENOVATED
PROPOSED LANDING
CONSTRUCT LANDING
STOCKPILE SITE
Butte Falls
Bud Nutting Park
Butte Falls R.S.
FISH HATCHERY
FREDENBURG ROAD
SOUTH FORK BIG BUTTE
NORTH FORK BIG BUTTE
BIG BUTTE
NORTH FORK
RANCHERIA ROAD
EIGHTY ACRE
Temp Route 31-4
Temp Route 31-5
N
W
E
S
0
1/2
1
SCALE IN MILES
ALWAYS
THINK
SAFETY

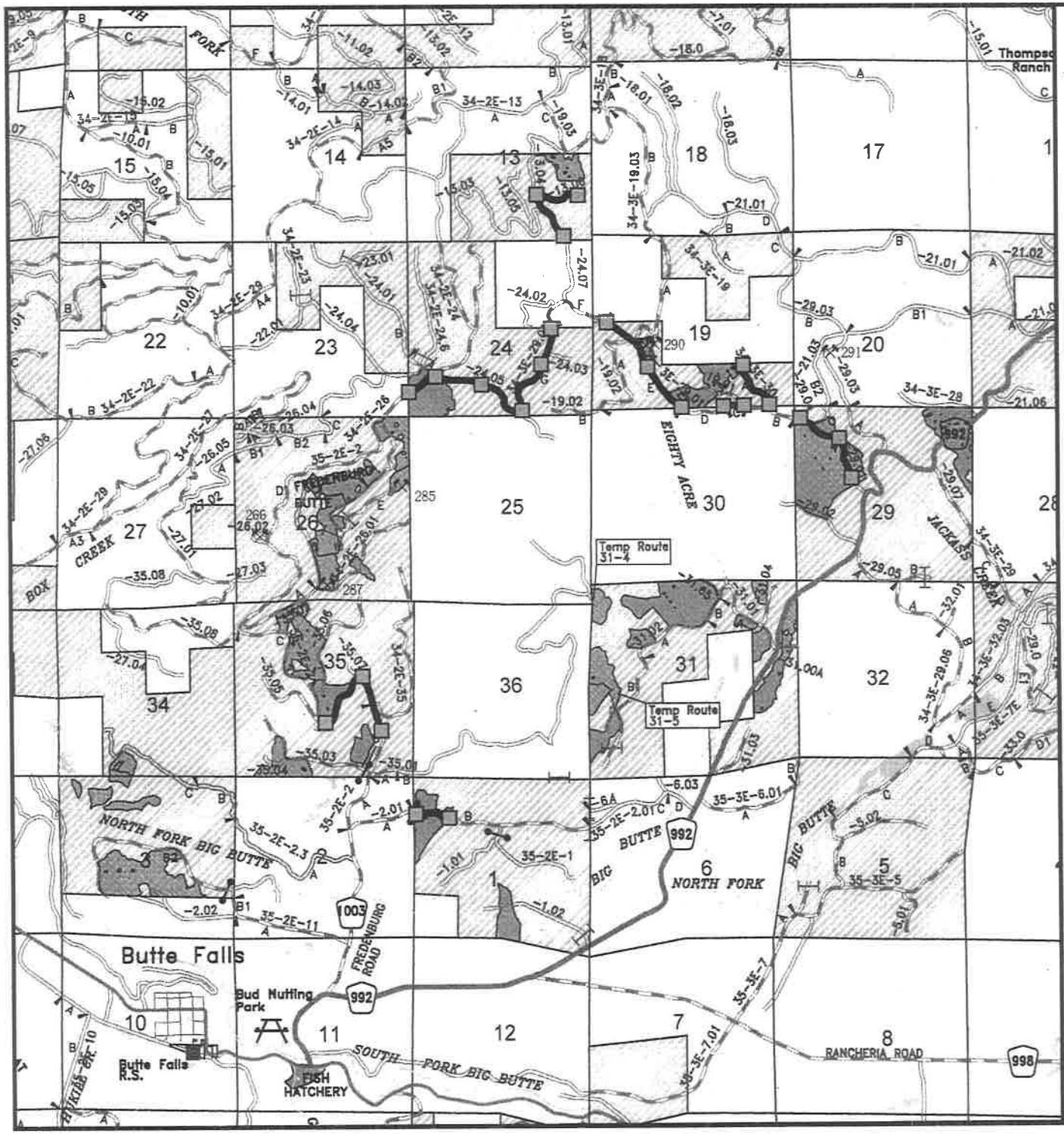


EXHIBIT C3

SHEET 1 OF 1

EIGHTY ACRE
TIMBER SALE

TRACT NO. ORM05-TS-2016-0012

BLM OWNERSHIP

T.S. UNITS

BST ROAD

ROCKED ROAD

NATURAL SURFACE ROAD

PRIMITIVE ROUTE

ROADSIDE VEGETATION MANAGEMENT

N
W E
S

0 1/2 1
SCALE IN MILES

ALWAYS
THINK
SAFETY

EXHIBIT C 4
SHEET 1 OF 3
EIGHTY ACRE TIMBER SALE

ROAD NUMBER	FROM	TO	LENGTH	CLEARING AND GRUBBING	EXCAVATION		CORRUGATED METAL PIPE SIZE						DOWNSPOUT				RENOVATION	ROADSIDE VEGETATION MANAGEMENT	WD/AWD	AGGREGATE**				SOIL STABILIZATION	ROADSIDE BRUSHING - SCATTER	ROADSIDE BRUSHING - CHIP	WATER BARS***	BARRIER*** EARTH / LOG/GATE	DECOMMISSION***
					ROCK	COMMON	18"	24"	30"	36"	48"	ELBOWS	FULL/HALF ROUND		RECT. FLUME					4" MINUS SCREENED BASE	CRUSHED SURFACE (STOCKPILED)	CRUSHED SURFACE	RIPRAP FOR SPLASH PADS CLASS 3						
SPECIFICATION NO.				200	300	300	400	400	400	400	400	400	400	400	400	400	500			900	1200	1200	1400	1800	2100	2100			
UNIT	MP/STA	MP/STA	MILE/STA	ACRE	C.Y.	C.Y.	L.F.	L.F.	L.F.	L.F.	L.F.	EA.	L.F.	L.F.	L.F.	L.F.	MILE	MILE	EA.	C.Y.	C.Y.	C.Y.	C.Y.	ACRE	MILE	MILE	EA	EA	MILE
34-2E-13.04	0.00	0.16	0.16	0.23													0.16	0.16	1	40				0.10	0.16				
34-2E-13.06	0.00	0.28	0.28	0.41													0.28	0.28						0.20	0.28				
34-2E-24.01	0.00	0.05	0.05														0.05								0.05				
34-2E-24.05	0.00	0.62	0.62	0.90													0.62	0.62						0.45	0.62				
34-2E- 24.07	0.00	0.54	0.54	0.25													0.54	0.17						0.10	0.54				
34-2E-26.00	0.00	0.40	0.40	0.26													0.40	0.18						0.10	0.40				
34-2E-26.01	0.00	0.34	0.34														0.34		4	160					0.34				
34-2E-26.07	0.00	0.11	0.11														0.11								0.11		3	1	0.11
34-2E-35.01	0.00	2.88	2.88														2.88								2.88				
34-2E-35.02A	0.00	0.53	0.53				30										0.53		2	80	20			0.10	0.53				
34-2E-35.02B	0.53	1.17	0.64														0.64			20					0.64		22	1	0.64
34-2E-35.03	0.00	0.63	0.63					70	50								0.63		2	80	60		6	0.30	0.63				
34-2E-35.04	0.00	0.10	0.10														0.10								0.10		3	1	0.10
34-2E-35.06	0.00	0.41	0.41														0.41		3	120					0.41				
34-2E-35.09	0.00	0.10	0.10														0.10								0.10		3	1	0.10
34-3E-19.01	0.00	0.21	0.21														0.21		2	80						0.21	7	1	0.10
34-3E-19.03	0.00	0.19	0.19														0.19								0.19				
34-3E-21.03	0.00	0.20	0.20														0.20								0.20			1	
34-3E-28.00	0.00	0.14	0.14														0.14								0.14				
34-3E-29.01	0.00	2.99	2.99	2.76			64	70		156							2.99	1.90			160		12	2.10	2.99				
34-3E-29.02	0.00	0.44	0.44				30										0.44				20			0.10	0.44				
34-3E-30.00	0.00	0.38	0.38	0.51													0.38	0.35						0.25		0.38			
SUB-TOTAL			12.34	5.32			124	140	50	156							12.34	3.66	14	580	260		18	3.80	11.75	0.59	38	6	1.05

ITEM 900

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

ITEM 1000

SIZE	GRADE
3 inch	A,F
2 inch	B,C,G
1 1/2 inch	D
1 inch	E

ITEM 1200

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

ALWAYS THINK SAFETY

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

**Indicate gradation.

***Work to be completed under Exhibit D

REV. NO.	DESCRIPTION		DATE	APPROV.

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

ESTIMATE OF QUANTITIES*

DRAWN: BGS	SCALE NONE
DATE: April 2016	SHEET 1 OF 3
DRAWING NO.	ORM05-TS-2016-0012-C-04

EXHIBIT C 4
SHEET 2 OF 3
EIGHTY ACRE TIMBER SALE

ROAD NUMBER	FROM	TO	LENGTH	CLEARING AND GRUBBING	EXCAVATION		CORRUGATED METAL PIPE SIZE					ELBOWS	DOWNSPOUT				RENOVATION	ROADSIDE VEGETATION MANAGEMENT	WD/AWD	AGGREGATE**				SOIL STABILIZATION	ROADSIDE BRUSHING - SCATTER	ROADSIDE BRUSHING - CHIP	WATER BARS***	BARRIER***, EARTH/LOG/GATE	DECOMMISSION***
					ROCK	COMMON	18"	24"	30"	36"	48"		FULL/HALF ROUND		RECT. FLUME					4" MINUS SCREENED BASE	CRUSHED SURFACE (STOCKPILED)	CRUSHED SURFACE	RIPRAP FOR SPLASH PADS CLASS 3						
SPECIFICATION NO.				200	300	300	400	400	400	400	400	400	400	400	400	400	500			800	900	1000	1200	1800	2100	2100			
	MP/STA	MP/STA	MILE/STA	ACRE	C.Y.	C.Y.	L.F.	L.F.	L.F.	L.F.	L.F.	EA.	L.F.	L.F.	L.F.	L.F.	MILE	MILE	EA.	C.Y.	C.Y.	C.Y.	C.Y.	ACRE	MILE	MILE	EA	EA	MILE
34-3E-31.00	0.00	0.10	0.10														0.10								0.10				
34-3E-31.01	0.00	0.95	0.95				38	60									0.95		4	160	60		4	0.30	0.95		3	1	0.10
34-3E-31.02	0.00	0.94	0.94														0.94		6	290					0.94				
34-3E-31.04	0.00	0.26	0.26														0.26		2	80					0.26				
34-3E-31.05	0.00	0.13	0.13														0.13								0.13		4	2	0.13
34-3E-31.06	0.00	0.27	0.27														0.27								0.27		5	1	0.15
34-3E-31.07	0.00	0.05	0.05														0.05								0.05				
35-2E-1.02	0.00	0.57	0.57														0.57								0.57		20	1	0.57
35-2E-2.00	0.00	5.56	5.56	1.11			450	132		46	44		20				5.56	0.76			340		13	2.25	5.56			1	
35-2E-2.01	0.00	0.60	0.60	0.31													0.60	0.21	1	40				0.15	0.60			1	
35-2E-2.02	0.00	0.45	0.45														0.45								0.45				
35-2E-2.03	0.00	1.73	1.73														1.73			50					1.73		17	3	0.49
35-2E-3.01	0.00	0.22	0.22														0.22								0.22		7	1	0.22
35-2E-11.00	0.00	2.00	2.00														2.00								2.00				
SUB-TOTAL			13.83	1.42			488	192		46	44		20				13.83	0.97	13	620	400		17	2.70	13.83		56	11	1.66
TOTAL			26.17	6.74			612	332	50	202	44		20				26.17	4.63	26	1200	660		35	6.50	25.58	0.59	94	17	2.71

ITEM 900

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

ITEM 1000

SIZE	GRADE
3 inch	A,F
2 inch	B,C,G
1 1/2 inch	D
1 inch	E

ITEM 1200

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

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

**Indicate gradation.

***Work to be completed under Exhibit D

ALWAYS THINK SAFETY

REV. NO.	DESCRIPTION		DATE	APPROV.

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

ESTIMATE OF QUANTITIES*

DRAWN: BGS	SCALE NONE
DATE: April 2016	SHEET 2 OF 3
DRAWING NO.	ORM05-TS-2016-0012-C-04

EXHIBIT C 4
SHEET 3 OF 3
EIGHTY ACRE TIMBER SALE

ROAD NUMBER	FROM	TO	LENGTH	CLEARING AND GRUBBING	EXCAVATION		CORRUGATED METAL PIPE SIZE					ELBOWS	DOWNSPOUT				NEW CONSTRUCTION	RECONSTRUCTION	WD/AWD	AGGREGATE**				SOIL STABILIZATION	ROADSIDE BRUSHING - SCATTER	ROADSIDE BRUSHING - CHIP	WATER BARS***	EARTH / LOG BARRIER***	DECOMMISSION***
					ROCK	COMMON	18"	24"	30"	36"	48"		FULL/HALF ROUND		RECT. FLUME					4" MINUS SCREENED BASE	CRUSHED SURFACE (STOCKPILED)	CRUSHED SURFACE	RIPRAP FOR SPLASH PADS CLASS 3						
SPECIFICATION NO.				200	300	300	400	400	400	400	400	400	400	400	400	400	500	500		800	900	1000	1200	1800	2100	2100			
	MP/STA	MP/STA	MILE/STA	ACRE	C.Y.	C.Y.	L.F.	L.F.	L.F.	L.F.	L.F.	EA.	L.F.	L.F.	L.F.	L.F.	MILE	MILE	EA.	C.Y.	C.Y.	C.Y.	C.Y.	ACRE	MILE	MILE	EA	EA	MILE
Temp Route 31-4	0.00	0.10	0.10	0.30													0.10							0.30			3	1	0.10
Temp Route 31-5	0.00	0.22	0.22	0.67													0.22							0.67			6	1	0.22
TOTAL			0.32	0.97													0.32							0.97			9	2	0.32

ITEM 900

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

ITEM 1000

SIZE	GRADE
3 inch	A,F
2 inch	B,C,G
1 1/2 inch	D
1 inch	E

ITEM 1200

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

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

**Indicate gradation.

***Work to be completed under Exhibit D

ALWAYS THINK SAFETY

REV. NO.	DESCRIPTION		DATE	APPROV.

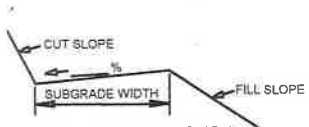
UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT
MEDFORD DISTRICT MEDFORD, OREGON

TEMP ROUTE ESTIMATE OF QUANTITIES*

DRAWN: BGS	SCALE NONE
DATE: April 2016	SHEET 3 OF 3
DRAWING NO.	ORM05-TS-2016-0012-C-04

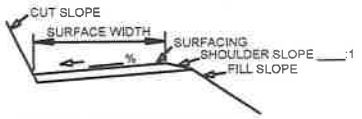
EXHIBIT C 5
SHEET 1 OF 2
EIGHTY ACRE T.S.

ROAD NUMBER	STATION OR MILE POST	TO STATION OR MILE POST	LENGTH MILE OR STATION	TYPICAL SECTION TYPE	ALLIGNMENT	ROAD WIDTH (1-3)		GRADIENT		CLEARING WIDTH				SURFACING (4)								REMARKS
					MAXIMUM DEGREE OF CURVE	SUBGRADE	DITCH	MAXIMUM FAVORABLE	MAXIMUM ADVERSE	BEYOND		EXISTING ROAD(S)		BASE COURSE				SURFACE COURSE				
										TOP CUT	TOE FILL	L	R	MINIMUM WIDTH	COMP. DEPTH	TYPE (2)	GRADING	MINIMUM WIDTH	COMP. DEPTH	TYPE (2)	GRADING	
34-2E-13.4	0.00	0.16	0.16	5		14	3					6	6									
34-2E-13.6	0.00	0.28	0.28	3		14	0					6	6									
34-2E-24.1	0.00	0.05	0.05	3		14	0					6	6									
34-2E-24.5	0.00	0.62	0.62	3		14	0					6	6									
34-2E-24.7	0.00	0.54	0.54	5		14	3					6	6									
34-2E-26.0	0.00	0.40	0.40	5		16	3					6	6									
34-2E-26.1	0.00	0.34	0.34	5		14	3					6	6									
34-2E-26.07	0.00	0.11	0.11	3		14	0					6	6									
34-2E-35.1	0.00	2.88	2.88	5		16	3					6	6									
34-2E-35.2A	0.00	0.53	0.53	5		14	3					6	6									
34-2E-35.2B	0.53	1.17	0.64	3		12	0					6	6									
34-2E-35.3	0.00	0.63	0.63	5		14	3					6	6									
34-2E-35.4	0.00	0.10	0.10	3		14	0					6	6									
34-2E-35.6	0.00	0.41	0.41	5		16	3					6	6									
34-2E-35.9	0.00	0.10	0.10	3		12	0					6	6									
34-3E-19.1	0.00	0.21	0.21	5		14	3					6	6									
34-3E-19.3	0.00	0.19	0.19	6		14	3					6	6									
34-3E-21.3	0.00	0.20	0.20	5		14	3					6	6									
34-3E-28.00	0.00	0.14	0.14	5		14	3					6	6									
34-3E-29.1	0.00	2.99	2.99	5		16	3					6	6									
34-3E-29.2	0.00	0.44	0.44	5		14	3					6	6									



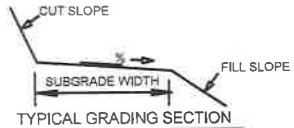
TYPICAL GRADING SECTION

TYPE 1



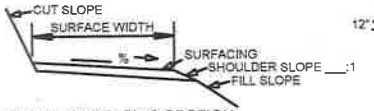
TYPICAL SURFACING SECTION

TYPE 2



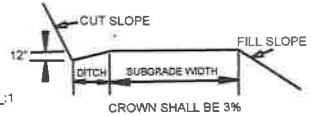
TYPICAL GRADING SECTION

TYPE 3



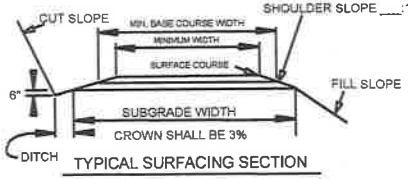
TYPICAL SURFACING SECTION

TYPE 4



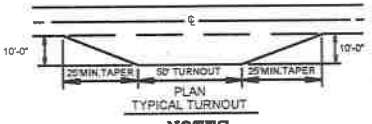
TYPICAL GRADING SECTION

TYPE 5



TYPICAL SURFACING SECTION

TYPE 6



PLAN
TYPICAL TURNOUT

NOTES

1. EXTRA SUBGRADE WIDTHS
ADD TO EACH FILL SHOULDER 1FT.FOR FILLS OF 1-6FT., & 2FT.FOR FILLS OVER 6FT. WIDEN THE INSIDE SHOLDER OF ALL CURVES AS FOLLOWS:
WHEN THE DEGREE OF CURVE EQUALS
7-21 ADD 1FT.
22-35 ADD 2FT.
36-48 ADD 3FT.
49-64 ADD 4FT.
65-86 ADD 5FT.

MATERIALS	CUT SLOPES	FILL SLOPES
COMMON	_____	1 1/2:1
SOFT ROCK & SHALE	1/2:1	_____
SOLID ROCK	1/2:1	ANGLE OF REPOSE

FULL BENCH CONSTRUCTION IS REQUIRED ON SIDE SLOPES EXCEEDING 60%.

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

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

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

5. CLEARING WIDTH
SEE SUBSECTION 2100

ALWAYS THINK SAFETY

REV. NO.	DESCRIPTION	DATE	APPROV.

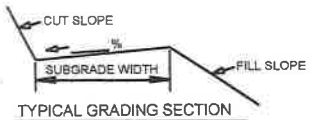
UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT MEDFORD DISTRIC
MEDFORD, OREGON

SPECIFICATION SHEET

DESIGNED	
REVIEWED	
APPROVED	
DRAWN: BGS	SCALE NONE
DATE: April 2016	SHEET 1 OF 2
DRAWING NO.	ORM05-TS-2016-0012-C-05

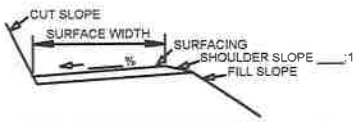
EXHIBIT C 5
SHEET 2 OF 2
EIGHTY ACRE T. S.

ROAD NUMBER	STATION OR MILE POST	TO STATION OR MILE POST	LENGTH MILE OR STATION	TYPICAL SECTION TYPE	ALLIGNMENT	ROAD WIDTH (1-3)		GRADIENT		CLEARING WIDTH				SURFACING (4)								REMARKS
					MAXIMUM DEGREE OF CURVE	SUBGRADE	DITCH	MAXIMUM FAVORABLE	MAXIMUM ADVERSE	BEYOND		EXISTING ROAD(S)		BASE COURSE				SURFACE COURSE				
										TOP CUT	TOE FILL	L	R	MINIMUM WIDTH	COMP. DEPTH	TYPE (2)	GRADING	MINIMUM WIDTH	COMP. WIDTH	TYPE (2)	GRADING	
34-3E-30.00A	0.00	0.38	0.38	5		14	3					6	6									
34-3E-31.00	0.00	0.10	0.10	5		14	3					6	6									
34-3E-31.01	0.00	0.95	0.95	5		16	3					6	6									
34-3E-31.02	0.00	0.94	0.94	5		16	3					6	6									
34-3E-31.04	0.00	0.26	0.26	3		12	3					6	6									
34-3E-31.05	0.00	0.13	0.13	5		14	3					6	6									
34-3E-31.06	0.00	0.27	0.27	3		14	0					6	6									
34-3E-31.07	0.00	0.05	0.05	3		12	0					6	6									
35-2E-1.02	0.00	0.57	0.57	5		14	0					6	6									
35-2E-2.00	0.00	5.56	5.56	5		16	3					6	6									
35-2E-2.01	0.00	0.60	0.60	5		14	3					6	6									
35-2E-2.02	0.00	0.45	0.45	5		12	0					6	6									
35-2E-2.03	0.00	1.73	1.73	5		12	3					6	6									
35-2E-3.1	0.00	0.22	0.22	3		12	0					6	6									
35-2E-11.0	0.00	2.00	2.00	5		12	3					6	6									



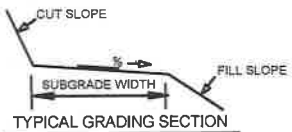
TYPICAL GRADING SECTION

TYPE 1



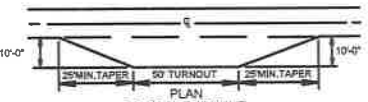
TYPICAL SURFACING SECTION

TYPE 2



TYPICAL GRADING SECTION

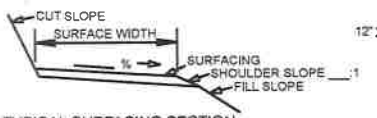
TYPE 3



PLAN
TYPICAL TURNOUT

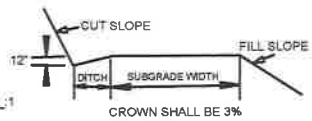
NOTES

1. EXTRA SUBGRADE WIDTHS
ADD TO EACH FILL SHOULDER 1FT.FOR FILLS OF 1-6FT. & 2FT.FOR FILLS OVER 6FT. WIDEN THE INSIDE SHOLDER OF ALL CURVES AS FOLLOWS:
WHEN THE DEGREE OF CURVE EQUALS
7-21 ADD 1FT.
22-35 ADD 2FT.
36-48 ADD 3FT.
49-64 ADD 4FT.
65-86 ADD 5FT.



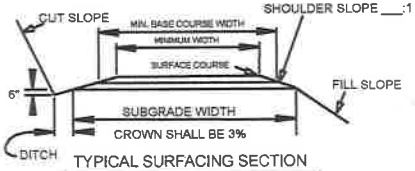
TYPICAL SURFACING SECTION

TYPE 4



TYPICAL GRADING SECTION

TYPE 5



TYPICAL SURFACING SECTION

TYPE 6

MATERIALS	CUT SLOPES	FILL SLOPES
COMMON	_____	1 1/2:1
SOFT ROCK & SHALE	1/2:1	_____
SOLID ROCK	1/2:1	ANGLE OF REPOSE

FULL BENCH CONSTRUCTION IS REQUIRED ON SIDE SLOPES EXCEEDING 60%.

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

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

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

5. CLEARING WIDTH
SEE SUBSECTION 2100

ALWAYS THINK SAFETY

REV. NO.	DESCRIPTION	DATE	APPROV.

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

SPECIFICATION SHEET

DRAWN: BGS	SCALE NONE
DATE: April 2016	SHEET 2 OF 2
DRAWING NO.	ORM05-TS-2016-0012-C-05

EXHIBIT C 6
SHEET 1 OF 2

CULVERT LOCATIONS										DOWNSPOUTS								
DESIGNED						AS BUILT				1/2 ROUND		FULL ROUND		RECT. FLUME				
ROAD NO.	STATION OR M.P.	SIZE (in.)	GAGE	LENGTH (ft.)	SKEW ANGLE	STATION OR M.P.	SIZE	GAGE	LENGTH	SIZE	LENGTH	SIZE	LENGTH	SIZE	LENGTH	TYPE OF ELBOW*	SPLASH PADS - CY	REMARKS (install type)
34-2E-35.02 A	0.34	18	16	30														Inst. 3
34-2E-35.03	0.08	24	14	36													2	Inst. 1
34-2E-35.03	0.23	24	14	34													2	Inst. 1
34-2E-35.03	0.60	30	14	50													2	Inst. 1
34-3E-29.01	1.96	24	14	40													2	Inst. 1
34-3E-29.01	2.22	18	16	34														Inst. 3
34-3E-29.01	2.25	36	14	32													2	Inst. 1
34-3E-29.01	2.32	36	14	40													2	Inst. 1
34-3E-29.01	2.34	36	14	34													2	Inst. 1
34-3E-29.01	2.47	18	16	30														Inst. 3
34-3E-29.01	2.87	36	14	50													2	Inst. 1
34-3E-29.01	2.96	24	14	30													2	Inst. 1
34-3E-29.02	0.18	18	16	30														Inst. 3
34-3E-31.01	0.02	24	14	30													2	Inst. 1
34-3E-31.01	0.61	24	14	30													2	Inst. 1
34-3E-31.01	0.84	18	16	38														Inst. 3
35-2E-2.00	0.08	48	12	44													5	Inst. 1
35-2E-2.00	0.22	18	16	36														Inst. 3
35-2E-2.00	0.65	24	14	44													2	Inst. 1
35-2E-2.00	0.79	24	14	38													2	Inst. 1
35-2E-2.00	0.84	36	14	46													2	Inst. 1
35-2E-2.00	1.09	18	16	44														Inst. 3
	TOTAL 18" CMP: See Sheet 2																	
	TOTAL 24" CMP: See Sheet 2																	
	TOTAL 30" CMP: See Sheet 2																	
	TOTAL 36" CMP: See Sheet 2																	
	TOTAL 48" CMP: See Sheet 2																	

NOTES:

A. Designed culvert lengths and locations are approximate. Actual lengths and locations will be staked in the field.
B. Summary of quantities are shown on drawing ORM05-TS-2016-0012-C-04
C. All downpipes are 16 guage unless otherwise noted.

ELBOW TYPES:*

1. Conventional or fabricated
2. Turner type
3. Slip joint

ALWAYS THINK SAFETY

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

EIGHTY ACRE T.S.
MEDFORD CULVERT LIST OREGON

DRAWN: BGS	SCALE: AS SHOWN
DATE: April 2016	SHEET: 1 OF 2
DRAWING NO. ORM05-TS-2016-0012-C-06	

EXHIBIT C 6
SHEET 2 OF 2

CULVERT LOCATIONS										DOWNSPOUTS								
DESIGNED						AS BUILT				1/2 ROUND		FULL ROUND		RECT. FLUME				
ROAD NO.	STATION OR M.P.	SIZE (in.)	GAGE	LENGTH (ft.)	SKEW ANGLE	STATION OR M.P.	SIZE	GAGE	LENGTH	SIZE	LENGTH	SIZE	LENGTH	SIZE	LENGTH	TYPE OF ELBOW*	SPLASH PADS - CY	REMARKS
35-2E-2.00	1.16	18	16	40														Inst. 3
35-2E-2.00	1.68	18	16	34														Inst. 3
35-2E-2.00	1.79	18	16	36														Inst. 3
35-2E-2.00	1.85	18	16	38														Inst. 3
35-2E-2.00	2.14	18	16	38														Inst. 3
35-2E-2.00	2.48	18	16	40														Inst. 3
35-2E-2.00	2.87	18	16	36														Inst. 3
35-2E-2.00	3.03	18	16	40														Inst. 3
35-2E-2.00	3.26	18	16	34														Inst. 3
35-2E-2.00	3.41	18	16	34								18	20			2		Inst. 3
35-2E-2.00	3.84	24	14	50													2	Inst. 3
	TOTAL 18" CMP: 612'												20					
	TOTAL 24" CMP: 332'																18	
	TOTAL 30" CMP: 50'																2	
	TOTAL 36" CMP: 202'																10	
	TOTAL 48" CMP: 44'																5	

NOTES:

A. Designed culvert lengths and locations are approximate. Actual lengths and locations will be staked in the field.
B. Summary of quantities are shown on drawing ORM05-TS-2016-0012-C-04
C. All downpipes are 16 guage unless otherwise noted.

ELBOW TYPES:*

1. Conventional or fabricated
2. Turner type
3. Slip joint

ALWAYS THINK SAFETY

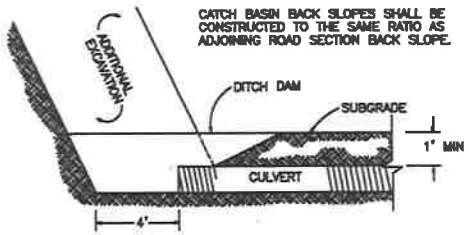
UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
MEDFORD DISTRICT - MEDFORD, OREGON

EIGHTY ACRE T.S.

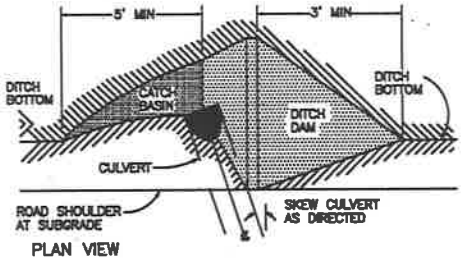
MEDFORD CULVERT LIST OREGON

DRAWN: BGS	SCALE: AS SHOWN
DATE: April 2016	SHEET: 2 OF 2
DRAWING NO. ORM05-TS-2016-0012-C-08	

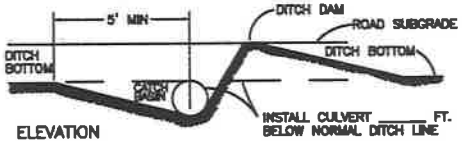
EXHIBIT C 7
SHEET 1 OF 1



CROSS SECTION AT CATCH BASIN

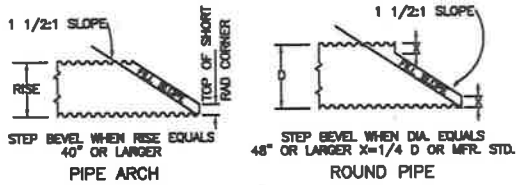


PLAN VIEW

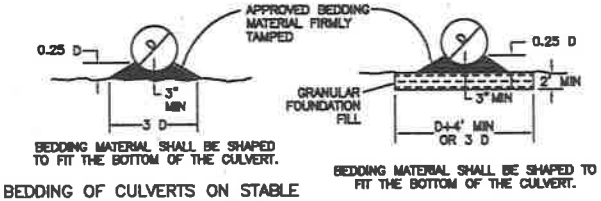


ELEVATION

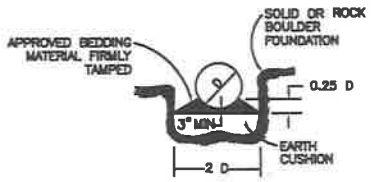
CATCH BASIN



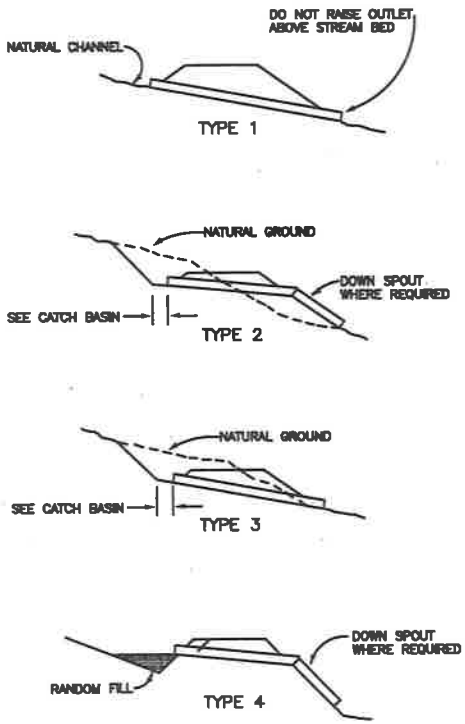
BEVELED END DETAIL



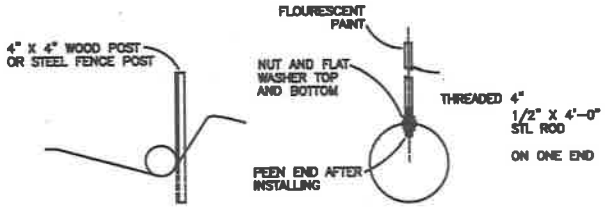
BEDDING OF CULVERTS



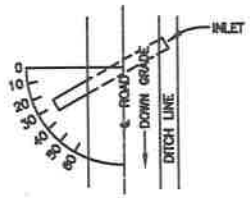
BEDDING OF CULVERT IN SOLID ROCK OR BOULDER FOUNDATION



CULVERT INSTALLATION TYPES



CULVERT MARKER INSTALLATION



SKEW DIAGRAM

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

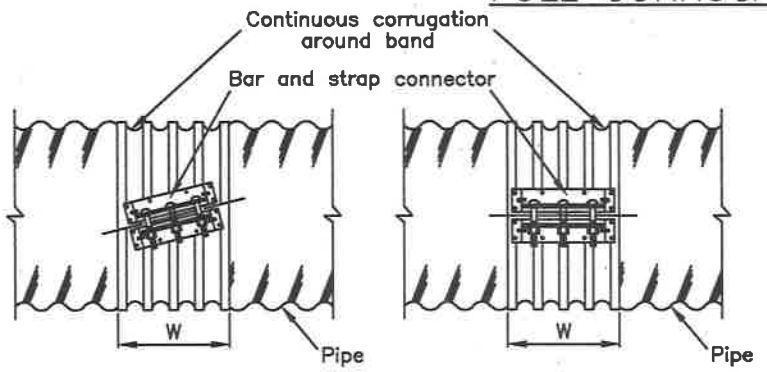
EIGHTY ACRE T.S. CULVERT INSTALLATION DETAILS

DRAWN: BGS	SCALE: NONE
DATE: April 2016	SHEET: 1 OF 1

DRAWING NO. ORM05-TS-2016-0012-C-07

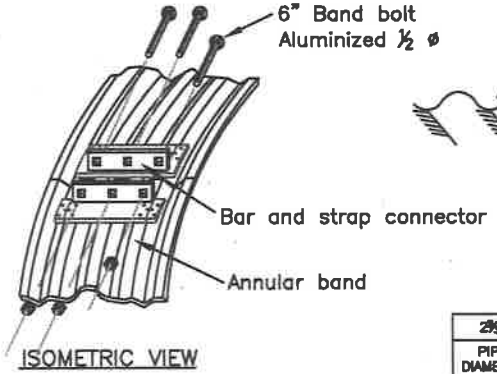
EXHIBIT C 8
SHEET 1 OF 1

FULL CORRUGATED BAND (ALUMINIZED)

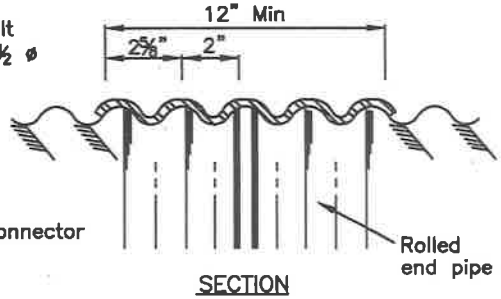


HELICAL COUPLING

ANNULAR COUPLING



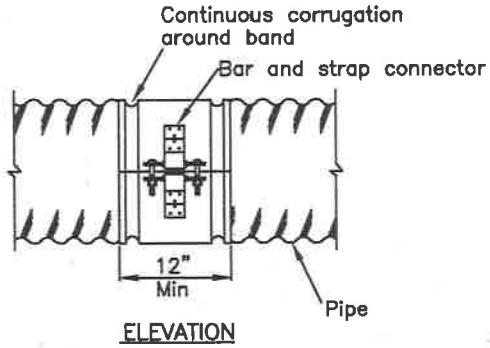
ISOMETRIC VIEW



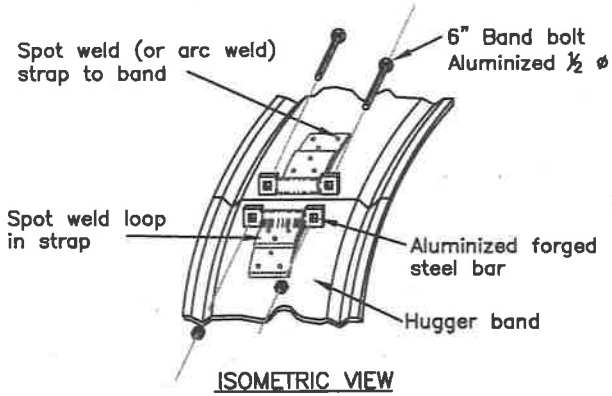
SECTION

2⅔"x½" CORRUGATIONS				3"x1" CORRUGATIONS			
PIPE DIAMETER (in)	W(in) ANN.	W(in) HEL.	#of ½" Bolts	PIPE DIAMETER (in)	W(in) ANN.	W(in) HEL.	#of ½" Bolts
6–10	7	7	2	36–84	14	14	3
12–15	7	12	2–3	36–120	28	28	5
18–84	12	12	3				
24–84	24	24	5				

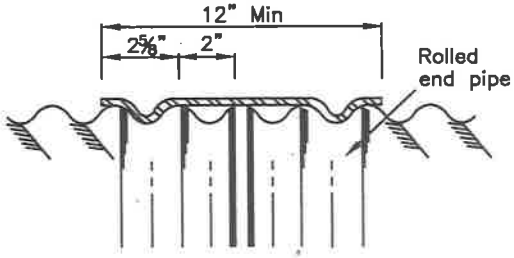
"HUGGER" BAND



ELEVATION



ISOMETRIC VIEW



SECTION

Standard construction is 1 piece 12" thru 48" and 2 piece 54" and above.

The hugger coupler band or an approved equivalent coupler band shall be made of the same material and finish as the pipes joined. The coupler bands shall have a minimum width of 12 inches and may be two numerical thicknesses lighter than the gage or thickness designated for the conduit joined. The band shall be designed to be drawn together with two 1/2 inch bolts through use of a bar and strap suitably welded to the band. The band shall engage and mesh with the second annuler corrugation inward from the end of each of the conduit sections joined.

Annular corrugated couplers for pipe shall cover at least two outside crest corrugations on each recorrugated end.

REV. NO.	DESCRIPTION	DATE	APPROV.

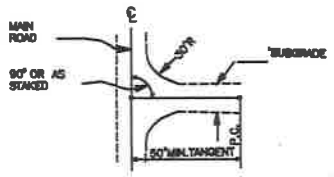
UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
MEDFORD DISTRICT – MEDFORD, OREGON

EIGHTY ACRE T.S.
CULVERT BAND DETAIL

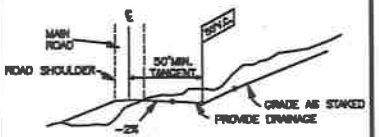
DRAWN: BGS	SCALE: NONE
DATE: April 2016	SHEET: 1 OF 1
DRAWING NO. ORM05–TS–2016–0012–C–08	

EXHIBIT C 9
SHEET 1 OF 1

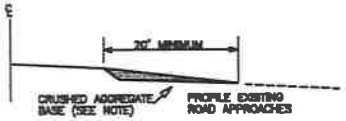
TYPICAL ROAD APPROACHES



PLAN

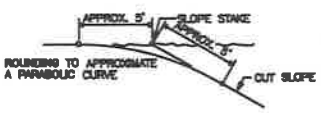


PROFILE

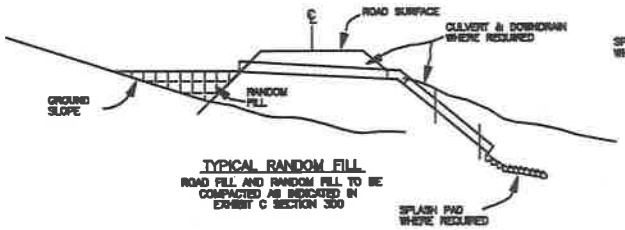


TYPICAL SURFACING SECTION

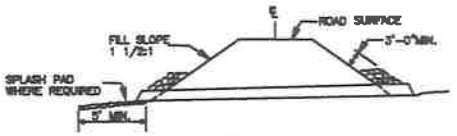
NOTES:
1. THE PROFILE OF EXISTING APPROACH ROADS SHALL BE TAPERED TO MEET THE SHOULDER LINE OF THE MAIN ROADWAY AND SHALL RECEIVE THE SAME SURFACING SURFACE.
2. THE CRUSHED AGGREDATE BASE SHALL BE OF THE SAME GRADATION AS USED IN THE ADJACENT ROADBED.
3. APPROACHES SHALL BE FINISHED WITH THE SAME TREATMENT AS SHOWN FOR THE ADJACENT ROADBED.



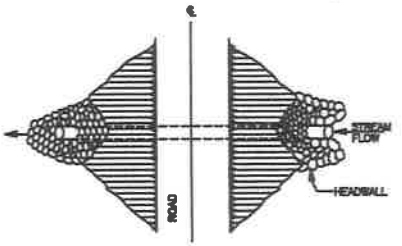
CUT SLOPE ROUNDING



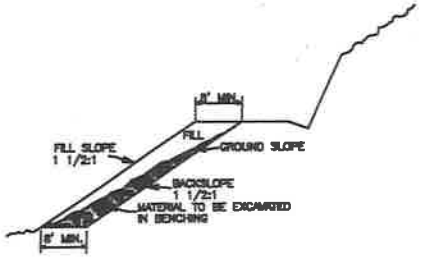
TYPICAL RANDOM FILL
ROAD FILL AND RANDOM FILL TO BE COMPACTED AS INDICATED IN EXHIBIT C SECTION 300



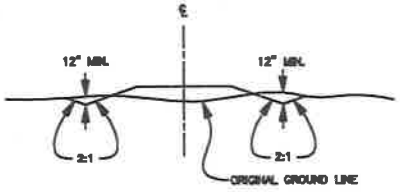
CROSS SECTION



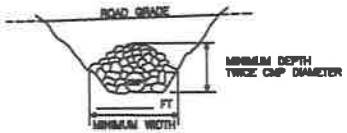
PLAN



SPECIAL COMPACTION
TYPICAL BENCHING SECTION



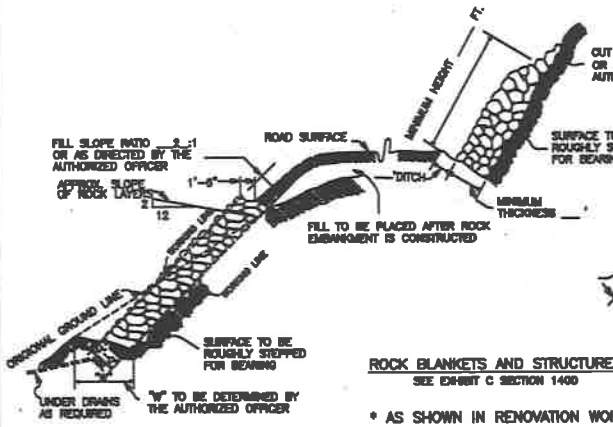
TYPICAL ROAD SECTION
FOR TURNPIKE CONSTRUCTION



ELEVATION

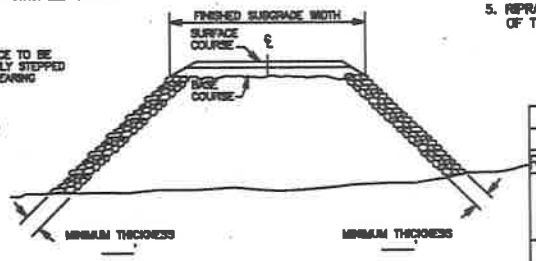
NOTES: RIPRAP AT CULVERTS

1. RIPRAP SHALL BE PLACED IN SUCH A MANNER THAT IT WILL NOT DAMAGE THE CULVERT.
2. TRENCHING WILL BE DONE AS REQUIRED BY THE AUTHORIZED OFFICER.
3. MINIMUM DEPTH OF SPLASH PADS SHALL BE ___1___ FT
4. MINIMUM QUANTITY IS STATED IN WORKLIST.
5. RIPRAP SHALL BE PLACED BEFORE OCTOBER FIRST OF THE YEAR THE CMP IS INSTALLED.



ROCK BLANKETS AND STRUCTURE
SEE EXHIBIT C SECTION 1400

* AS SHOWN IN RENOVATION WORKLIST.



SLOPE PROTECTION ROCK
SEE EXHIBIT C SECTION 1400

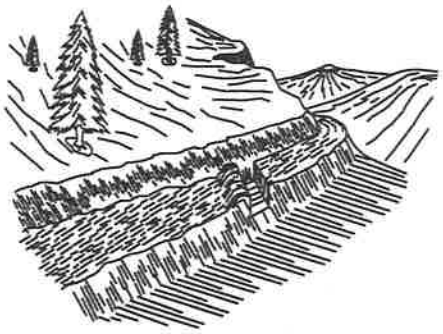
ALWAYS THINK SAFETY

REV. NO.	DESCRIPTION	DATE	APPROV.

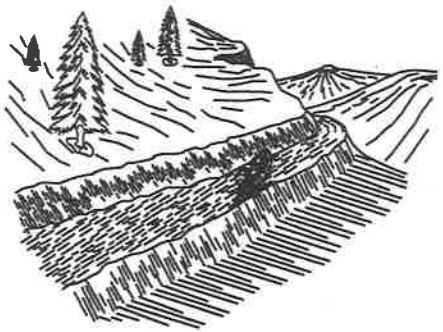
UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
MEDFORD DISTRICT – MEDFORD, OREGON

EIGHTY ACRE T.S.
TYPICAL ROAD DATA

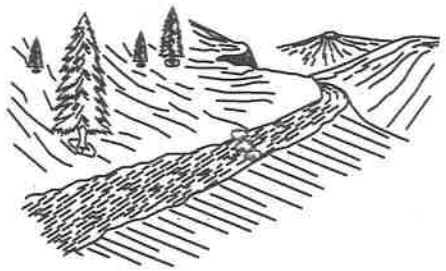
DRAWN: BGS	SCALE: NONE
DATE: April 2016	SHEET: 1 OF 1
DRAWING NO. ORM05-TS-2016-0012-C-09	



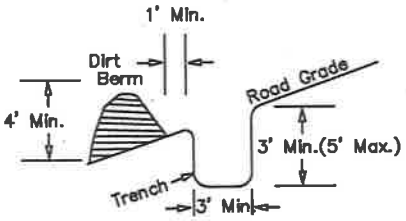
TRENCH BARRICADE



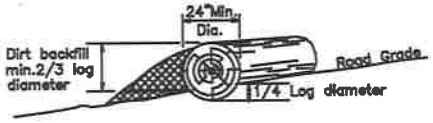
LOG BARRICADE



ROCK BARRICADE



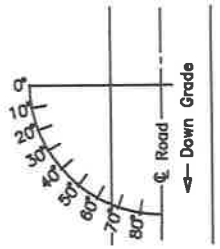
1. BARRICADE LENGTH SHALL EXTEND ACROSS THE ENTIRE ROAD SURFACE TO A POINT SUFFICIENT TO PROHIBIT MOTOR VEHICLE TRAFFIC.
2. THE EXACT LOCATION SHALL BE AS STAKED IN THE FIELD.
3. THE BARRICADE SHALL BE SKEWED AS NEEDED TO DRAIN OR AS DIRECTED BY THE AUTHORIZED OFFICERS REPRESENTATIVE.
4. A MINIMUM OF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



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".

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

SKEW DIAGRAM



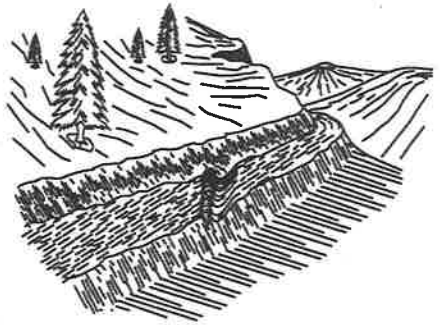
REV. NO.	DESCRIPTION	DATE	APPROV.

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

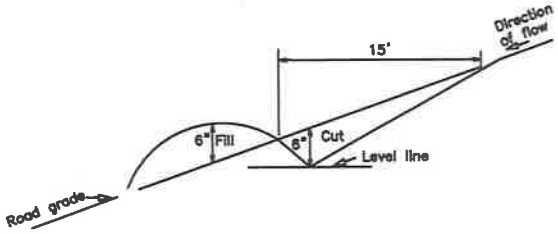
DRAINAGE & EROSION CONTROL INSTALLATION

DRAWN BGS	SCALE NONE
DATE April 2016	SHEET 1 OF 2
DRAWING NO. ORM05-TS-2016-0012-C-10	

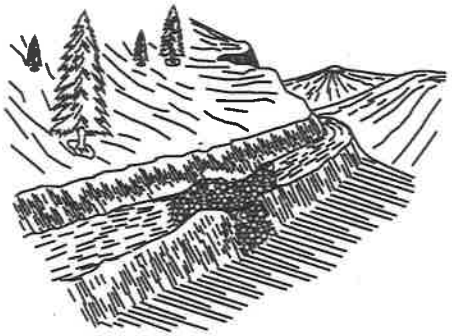
EXHIBIT C–10
SHEET 2 OF 2



WATER BAR

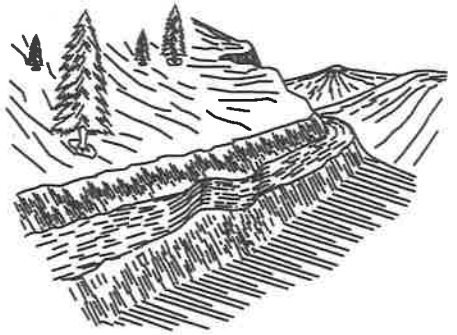


1. CROSS–DRAINS SHALL BE CONSTRUCTED AS SHOWN ABOVE.
2. EXACT LOCATION WILL BE FLAGGED BY THE AUTHORIZED OFFICER PRIOR TO CONSTRUCTION.
3. ALL CROSS DRAINS SHALL BE SKEWED 30 DEGREES.
4. THE CROSS–DRAINS INVERT SHALL BE SMOOTH AND FREE DRAINING.

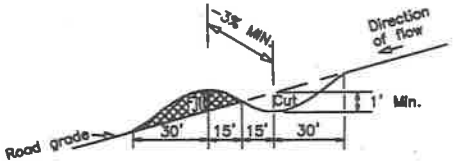


ARMORED WATER DIP

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

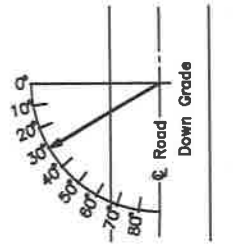


WATER DIP



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

SKEW DIAGRAM



REV. NO.	DESCRIPTION	DATE	APPROV.

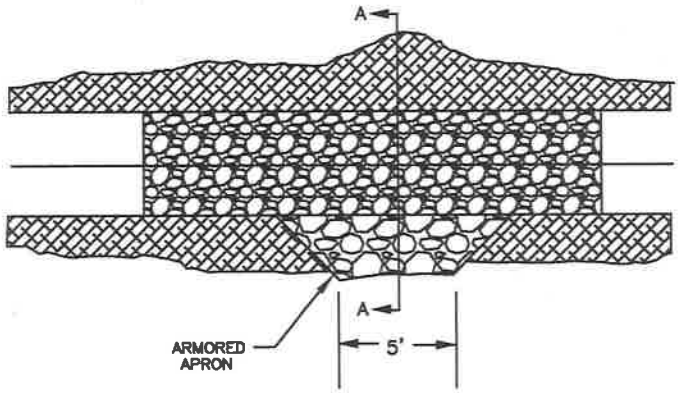
UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
MEDFORD DISTRICT – MEDFORD, OREGON

DRAINAGE & EROSION CONTROL INSTALLATION

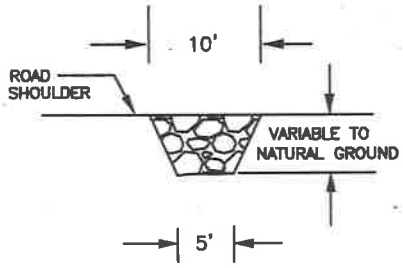
DRAWN BGS	SCALE NONE
DATE April 2016	SHEET 2 OF 2
DRAWING NO. ORM05–TS–2016–0012–C–10	

EXHIBIT C-11
SHEET 1 OF 1

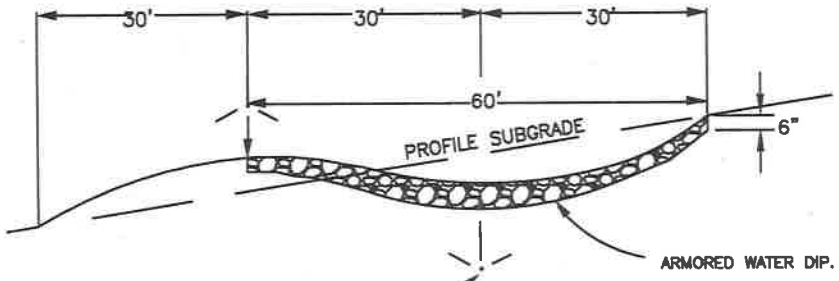
TYPICAL ARMORED WATER DIP CONSTRUCTION DETAIL



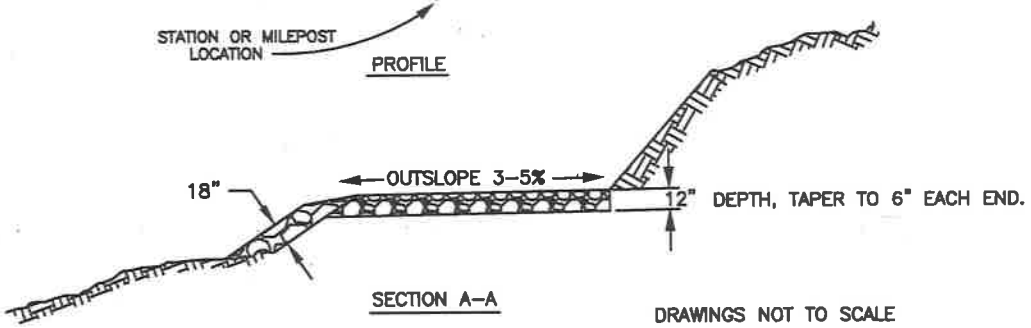
PLAN



ARMORED APRON



PROFILE



SECTION A-A

DRAWINGS NOT TO SCALE

NOTES

1) THE WATER DIP INVERT SHALL BE SMOOTH AND FREE DRAINING.
2) THE MINIMUM DIFFERENCE IN ELEVATION BETWEEN THE SAG AND THE CREST OF THE WATER DIP ALONG THE CUTSLOPE HINGE POINT IS 1.0 FEET.
3) THE MINIMUM DIFFERENCE IN ELEVATION BETWEEN THE SAG AND THE CREST OF THE WATER DIP ALONG THE FILLSLOPE SHOULDER IS 1.5 FEET.
4) SKEW DIP MINIMUM 15-30 DEGREES FROM PERPENDICULAR TO CENTERLINE.
5) EXCAVATED MATERIAL SHALL BE UTILIZED IN CONSTRUCTION OF WATER DIP. SIDECASTING IS NOT PERMITTED.
6) PIT RUN ROCK MATERIAL SHALL BE PLACED ON FILL SLOPE OF ARMORED WATERDIP.
7) SEE ROAD RENOVATION WORKLIST FOR WATER DIPS TO BE ARMORED.
8) EACH DIP SHALL BE REINFORCED WITH 40 CUBIC YARDS OF 4" MINUS ROCK, ON ROADWAY AND PIT RUN AT OUTFALL.

LEGEND

CUT/FILL SLOPES

SUBGRADE ARMOR MATERIAL (4" minus)

FILL SLOPE ARMOR MATERIAL PIT RUN OR OTHER APPROVED MATERIAL

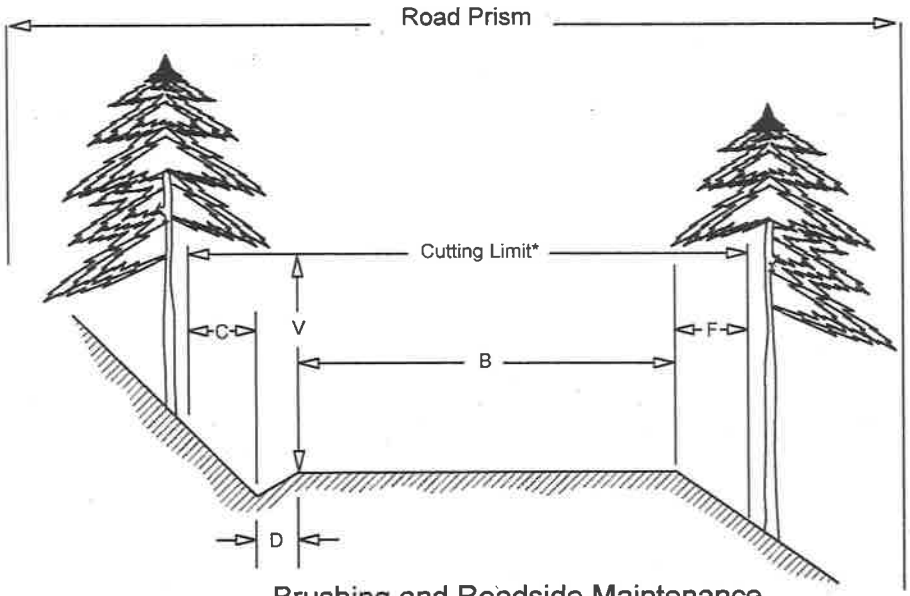
REV. NO.	DESCRIPTION	DATE	APPROV.

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

ARMORED WATER DIP CONSTRUCTION

DRAWN BGS	SCALE NONE
DATE April 2016	SHEET 1 OF 1
DRAWING NO. ORM05-TS-2016-0012-C11	

EXHIBIT C 12
SHEET 1 OF 1



Brushing and Roadside Maintenance

Cutting Limit = C + D + B + F

B = Road Bed Subgrade (includes turnouts)
Cut all vegetation to max. height of 1".

C = 6 ft - Distance to be brushed on cut slope
beyond centerline of ditch. Cut all vegetation to max height of 6".

D = Centerline of ditch to inside shoulder. Cut all vegetation to max. height of 1".

F = 6 ft - Distance to be brushed on fill slope beyond outside shoulder
Cut all vegetation to max. height of 6".

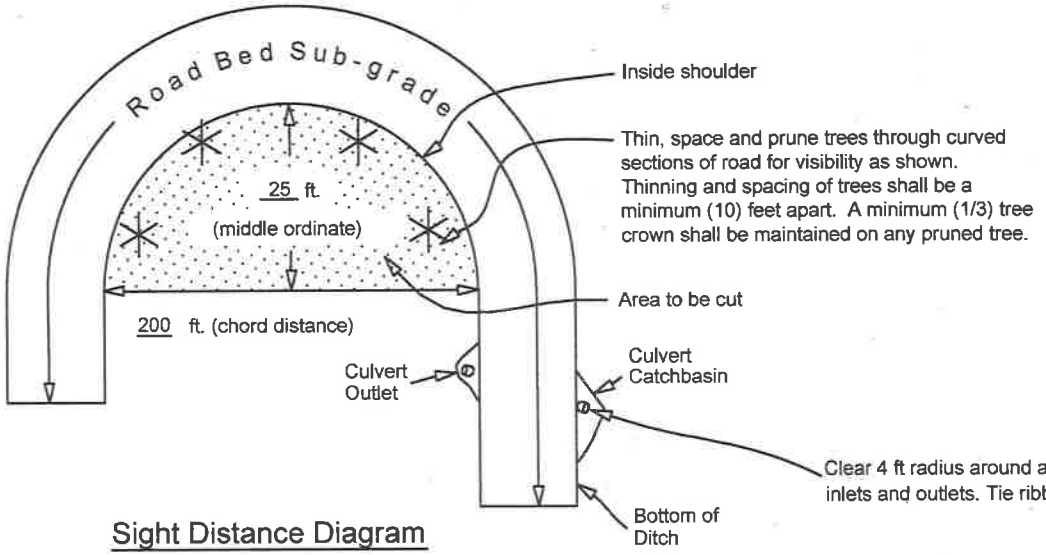
V = 14 ft - Height of vertical cutting limit

* = Any stumps that may impede road maintenance equipment
shall be grubbed.

** = Excludes work for roadside maintenance.

See exhibit C-3 and C-14: Renovation worklist for Roadside Vegetation Maintenance locations.

Inside Corner



Sight Distance Diagram
Road Side Brushing**

REV. NO.	DESCRIPTION	DATE	APPROV.

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

EIGHTY ACRE T.S.
Brushing and Roadside Maintenance

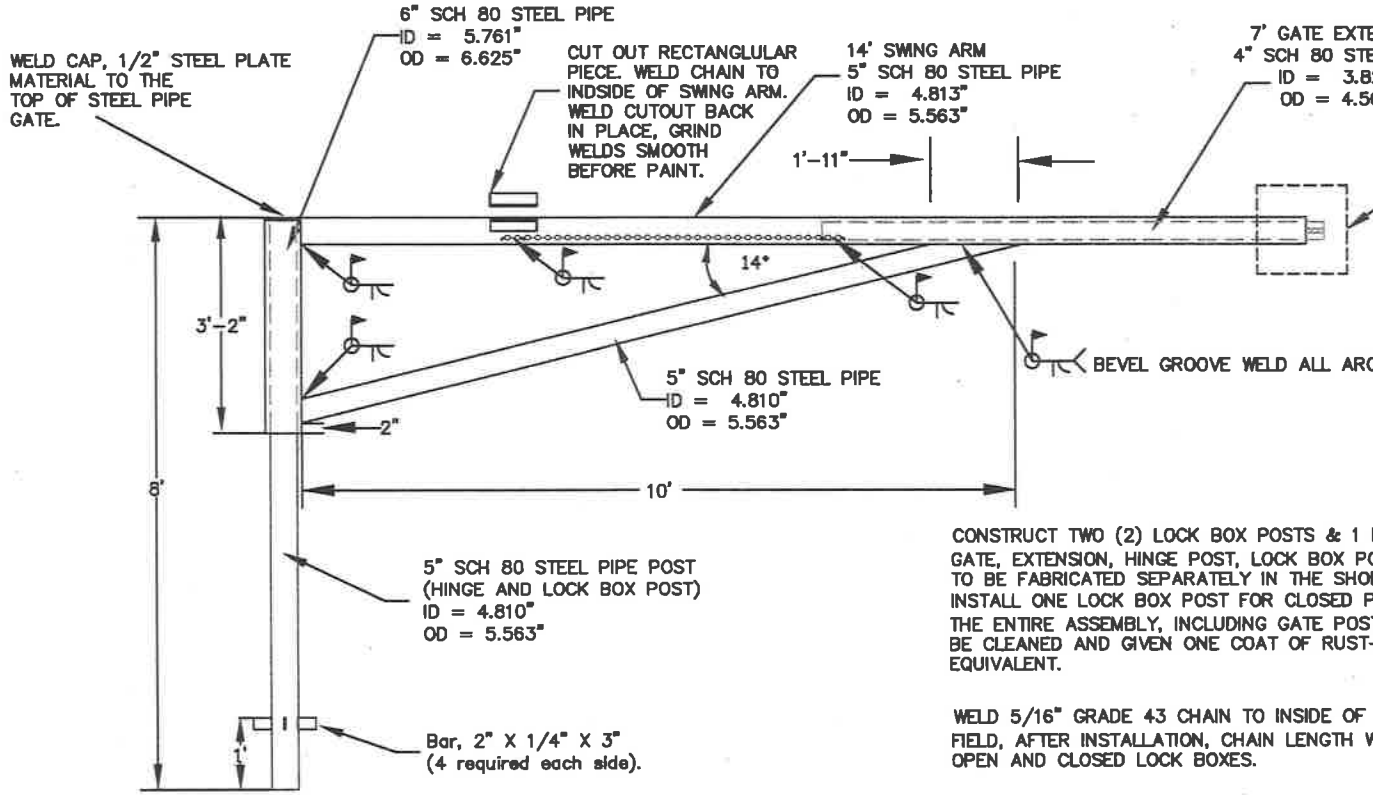
DRAWN: BGS	SCALE: NONE
DATE: April 2016	SHEET: 1 OF 1
DRAWING NO. ORM05-TS-2016-0012-C-12	

ALWAYS THINK SAFETY

revised 08/2010

All distances shown are horizontal except for V

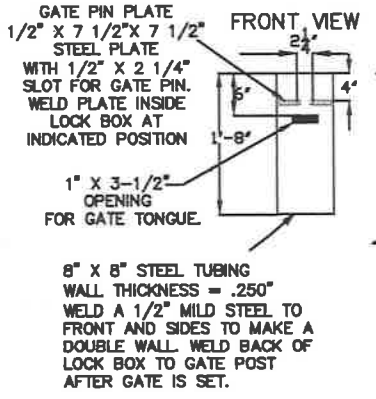
Eighty Acre T.S.
Exhibit C-13
Sheet 1 of 2

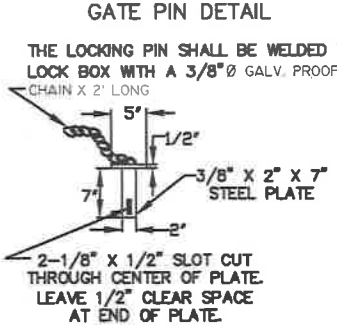


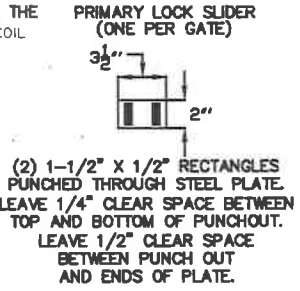
CONSTRUCT TWO (2) LOCK BOX POSTS & 1 HINGE POST FOR EACH GATE.
GATE, EXTENSION, HINGE POST, LOCK BOX POST (2), LOCK BOX(2), AND COMPONENTS TO BE FABRICATED SEPARATELY IN THE SHOP AND WELDED IN THE FIELD.
INSTALL ONE LOCK BOX POST FOR CLOSED POSITION AND ONE FOR OPEN POSITION
THE ENTIRE ASSEMBLY, INCLUDING GATE POSTS, LOCKBOX AND LOCKING PIN SHALL BE CLEANED AND GIVEN ONE COAT OF RUST-OLEUM #7769 METAL PRIMER OR EQUIVALENT.

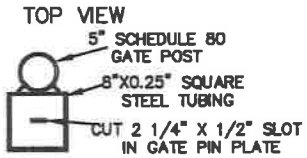
WELD 5/16" GRADE 43 CHAIN TO INSIDE OF SWING ARM AND TO GATE EXTENSION IN FIELD, AFTER INSTALLATION, CHAIN LENGTH WILL ALLOW MAXIMUM OPENING OF GATE FOR OPEN AND CLOSED LOCK BOXES.

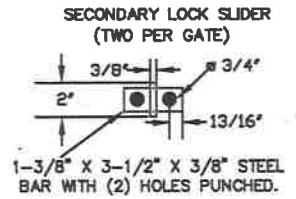
GATE PIN DETAIL



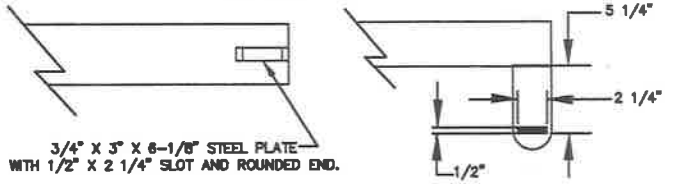








Detail A-A



UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
MEDFORD DISTRICT — Butte Falls Resource Area

STEEL PIPE MEGA GATE FABRICATION

DRAWN BY: BGS	SCALE: NONE
DATE: April 2016	SHEET 1 OF 2
DRAWING NO.	ORM05-TS-2016-0012-C-13

NOTES:

1. CONTRACTORS SHALL FURNISH GATE, POSTS, LOCKBOX, LOCKING PINS, CHAIN, AND ALL MISCELLANEOUS HARDWARE.

2. PRIOR TO INSTALLATION, ANY BARE METAL SHALL BE CLEANED AND GIVEN ONE COAT OF FULLER O'BRIAN #621-04 RUST PRIMER OR EQUIVALENT.

3. PRIOR TO FIELD INSTALLATION, FINAL GATED LOCATION SHALL BE DETERMINED OR APPROVE BY THE GOVERNMENT.

4. POST HOLES WALLS SHALL BE NEAR VERTICAL AS SHOWN. CONSTRUCTION BY BACK HOE IS NOT PERMITTED.

5. GATE, POSTS AND LOCKBOXS SHALL BE INSTALLED AS SHOWN. POSTS SHALL BE SET PLUMB IN THE CONCRETE AND GATE SHALL HANG STRAIGHT AND LEVEL.

6. GATE UNIT SHALL BE INSTALLED WITH HINGED SECTION ON THE CUTSLOPE SIDE OF THE ROAD UNLESS OTHERWISE DIRECTED THE GOVERNMENT.

7. GATE SHALL BE INSTALLED TO OPEN IN THE DIRECTION SPECIFIED BY THE GOVERNMENT.

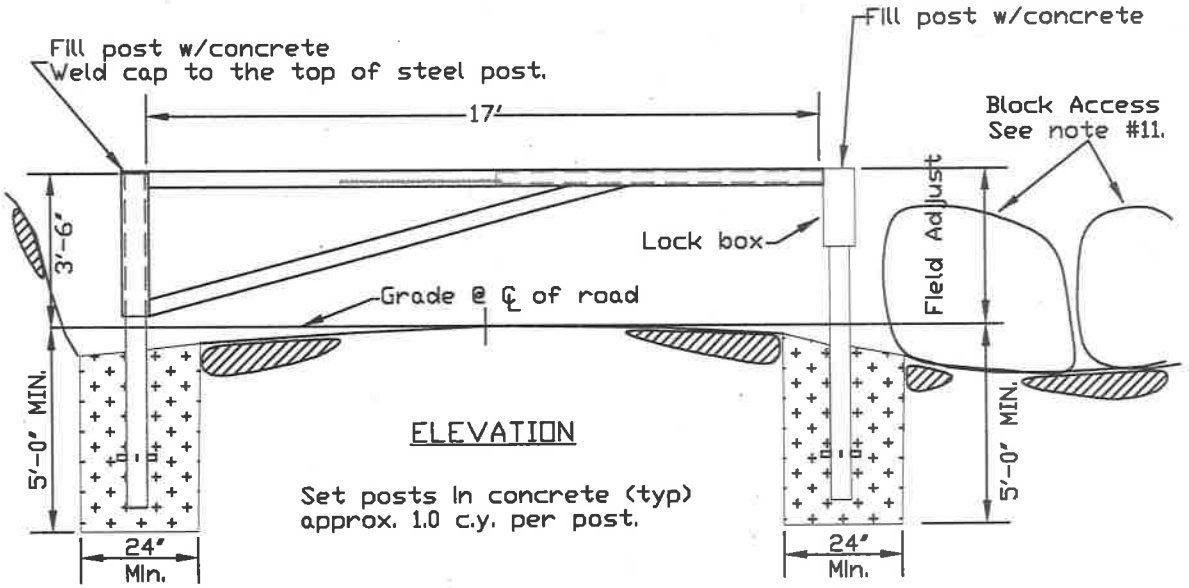
8. FIELD WELDS SHALL BE SLAGGED AND CLEANED.

9. CONCRETE SHALL BE 3000 PSI MINIMUM. CURE TIME: ALLOW CONCRETE TO CURE A MINIMUM OF 72 HOURS BEFORE PERFORMING OTHER WORK ON POSTS.

10. EXPOSED SURFACES OF CONCRETE SHALL BE CROWNED TO SHED WATER.

11. LARGE BOULDERS, PIT RUN ROCK BERMS, OR BARRICADE SHALL BE FURNISHED AND PLACED IF NECESSARY AT SIDES OF THE GATE TO PREVENT ACCESS BY MOTOR VEHICLES.

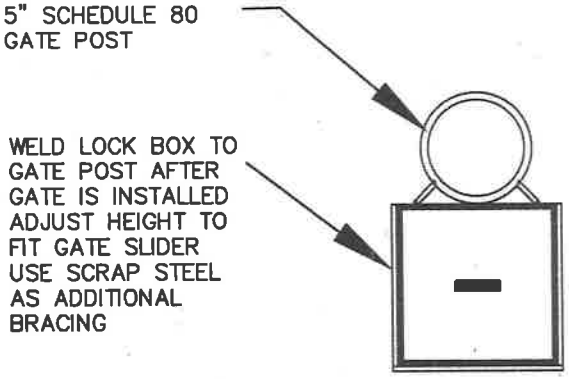
12. AFTER INSTALLATION IS COMPLETE, THE ENTIRE GATE ASSEMBLY, INCLUDING GATE, POSTS, LOCKBOXS AND PINS SHALL BE CLEANED AND GIVEN ONE FIELD COAT OF RUST-OLEUM #7747 SUNBURST YELLOW ENAMEL OR EQUIVALENT. PAINT SHALL BE APPLIED AS SPECIFIED BY THE MANUFACTURE.



ELEVATION

Set posts in concrete (typ) approx. 1.0 c.y. per post.

TOP VIEW



UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
MEDFORD DISTRICT — Butte Falls Resource Area

STEEL PIPE MEGA GATE INSTALLATION

DRAWN BY: BGS	SCALE: NONE
DATE: April 2016	SHEET 2 of 2
DRAWING NO.	DRM05-TS-2016-0012-C-13

EIGHTY ACRE TIMBER SALE
Road Renovation Worklist

Renovation: This consists of road work to be performed on the road prior to its use. The work includes, but not limited to; blading and rolling the road surface, pulling ditches, cleaning or enlarging catch basins and outlets, cleaning the entire barrel of corrugated metal pipes and/or culverts, furnishing and replacing/installing corrugated metal pipes and/or culverts, maintaining and/or constructing water dips (WDs), maintaining and/or constructing armored water dips (AWDs) with 4" minus screened rock, and constructing barricades. All drainage structures including culverts, and water dips shall be inspected and required work performed so that water flow is not impeded, and brought to the design standard as shown on the plans. Remove all down trees from roadways.

Roadside Brushing: This consists of road work to be performed on the road prior to its use. The work includes, but not limited to; brushing 6 horizontal feet from the centerline of the ditch and 6 horizontal feet from the outside shoulder of the road prism, removing brush near inlet or outlet of CMPs, removing brush, limbs, and trees along the roadway to improve sight distance. Vegetation to be cut and disposed of will generally be 6 inches in diameter at breast height or less. Disposal from roadside brushing shall be lop and scatter unless otherwise noted as chipping in the work list. In sections where road crosses through private property, conifer trees shall be pruned rather than cut down. Brush shall be cut to meet regular specifications. Pruning shall be done according to C-17.10.

Roadside Vegetation Management: This work also includes removing merchantable and non-merchantable trees 6 horizontal feet from the centerline of the ditch and 6 horizontal feet from the outside shoulder of the road prism as designated in the work list and on Exhibit C-3 (Roadside Vegetation Management Areas). Vegetation to be cut and disposed of will be from 6 inches diameter at breast height up to 24 inches diameter at breast height. All roadside vegetation maintenance sections shall be staked with beginning and ending mileposts. Merchantable trees in sections outside of timber sale units are marked with blue paint. Sections within timber sale units will not be marked with paint but will also have beginning and ending mileposts. All stumps that may hinder road maintenance operations including culvert replacements and road blading shall be removed. Any damage that occurs to the road shall be repaired and re-compacted. Any loose material that remains on site shall be re-compacted or disposed of at areas designated by the Authorized Officer. All disturbed areas shall be seeded and mulched. Any stumps that will not hinder road maintenance operations can be left. All remaining brush and limbs from tree removal operations shall be either chipped, piled in locations designated by the Authorized Officer, or lopped and scattered below the road in accordance with roadside brushing disposal methods in Exhibit C-15 (Eighty Acre Road Specifications, Section 2100).

ASC - Aggregate Surface Course
CMP – Corrugated metal pipe
D.B.H.- Diameter breast height
NAT – Natural surface
WD – Water Dip
AWD – Armored water dip
Cu. Yds = CY = Cubic Yards
Jct.– Junction
PRR - Pit Run Rock
DS – Down Spout

Road 34-2E-13.04 (Dudley Mt. South 055) ASC - NAT
(Renovate. Brush. Roadside Vegetation Management.)

MP	Remarks
0.00	Jct. 34-2E-24.07, 34-2E-13.05. Begin Renovation. Begin Brushing. Begin Roadside Vegetation Management.
0.13	Existing Culvert 18" Remove And Construct AWD.
0.16	Jct. 34-2E-13.06 (Right). End Renovation. End Brushing. End Roadside Vegetation Management.

Road 34-2E-13.06 (Dudley Mt. South 057) NAT
(Renovate. Brush. Roadside Vegetation Management.)

MP	Remarks
0.00	Jct. 34-2E-13.04. Begin Renovation. Begin Brushing. Begin Roadside Vegetation Management.
0.28	End Renovation. End Brushing. End Roadside Vegetation Management.

Road 34-2E-24.01 (Dudley) FS 3200 / 230 PRR
(Renovate. Brush.)

MP	Remarks
0.00	Jct. 34-2E-26.00. Existing Culvert 18". Begin Renovation. Begin Brushing.
0.03	Jct. 34-2E-24.04 Left
0.05	Jct. 34-2E-24.06 (Right, Barricaded). End Renovation. End Brushing.

Road 34-2E-24.05 (Fredenburg / 80 Acre Connect) PRR
(Renovate. Brush. Begin Roadside Vegetation Management.)

MP	Remarks
0.00	Jct. 34-3E-29.01. Begin Renovation. Begin Brushing. Begin Roadside Vegetation Management.
0.08	Existing Culvert 18"
0.13	Existing Culvert 18"
0.16	Existing Water Dip.
0.19	Existing Water Dip.
0.25	Existing Water Dip.
0.29	Existing Water Dip.
0.46	Existing Water Dip.
0.62	Jct. 34-2E-24.01 Straight, Jct. 34-2E-26.00 Left/Right. End Renovation. End Brushing. End Roadside Vegetation Management.

Road 34-2E-24.07 (NE Sec. 24) ASC
(Renovate. Brush. Roadside Vegetation Management.)

MP	Remarks
0.00	Jct. 34-3E-29.01. Begin Renovation. Begin Pruning.
0.24	Existing Culvert, 18".
0.31	Existing Culvert, 18".
0.37	Begin Roadside Vegetation Management. Begin Brushing. End Pruning.

0.43	Existing Culvert, 18".
0.47	Existing Guard Rail Gate.
0.54	Jct. 34-2E-13.03 (Left). 34-2E-13.04 (Right). End Renovation. End Brushing. End Roadside Vegetation Management.

Road 34-2E-26.00 (Santiam Peak) PRR

(Renovate. Brush. Roadside Vegetation Management.)

MP	Remarks
0.00	Jct. 35-2E-2.00 Begin Renovation. Begin Pruning.
0.01	Existing Culvert, 18"
0.11	Existing Culvert, 18"
0.20	Existing Culvert, 18"
0.22	Begin Roadside Vegetation Management. Begin Brushing. End Pruning.
0.29	Existing Culvert, 18"
0.40	Jct. 34-2E-24.05, (Right). End Renovation. End Brushing. End Roadside Vegetation Management.

Road 34-2E-26.01 (Upper Spur Right) ASC

(Renovate. Brush.)

MP	Remarks
0.00	Jct. 34-2E-35.02. Begin Renovation. Begin Brushing.
0.17	Existing Culvert, 18" Remove And Construct AWD.
0.22	Construct AWD
0.26	Existing Culvert, 18" Remove And Construct AWD.
0.34	Construct AWD. End Renovation. End Brushing.

Road 34-2E-26.07 (Look Out Spur) NAT

(Brush. Renovate.)

MP	Remarks
0.00	Jct. 35-2E-2.00. Begin Renovation. Begin Brushing.
0.01	Existing barricade. Barricade after use.
0.11	End Renovation. End Brushing.

Road 34-2E-35.01 (Fredenburg Spur) ASC

(Renovate. Brush.)

MP	Remarks
0.00	Jct. 34-2E-35.01. Begin Renovation. Begin Brushing.
0.11	Existing Culvert, 18".
0.15	Existing Culvert, 18".
0.22	Existing Culvert, 18".
0.25	Property Line. Begin Pruning. End Brushing.
0.28	Existing Culvert, 18".
0.42	Jct. Pvt. Rd. Left.
0.43	Existing Culvert, 18".
0.55	Existing Culvert, 18".

0.57	Jct. Pvt. Rd. Right.
0.65	Jct. Pvt. Rd. Left.
0.69	Existing Culvert, 18".
0.70	Jct. Pvt. Rd. Left.
0.75	Existing Culvert, 18".
0.89	Jct. Pvt. Rd. Right.
0.91	Existing Culvert, 18".
1.11	Existing Culvert, 18".
1.18	Existing Culvert, 24".
1.19	Jct. Pvt. Rd. Right.
1.25	Jct. Pvt. Rd. Right.
1.50	Existing Culvert, 18".
1.55	Jct. Pvt. Rd. Left.
1.62	Existing Culvert, 18".
1.84	Existing Culvert, 18".
1.89	Existing Culvert, 18".
2.05	Existing Culvert, 18".
2.27	Jct. Pvt. Rd. Left.
2.60	Property Line.
2.62	Jct. Pvt. Rd. Left. Existing Culvert, 18".
2.74	Existing Culvert, 18".
2.88	End Renovation. End Pruning.

Road 34-2E-35.02A (Lookout SpurA) PRR

(Renovate. Brush.)

MP	Remarks
0.00	Jct. 34-2E-2.00. Begin Renovation. Begin Brushing.
0.16	Existing Culvert, 18" Replace And Construct AWD.
0.34	Existing Culvert, 18" Remove And Replace with 18" x 30' CMP.
0.52	Existing Culvert, 18" Remove And Construct AWD.
0.53	Jct. 34-2E-26.01 (Right). 34-2E-35.02B (Left). Continue Renovation. Continue Brushing.

Road 34-2E-35.02B (Lookout Spur B) NAT/ Decom.

(Renovate. Brush.)

MP	Remarks
0.53	Jct. 34-2E-35.2A, 34-2E-26.1. Continue Renovation. Continue Brushing.
0.54	Existing Culvert, 18"
0.55	Existing Barricade. Re-Barricade After Use. Begin Decommission After Use.
1.11	Existing Pump Chance. Place 10cy of 4" minus rock at 4" depth for the entire width of the road. Existing 12" Culvert, Remove After Use.
1.14	Existing Pump Chance. Place 10cy of 4" minus rock at 4" depth for the entire width of the road. Existing 12" Culvert, Remove After Use.
1.17	End of Road. End Renovation. End Brushing. End Decommission After Use.

Road 34-2E-35.03 (Fredenberg Lower Spur Left) PRR
(Renovate. Brush.)

MP	Remarks
0.00	Jct. 35-2E-2.00. Begin Renovation. End Brushing.
0.01	Existing Culvert, Draw, 30"
0.02	Existing Powder River Gate.
0.05	Jct. 34-2E-35.09.
0.08	Existing Culvert, Draw, 18". Remove And Replace with 24" x 36' CMP. Place 2cy splash pad.
0.23	Existing Culvert, 18". Remove And Replace with 24" x 34' CMP. Place 2cy splash pad.
0.30	Existing Culvert, Draw, 18". Remove And Construct AWD.
0.44	Existing Culvert, Draw, 18". Remove And Construct AWD.
0.49	Jct. 34-2E-35.04 (Left, Barricaded).
0.60	Existing Culvert, 18". Remove And Replace With 30" X 50' CMP. Place 2cy splash pad.
0.63	End Renovation. End Brushing.

Road 34-2E-35.04 (Temp Spur) NAT
(Renovate. Brush.)

MP	Remarks
0.00	Jct. 34-2E-35.03. Begin Renovation. Begin Brushing.
0.01	Existing Culvert, 18". Remove Culvert and Construct Barricade after use.
0.03	Existing Barricade. Re-establish after use.
0.10	Existing Culvert, 18". End Renovation. End Brushing.

Road 34-2E-35.06 (Fredenberg Middle Spur Right) PRR-NAT
(Renovate. Brush.)

MP	Remarks
0.00	Jct. 34-2E-2.00. Existing Culvert, 18". Begin Renovation. Begin Brushing.
0.09	Existing Culvert, 18". Remove And Construct AWD
0.19	Existing Culvert, 18". Remove And Construct AWD
0.39	Existing Culvert, 18". Remove And Construct AWD
0.41	End Renovation. End Brushing.

Road 34-2E-35.09 (Lower Left Spur) NAT
(Renovate. Brush.)

MP	Remarks
0.00	Jct. 34-2E-35.03. Begin Renovation. Begin Brushing.
0.01	Existing Barricade. Re-Barricade After Use.
0.10	End Renovation. End Brushing.

Road 34-3E-19.01 (S 19 Select) PRR
(Renovate. Brush and Chip.)

MP	Remarks

0.00	Jct. 34-3E-29.01. Begin Renovation. Begin Brushing and Chipping.
0.02	Existing Barricade. Re-Barricade After Use.
0.09	Existing Culvert, 18". Remove And Construct AWD.
0.21	Existing Culvert, 18". Remove And Construct AWD. End Renovation. End Brushing and Chipping.

Road 34-3E-19.03 (Seven Up / 80 Acre Quarry) ASC
(Renovate. Brush.)

MP	Remarks
0.00	Jct. 34-3E-29.01. Begin Renovation. Begin Brushing.
0.19	Eighty Acre Quarry (Right). End Renovation. End Brushing.

Road 34-3E-21.03 (Horseshoe Road) PRR
(Renovate. Brush.)

MP	Remarks
0.00	Jct. 34-2E-29.01. Existing Culvert, 18". Begin Renovation. Begin Brushing.
0.03	Existing WD.
0.12	Existing Barricade.
0.20	Property Line. End Renovation. End Brushing.

Road 34-3E-28.00 (Upper Jackass) PRR
(Renovate. Brush.)

MP	Remarks
0.00	Jct. BF/Prospect Road. Begin Renovation. Begin Pruning.
0.01	Existing Culvert, 18".
0.09	Property Line. Begin Brushing. End Pruning.
0.14	Property Line. End Renovation. End Brushing.

Road 34-3E-29.01 (Sec. 19 select ML) ASC
(Renovate. Brush. Roadside Vegetation Management.)

MP	Remarks
0.00	Jct. Butte Falls – Prospect Hwy. Begin Renovation. Begin Brushing.
0.10	Begin Roadside Vegetation Management.
0.22	Existing Culvert, 18".
0.48	Existing Culvert, 18".
0.54	Jct. Right. 34-3E-21.03 (Right).
0.55	Existing Culvert, 18".
0.66	End Roadside Vegetation Management. Property Line. End Brushing. Begin Pruning.
0.75	Existing Culvert, 18".
0.79	Jct. 34-3E-30.00, Right.
0.80	Existing Culvert, 18".
0.91	Existing Culvert, Draw.
0.94	Begin Roadside Vegetation Management. Property Line. Begin Brushing. End Pruning.

0.95	Jct. Spur 34-3E-19.01 (Right, Barricaded).
0.96	Existing Culvert, 18".
1.06	Existing Culvert, 18". End Roadside Vegetation Management. Property Line. End Brushing. Begin Pruning.
1.17	Existing Culvert, 18".
1.24	Jct. Spur Rd. Left.
1.33	Begin Roadside Vegetation Management. Property Line. Begin Brushing. End Pruning.
1.37	Existing Culvert, 18".
1.50	Existing Culvert, 18".
1.72	Existing Culvert, 18".
1.78	Jct. 34-3E-19.03 (Right).
1.81	Existing Culvert, 18".
1.83	Jct. 34-3E-19.02 (Left).
1.87	Existing Culvert, Cross Drain.
1.94	Jct. Spur (Right).
1.95	End Roadside Vegetation Management. Property Line. End Brushing. Begin Pruning.
1.96	Existing Culvert, 18". Remove and Replace with 24" x 40' CMP.
2.08	Existing Culvert, 18".
2.22	Existing Culvert, 18". Remove and Replace with 18" x 34' CMP.
2.24	Jct. 34-2E-24.07 (Right).
2.25	Private Pump Chance (Right). Existing Culvert, 30". Remove and Replace with 36" x 32' CMP. Place 2cy splash pad.
2.30	Jct. Spur 34-2E-24.02 (Right).
2.32	Jct. Spur (Right). Existing Culvert, Draw, 24". Remove and Replace with 36" x 40' CMP. Place 2cy splash pad.
2.34	Existing Culvert, 18". Remove and Replace with 36" x 34' CMP. Place 2cy splash pad.
2.39	Begin Roadside Vegetation Management. Property Line. Begin Brushing. End Pruning.
2.47	Existing Culvert, 18". Remove and Replace with 18" x 30' CMP.
2.57	Jct. 34-2E-24.03 (Left).
2.64	Existing Culvert, 18".
2.87	Existing Culvert, Draw, 24". Remove and Replace with 36" x 50' CMP. Place 2cy splash pad.
2.96	Existing Culvert, Draw, 18". Remove and Replace with 24" x 30' CMP. Place 2cy splash pad.
2.99	Jct. 34-2E-24.05 (Right). Jct. Spur (Left). End Renovation. End Brushing. End Roadside Vegetation Management.

Road 34-3E-29.02 (Jackass Creek) ASC

(Renovate. Brush.)

MP	Remarks
0.00	Jct. BF/Prospect Road. Begin Renovation. Begin Brushing.

0.18	Existing Culvert, 18". Remove and Replace with 18" x 30' CMP.
0.44	Property Line, Tag (Right). End ASC, Begin NAT. End Renovation. End Brushing.

Road 34-3E-30.00 (19 Select) PRR

(Renovate. Brush and Chip. Roadside Vegetation Management.)

MP	Remarks
0.00	Jct. 34-2E-29.01. Begin Renovation. Begin Pruning.
0.03	Begin Roadside Vegetation Management. Property Line. Begin Brushing and Chipping. End Pruning.
0.22	Existing Culvert, 18".
0.38	Property Line. Jct. Spur (Right, Barricaded). End Of Road. End Renovation. End Brushing and Chipping. End Roadside Vegetation Management. Property Line.

Road 34-3E-31.00 PRR

(Renovate. Brush.)

MP	Remarks
0.00	Jct. Butte Falls - Prospect Hwy. Begin Renovation. Begin Brushing.
0.10	Property Line. End of Project. End Renovation. End Brushing.

Road 34-3E-31.01 (Lower 80 Acre Creek) ASC

(Renovate. Brush.)

MP	Remarks
0.00	Jct. Butte Falls - Prospect Hwy. (Y Intersection) Begin Renovation. Begin Brushing.
0.02	Existing Culvert, 18". Remove And Construct AWD.
0.02	Existing Culvert, 18". Remove and Replace with 24" x 30' CMP. Place 2cy splash pad.
0.04	Jct. Left – Camp Site
0.12	Existing Culvert, 18". Remove And Construct AWD.
0.14	Jct. 34-3e-31.04 (Right).
0.21	Existing Culvert, 18". Remove And Construct AWD.
0.34	Ditch Out Left.
0.39	Construct Awd.
0.46	Existing Culvert, 18". Remove And Construct AWD.
0.52	Existing Culvert, 66", Eighty Acre Creek.
0.60	Jct. 34-3e-31.05 (Right).
0.61	Existing Culvert, 18". Remove and Replace with 24" x 30' CMP. Place 2cy splash pad.
0.62	Jct. Barricaded Rd. Left.
0.70	Existing Culvert, 18".
0.84	Install New 18" x 38' CMP.
0.85	Jct. 34-3e-31.02. Re-Construct Barricade after use.
0.95	End Renovation. End Brushing.

Road 34-3E-31.02 (Lower 80 Acre Creek ML) ASC

(Renovate. Brush.)

MP	Remarks
0.00	Jct. 34-3e-31.01. Begin Renovation. Begin Brushing.
0.02	Construct AWD.
0.18	Construct AWD.
0.25	Begin Spot Rock: Place 50cy of 4" minus at 4" Depth and to the existing width of the road.
0.27	Existing Culvert, 18". Remove And Construct AWD.
0.40	Construct AWD.
0.46	Existing Culvert, 18". Remove And Construct AWD.
0.51	Existing Culvert, 18".
0.58	Existing Culvert, 18".
0.67	Existing Culvert, 18".
0.77	Existing Culvert, 18". Remove And Construct AWD.
0.78	Jct. 34-3e-31.06 (Left).
0.83	Jct. 34-3e-31.07 (Right).
0.94	End Renovation. End Brushing.

Road 34-3E-31.04 (Lower 80 Acre Creek) PRR

(Renovate. Brush.)

MP	Remarks
0.00	Jct. 34-3e-31.01. Begin Renovation. Begin Brushing.
0.01	Existing Culvert, 18". Remove And Construct AWD.
0.15	Existing Culvert, 18". Remove And Construct AWD.
0.20	Jct. Jeep Rd.
0.26	End Renovation. End Brushing.

Road 34-3E-31.05 (80 Acre Short Spur) NAT

(Renovate. Brush.)

MP	Remarks
0.00	Jct. 34-3e-31.01. Begin Renovation. Begin Brushing.
0.03	Existing Waterbar.
0.05	Existing Barricade.
0.09	Existing Waterbar.
0.12	Existing Waterbar/Barricade.
0.13	Property Line. End Renovation. End Brushing.

Road 34-3E-31.06 (Upper South Spur) PRR-NAT

(Renovate. Brush.)

MP	Remarks
0.00	Jct. 34-3E-31.02. Begin Renovation. Begin Brushing.
0.12	Existing Barricade. Barricade After Use. Begin Natural Surface.
0.27	End Renovation. Begin Brushing.

Road 34-3E-31.07 (Upper North Spur) GRR
(Renovate. Brush.)

MP	Remarks
0.00	Jct. 34-3E-31.02. Begin Renovation. Begin Brushing.
0.05	End Renovation. End Brushing.

Road 35-2E-1.02 (North Fork Butte Creek) NAT
(Renovate. Brush.)

MP	Remarks
0.00	Jct. Butte Falls / Prospect Hwy. Begin Renovation. Begin Brushing.
0.02	Existing Barricade. Re-Barricade After Use.
0.57	Jct. jeep spur. End Renovation. End Brushing.

Road 35-2E-2.00 (Fredenburg) ASC
(Renovate. Brush. Roadside Vegetation Management.)
Note: first 1.16 mile is county maintenance.

MP	Remarks
0.00	Jct. Butte Falls / Prospect Hwy. County Maintenance Next 1.16 Miles.
0.33	Jct. 35-2E-11.00 (Left).
0.71	Existing Bridge.
0.84	Jct. 35-2E-2.03 (Left).
1.00	Jct. 35-2E-2.01 (Right).
1.15	Jct. Private Driveway (Left/Straight).
1.16; 0.00	End County Maintenance. Begin Renovation. Begin Pruning.
0.01	Existing Cattleguard.
0.08	Existing Culvert, Draw, 36". Remove and Replace with 48" x 44' CMP. Place 5cy splash pad.
0.17	Existing Culvert, 18".
0.18	Cattleguard.
0.21	Jct. 34-2E-35.01 (Right), Jct. 34-2E-35.03 (Left).
0.22	Existing Culvert, 18". Remove and Replace with 18" x 36' CMP.
0.34	Existing Culvert, 18".
0.46	Existing Culvert, 18". Begin Roadside Vegetation Management. Begin Brushing. End Pruning.
0.53	Existing Culvert, 18".
0.60	Existing Culvert, 18".
0.65	Jct. 34-2E-35.00 (Right). Existing Culvert, 18" Remove and Replace with 24" x 44' CMP. Place 2cy splash pad.
0.79	Existing Culvert, 18". Remove and Replace with 24" x 38' CMP. Place 2cy splash pad.
0.84	Existing Culvert, Draw, 30". Remove and Replace with 36" x 46' CMP. Place 2cy splash pad.
0.90	Existing Culvert, 18".
0.99	Existing Culvert, 18".
1.09	Existing Culvert, 18". Remove and Replace with 18" x 44' CMP.

1.16	Existing Culvert, 18". Remove and Replace with 18" x 40' CMP.
1.22	Jct. 34-2E-35.05 (Left). End Roadside Vegetation Management.
1.24	Existing Culvert, 18".
1.32	Existing Culvert, 18".
1.40	Jct. 34-2E-35.06 (Right).
1.45	Existing Culvert, 18".
1.54	Existing Culvert, 18".
1.61	Existing Culvert, 18".
1.68	Existing Culvert, 18". Remove and Replace with 18" x 34' CMP.
1.79	Existing Culvert, 18". Remove and Replace with 18" x 36' CMP.
1.85	Existing Culvert, 18". Remove and Replace with 18" x 38' CMP.
1.95	Existing Culvert, 18".
2.01	Existing Culvert, 18".
2.11	Jct. 34-2E-35.02 (Right). Left 34-2E-35.08 (Left).
2.14	Existing Culvert, 18". Remove and Replace with 18" x 38' CMP.
2.29	Existing Culvert, 18".
2.48	Existing Culvert, 18". Remove and Replace with 18" x 40' CMP.
2.60	Existing Culvert, 18".
2.70	Existing Culvert, 18".
2.87	Existing Culvert, 18". Remove and Replace with 18" x 36' CMP.
2.88	Jct. 34-2E-26.06 (Left, Fredenburg Pit Road).
3.03	Existing Culvert, 18". Remove and Replace with 18" x 40' CMP.
3.16	Existing Culvert, 18" W/ DS.
3.23	Existing Culvert, 18".
3.26	Existing Culvert, 18". Remove and Replace with 18" x 34' CMP.
3.41	Install New 18" x 34' CMP, w/ 20' Full Round Downspout
3.57	Existing Culvert, 18".
3.69	Existing Culvert, 18".
3.84	Existing Culvert, 18". Remove and Replace with 24" x 50' CMP. Place 2cy splash pad.
3.90	Existing Culvert, 18".
4.07	Jct. 34-2E-26.00 (Left). Existing Culvert, 18".
4.23	Existing Culvert, 18".
4.32	Jct. Spurs (2) (Left).
4.33	Pump Chance (Right). Existing Culvert, 18".
4.47	Existing Culvert, Cross Drain.
4.48	Existing Drain Dip.
4.53	Existing Drain Dip.
4.68	Existing Drain Dip.
4.76	Existing Drain Dip.
4.83	Jct. 34-2E-26.07 (Right, Barricade).
5.00	Existing Barricade. Re-Construct Barricade After Use.
5.56	End Renovation. End Brushing.

Road 35-2E-2.01 (Sec. 1 Spur) PRR

(Renovate. Brush. Roadside Vegetation Management.)

MP	Remarks
0.00	Jct. County Road (Fredenberg). Begin Renovation. Begin Pruning. Existing Culvert, 12".
0.11	Existing Culvert, 18".
0.15	Jct. Pvt. Rd. Left.
0.16	Existing Culvert, 18".
0.20	Existing Culvert, 18".
0.35	Existing Culvert, 18". Jct. Spur (Right).
0.39	Property Line. Begin Roadside Vegetation Management. Begin Brushing. End Pruning.
0.41	Existing Pipe Gate. Construct Barricade: Place Boulders.
0.48	Existing Culvert, Draw, 24".
0.56	Construct AWD.
0.60	End Project. End Renovation. End Brushing. End Roadside Vegetation Management.

Road 35-2E-2.02 (Medco ML) PRR

(Renovate. Brush.)

MP	Remarks
0.00	Jct. 35-2E-11.00. Begin Renovation. Begin Pruning.
0.32	Jct. Spur (Left).
0.45	Jct. 35-2E-3.01(Right). End Renovation. End Pruning.

Road 35-2E-2.03 (Fredenburg Pasture Spur) PRR

(Renovate. Brush.)

MP	Remarks
0.00	Jct. Fredenburg County Road. Begin Renovation. Begin Pruning.
0.23	Jct. Pvt. Drive (Right).
0.52	Existing Wire Gate - tore down. Install new Mega Gate.
0.54	Existing Culvert, 18".
0.95	Existing Boulder Barricade (remove and place at mile post 1.03). Property Line. Begin Brushing. End Pruning.
1.03	Jct. Jeep Rd. Right – Construct Barricade: Place Boulders.
1.11	Draw. Begin Spot Rock: Place 50cy of 4" minus at 4" Depth and to the existing width of the road.
1.19	Existing AWD.
1.29	Begin Decommission after use. See Exhibit D-4.
1.57	Jct. Spur Right.
1.73	End renovation. End Brushing. End Decommission after use.

Road 35-2E-3.01 (2.2 Spur) NAT

(Renovate. Brush.)

MP	Remarks
0.00	Jct. 35-2E-2.02. Begin Renovation. Begin Brushing.
0.04	Existing Barricade. Re-Barricade After Use.
0.22	End Renovation. End Brushing.

Road 35-2E-11.00 (North Fork Butte Creek Medco Spur) ABC

(Renovate. Brush.)

MP	Remarks
0.00	Jct. County Road (Fredenburg). Begin Renovation. Begin Pruning.
0.10	Existing Culvert, 18".
0.20	Existing Culvert, 18".
0.37	Existing Culvert, 18".
0.49	Existing Culvert, 18".
0.58	Existing Culvert, 18".
0.64	Jct. Left 35-2E-2.02.
0.72	Begin Brushing. End Pruning.
0.79	Jct. Spur Right.
0.81	Existing Culvert, 18". Existing Gate.
0.94	Existing Culvert, 18".
1.02	Existing Culvert, 18".
1.22	Existing Culvert, 18".
1.26	Existing Culvert, 18".
1.42	Existing Culvert, 18".
1.49	Existing Culvert, 18".
1.61	Existing Culvert, 18".
1.71	Existing Culvert, 18".
1.82	Existing Culvert, 18".
1.96	Existing Culvert, 18".
1.99	Existing Culvert, 18".
2.00	Property Line/Barricade. End Renovation. End Brushing.

EIGHTY ACRE
Temp Route Worklist

Temp Route 31-4 NAT
(Construct. Renovate. Brush.)

MP	Remarks
0.00	Jct. 34-2E-35.01. Begin Temp Route Construction.
0.10	End Temp Route Construction. Construct Landing.

Temp Route 31-5 NAT
(Construct. Renovate. Brush.)

MP	Remarks
0.00	Jct. 34-3E-31.02. Begin Temp Route Construction.
0.22	End Temp Route Construction. Construct Landing.

TIMBER SALE ROAD SPECIFICATIONS

TABLE OF CONTENTS

GENERAL – 100

*101 - Prework Conference(s):

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

The purpose of the prework conference will be to review the required work, exhibits and specifications, and to establish a work schedule and a list of the Purchaser's representatives and subcontractor(s). A prework conference shall be scheduled at the worksite before any operations begin.

*102 - Definitions:

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

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

ACI - American Concrete Institute

Apparent Opening Size (AOS) - Number of the U.S. Bureau of Standard sieve (or its opening size in millimeters or inches) having openings closest in size to the diameter of uniform particles which will allow 5 percent by weight to pass through the geotextile material when shaken in a prescribed manner. This is also referred to as Equivalent Opening Size (EOS).

ASTM - American Society for Testing and Materials.

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

BLM - Bureau of Land Management

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

Burst Strength - The resistance of a geotextile material to rupture from pressure applied at right angles to the plane of the geotextile material under specified conditions, usually expressed as the amount of pressure causing failure. Rupture or burst results from tensile failure of the geotextile material.

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).

Grab Tensile Strength - A modified tensile strength of a geotextile material. The strength of a specific width of geotextile material together with the additional strength contributed by adjacent areas. Typically, grab strength is determined on a 12-inch-wide strip of geotextile material, with the tensile load applied at the midpoint of the geotextile material width through 1-inch-wide jaw faces.

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.

Nonwoven Geotextile Material - A textile structure produced by bonding or interlocking of fibers, or both, accomplished by mechanical or chemical means.

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

Penetration Resistance - The geotextile material property determined by the force required to penetrate a geotextile material with a sharp pointed object. Initial penetration is by separating the fibers. Further penetration is essentially a tearing process.

Percent Open Area - The net area of a geotextile material that is not occupied by geotextile material filaments, normally determinable only for woven and nonwoven geotextile material having distinct, visible, and measurable openings that continue directly through the geotextile material.

Permeability - The geotextile material property which permits water to be transmitted in the longitudinal or transverse planes of the geotextile material.

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

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

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

Pore Size - The size of an opening between geotextile material filaments; apparent opening size (AOS) is used to quantify this geotextile material property.

Puncture Resistance - The geotextile material property determined by the force required to penetrate a geotextile material with a blunt object. Failure results in a tearing of the geotextile material.

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

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

Reinforcement - Strengthening of concrete with iron bars or mesh: geotextile with geotextile material inclusion: subgrade with aggregate: etc.

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

Road Centerline - The longitudinal center of a roadbed.

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

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

Roadway - The portion of a road within limits of construction. Usually from the toe of the fill slope to a point where the cut slope intersects natural ground line. Synonym - road prism.

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

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

Separation - Function of geotextile material as a partition between adjacent materials to

prevent mixing of those materials.

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

Spalls - Flakes or chips of stone.

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

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

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

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

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

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

Tensile Strength - The strength shown by a geotextile material subjected to tension as distinct from torsion, compression, or shear.

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

Tensile Test - A test which subjects geotextile material to tensile forces and measures resultant stresses and strains.

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

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

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

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

Ultraviolet (UV) Radiation Stability - The ability of geotextile material to resist deterioration from exposure to sunlight.

Unaged Cloth - Cloth in condition received from the manufacturer or distributor.

Woven Geotextile Material - A textile structure comprising two or more sets of filaments of yarns interlaced in such a way that the elements pass each other at essentially right angles with one set of elements parallel to the geotextile material axis.

*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 density of soil. Method A - 4" mold, soil passing a No. 4 sieve 25 blows/layer & 3 layers. Method C - 4" mold, soil passing a 3/4 inch sieve 25 blows/layer & 3 layers. Method D - 6" mold, soil passing a 3/4 inch sieve. 56 blows/layer & 3 layers.
AASHTO T 119	Slump of hydraulic cement concrete.
AASHTO T 152	Air content of freshly mixed concrete.

AASHTO T 166	Specific Gravity of compacted Bituminous Mixtures.
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 height.
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 209	Maximum Specific Gravity of Bituminous Paving Mixtures.
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	Density of Soil and Soil-Aggregate in place by nuclear methods.
AASHTO T 248	Reducing field samples of aggregate to testing size by mechanical splitter, quartering, or miniature stockpile sampling.
ASTM D 4564	Determination of relative density of cohensionless 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 - Drum drive self-propelled vibratory grid roller. The unit shall consist of one cylindrical drum with a drum diameter of not less than 56 inches, nor more than 66 inches and the drum width shall be 84 inches. Vibratory frequency shall be regulated in seeps from 1200 to 1800 vibrations per minute (VPM), and the centrifugal force developed shall be at least 40,000 pounds at 1800 RPM. Thc vibratory grid roller shall be self-propelled and have a power unit of not less than 112 horsepower. The "grid" design shall be a herringbone or z-bar pattern around the circumference of the drum. The grid bars shall be 1 inch in height and spaced not more than 8-1/2 inches apart.

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

CLEARING AND GRUBBING - 200

*201 - This work shall consist of clearing, grubbing, removing and disposing of vegetation, debris, surface objects, and protruding obstructions within the clearing limits in accordance with these specifications and conforming to the lines, grades, dimensions and typical cross sections shown on the plans and as staked on the ground.

*202 - Where clearing limits have not been staked, established by these specifications or shown on the plans, the limits shall extend (10) feet back of the top of the cut slope and (5) feet out from the toe of the fill slope.

202b - Where clearing limits for roadside vegetation maintenance sections have not been staked or shown on the plans, the limits shall extend (6) horizontal feet back of the centerline of the ditch and (6) horizontal feet outside of the of the shoulder of the road.

*203 - Clearing shall consist of the removal and disposal of trees, logs, rotten material, brush, and other vegetative materials and surface objects in accordance with these specifications and within the limits established for clearing as specified under Subsection 202 and as shown on the plans and as staked on the ground.

203b - Standing trees and snags to be cleared shall be felled within the limits established for clearing, unless otherwise authorized.

203c - Disposal of logs from private timber cleared within the limits established as staked on the ground shall consist of decking at a location designated by the Authorized Officer.

*204 - Grubbing shall consist of the removal and disposal of stumps, roots, and other wood material embedded in the ground and protruding obstacles remaining as a result of the clearing operation between the top of the cut slope and the toe of the fill slope.

205 - Clearing and grubbing debris shall not be placed or permitted to remain in or under road embankment sections.

206 - Clearing and grubbing debris shall be disposed of by piling in accordance with Subsection 211.

206a - Notwithstanding Subsections 204 and 205, clearing and grubbing debris resulting from landing construction shall be placed at disposal sites and shall not be covered with excavated material. Location of disposal sites will be determined by the Authorized Officer.

211 - Disposal of clearing and grubbing debris shall be by piling on government lands outside of established clearing limits in an area and in a manner acceptable to the Authorized Officer.

212 - No grading will be permitted prior to completion and approval by the Authorized Officer of the required clearing and grubbing work, except that stump grubbing may proceed with the excavation of the road prism.

213 - No clearing or grubbing debris shall be left lodged against standing trees.

EXCAVATION AND EMBANKMENT - 300

*301 - This work shall consist of excavating, overhaul, placement of embankments, backfilling, leveling, ditching, grading, compaction, disposal of excess and unsuitable materials, and other earth-moving work in accordance with these specifications and conforming to the lines, grades, dimensions, and typical cross sections shown on the plans.

*302 - Excavation shall also consist of the excavation of road and landing cut sections, backfilling, leveling, ditching, grading, compaction, and other earth moving work necessary for the construction of the roadway in accordance with these specifications and conforming to the lines, grades, dimensions, and typical cross sections shown on the plans and as marked on the ground with stakes.

303 - Suitable material removed from the excavation shall be used in the formation of embankment subgrade, shoulders, slopes, bedding, backfill for structures, and for other purposes as shown on the plans.

304 - Borrow shall consist of suitable material required for the construction of embankments or for other portions of the work; such material shall be obtained from sources shown on the plans or selected by the Purchaser at his option and approved by the Authorized Officer.

*305 - Embankment construction shall consist of the placement of excavated and borrowed materials, backfilling, leveling, grading, compaction, and other earth-moving work necessary for the construction of the roadway and landings in accordance with these specifications and conforming to the lines, grades, dimensions, and typical cross sections shown on the plans and as marked on the ground with stakes.

305a - Material used in the construction of embankment sections shall be free of stumps, cull logs, brush, muck, sod, roots, frozen material, and other deleterious materials and shall be placed and compacted as specified.

305b - Embankment materials shall be placed in successive parallel layers on areas cleared of stumps, cull logs, brush, sod, and other vegetative and deleterious materials, except as provided under Subsection 204. Roadway embankments of earth material shall be placed in horizontal layers not exceeding (8) inches in depth.

306e - The final subgrade shall be compacted to full width with compacting equipment conforming to the requirements of Subsections 103f, 103g , 103h, and 103i. Minimum compaction shall be 1 hour of continuous compacting for each (6) stations of road or a fraction of as measured along the center line of the constructed road. Landings shall be compacted by routing construction equipment over full width.

308 - In the case of rock fills, placement of material in layers is not required and such material may be placed by end-dumping or other methods approved by the Authorized Officer provided that the rock be reasonably prevented from escaping beyond the embankment toe.

309 - The top of cut slopes shall be rounded by blending into the adjacent terrain for a distance not less than (1) foot and not more than (3) feet beyond the top of the cut. Rounding shall be performed in soils that can be shaped without ripping or blasting.

313 - In cut areas where solid rock is encountered at, or near subgrade, the rock shall be excavated to a minimum depth of (6) inches below subgrade elevation and the excavated area backfilled with suitable material. The backfill material shall be processed to the optimum moisture content suitable for maximum density and compacted to full width in accordance with the requirements of Subsection 306e.

314 - When heavy clays, muck, clay shale, or other deleterious material for forming the roadbed is encountered in cuts at subgrade, it shall be excavated to a minimum depth of (2) feet below the subgrade elevation and the excavated area backfilled with a selected borrow material approved by the Authorized Officer. The backfill material shall be uniformly moistened or dried to the optimum moisture content suitable for maximum density in accordance with the requirements of Subsection 306e. Unsuitable material shall be disposed of as directed by the Authorized Officer.

316 - Borrow material from sources selected at the Purchaser's option shall be inspected and approved in writing by the Authorized Officer prior to placement.

317 - Selected borrow shall consist of talus material, finely broken rock, gravel, or other material of granular or favorable characteristics from sources shown on the plans.

318 - Selected borrow or selected roadway excavation material shall be uniformly spread on the roadbed in lifts not to exceed (6) inches in depth until the required thickness shown on the plans is attained.

Each layer shall be uniformly moistened or dried to the optimum moisture content suitable for maximum density and compacted to full width in accordance with the requirements of Subsection 306.

320 - Ditches shall conform to the slope, grade, dimensions, and shape of the required cross section shown on the plans. Roots, stumps, rocks, and other projections shall be removed to form smooth, even slopes.

321 - Excess excavated, unsuitable, or slide materials shall not be disposed of on areas where the material will encroach on a stream course or other body of water. Such materials shall be disposed of in accordance with Subsection 321c. Materials not disposed of in this manner shall be retrieved and disposed of at the Purchaser's expense and at the direction of the Authorized Officer.

321c - End-dumping will be permitted for the placement of excess materials under Subsection 321 in designated disposal areas or within areas approved by the Authorized Officer. Watering, rolling, and placement in layers are required. Materials placed shall be sloped, shaped, and otherwise brought to a visible condition acceptable to the Authorized Officer.

323 - In the construction of channel changes and stream-crossing embankment sections, natural stream flow shall be maintained unless otherwise provided.

324 - Excavated material shall not be allowed to cover boles of standing trees to a depth in excess of (2) feet on the uphill side.

*327 - The finished grading shall be approved in writing by the Authorized Officer in segments. The Purchaser shall give the Authorized Officer (3) days notice prior to start of surfacing operations.

PIPE CULVERTS - 400

*401 - This work shall consist of furnishing and installing and removing a pipe culvert and other erosion control devices in accordance with these specifications and conforming to the lines, grades, dimensions, and typical cross sections shown on the plans. Individual lengths and locations are approximate; final lengths and locations will be determined by the Authorized Officer from established construction stakes and upon installation of the appurtenance structures. Additional pipe and erosion control devices may be required at the option of the Authorized Officer, in which case a reduction in the total purchase price shall be made to offset the cost of furnishing and installing such items. Costs will be based upon the unit prices set forth in the current BLM Timber Appraisal Production Cost Schedule.

405a - Corrugated-(aluminized) steel-welded pipe culverts and special sections shall conform to the requirements of AASHTO M 36 and AASHTO M 218, AASHTO M 274, or AASHTO M 289 as specified on the plans.

*406 - Coupling bands shall conform to the requirements of AASHTO M 36 and AASHTO M 218 or AASHTO M 274 with the exception of band widths and the "Hugger"-type band which shall conform to the details, dimensions, and typical diagram shown on the plans.

406a - "Hugger"-type coupling bands shall only be used with annular corrugated pipe, or helically corrugated pipe having annular reformed ends. Annular reformed ends shall consist of two annular corrugations.

*408 - Pipe culverts shall be placed on the bed starting at the downstream end with the inside circumferential laps pointing downstream and with the longitudinal laps at the side or quarter points. Coupling bands of the type required under these specifications shall be installed so as to provide the circumferential and longitudinal strength necessary to preserve the pipe alignment, prevent separation of the pipe sections, and minimize infiltration of fill material.

*410 - Pipe shall be unloaded and handled with reasonable care. If the Authorized Officer determines any structure is damaged to the extent that it is unsuitable for use in the road construction, it shall be replaced at the Purchaser's expense.

*411 - Trenches necessary for the installation of pipe culverts shall conform to the lines, grades, dimensions, and typical diagram included in the plans and the Culvert Installation Detail Sheet.

412 - Where ledge rock, boulders, soft, or spongy soils are encountered, they shall be excavated a minimum of (24) inches below the invert grade for a width of at least one pipe diameter or span on each side of the pipe and shall be backfilled with selected granular or fine readily compactable soil material.

*413 - Pipe culverts shall be bedded on a selected granular, crushed rock material from stockpiles shown on the plans, or fine readily compactable soil material having a depth of not less than (6) inches as shown on plans. Foundation material shall be of uniform density throughout the length of the structure and shall be shaped to fit the pipe.

*416 - Side-fill material for pipe culverts at the locations shown on Exhibits C-6 and C-14:

Shall be placed within (1) pipe diameter, or a minimum of (2) feet, of the sides of the pipe barrel, and to (1) foot over the pipe with fine, readily compactable soil, crushed rock material from stockpiles shown on the plans, or granular fill material free of excess moisture, muck, frozen material, roots, sod, or other deleterious or caustic material and devoid of rocks or stones of sizes which may impinge upon and damage the pipe or otherwise interfere with proper compaction.

*417 - For pipe culverts at the locations shown on Exhibits C-6 and C-14:

Side-fill material conforming to the requirements of Subsection 416 shall be placed and compacted under the haunches of the pipe, and shall be brought up evenly and simultaneously on both sides of the pipe to (1) foot above the pipe, in layers not exceeding (6) inches in depth and (1) pipe diameter/span, or a minimum of (2) feet in width each side of, and adjacent to, the full length of the pipe barrel. Each layer shall be moistened or dried to a uniform moisture content suitable for maximum compaction.

*419 - The pipe culverts after being bedded and backfilled as required by these specifications shall be protected by a (2)-foot cover of fill before heavy equipment is permitted to cross the drainage structures. Removal of the protection fill shall be as directed by the Authorized Officer.

*427 - Record culvert sizes, lengths and location actually installed on a copy of the culvert list. This culvert list shall be furnished to the Authorized Officer.

428 - Remove and dispose of old culverts in a legal manner, and for any fees required. The Purchaser shall remove the old culverts from the work site within three (3) working days of completion of the culvert replacement work for each road.

429 - Keep the excavation site dewatered so that the installation of culverts is completed

under dry conditions. Dispose of excess water by using pumping or natural drainage ways near the site. Provide for downstream waterflow with no more that 10% increase in natural stream turbidity due to transport of excavated material or sediment during construction. Diversion streams shall not be returned to the natural channel until all in-stream work has been completed.

RENOVATION AND IMPROVEMENT OF EXISTING ROADS - 500

*501 - This work shall consist of reconditioning and preparing the roadbed and shoulders, minor excavation and/or embankment, cleaning and shaping drainage ditches, trimming vegetation from cut and embankment slopes, and cleaning and repairing drainage structures of existing roads in accordance with these specifications and as marked on the ground with stakes.

502 - The existing road surface shall be bladed and shaped to the lines, grades, dimensions, and typical cross sections shown on the plans and as marked on the ground with stakes at the locations specified in the plans and work list.

502b - Drainage ditches shall be bladed and shaped in accordance with the lines, grades, dimensions, and typical cross sections shown on the plans.

504 - Existing road surface shall be uniformly moistened or dried to the optimum moisture content suitable for maximum density and compacted to full width with equipment conforming to requirements of Subsections 103f, 103g, 103h, and 103i and in accordance with the plans and work list.

504a - Minimum compaction required shall be (1) hour of continuous vibratory rolling for each (6) stations of road, or fraction thereof, as measured along the centerline per layer of material.

506 - The inlet end of 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 pipe structures shall be cleared of rock and vegetative obstructions which will impede the structure's designed outflow configuration. Catch basins shall conform to the lines, grade, dimensions, and typical diagram shown on the plans.

507 - Existing and new drainage structures at the locations shown on Exhibit C-15:

Shall be replaced and placed with structures of the type, gauge, diameter, and length shown on the plans and in accordance with the placement requirements set forth under section 400 of these specifications.

508 - Vegetation encroaching on the roadbed and the drainage ditches of existing roads

- as specified in the plans and the work list - shall be removed by cutting and disposed of in accordance with Subsection 2100 of these specifications.

509 - The finished grading shall be approved in writing by the Authorized Officer one (1) day prior to surfacing operations. The Purchaser shall give the Authorized Officer three (3) 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 road bed.

605 - The Purchaser shall secure the necessary water permits and pay all required water fees for use of water source(s) selected by the Purchaser and approved by the Authorized Officer.

AGGREGATE BASE COURSE - 900
SCREENED ROCK MATERIAL

901 - This work shall consist of furnishing, hauling, and placing one or more lifts of screened rock material on roadbeds approved for placing screened rock material in accordance with these specifications and conforming to the dimensions and typical cross sections shown on the plans.

902a - Screened rock materials to be used in this work may be obtained from a source selected by the Purchaser, at his option, providing the rock materials furnished comply with these specifications and the source is approved in writing by the Authorized Officer prior to use.

903 - Screened rock material shall conform to the following gradation requirements:

Table 903

SCREENED ROCK MATERIAL GRADATION REQUIREMENTS
Percentage by Weight Passing Square Mesh Sieves
(AASHTO T 27)

Sieve Designation	Gradation			
	A	B	C	D
4 inch	**100**			
3 inch	**95-100**			
2 inch				
1-1/2 inch				
1 inch				
No. 4	**11-44**			
No. 200	**2-15**			

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

904a - Screened rock material shall show a durability value of not less than 35 as determined by AASHTO T 210.

905 - The roadbed as shaped and compacted under sections 300 and 500 of these specifications, shall be approved in writing by the Authorized Officer prior to placement of screened rock materials. Notification for final inspection, prior to rocking, shall be (72) hours prior to that inspection and shall be (10) days prior to start of rock operations.

906 - Screened rock material shall be placed in layers not to exceed (6) inches in thickness. Where the required total thickness is more than (6) inches, the rock material shall be shaped and compacted in two or more layers of approximately equal thickness.

906a - Screened rock materials used to repair or reinforce a soft, muddy, frozen, yielding, or rutted subgrade(s) shall not be construed as surfacing under this specification.

907 - Filler or binder material obtained from sources shown on the plans and approved by the Authorized Officer shall be uniformly blended with the screened rock material on the road. Filler or binder materials shall be free from stones, vegetative matter, and other deleterious materials.

908 - Screened rock material shall be blade-processed and spread to required dimensions. Processing shall be performed in such a manner as to minimize aggregate segregation.

910 - Screened rock material, bladed and shaped as specified, shall be moistened or dried to optimum moisture content for maximum compaction and compacted to full width by compaction equipment conforming to the requirements of Subsections 103f, 103g, 103h, and 103i. Minimum compaction shall be 6 passes over each full-width layer, or fraction thereof.

AGGREGATE SURFACE COURSE - 1200
CRUSHED ROCK MATERIAL

*1201 - This work shall consist of furnishing, hauling, and placing one or more layers of crushed rock material on roadbeds approved for placing crushed rock material in accordance with these specifications and conforming to the dimensions and typical cross sections shown on the plans. Material not conforming to these specifications will be rejected, and shall be removed from the road at the purchaser's expense.

1202 - Crushed rock materials used in this work shall consist of quarry rock, stone, gravel, or other approved materials obtained from stockpiles shown on the plans.

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

*1209 - Shaping and compacting of roadbed or base course shall be completed and approved, prior to placing crushed rock material, in accordance to the requirements of Subsection 500 for placing on the roadbed. Notification for final inspection prior to rocking shall be (3) days prior to the inspection and shall be (10) days prior to start of surfacing operations.

*1210 - Crushed rock material conforming to the requirements of these specifications shall be placed on the approved roadbed in accordance with these specifications and conforming to the lines, grades, dimensions, and typical cross sections shown on the plans and staked on the ground. Compacted layers shall not exceed (4) inches in depth. When more than one layer is required, each shall be shaped, processed, compacted, and approved by the Authorized Officer before the succeeding layer is placed. Irregularities or depressions that develop during compaction of the top layer shall be corrected by loosening the material at these places and then adding or removing crushed rock material until the surface is smooth and uniform.

1210a - Crushed rock material used to repair or reinforce soft, muddy, frozen, yielding, or rutted roadbed shall not be construed as surfacing required by this specification.

1212 - Each layer of crushed rock material placed, processed, and shaped as specified shall be moistened or dried to a uniform moisture content suitable for maximum compaction and compacted to full width by compacting equipment conforming to the requirements of Subsections 103f, 103f, 103h, or 103i . Minimum compaction shall be 1 hour of continuous compacting for each 6 stations or fraction thereof.

1215 - The Purchaser is authorized to remove crushed rock material from BLM stockpiles for placement on the roads in accordance with the requirements and details shown on the plans and as follows:

Stockpile Name	Willamette Meridian			Subdivision
	Sec.	T.	R.	
Eighty Acre	19	34S.	3E.	SW 1/4

Approximately 660 cubic yards of additional crushed rock material required to complete the surfacing shall be furnished by the Purchaser in accordance with these specifications and as shown on the plans. The Purchaser shall maintain records of material removed from each of the stockpile sites designated above. These records shall be submitted to the Authorized Officer upon completion of the surfacing operation.

SLOPE PROTECTION - 1400

1401 - This work shall consist of furnishing, hauling, and placing stone materials for culvert replacement splash pads in accordance with these specifications and conforming to the lines, grades, dimensions, and typical cross-sections shown on the plans. Material not conforming to these specifications will be rejected and shall be removed from the slope protection structure at the purchaser's expense and as directed by the Authorized Officer.

1402 - Stone material shall consist of hard angular quarry rock of such quality that it will not disintegrate on exposure to water or weathering, and shall be graded in accordance with these specifications.

NOTE: *Guide for relation between volume, size and weight. (175 lbs./cu./ft.):*

Volume/ Cubic Foot	*Average Dimension in inches*	*Approximate Weight in Pounds*
12	*27.5 x 27.5 x 27.5*	*2100*
6	*21.8 x 21.8 x 21.8*	*1050*
4	*19.1 x 19.1 x 19.1*	*700*
3	*17.3 x 17.3 x 17.3*	*525*
1	*12.0 x 12.0 x 12.0*	*175*
2/3	*10.5 x 12.0 x 12.0*	*120*
½	*9.5 x 9.5 x 9.5*	*88*
1/3	*8.3 x 8.3 x 8.3*	*60*
¼	*7.6 x 7.6 x 7.6*	*44*
1/6	*6.6 x 6.6 x 6.6*	*30*
1/8	*6.0 x 6.0 x 6.0*	*22*
1/100	*2.6 x 2.6 x 2.6*	*2*

1404 - The material shall be well graded from the smallest to the maximum size specified. Stones smaller than the specified 10 percent size shall consist of spalls and fine rock fragments so distributed as to provide a stable compact mass.

1405 - Rip rap shall conform to the following gradations:

TABLE 1405

Class	Approx. Cubic Dimension (inches)	Sphere Diameter (inches)	% of Total Volume Smaller than Size of Stone
1	6-8	8	100
	5-6	6	80
	2-5	6	50
	0-2	2	10
2	8-10	12	100
	6-8	8	80
	3-6	6	50
	0-3	4	10
3	**14-16**	**21**	**100**
	10-14	**18**	**80**
	5-10	**12**	**50**
	0-5	**6**	**10**
4	18-20	24	100
	14-18	22	80
	6-14	18	50

	0-6	8	10
5	26-28	36	100
	20-26	32	80
	8-20	25	50
	0-8	10	10
6	28-34	42	100
	22-28	34	80
	10-22	27	50
	0-10	12	10

*Rocks smaller than six inches in diameter are not counted.

1407 - Determination of the acceptability of the slope protection material gradation will be through visual inspection by the Authorized Officer.

1408 - The Purchaser is authorized to remove Rip rap material from BLM stockpiles/Quarries for placement on the roads in accordance with the requirements and details shown on the plans and as follows:

Stockpile Name	Willamette Meridian			Subdivision
	Sec.	T.	R.	
Eighty Acre	19	34S.	3E.	SW 1/4

Approximately 39 cubic yards of additional Rip rap material required to complete the splash pads shall be furnished by the Purchaser in accordance with these specifications and as shown on the plans. The Purchaser shall maintain records of material removed from each of the stockpile sites designated above. These records shall be submitted to the Authorized Officer upon completion of the surfacing operation.

EROSION CONTROL - 1700

*1701 - This work shall consist of measures to control soil erosion or water pollution during the construction operation through the use of berms, dikes, dams, sediment basins, fiber mats, netting, gravel, mulches, grasses, slope drains, and other erosion control devices or methods in accordance with these specifications and conforming to the lines, grades, dimensions and typical cross sections shown on the plans.

1704 - The erosion control provisions specified under this Subsection shall be coordinated with the Soil Stabilization requirements of Section 1800.

1705 - The surface area of erodible earth material exposed at any one time by clearing and grubbing shall not exceed 4356 square feet (0.10 acres) after October 1 without prior approval by the Authorized Officer.

1706 - The surface area of erodible earth material exposed at one time by excavation, borrow, or fill within the right-of-way shall not exceed 4356 square feet (0.10 acres) after October 1 without prior approval by the Authorized Officer.

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. This work is required for road acceptance under Section 18 of this contract.

1802a - Soil stabilization work consisting of seeding and mulching shall be performed on culvert replacements, landings, disturbed areas, and disposal sites, in accordance with these specifications and as shown on the plans.

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

From: September 15	To: October 31 (of the same year)

If soil stabilization of disturbed areas is not completed by the specified fall date, the Purchaser shall treat disturbed areas and then complete the requirements of Section 1800 the next construction season. The Authorized Officer may modify the above seasonal dates to conform to existing weather conditions and changes in the construction schedule.

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

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

1808 - Mulch materials conforming to the requirements of Subsections 1808a shall be furnished by the Purchaser in the amounts specified under Subsection 1811 and

applied in accordance with Subsection 1815.

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

1809 - Mulch material shall be delivered to the work area in a dry state. Material found to be wet will not be accepted. Material to be used in the mulching operation may be stockpiled along the road designated for treatment provided that it is maintained in a dry state and has the approval of the Authorized Officer.

1810 - Bulk mulching material required under these specifications shall be delivered to the work area bound either by twine, string or hemp rope. Wire binding will not be permitted.

1811 - The Purchaser shall furnish and apply to approximately 3.5 acres designated for treatment as shown on the plans and as specified under Subsections 1802 and 1806a, a mixture of grass seed and mulch material at the following rate of application:

a. Two Stage Dry Application:

Grass Seed	20 lbs./acre
Mulch	3,000 lbs./acre

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

1814 - The Purchaser may reduce the application rate on partially covered slopes and refrain from application on areas already well stocked with grass or on rock surfaces as determined by the Authorized Officer.

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

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

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

1821 - Mulch that collects at the end of culverts or accumulates to excessive depths on the slopes shall be evenly spread by hand methods, as directed by the Authorized

Officer.

1824 - Twine, rope, sacks, and other debris resulting from the soil-stabilization operation shall be picked up and disposed of to the satisfaction of the Authorized Officer.

ROADSIDE BRUSHING - 2100

*2101 - This work shall consist of the removal of vegetation from the road prism - variable distance, and inside curves in accordance with these specifications and conforming to the lines, grades, dimensions, and typical cross sections shown on the Roadside Brushing Detail Sheet of this exhibit, at designated locations as shown in the plans.

*2102 - Roadside brushing may be performed mechanically with self-powered, self-propelled equipment or manually with hand tools, including chain saws.

*2103 - Vegetation cut manually or mechanically less than (6) inches in diameter at D.B.H. shall be cut to a maximum height of (2) inches above the ground surface or above obstructions such as rocks or stumps on cut and fill slopes and all limbs below the (2) inch area will be severed from the trunk.

2103a - Vegetation shall be cut and removed from the road bed between the outside shoulder(s) and the ditch centerline and such vegetation shall be cut to a maximum height of (1) inch above the ground and running surface. Limbs below the (1) inch area will be severed from the trunk. Sharp pointed ends will not be permitted. Cuts shall be parallel to the ground line or running surface.

2104 - Trees in excess of (6) inches in diameter at D.B.H. shall be limbed, so that no limbs extend into the treated area or over the roadbed to a height of (14) feet above the running surface of the roadway on cut and fill slopes, within the road prism-variable distance. Limbs shall be cut to within (1) inch of the trunk to produce a smooth vertical face. Removal of trees larger than (6) inches in diameter for sight distance or safety may be directed by the Authorized Officer.

2105 - Vegetation that is outside of the road prism-variable distance that protrudes into the road prism and within (14) feet in elevation above the running surface shall be cut, to within (1) inch of the trunk to produce a smooth vertical face.

2106 - Vegetative growth capable of growing (1) foot in height or higher shall be cut, within the road prism-variable distance or as directed by the Authorized Officer.

2107 - Inside curves shall be brushed out for a sight distance of (200) feet chord distance or a middle ordinate distance of (25) feet, whichever is achieved first. Overhanging limbs and vegetation in excess of (1) foot in height, shall be cut within these areas.

2108 - Self propelled equipment shall not be permitted on cut and fill slopes or in ditches.

2109 - Debris resulting from this operation shall be scattered downslope from the roadway. Debris shall not be allowed to accumulate in concentrations. Debris in excess of (1) foot in length and (2) inches in diameter shall not be allowed to remain on cut slopes, ditches, roadways or water courses, or as directed by the Authorized Officer.

2113 - Roadside brushing shall be accomplished as shown on the plans and as listed in the work list.

2114 - Sections of roadway to have vegetation removed will be marked at start and stop points with red-topped painted stakes.

2115 - Mechanical brush cutters shall not be operated when there are people and occupied vehicles within (400) feet of the immediate operating area.

2116 - Traffic warning signs shall be required at each end of the work area. Signs shall meet the requirements of the Manual on Uniform Traffic Devices.

SPECIAL PROVISIONS

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

ACTIVITY	START DATE	END DATE
Road renovation	May 15	Oct. 15
In stream	June 15	Sept. 15

2. STREAMS:
   - All instream work shall be done from June 15 thru September 15 both days included.
   - Construct silt fences 25 and 50 feet below culvert replacement sites (on live streams) to trap sediment and prevent it from entering nearby stream channels.
   - Live streams shall be diverted around or through the work area in a manner that will minimize sedimentation downstream. Keep excavation site dewatered so that installation of culverts can be carried out only under dry conditions. Dispose of excess water by using natural drainage ways or devices near the site to the extent of their natural capacity and in a manner that will avoid damage to adjacent property. Utilize dewatering methods such as temporary sediment traps and/or silt fences for areas to be excavated. Provide for downstream water flow without significant transport of excavated material or sediment during construction. At no time shall turbidity limits exceed DEQ's water quality standards.
   - Ensure that all large wood is retained in the stream channel during culvert cleaning activities by moving logs which had accumulated on the stream side of a culvert to the downstream side of the culvert.

3. CULVERTS / CMPs:
   - Backfill material over new culverts shall be compacted with a mechanical tamper to 95% of max. compaction. Existing surfacing materials shall be conserved and re-compacted over installation area.
   - When removing culverts, pull slopes back to the natural slope, or at least 1:1, to minimize sloughing, erosion, and the potential for the stream to undercut stream banks during periods of high stream flows. Remove excess sediment from stream channels during culvert removal, replacement, and installation activities. Apply seed and mulch to all disturbed or exposed soils at each stream culvert removal site.

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

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

6. PERMITS:
   - All permits required are the responsibility of the Purchaser.

7. WATER SOURCE:
   - The Purchaser is responsible for obtaining water and associated rights and permits.

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

9. SOIL STABILIZATION:
   - All disturbed soil shall be seeded and mulched. Purchaser shall apply native grass seed and Certified Weed Free straw mulch for soil stabilization operations. BLM will furnish native grass seed, if available. Certified weed free straw mulch will be the responsibility of the contractor.

10. ROADSIDE BRUSHING
   - Roadside brushing cutting limits beneath or adjacent to bridges shall extend 8 feet horizontally from each side of the outermost projected line of the bridge including abutments, curbs, rails or decks. Cut brush and trees shall be removed from beneath the bridge and from the stream channel.
   - While roadside brushing, there shall be no scarring or any other damage of the tree trunk or bole allowed. All debris resulting from roadside brushing activities shall be mechanically chipped. Use of Excavators for brush removal will be at the discretion of the Authorized Officer. All culvert inlets and outlets shall be brushed for a radius of 4 feet.
   - While roadside brushing through private industry lands, conifer trees at the edges of the cleared area (see cutting limit, Exhibit C-12) shall have the branches pruned rather than being felled.

11. LANDING DECOMMISSIONING
   - Constructed landings shall be decommissioned after use per Exhibit D3 – Eighty Acre Maintenance work list.

12. WILDLIFE RESTRICTIONS
   - Seasonally restrict mechanical roadside brushing and heavy equipment use from March 1 through June 30 within 200 feet of known Northern Spotted Owl and raptor nests. This may be extended up to September 30 if nesting activity is occurring at that time. Seasonal restrictions may be waived if nesting is not determined.

13. EQUIPMENT
    - Construction equipment shall be washed prior to entering BLM lands. Removal of all dirt, grease, and plant parts that may carry noxious weed seeds or vegetative parts is required. Equipment shall be inspected by CO prior to entering BLM lands. Provide 48 hours' notice of inspection to BLM prior to mobilization.

14. COMMERCIAL AGGREGATE
    - Aggregate furnished for this work shall be from an accredited weed free quarry or shall have been stockpiled in the period between November 1st and June 15th immediately prior to application. Aggregate which has been stockpiled between June 16th and October 31st of prior years will not be accepted. Aggregate crushed between June 16th and October 31st of the same application year shall not be stockpiled for more than two weeks before application.

15. TEMPORARY ROUTES
    - All temp routes and native surfaced roads (that were previously closed before timber sale activities began) shall be winterized if access is needed over two dry seasons by October 15th. Winterization includes water barring, seeding, mulching, and barricading. All temp routes shall be ripped, water barred, barricaded, seeded, and mulched after use unless otherwise specified.
    - Clearing, grubbing, and excavation activities of temporary spur routes shown on Exhibit C shall be performed in accordance with Exhibit C.
    - Construction of temporary spur routes shall be to minimum width.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

ROAD MAINTENANCE SPECIFICATIONS

INDEX

GENERAL MAINTENANCE- 3000

3001 The Purchaser shall be required to maintain all roads listed and/or referenced in section 41, as shown on the Exhibit D-2 maps 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, 3403a, and 3404.

3002 The Purchaser shall maintain the cross section of existing dirt or graveled roads to the existing geometric standards. Any roads required to be constructed, improved, or renovated under terms of this contract shall be maintained to the geometric standards required in Exhibit C of this contract.

3003 The minimum required maintenance on any roads shall include the provisions specified in Subsections 3101, 3104, and 3105.

3004 The Purchaser shall be responsible for providing timely maintenance and cleanup on any roads with logging units substantially completed prior to moving operations to other roads. The maximum length of non-maintained or non-cleanup of the road prism shall not exceed the sum of one (1) mile at any time. Release of maintenance requirements may be granted, upon written request, when the conditions specified in Sections 3300 and 3400 are met satisfactorily.

OPERATIONAL MAINTENANCE - 3100

3101 The Purchaser shall blade and shape the road surface and shoulders with a motor grader. Banks shall not be undercut. Back blading with tractors or similar equipment will be allowed only around landings and other areas when approved by the Authorized Officer.

3102 The Purchaser shall place 150 cu. yds. of aggregate surface course conforming to the requirements in Section 1200 of Exhibit C of this contract on the roadway at locations and in the amounts designated by the Authorized Officer.

Stockpiled aggregate shall be obtained from the following BLM stockpiles:

Stockpile Name	Willamette Meridian			Subdivision
	Sec.	T.	R.	
Eighty Acre	19	34S.	3E.	SW 1/4

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

3103 The purchaser shall maintain established berms and place additional berms using adjacent material where needed to protect fills as directed by the Authorized Officer.

3104 The purchaser shall perform other road cleanup including removal of debris, fallen timber, bank slough, and slides which can practicably be accomplished by a motor grader, rubber tired front end bucket loader, rubber tired backhoe or comparable equipment, and by the use of hand tools.

3104a Removal of bank slough and slide material includes placement of material at the nearest designated, suitable disposal site where material cannot erode into streams, lakes, or reservoirs or cause undue damage to road fill slopes which have been planted or mulched to control soil erosion as directed by the Authorized Officer.

3104b The Purchaser shall be responsible for removal of all slides or slough, up to fifteen station yards in quantity, at any one site. This work includes unlimited multiple sites on all roads required to be maintained by the purchaser.

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

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

3105 The Purchaser shall be responsible for maintaining normal flow in drainage structures. This includes cleaning out drainage ditches, catch basins, clearing pipe inverts of sediment and other debris lodged in the barrel of the pipe, and maintaining water dips and water-bars using equipment specified in Subsection 3104 and other culvert cleaning and flushing equipment.

3106 The Purchaser shall be responsible for repair and replacement of all materials eroded from road shoulders and fill slopes, up to fifteen station yards in quantity, at any one site. This work includes unlimited multiple sites on all roads required to be maintained by the Purchaser. Prior to repair and replacement of eroded material exceeding fifteen station yards at any one site, the Purchaser and the Authorized Officer or their Authorized Representatives shall agree in writing, in the field, to the quantity of material, borrow source and method of repair. Work may commence immediately after agreement.

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

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

The Purchaser shall also cut trees or brush encroaching on the road prism that are a result of his activities or winter damage during the contract period. Disposal of such vegetative material shall be in accordance with Section 2100 of Exhibit C-16.

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

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

SEASONAL MAINTENANCE - 3200

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

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

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

3204 The Purchaser shall be responsible for performing post storm inspections and maintenance

during the winter season to minimize erosion and potential road or watershed damage.

FINAL MAINTENANCE - 3300

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

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

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

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

OTHER MAINTENANCE - 3400

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

3402 The Purchaser shall be permitted to remove ice and snow from roads authorized for use under this contract only when prior written approval has been secured from the Authorized Officer. The Purchaser shall submit a written request for permission to remove ice and snow in advance of the date operations are to begin.

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

3403 The Purchaser shall be required to furnish and apply non-saline water during dry hauling periods, when directed by the Authorized Officer, for the purpose of laying dust and to prevent loss of surface material. The first application of water shall be made at the rate of one- half gallon per yd^2 of road surface traveled. Subsequent applications shall be made for each 40 MBF of timber or 120 yds^3 of rock hauled. Subsequent watering may be done at a rate less than one-half gallon per yd^2 when a specified lesser rate is approved by the Authorized Officer.

The following roads shall be watered:

Road Number	From M.P.	to M.P.
34-2E-26.00	0.00	0.40
34-2E-35.03	0.00	0.63
34-2E-35.04	0.00	0.10
34-2E-35.09	0.00	0.10
34-3E-29.01	0.00	2.99
35-2E-2.00	0.00	5.56
35-2E-2.02	0.00	0.45
35-2E-11.00	0.00	2.00
Misc. Roads	0.00	2.00

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

During drought periods when the transportation of water from the source to the roads noted above exceeds (15) miles, a reduction shall be made in the total purchase price to reflect the additional haul or the substitution of other acceptable dust palliatives in lieu of watering based on equipment rental rates from the current BLM Road Cost Guide.

3403a During dry hauling conditions when watering is not required, the Purchaser shall reduce hauling speeds or restrict the number of loads hauled to reduce dust as directed by the Authorized Officer on the following roads:

Road Number	From M.P.	to M.P.
34-2E-26.00	0.00	0.40
34-2E-35.03	0.00	0.63
34-2E-35.04	0.00	0.10

34-2E-35.09	0.00	0.10
34-3E-29.01	0.00	2.99
35-2E-2.00	0.00	5.56
35-2E-2.02	0.00	0.45
35-2E-11.00	0.00	2.00
Misc. Roads	0.00	2.00

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

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

3408 Dust palliatives shall be applied with standard commercial distribution equipment operated in a manner that the material is uniformly applied on variable widths of surface at controlled rates.

3409 The Purchaser shall notify the Authorized Officer a minimum of (3) days in advance of application of required dust palliative.

3410 The Purchaser shall submit an application schedule for all dust palliative work to the Authorized Officer for approval. All work shall be in accordance with the approved plan.

DECOMMISSIONING – 3500

3501 Decommissioning shall consist of removing cross drain and draw culverts. Work includes ripping or subsoiling, installing water bars and drain dips, placement of soil stabilization material, and blocking road from access by vehicles. This work is not required for road acceptance under Section 18 of this contract.

3503 Decommissioning shall be performed on existing roads, temp routes and landings in accordance with these specifications, and as shown on the plans at the following locations:

Road No or Site	From Sta/MP	To Sta/MP	Decommission
34-2E-26.07	0.00	0.11	Partial
34-2E-35.02B	0.53	1.17	Full
34-2E-35.04	0.00	0.10	Partial
34-2E-35.09	0.00	0.10	Partial
34-3E-19.01	0.21	0.60	Partial
34-3E-21.03	0.15	0.15	Barricade
34-3E-31.01	0.85	0.95	Partial
34-3E-31.05	0.00	0.13	Partial
34-3E-31.06	0.12	0.27	Partial
35-2E-1.02	0.00	0.57	Partial
35-2E-2.01	0.41	0.41	Barricade
35-2E-2.03	0.52	1.78	Gate/Barricade/Partial
35-2E-3.01	0.00	0.22	Partial
Temp Route 31-4	0.00	0.10	Full
Temp Route 31-5	0.00	0.22	Full
34-2E-35.02B Landing	--	--	Full
34-3E-31.01 Landing	--	--	Full
35-2E-3.01 Landing	--	--	Partial
Temp Route 31-4 Landing	--	--	Full
Temp Route 31-5 Landing	--	--	Full

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

From: September 15	To: October 15 (of the same year)

3505 Where draw crossing fill material is to be excavated and removed, the finished bottom of draw profile shall be re-established to its original channel grade and resulting adjacent banks shall be constructed to a 2:1 backslope ratio.

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

3507 Culverts not designated as salvage by the Authorized Officer for the Government shall become the property of the Purchaser. The Purchaser shall be responsible for disposal of materials in a

legal manner and for payment of any fees required. Sale of material on site is not allowed unless authorized in writing by the Authorized Officer.

3508 Protect areas mulched from damage by Purchaser traffic or construction equipment. Damaged areas shall be repaired by the Purchaser.

3509 Access shall be blocked with barricades as shown on the Drainage and Erosion Control Detail Sheet Exhibit C-10 and at locations as shown on Exhibits D-3.

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

3513 Water bars and drain dips shall be installed across full width of roadway at spacing shown in the specifications. Water bars and drain dips shall be constructed as shown on Exhibit C-10.

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

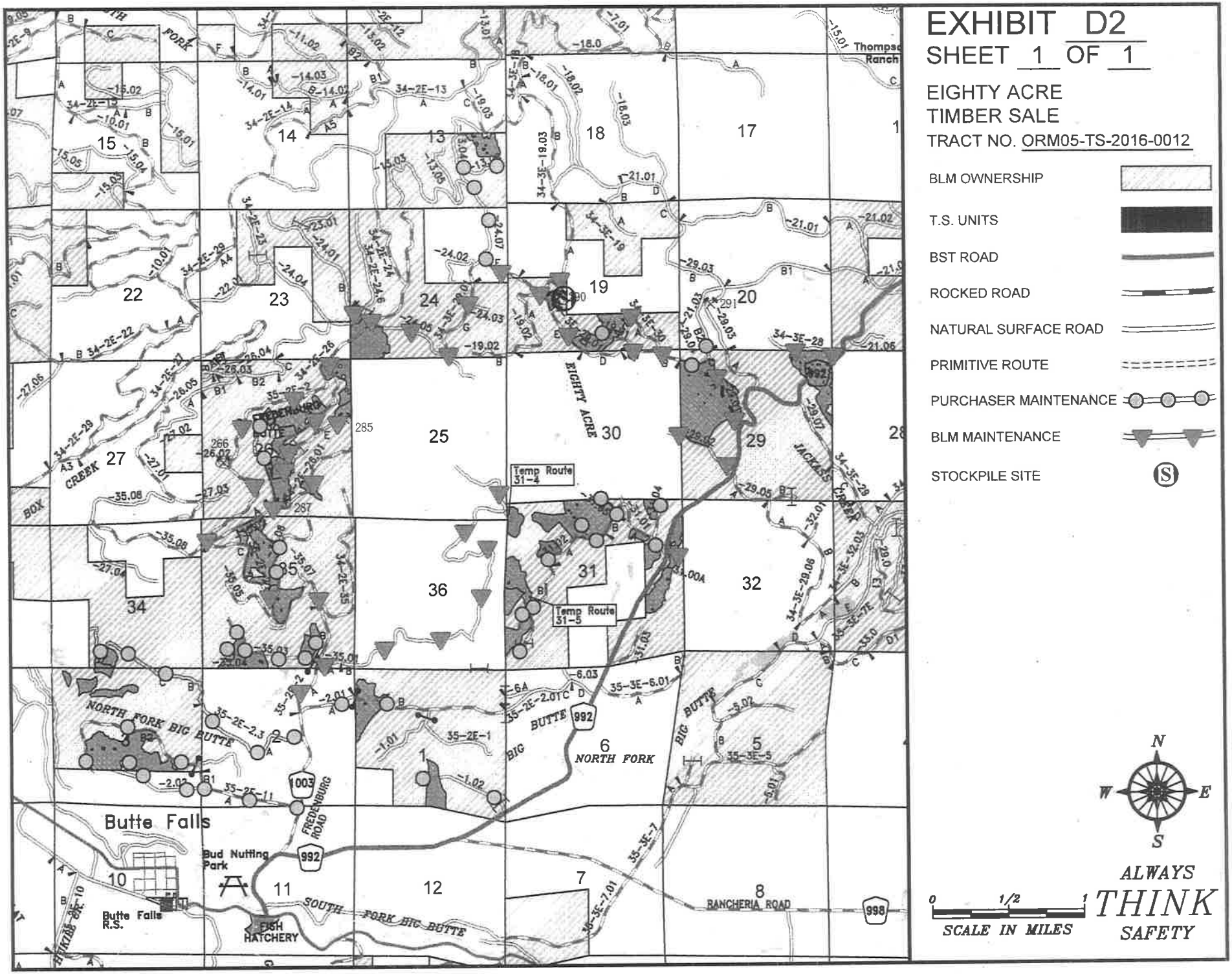


EXHIBIT D2

SHEET 1 OF 1

EIGHTY ACRE
TIMBER SALE
TRACT NO. ORM05-TS-2016-0012

BLM OWNERSHIP

T.S. UNITS

BST ROAD

ROCKED ROAD

NATURAL SURFACE ROAD

PRIMITIVE ROUTE

PURCHASER MAINTENANCE

BLM MAINTENANCE

STOCKPILE SITE (S)

N
W E
S

0 1/2 1
SCALE IN MILES

ALWAYS
THINK
SAFETY

EIGHTY ACRE
Road Decommissioning Worklist

GENERAL DEFINITIONS:

Decommission (Full):
Roads: Rip, Water bar (every 150' for grades < 10% - every 100' grades > 10%), Barricade, and/or Remove Culverts (Armor if needed) and Seed and Mulch.
Landings: Rip, Seed and Mulch.

Decommission (Partial):
Roads: Water bar (every 150' for grades < 10% - every 100' grades > 10%), Barricade, and/or Remove culverts (Armor if needed) and Seed and Mulch all disturbed areas.
Landings: Seed and Mulch Disturbed areas.

Barricade = Barricade only.

Gate = Gate only.

ASC - Aggregate Surface Course
CMP – Corrugated metal pipe
D.B.H.- Diameter breast height
NAT – Natural surface
WD – Water Dip
AWD – Armored water dip
Cu. Yds = CY = Cubic Yards
Jct.– Junction
PRR - Pit Run Rock
DS – Down Spout

Road 34-2E-26.07 (Look Out Spur) NAT
(Partial Decommission.)

MP	Remarks
0.00	Jct. 35-2E-2.00. Begin Renovation. Begin Brushing.
0.01	Existing barricade. Re-Construct Barricade after use.
0.11	End Renovation. End Brushing.

Road 34-2E-35.02B (Lookout Spur B) NAT
(Full Decommission)

MP	Remarks
0.53	Jct. 34-2E-35.2A, 34-2E-26.1. Begin Full Decommission.
0.55	Existing Barricade. Re-Barricade After Use.
1.11	Existing Pump Chance. Existing 12" Culvert, Remove After Use. Construct Water bar.
1.14	Existing Pump Chance. Existing 12" Culvert, Remove After Use. Construct Water bar.
1.17	End of Road. End Full Decommission After Use. Full Decommission Landing After Use.

Road 34-2E-35.04 (Temp Spur) NAT
(Partial Decommission)

MP	Remarks
0.00	Jct. 34-2E-35.03. Begin Partial Decommission.
0.01	Existing Culvert, 18". Remove Culvert and Construct Barricade after use.
0.03	Existing Barricade. Re-Construct Barricade after use.
0.10	End Partial Decommission.

Road 34-2E-35.09 (Lower Left Spur) NAT
(Partial Decommission)

MP	Remarks
0.00	Jct. 34-2E-35.03. Begin Partial Decommission.
0.01	Existing Barricade. Re-Construct Barricade after use.
0.10	End Partial Decommission.

Road 34-3E-19.01 (S 19 Select) PRR
(Partial Decommission)

MP	Remarks
0.00	Jct. 34-3E-29.01. Begin Partial Decommission.
0.02	Existing Barricade. Re-Construct Barricade after use.
0.21	End Partial Decommission.

Road 34-3E-21.03 (Horseshoe Road) PRR
(Barricade)

MP	Remarks
0.00	Jct. 34-2E-29.01. Existing Culvert, 18".
0.03	Existing WD.
0.12	Existing Barricade. Re-Construct Barricade after use.
0.15	Property Line.

Road 34-3E-31.01 (Lower 80 Acre Creek) ASC
(Partial Decommission)

MP	Remarks
0.00	Jct. Butte Falls - Prospect Hwy. (Y Intersection).
0.85	Jct. 34-3e-31.02. Re-Construct Barricade after use. Begin Partial Decommission.
0.95	End Partial Decommission. Full Decommission Landing After Use.

Road 34-3E-31.05 (80 Acre Short Spur) NAT
(Partial Decommission)

MP	Remarks
0.00	Jct. 34-3e-31.01. Begin Partial Decommission.
0.05	Existing Barricade. Re-Construct Barricade after use.
0.12	Existing Waterbar/Barricade. Re-Construct Barricade after use.
0.13	Property Line. End Partial Decommission.

Road 34-3E-31.06 (Upper South Spur) PRR-NAT
(Partial Decommission)

MP	Remarks
0.00	Jct. 34-3E-31.02.
0.12	Existing Barricade. Re-Construct Barricade After Use. Begin Partial Decommission.
0.27	End Partial Decommission.

Road 35-2E-1.02 (North Fork Butte Creek) NAT
(Partial Decommission)

MP	Remarks
0.00	Jct. Butte Falls / Prospect Hwy. Begin Partial Decommission.
0.02	Existing Barricade. Re-Construct Barricade After Use.
0.57	Jct. jeep spur. End Partial Decommission.

Road 35-2E-2.00 (Fredenburg) ASC
(Barricade.)

MP	Remarks
0.00	Existing Cattleguard. End County Maintenance.
5.00	Existing Barricade. Re-Construct Barricade After Use.
5.56	End of Road.

Road 35-2E-2.01 (Sec. 1 Spur) PRR
(Barricade.)

MP	Remarks
0.00	Jct. County Road (Fredenberg).
0.15	Jct. Pvt. Rd. Left.
0.39	Property Line.
0.41	Existing Pipe Gate. Construct Barricade: Place Boulders around gate.

Road 35-2E-2.03 (Fredenburg Pasture Spur) PRR
(Gate. Barricade. Partial Decommission.)

MP	Remarks
0.00	Jct. Fredenburg County Road.
0.52	Existing Wire Gate - tore down. Install new Mega Gate.
0.54	Existing Culvert, 18".
0.95	Property Line. Existing Boulder Barricade (remove and place boulders at mile post 1.03).
1.03	Jct. Jeep Rd. Right – Construct Barricade: Place Boulders.
1.29	Begin Partial Decommission.
1.57	Jct. Spur Right.
1.78	End Partial Decommission after use. Construct Barricade After Use.

Road 35-2E-3.01 (2.2 Spur) NAT
(Partial Decommission)

MP	Remarks
0.00	Jct. 35-2E-2.02. Begin Project. Begin Partial Decommission.
0.04	Existing Barricade. Re-Barricade After Use.
0.22	End Partial Decommission. Partial Decommission Landing.

Temp Route 31-4 NAT
(Full Decommission.)

MP	Remarks
0.00	Jct. 34-2E-35.01. Begin Temp Route Full Decommission.
0.02	Construct Barricade.
0.10	End Temp Route Full Decommission. Full Decommission Landing.

Temp Route 31-5 NAT
(Full Decommission.)

MP	Remarks
0.00	Jct. 34-3E-31.02. Begin Temp Route Full Decommission.
0.02	Construct Barricade.
0.22	End Temp Route Full Decommission. Full Decommission Landing.

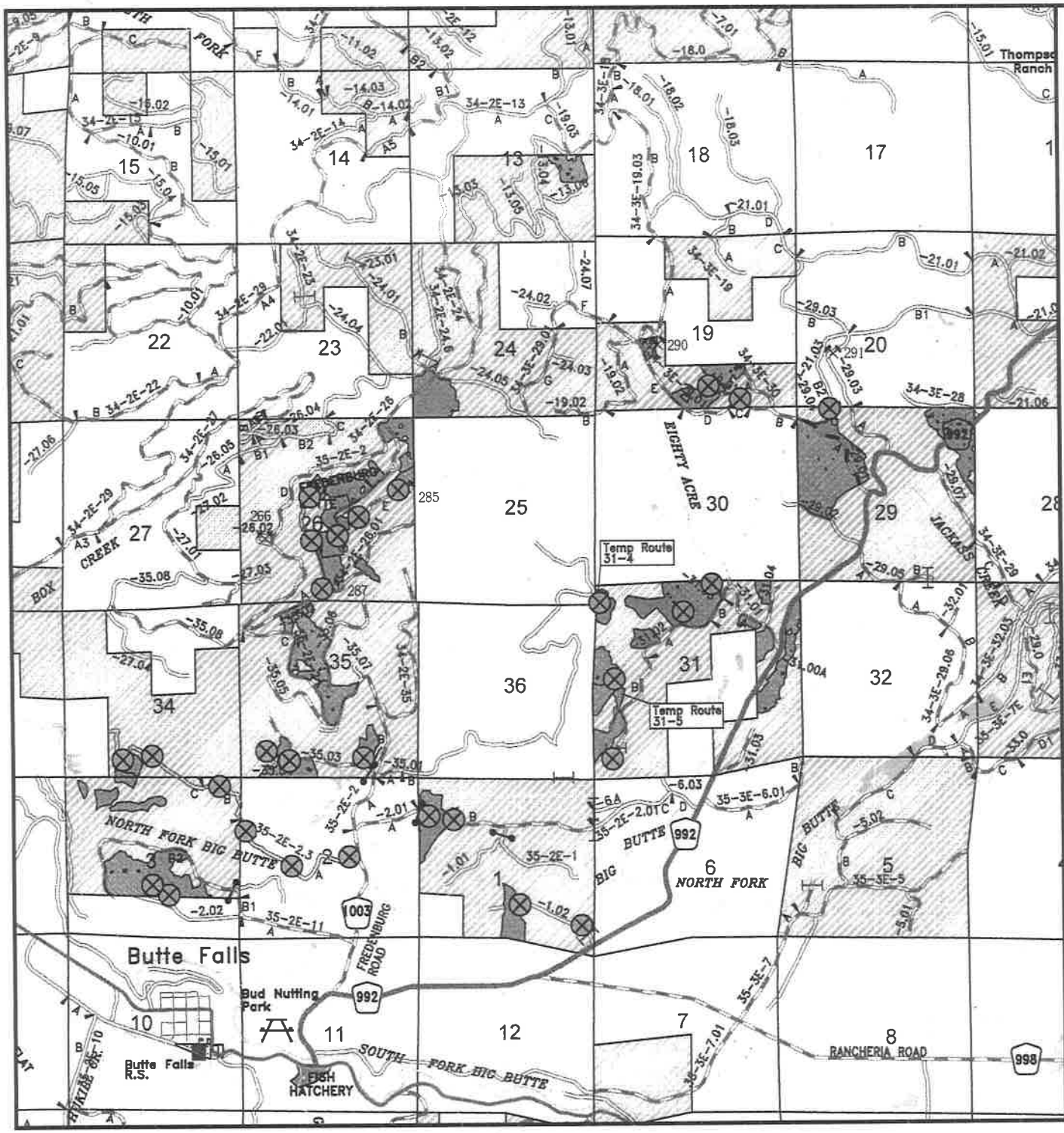


EXHIBIT D4

SHEET 1 OF 1

EIGHTY ACRE
TIMBER SALE

TRACT NO. ORM05-TS-2016-0012

BLM OWNERSHIP

T.S. UNITS

BST ROAD

ROCKED ROAD

NATURAL SURFACE ROAD

PRIMITIVE ROUTE

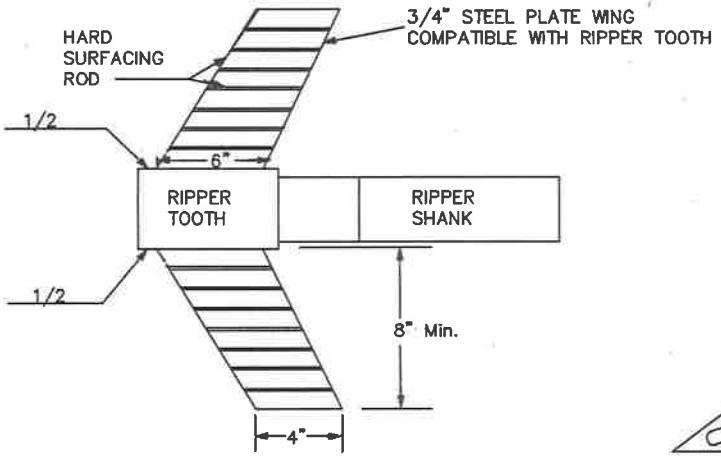
ROAD TO BE DECOMMISSIONED AFTER USE
SEE EXHIBIT D-3

N
W E
S

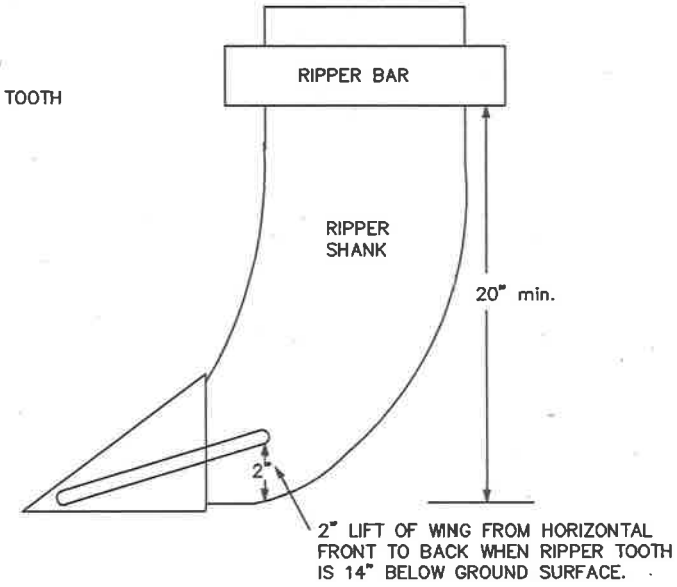
0 1/2 1
SCALE IN MILES

ALWAYS THINK SAFETY

EXHIBIT R
*SHEET _1_ OF _1_*

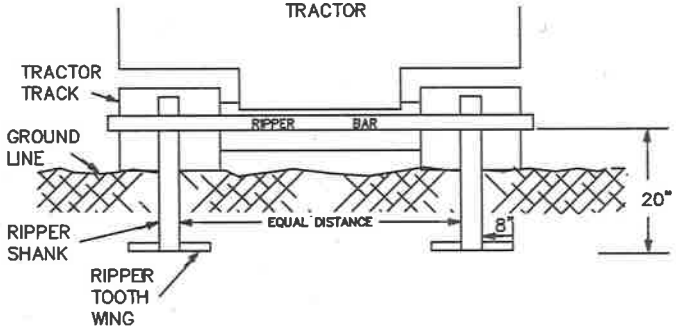


TOP VIEW



SIDE VIEW

TYPICAL RIPPER POSITION



NOTES: TYPICAL RIPPER TOOTH CONSTRUCTION

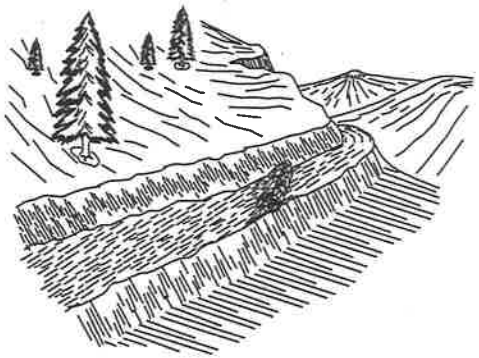
1. USE HARD SURFACING ROD FOR ALL EDGE AND SURFACE REINFORCEMENT.
2. WELD THAT ATTATCHES WINGS TO RIPPER TEETH MUST BE COMPATIBLE WITH METAL IN TEETH AND WINGS.
3. RIPPER SHANKS AND RIPPER TEETH MAY BE NEW OR USED.
4. WINGS SHALL PROVIDE TWO (2) INCHES OF LIFT FROM THE HORIZONTAL WHEN TEETH ARE EXTENDED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

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

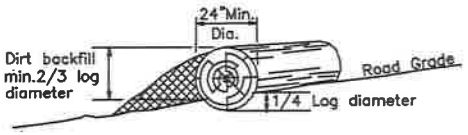
WING RIPPER DETAIL

DESIGNED	
REVIEWED	
APPROVED	
DRAWN: JWR	SCALE: NONE
DATE: October 2009	SHEET 1 OF 1
DRAWING NO.	

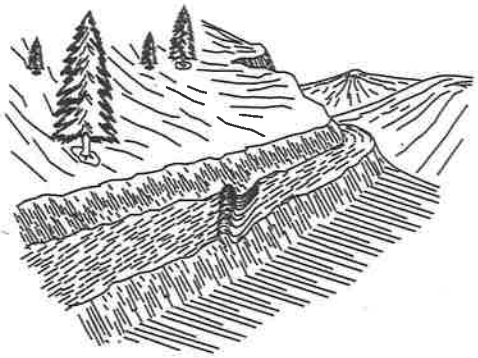
EXHIBIT W
*SHEET _1_ OF _1_*



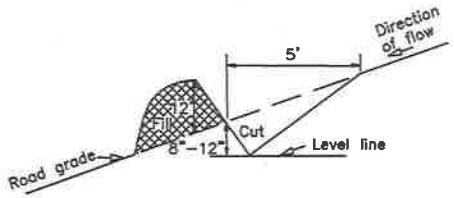
LOG BARRICADE



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

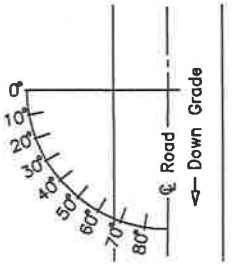


WATER BAR



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

SKEW DIAGRAM



WATER BAR SPACING *

ROAD GRADE	LOAM OR CLAY LOAM	DECOMPOSED 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 of America

Department of the Interior

Bureau Of Land Management

Timber Sale Appraisal

District : Medford
Sale Name : Eighty Acre
Sale Date : 05/26/2016
Appraisal Method : 16' MBF

Contract # : ORMO5-TS-16-12
Job File # : M11318
Master Unit : Jackson
Planning Unit : Butte Falls

Contents

Legal Description

Forest Type	Township	Range	Section	Subdivision
O&C	34S	2E	13	Govt. Lot 3.
O&C	34S	2E	24	W1/2SW1/4, SE1/4SW1/4.
O&C	34S	2E	26	NE1/4, SE1/4NW1/4,NE1/4SW1/4, Govt. Lot 2, 3, 4, NW1/4SE1/4.
O&C	34S	2E	34	SE1/4SW1/4.
O&C	34S	2E	35	W1/2NE1/4, N1/2NW1/4, SE1/4NW1/4, NE1/4SW1/4, S1/2SW1/4, SE1/4.
O&C	34S	3E	19	Govt. Lot 3, SE1/4SW1/4, SW1/4SE1/4.
O&C	34S	3E	29	N1/2NE1/4, SE1/4NE1/4, NW1/4, NW1/4SW1/4, NE1/4SE1/4.
O&C	34S	3E	31	Govt. Lot 1, 2, 3, 4, 5, 6, 7, SE1/4NE1/4, NE1/4SE1/4.
O&C	35S	2E	1	Govt. Lot 4, 5, 7, 8, 9, 10.
O&C	35S	2E	3	Govt. Lot 2, 3, 4, 6, 7, 9, 10, 11, 12.

Cutting Volume (16' MBF)

Unit	DF	WF	IC	PP	SP				Total	Regen	Partial	ROW
29-2	226	782	20	2	0				1,030	0	102	0
26-2	25	46	0						71	0	20	0
35-3	87	2	2	2	0				93	0	20	0
26-3	73	100	11		1				185	0	22	0
31-2	182	182	23	40	2				429	0	59	0
31-4	47	27	8	1					83	0	10	0
31-6	36	0	0	4					40	0	9	0
31-7	16	1		0					17	0	15	0
1-3	162	83	8		2				255	0	19	0
3-1	194	0	5	4					203	0	23	0
34-1	71	0	3	3					77	0	8	0
26-5	20	12							32	0	7	0
26-4	33	11	2	0					46	0	7	0
19-1	16	5	0						21	0	6	0
35-5	34	0		0	0				34	0	11	0
35-4	65	1	2	1	1				70	0	22	0
26-1	139	104	10	1					254	0	45	0
31-3	39	28	4	1					72	0	8	0
31-5	171	3	5	3					182	0	19	0
13-1	47	144	12		1				204	0	14	0
29-1	113	68	6	4	1				192	0	44	0
31-8	176	122	1	5	0				304	0	30	0
31-1	51	35	1	2					89	0	19	0
1-2	35	60	3						98	0	28	0
35-1	26	3	1						30	0	6	0
35-2	340	4	5	14					363	0	40	0
3-3	373	29	1	0	5				408	0	68	0
19-2	98	193	10	0					301	0	32	0
24-1	112	96	3	0					211	0	36	0
Roadside	20	9	3	31					63	0	0	1
Totals	3,027	2,150	149	118	13				5,457	0	749	1

Logging Costs per 16' MBF

Stump to Truck	$	187.65
Transportation	$	36.30
Road Construction	$	40.42
Road Amortization	$	0.38
Road Maintenance	$	17.21

Other Allowances :

Fuels Treatment	$ 12.68
Other Costs	$ 8.82
Total Other Allowances :	**$ 21.50**

Total Logging Costs per 16' MBF $ **303.46**

Utilization Centers

Center #1 : White City, OR	32 Miles
Center #2	0 Miles
Weighted distance to Utilization Centers	32

Length of Contract

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

Profit & Risk

Total Profit & Risk		8 %
Basic Profit & Risk	8 % + Additional Risk	0 %
Back Off		0 %

Tract Features

Avg Log	Douglas-fir : 53 bf	All : 58 bf
Recovery	Douglas-fir : 86 %	All : 85 %
Salvage	Douglas-fir : 0 %	All : 0 %

Avg Volume (16' MBF per Acre)	7
Avg Yarding Slope	15 %
Avg Yarding Distance (feet)	400
Avg Age	120
Volume Cable	4 %
Volume Ground	85 %
Volume Aerial	11 %
Road Construction Stations	0.00
Road Improvement Stations	0.00
Road Renovation Stations	0.00
Road Decomission Stations	0.00

Cruise

Cruised By	Parks
Date	08/01/2015
Type of Cruise	3P, 100%
County, State	Jackson, OR

Net Volume

Green (16' MBF)	5,457
Salvage (16' MBF)	0
Douglas-fir Peeler	30
Export Volume	0
Scaling Allowance ($0.50 per 16' MBF)	$2,728.50

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	16,958	3,027	$ 506.13	$ 40.49	$ 303.46	$ 4.26		$ 166.40	$ 503,692.80
WF	9,060	2,150	$ 370.10	$ 29.61	$ 303.46	$ 0.84		**$ 37.90**	$ 81,485.00
IC	1,900	149	$ 540.41	$ 43.23	$ 303.46			$ 193.70	$ 28,861.30
PP	780	118	$ 268.61	$ 21.49	$ 303.46			**$ 26.90**	$ 3,174.20
SP	42	13	$ 260.10	$ 20.81	$ 303.46			**$ 26.00**	$ 338.00
Totals	**28,740**	**5,457**							**$ 617,551.30**

Log Code by Percent

Species	Code #1	Code #2	Code #3	Code #4	Code #5	Code #6
White Fir			1.0	57.0	38.0	4.0
Incense-cedar				41.0	39.0	20.0
Douglas-fir			1.0	49.0	43.0	7.0
Sugar Pine				67.0	29.0	4.0
Ponderosa Pine				54.0	36.0	10.0

Marginal Log Volume

Species	Grade #7	Grade #8
White Fir	12	
Incense-cedar		
Douglas-fir	73	13
Sugar Pine		
Ponderosa Pine		

Appraised By : Parks, Corey **Date :** 08/06/2015

Area Approval By : Rentz, George **Date :** 08/11/2015

District Approval By : **Date :**

Prospectus

Appraisal Method : (16' MBF)

Species	Trees	Net Volume 16' MBF	Net Volume 32' MBF	Net Volume CCF
Douglas-fir	16,958	3,027	2,506	5,395
White Fir	9,060	2,150	1,728	3,745
Incense-cedar	1,900	149	122	281
Ponderosa Pine	780	118	94	205
Sugar Pine	42	13	10	21
Total	**28,740**	**5,457**	**4,460**	**9,647**

All Species

Gross Volume	Number Trees	Avg bf Volume Per Tree	DBH	Gross Merch Volume	Merch Logs	Avg bf Gross Merch Log
6,392	28,740	222	14.4	6,058	105,202	58

Merch Logs	Cull Logs	Total Logs	Logs per Tree	Net Volume	Gross Volume	Recovery
105,202	5,214	110,416	3.8	5,457	6,392	85 %

Douglas-fir

Gross Volume	Number Trees	Avg bf Volume Per Tree	DBH	Gross Merch Volume	Merch Logs	Avg bf Gross Merch Log
3,540	16,958	208	14.0	3,394	63,545	53

Merch Logs	Cull Logs	Total Logs	Logs per Tree	Net Volume	Gross Volume	Recovery
63,545	3,537	67,082	4.0	3,027	3,540	86 %

Cutting Areas

Unit	Regen Acres	Partial Cut Acres	Right Of Way Acres	Total Acres
29-2		102		102
26-2		20		20
35-3		20		20
26-3		22		22
31-2		59		59
31-4		10		10
31-6		9		9
31-7		15		15
1-3		19		19
3-1		23		23
34-1		8		8
26-5		7		7
26-4		7		7
19-1		6		6
35-5		11		11
35-4		22		22
26-1		45		45
31-3		8		8
31-5		19		19
13-1		14		14
29-1		44		44
31-8		30		30
31-1		19		19
1-2		28		28
35-1		6		6
35-2		40		40
3-3		68		68
19-2		32		32
24-1		36		36
Roadside			1	1
Totals :		**749**	**1**	**750**

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	3,027		
White Fir	2,150		
Incense-cedar	149		
Ponderosa Pine	118		
Sugar Pine	13		
Sale Totals	**5,457**		

Unit Details (16' MB)

Unit 1-2 **28 Acres** **Value per Acre : $0.00**

Species	Net Volume	Bid Price	Species Value
Douglas-fir	35		
Incense-cedar	3		
White Fir	60		
Unit Totals	**98**		

Unit 1-3 **19 Acres** **Value per Acre : $0.00**

Species	Net Volume	Bid Price	Species Value
Douglas-fir	162		
Incense-cedar	8		
Sugar Pine	2		
White Fir	83		
Unit Totals	**255**		

Unit 13-1 **14 Acres** **Value per Acre : $0.00**

Species	Net Volume	Bid Price	Species Value
Douglas-fir	47		
Incense-cedar	12		
Sugar Pine	1		
White Fir	144		
Unit Totals	**204**		

Unit 19-1 **6 Acres** **Value per Acre : $0.00**

Species	Net Volume	Bid Price	Species Value
Douglas-fir	16		
Incense-cedar			
White Fir	5		
Unit Totals	**21**		

Unit 19-2 **32 Acres** **Value per Acre : $0.00**

Species	Net Volume	Bid Price	Species Value
Douglas-fir	98		
Incense-cedar	10		
Ponderosa Pine			
White Fir	193		
Unit Totals	**301**		

Unit 24-1 **36 Acres** **Value per Acre : $0.00**

Species	Net Volume	Bid Price	Species Value
Douglas-fir	112		
Incense-cedar	3		
Ponderosa Pine			
White Fir	96		
Unit Totals	**211**		

Unit 26-1 **45 Acres** **Value per Acre : $0.00**

Species	Net Volume	Bid Price	Species Value
Douglas-fir	139		
Incense-cedar	10		
Ponderosa Pine	1		
White Fir	104		
Unit Totals	**254**		

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Unit 26-2 20 Acres Value per Acre : $0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	25		
Incense-cedar			
White Fir	46		
Unit Totals	**71**		

Unit 26-3 22 Acres Value per Acre : $0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	73		
Incense-cedar	11		
Sugar Pine	1		
White Fir	100		
Unit Totals	**185**		

Unit 26-4 7 Acres Value per Acre : $0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	33		
Incense-cedar	2		
Ponderosa Pine			
White Fir	11		
Unit Totals	**46**		

Unit 26-5 7 Acres Value per Acre : $0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	20		
White Fir	12		
Unit Totals	**32**		

Unit 29-1 44 Acres Value per Acre : $0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	113		
Incense-cedar	6		
Ponderosa Pine	4		
Sugar Pine	1		
White Fir	68		
Unit Totals	**192**		

Unit 29-2 102 Acres Value per Acre : $0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	226		
Incense-cedar	20		
Ponderosa Pine	2		
Sugar Pine			
White Fir	782		
Unit Totals	**1,030**		

Unit 3-1 23 Acres Value per Acre : $0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	194		
Incense-cedar	5		
Ponderosa Pine	4		
White Fir			
Unit Totals	**203**		

Unit 31-1 19 Acres Value per Acre : $0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	51		
Incense-cedar	1		
Ponderosa Pine	2		
White Fir	35		
Unit Totals	**89**		

Unit 31-2 59 Acres Value per Acre : $0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	182		
Incense-cedar	23		
Ponderosa Pine	40		
Sugar Pine	2		
White Fir	182		
Unit Totals	**429**		

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Unit 31-3 **8 Acres** **Value per Acre : $0.00**

Species	Net Volume	Bid Price	Species Value
Douglas-fir	39		
Incense-cedar	4		
Ponderosa Pine	1		
White Fir	28		
Unit Totals	**72**		

Unit 31-4 **10 Acres** **Value per Acre : $0.00**

Species	Net Volume	Bid Price	Species Value
Douglas-fir	47		
Incense-cedar	8		
Ponderosa Pine	1		
White Fir	27		
Unit Totals	**83**		

Unit 31-5 **19 Acres** **Value per Acre : $0.00**

Species	Net Volume	Bid Price	Species Value
Douglas-fir	171		
Incense-cedar	5		
Ponderosa Pine	3		
White Fir	3		
Unit Totals	**182**		

Unit 31-6 **9 Acres** **Value per Acre : $0.00**

Species	Net Volume	Bid Price	Species Value
Douglas-fir	36		
Incense-cedar			
Ponderosa Pine	4		
White Fir			
Unit Totals	**40**		

Unit 31-7 **15 Acres** **Value per Acre : $0.00**

Species	Net Volume	Bid Price	Species Value
Douglas-fir	16		
Ponderosa Pine			
White Fir	1		
Unit Totals	**17**		

Unit 31-8 30 Acres Value per Acre : $0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	176		
Incense-cedar	1		
Ponderosa Pine	5		
Sugar Pine			
White Fir	122		
Unit Totals	**304**		

Unit 3-3 68 Acres Value per Acre : $0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	373		
Incense-cedar	1		
Ponderosa Pine			
Sugar Pine	5		
White Fir	29		
Unit Totals	**408**		

Unit 34-1 8 Acres Value per Acre : $0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	71		
Incense-cedar	3		
Ponderosa Pine	3		
White Fir			
Unit Totals	**77**		

Unit 35-1 6 Acres Value per Acre : $0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	26		
Incense-cedar	1		
White Fir	3		
Unit Totals	**30**		

Unit 35-2 40 Acres Value per Acre : $0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	340		
Incense-cedar	5		
Ponderosa Pine	14		
White Fir	4		
Unit Totals	**363**		

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Unit 35-3 **20 Acres** **Value per Acre : $0.00**

Species	Net Volume	Bid Price	Species Value
Douglas-fir	87		
Incense-cedar	2		
Ponderosa Pine	2		
Sugar Pine			
White Fir	2		
Unit Totals	93		

Unit 35-4 **22 Acres** **Value per Acre : $0.00**

Species	Net Volume	Bid Price	Species Value
Douglas-fir	65		
Incense-cedar	2		
Ponderosa Pine	1		
Sugar Pine	1		
White Fir	1		
Unit Totals	70		

Unit 35-5 **11 Acres** **Value per Acre : $0.00**

Species	Net Volume	Bid Price	Species Value
Douglas-fir	34		
Ponderosa Pine			
Sugar Pine			
White Fir			
Unit Totals	34		

Unit Roadside **1 Acres** **Value per Acre : $0.00**

Species	Net Volume	Bid Price	Species Value
Douglas-fir	20		
Incense-cedar	3		
Ponderosa Pine	31		
White Fir	9		
Unit Totals	63		

Sale Volume Totals

750 Acres 0 Regen 749 Partial 1 R/W 30 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	16,958	63,545	3,537	3,027	3,394	3,540	2,506	2,818	2,938	5,395	6,025	6,274
White Fir	9,060	35,151	1,401	2,150	2,353	2,525	1,728	1,896	2,029	3,745	4,098	4,371
Incense-cedar	1,900	4,116	115	149	168	182	122	139	150	281	329	354
Ponderosa Pine	780	2,232	144	118	129	131	94	101	104	205	224	231
Sugar Pine	42	158	17	13	14	14	10	11	12	21	22	24
Totals	**28,740**	**105,202**	**5,214**	**5,457**	**6,058**	**6,392**	**4,460**	**4,965**	**5,233**	**9,647**	**10,698**	**11,254**

Unit Totals

Unit : 29-2 102 Acres 0 Regen 102 Partial 0 R/W

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
White Fir	3,073	12,775	163	927	853	782
Douglas-fir	1,373	4,749	340	263	256	226
Incense-cedar	273	568	16	25	22	20
Ponderosa Pine	21	47	3	3	3	2
Sugar Pine	2	8				
Unit Totals	**4,742**	**18,147**	**522**	**1,218**	**1,134**	**1,030**

Unit : 26-2 20 Acres 0 Regen 20 Partial 0 R/W

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
White Fir	198	755	37	54	51	46
Douglas-fir	115	523	26	29	28	25
Incense-cedar	3	3				
Unit Totals	**316**	**1,281**	**63**	**83**	**79**	**71**

Unit : 35-3 20 Acres 0 Regen 20 Partial 0 R/W

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	516	1,816	92	101	97	87
Incense-cedar	18	44	1	2	2	2
White Fir	9	26	1	2	2	2
Ponderosa Pine	11	31	2	2	2	2
Sugar Pine	1	2				

Unit Totals	555	1,919	96	107	103	93

Unit : 26-3 22 Acres 0 Regen 22 Partial 0 R/W

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
White Fir	353	1,641	81	118	110	100
Douglas-fir	203	1,530	77	85	82	73
Incense-cedar	55	297	8	13	12	11
Sugar Pine	1	3	3	1	1	1
Unit Totals	**612**	**3,471**	**169**	**217**	**205**	**185**

Unit : 31-2 59 Acres 0 Regen 59 Partial 0 R/W

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	1,090	3,816	226	213	204	182
White Fir	827	2,971	186	213	199	182
Ponderosa Pine	298	723	47	43	43	40
Incense-cedar	354	643	18	29	26	23
Sugar Pine	10	27	2	2	2	2
Unit Totals	**2,579**	**8,180**	**479**	**500**	**474**	**429**

Unit : 31-4 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	291	979	49	55	52	47
White Fir	100	441	22	32	29	27
Incense-cedar	115	222	6	10	9	8
Ponderosa Pine	4	13	1	1	1	1
Unit Totals	**510**	**1,655**	**78**	**98**	**91**	**83**

Unit : 31-6 9 Acres 0 Regen 9 Partial 0 R/W

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	199	747	38	42	40	36
Ponderosa Pine	9	73	5	4	4	4
Incense-cedar	4	5				
White Fir	3	6				
Unit Totals	**215**	**831**	**43**	**46**	**44**	**40**

Unit : 31-7 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	99	342	16	20	18	16

White Fir	1	10		1	1	1
Ponderosa Pine	1	3				
Unit Totals	**101**	**355**	**16**	**21**	**19**	**17**

Unit : 1-3 **19 Acres** **0 Regen** **19 Partial** **0 R/W**

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	658	3,405	172	190	182	162
White Fir	431	1,356	67	97	91	83
Incense-cedar	65	225	6	10	9	8
Sugar Pine	8	28	3	2	2	2
Unit Totals	**1,162**	**5,014**	**248**	**299**	**284**	**255**

Unit : 3-1 **23 Acres** **0 Regen** **23 Partial** **0 R/W**

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	1,351	4,073	205	227	218	194
Incense-cedar	83	140	4	6	6	5
Ponderosa Pine	26	85	6	5	5	4
White Fir	2	7		1		
Unit Totals	**1,462**	**4,305**	**215**	**239**	**229**	**203**

Unit : 34-1 **8 Acres** **0 Regen** **8 Partial** **0 R/W**

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	449	1,483	75	83	79	71
Incense-cedar	55	86	2	4	4	3
Ponderosa Pine	21	52	3	3	3	3
White Fir	1	1				
Unit Totals	**526**	**1,622**	**80**	**90**	**86**	**77**

Unit : 26-5 **7 Acres** **0 Regen** **7 Partial** **0 R/W**

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	67	423	21	24	23	20
White Fir	40	190	9	14	13	12
Unit Totals	**107**	**613**	**30**	**38**	**36**	**32**

Unit : 26-4 **7 Acres** **0 Regen** **7 Partial** **0 R/W**

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	156	695	35	39	37	33
White Fir	56	176	9	13	12	11

Incense-cedar	26	53	2	2	2	2
Ponderosa Pine	1	1				
Unit Totals	**239**	**925**	**46**	**54**	**51**	**46**

Unit : 19-1 **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	61	345	17	19	18	16
White Fir	22	89	4	6	6	5
Incense-cedar	6	10				
Unit Totals	**89**	**444**	**21**	**25**	**24**	**21**

Unit : 35-5 **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	170	706	36	39	38	34
Ponderosa Pine	1	7				
Sugar Pine	2	8				
White Fir	2	3				
Unit Totals	**175**	**724**	**36**	**39**	**38**	**34**

Unit : 35-4 **22 Acres** **0 Regen** **22 Partial** **0 R/W**

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	419	1,373	69	76	73	65
Incense-cedar	34	51	1	2	2	2
Ponderosa Pine	8	27	2	1	1	1
Sugar Pine	2	11	1	1	1	1
White Fir	3	10		1	1	1
Unit Totals	**466**	**1,472**	**73**	**81**	**78**	**70**

Unit : 26-1 **45 Acres** **0 Regen** **45 Partial** **0 R/W**

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	512	2,928	148	163	156	139
White Fir	370	1,698	83	122	114	104
Incense-cedar	68	276	8	12	11	10
Ponderosa Pine	4	13	1	1	1	1
Unit Totals	**954**	**4,915**	**240**	**298**	**282**	**254**

Unit : 31-3 **8 Acres** **0 Regen** **8 Partial** **0 R/W**

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net

Douglas-fir	197	809	41	45	43	39
White Fir	108	456	22	33	31	28
Incense-cedar	46	103	3	5	4	4
Ponderosa Pine	10	22	1	1	1	1
Unit Totals	**361**	**1,390**	**67**	**84**	**79**	**72**

Unit : 31-5 **19 Acres** **0 Regen** **19 Partial** **0 R/W**

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	911	3,595	181	200	192	171
Incense-cedar	87	145	4	6	6	5
Ponderosa Pine	9	62	4	4	4	3
White Fir	13	45	2	3	3	3
Unit Totals	**1,020**	**3,847**	**191**	**213**	**205**	**182**

Unit : 13-1 **14 Acres** **0 Regen** **14 Partial** **0 R/W**

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
White Fir	554	2,352	116	170	157	144
Douglas-fir	112	982	50	55	52	47
Incense-cedar	79	324	9	14	13	12
Sugar Pine	1	6	1	1	1	1
Unit Totals	**746**	**3,664**	**176**	**240**	**223**	**204**

Unit : 29-1 **44 Acres** **0 Regen** **44 Partial** **0 R/W**

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	702	2,382	120	133	127	113
White Fir	350	1,111	55	80	74	68
Incense-cedar	113	170	5	8	7	6
Ponderosa Pine	29	75	5	4	4	4
Sugar Pine	1	6	1	1	1	1
Unit Totals	**1,195**	**3,744**	**186**	**226**	**213**	**192**

Unit : 31-8 **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	693	3,705	187	206	198	176
White Fir	602	2,001	98	144	134	122
Ponderosa Pine	16	94	6	6	6	5
Incense-cedar	8	14		1	1	1
Sugar Pine	2	7	1	1	1	

Unit Totals	**1,321**	**5,821**	**292**	**358**	**340**	**304**

Unit : 31-1 **19 Acres** **0 Regen** **19 Partial** **0 R/W**

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	258	1,066	54	59	57	51
White Fir	190	577	28	41	39	35
Ponderosa Pine	5	30	2	2	2	2
Incense-cedar	10	25	1	1	1	1
Unit Totals	**463**	**1,698**	**85**	**103**	**99**	**89**

Unit : 1-2 **28 Acres** **0 Regen** **28 Partial** **0 R/W**

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
White Fir	266	979	48	70	66	60
Douglas-fir	208	739	37	41	39	35
Incense-cedar	27	93	3	4	4	3
Unit Totals	**501**	**1,811**	**88**	**115**	**109**	**98**

Unit : 35-1 **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	116	537	27	30	29	26
White Fir	12	54	3	4	4	3
Incense-cedar	11	15		1	1	1
Unit Totals	**139**	**606**	**30**	**35**	**34**	**30**

Unit : 35-2 **40 Acres** **0 Regen** **40 Partial** **0 R/W**

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	2,096	7,141	460	398	381	340
Ponderosa Pine	91	268	17	16	15	14
Incense-cedar	88	137	4	6	6	5
White Fir	22	71	3	5	5	4
Unit Totals	**2,297**	**7,617**	**484**	**425**	**407**	**363**

Unit : 3-3 **68 Acres** **0 Regen** **68 Partial** **0 R/W**

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	2,726	7,825	495	436	418	373
White Fir	173	479	124	24	32	29
Sugar Pine	12	52	5	5	5	5
Incense-cedar	15	20	1	1	1	1

Ponderosa Pine	3	8	1			
Unit Totals	**2,929**	**8,384**	**626**	**466**	**456**	**408**

Unit : 19-2 **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
White Fir	876	3,150	155	226	211	193
Douglas-fir	629	2,066	104	115	110	98
Incense-cedar	152	283	8	13	12	10
Ponderosa Pine	1	3				
Unit Totals	**1,658**	**5,502**	**267**	**354**	**333**	**301**

Unit : 24-1 **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	420	2,345	118	131	125	112
White Fir	353	1,567	77	113	105	96
Incense-cedar	42	74	2	3	3	3
Ponderosa Pine	1	7				
Unit Totals	**816**	**3,993**	**197**	**247**	**233**	**211**

Unit : Roadside **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
Ponderosa Pine	210	588	38	35	34	31
Douglas-fir	161	420	21	23	22	20
White Fir	50	154	8	11	10	9
Incense-cedar	63	90	3	4	4	3
Unit Totals	**484**	**1,252**	**70**	**73**	**70**	**63**

UNITED STATES
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Stump to Truck Costs

Total (16' MBF)

Total Stump to Truck Costs	Net Volume	Cost / Net Volume
$ 1,023,982.83	5,457	$ 187.65

Detail

Yarding & Loading

Yarding System	Unit Of Measure	Units	Cost / Unit	Total Cost
Short Twr<40	GM MBF	240	$ 177.86	$ 42,686.40
Helicopter	GM MBF	681	$ 322.03	$ 219,302.43
Wheel Skidder	GM MBF	5,137	$ 142.00	$ 729,454.00
Subtotal				**$ 991,442.83**

Other Costs

Explanation	Unit Of Measure	Units	Cost / Unit	Total Cost
Hand Felling	GM MBF	1,000	$ 27.50	$ 27,500.00
Subtotal				**$ 27,500.00**

Additional Move-Ins

Equipment	# Move-In	Cost / Move In	Total Cost
Yarder / Loader	4	$ 600.00	$ 2,400.00
Delimber	4	$ 220.00	$ 880.00
Dozer	4	$ 220.00	$ 880.00
Dozer	4	$ 220.00	$ 880.00
Subtotal			**$ 5,040.00**

Other Allowances Costs

Total (16' MBF)

Total Other Allowances Costs	Net Volume	Cost / Net Volume *	Total Buy Out Cost
$117,317.20	5,457	$21.50	$0.00

Fuels Treatment

Detail (16' MBF)

Cost Item	Total Cost	Cost / Net Vol *	Buy Out	Buy Out Cost
Lop and Scatter-Lvl 4	$ 9,600.00	$ 1.76	N	$ 0.00
Slashing - Level 1	$ 4,500.00	$ 0.82	N	$ 0.00
Excavator	$ 24,400.00	$ 4.47	N	$ 0.00
Excavator	$ 2,250.00	$ 0.41	N	$ 0.00
Hand Pile, Cvr - Level 6	$ 25,750.00	$ 4.72	N	$ 0.00
Hand Pile Brn-Level 4	$ 2,700.00	$ 0.49	N	$ 0.00
Subtotal	**$ 69,200.00**	**$ 12.68**		**$ 0.00**

Other Costs

Detail (16' MBF)

Cost Item	Total Cost	Cost / Net Vol *	Buy Out	Buy Out Cost
Equipment Washing	$ 370.00	$ 0.07	N	$ 0.00
Equipment Washing	$ 1,000.00	$ 0.18	N	$ 0.00
Skid Location	$ 1,093.80	$ 0.20	N	$ 0.00
Skid Construction	$ 750.00	$ 0.14	N	$ 0.00
Barricades	$ 1,500.00	$ 0.27	N	$ 0.00
Flaggers (2)	$ 1,458.40	$ 0.27	N	$ 0.00
Ripping	$ 14,525.00	$ 2.66	N	$ 0.00
Hand Seeding @ 17 lb seed per hour	$ 4,920.00	$ 0.90	N	$ 0.00
Waterbar Skids	$ 22,500.00	$ 4.12	N	$ 0.00
Subtotal	**$ 48,117.20**	**$ 8.82**		**$ 0.00**

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

General

Yarding & Loading

Hand Felling = hand felling of oversized 22"+ and directional falling away from plant sites, unit boundaries, buffers, irrigation ditch in unit 1-2, and BF-Prospect Hwy.
Dozer #2 = Ripping cat.

Road Costs

(see Engineering Appraisal for details).

Transportation

(see Transportation appendix for details).

Other Allowances

1 Excavator=pile/cover 2 Excavator=burn. 1 Hand pile=pile/cover 2 Hand pile=burn.

Prospectus

DF, WF, PP, IC 3P cruised with combined sampling error of 6.7%. SP 100% cruised. Form Class- DF=80, WF=84, PP & SP=80, and IC=66.

Sale: Eighty Acre
Sale Date: 8-15
Prep. By : B. Sikes
Tract No: 2016-0012

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

ROAD MAINTENANCE AND ROAD USE APPRAISAL WORK SHEET

Summary of Costs

1) Road Use - Amortization: (1) $2068.86 (R-3b) / 5564 MBF (Tot Sale Vol) = $0.37/MBF [1/]

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2) Road Maintenance Obligation:

$5376.74 (2.1) + $2565.69 (2.2) + $0.00 (3.1) + $633.25 (3.2) + $778.34 (5.1) = $9354.02 (R-2)

3) Other Maintenance Payments: $0.00 (4.1)

4). Purchaser Maintenance Allowances:

(5.2A) Move In	$1186.00
(5.2B) Culverts, Catch Basins, Downspouts	$1984.97
(5.2C) Grading, Ditching	$6660.92
(5.2D) Slide Removal and Slump Repair	$0.00
(5.2E) Dust Palliative (Water)	$40843.92
(5.2F) Surface Repair (Aggregate)	$0.00
(5.2G) Other	$33900.00

Total (5.2) = $84575.81 (Ex. D)

2)+3)+4) Total = $93,929.83 (Total Sale Vol) / 5564 MBF = $16.88/MBF [1/]

Costs are estimates only and do not include Profit and Risk.

1) Road Use Fees - Amortization

R/W Number	Road Number	Rd Use Fee	x	Vol MBF	=	Road Use Obligation
M-2000D	34-2E-35.01B	2.05		82		$168.10
M-2000D	34-2E-35.01C	8.41		82		$689.62
M-2000D	34-2E-35.01D1	9.08		82		$744.56
M-2000D	34-2E-35.01D2	5.69		82		$466.58

(1.1) Subtotal $2068.86

2) BLM Maintenance - Timber Haul
PVT AGG Rds turned to NAT avoids double rockwear charge

			MAINTENANCE (2.1)				ROCKWEAR (2.2)			
Road Number and Segment	A N	Surf Type	Mi	Maint x Fee x	Vol MBF	= Maint	Fee	x	MBF =	Rkwear
34-2E-24.01	A	PRR	0.05	0.76	11	$0.42	0.49		11	$0.27
34-2E-24.05	A	PRR	0.62	0.76	9	$4.24	0.49		9	$2.73
34-2E-26.00	N	PRR	0.40	0.97	223	$86.52	0.49		223	$43.71
34-2E-26.01	A	PRR	0.34	0.76	27	$6.98	0.49		27	$4.50
34-2E-35.01A	A	ASC	0.19	0.76	82	$11.84	0.49		82	$7.63
34-2E-35.01B	N	ASC	0.08	0.97	82	$6.36	0.00		82	$0.00
34-2E-35.02A	A	PRR	0.53	0.76	310	$124.87	0.49		310	$80.51
34-3E-19.03A	N	ASC	0.19	0.97	1	$0.18	0.00		1	$0.00
34-3E-28.00A1	N	PRR	0.09	0.97	100	$8.73	0.00		100	$0.00
34-3E-29.01A	A	ASC	0.66	0.76	1265	$634.52	0.49		1265	$409.10
34-3E-29.01B1	N	ASC	0.15	0.97	558	$81.19	0.00		558	$0.00
34-3E-29.02	A	ASC	0.44	0.76	331	$110.69	0.49		331	$71.36
34-3E-30.00A	N	PRR	0.03	0.97	106	$3.08	0.00		106	$0.00
34-3E-31.00	N	PRR	0.10	0.97	155	$15.04	0.49		155	$7.60
35-2E-2.00	N	ASC	0.21	0.97	1492	$303.92	0.49		1492	$153.53
34-2E-35.01C	N	ASC	1.28	0.97	82	$101.81	0.00		82	$0.00
34-2E-35.01D1	A	ASC	0.70	0.76	82	$43.62	0.00		82	$0.00
34-2E-35.01E	A	ASC	0.30	0.76	82	$18.70	0.00		82	$0.00
34-3E-28.00A2	N	PRR	0.05	0.97	100	$4.85	0.00		100	$0.00
34-3E-29.01C	N	ASC	0.12	0.97	452	$52.61	0.49		452	$26.58
34-3E-29.01D	N	ASC	0.27	0.97	351	$91.93	0.00		351	$0.00
34-3E-29.01E	A	ASC	0.17	0.76	222	$28.68	0.49		222	$18.49
34-3E-29.01F	N	ASC	0.44	0.97	220	$93.90	0.00		220	$0.00
34-3E-29.01G	N	ASC	0.60	0.97	9	$5.24	0.49		9	$2.65
34-3E-30.00B	N	PRR	0.35	0.97	106	$35.99	0.00		106	$0.00
34-2E-35.01D2	A	ASC	0.33	0.76	82	$20.57	0.00		82	$0.00
34-3E-29.01E	A	ASC	0.45	0.76	251	$85.84	0.49		251	$55.35
34-2E-26.07	A	NAT	0.11	0.76	100	$8.36	0.00		100	$0.00
34-3E-29.01B2	N	ASC	0.13	0.97	452	$57.00	0.00		452	$0.00
35-2E-2.00	N	ASC	1.19	0.97	1305	$1506.36	0.49		1305	$760.95
35-2E-2.00	N	ASC	0.71	0.97	840	$578.51	0.49		840	$292.24
35-2E-2.00	N	ASC	2.10	0.97	530	$1079.61	0.49		530	$545.37
35-2E-2.00	N	ASC	0.62	0.97	236	$141.93	0.49		236	$71.70
35-2E-2.00	N	ASC	0.73	0.97	32	$22.66	0.49		32	$11.45

(2.1) Subtotal $5376.74 (2.2) Subtotal $2565.69

3) Third Party Maintenance and Rockwear

		MAINTENANCE (3.1)					ROCKWEAR (3.2)			
Agrmnt Number	Road Number	Mi	x	Fee x	MBF =	Maint	Fee	x	MBF =	Rkwear
M-2000D	34-3E-28.00A1	0.09					0.49		100	$4.41
M-2000D	34-2E-35.01D2	0.33					0.49		82	$13.26

M-2000D	34-2E-35.01B	0.08	0.49	82	$3.21
M-2000E	35-2E-2.03A	0.95	0.49	281	$130.81
M-2000E	34-2E-29.01B1	0.15	0.49	558	$41.01
M-2000E	34-2E-29.01B2	0.13	0.49	452	$28.79
M-2000E	34-2E-29.01D	0.27	0.49	351	$46.44
M-2000E	35-2E-2.02A	0.45	0.49	180	$39.69
M-2000E	35-2E-11.00A	0.63	0.49	408	$125.95
M-2000E	35-2E-2.01A	0.39	0.00	101	$0.00
M-2000E	34-3E-31.05	0.13	0.00	77	$0.00
M-2000E	34-3E-30.00A	0.03	0.49	106	$1.56
M-2000F	34-3E-30.00B	0.35	0.49	106	$18.18
M-2000F	34-2E-24.07A	0.37	0.49	211	$38.25
M-2000F	34-3E-29.01F	0.44	0.49	220	$47.43
M-2000F	34-3E-28.00A2	0.05	0.49	100	$2.45
M-2000F	34-3E-21.03C	0.20	0.49	1	$0.10
M-2000F	34-3E-19.03A	0.19	0.49	1	$0.09
M-2000F	34-2E-35.01E	0.30	0.49	82	$12.05

(3.1) Subtotal $0.00

(3.2) Subtotal $633.25

4) Other Maintenance Payments - USFS or Others Perform Maintenance

Agency	Road Number	Fee MBF/Mi	x Mi =	Fee /MBF	x Hauled =	Maint Cost

(4.1) Subtotal $0.00

5) Purchaser Maintenance - Rock Wear
PVT AGG Rds turned to NAT avoids double rockwear charge
TIMBER HAUL $(5.1)^{/1/2}$

Road No 1/ and Segment	A N	Mi	RkWear x Fee	x	Vol MBF	=	Total RkWear
34-2E-13.04	N	0.16	0.49		209		$16.39
34-2E-13.06	N	0.28	0.00		207		$0.00
34-3E-21.03C	N	0.20	0.00		1		$0.00
34-2E-35.02B	N	0.64	0.00		254		$0.00
34-2E-35.06	A	0.41	0.49		1		$0.20
34-2E-35.03	A	0.05	0.49		105		$2.57
34-2E-35.04	A	0.10	0.00		50		$0.00
34-2E-35.09	N	0.10	0.00		34		$0.00
35-2E-01.02	N	0.57	0.00		255		$0.00
35-2E-02.01A	N	0.39	0.49		101		$19.30
35-2E-02.03A	N	0.95	0.00		281		$0.00
35-2E-02.02	N	0.42	0.00		180		$0.00
35-2E-03.01	N	0.22	0.00		80		$0.00
35-2E-11.00B1-2N		1.37	0.49		228		$153.06
34-2E-24.07A	A	0.37	0.00		211		$0.00
34-2E-24.07B	A	0.17	0.49		211		$17.58
35-2E-02.01B	A	0.21	0.49		101		$10.39
35-2E-02.03B	N	0.78	0.00		281		$0.00
35-2E-11.00A	N	0.63	0.00		408		$0.00
34-3E-31.01	A	0.10	0.49		350		$17.15
34-3E-31.02	A	0.11	0.49		10		$0.54
34-3E-31.04	A	0.26	0.49		25		$3.19
34-3E-31.06A	A	0.12	0.49		32		$1.88
34-3E-31.07	A	0.05	0.49		305		$7.47
34-3E-31.06A1	A	0.15	0.00		32		$0.00
34-2E-35.03	A	0.44	0.49		71		$15.31
34-2E-35.03	A	0.14	0.49		21		$1.44
34-3E-31.01	A	0.25	0.49		768		$94.08
34-3E-31.02	A	0.05	0.49		315		$7.72
34-3E-31.02	A	0.54	0.49		347		$91.82
34-3E-31.02	A	0.24	0.49		418		$49.16
34-3E-31.01	A	0.46	0.49		864		$194.75

34-3E-31.05	A	0.13	0.00	77	$0.00
34-3E-19.01	N	0.21	0.49	100	$10.29
35-2E-2.02	N	0.03	0.00	100	$0.00

(5.1) Subtotal $778.34

1/ All surfaced roads have a rockwear fee which includes an allowance for rock haul
2/ Include lump sum logging damage repair

Purchaser Operational Maintenance

Cost allowances must be limited to work required under timber sale Exhibit D.
If purchaser maint. such as dust control/damage repair is performed on BLM maint. roads, add appropriate mandatory Ex. D provisions. Note in prospectus.

Move In

Equipment 1/	No Units	x	Move in	x	Cost/ 50 Mi	x	Dist Factor	=	Sub-total
Motor Grader:	1	x	1	x	$483.00	x	1.00	=	$483.00
Back Hoe:	1	x	1	x	$483.00	x	1.00	=	$483.00
Loader:		x		x	$483.00	x	0.63	=	$0.00
Water Truck:	1	x	1	x	$107.00	x	1.00	=	$107.00
Dump Truck:	1	x	1	x	$113.00	x	1.00	=	$113.00

(5.2A) Total $1186.00

1/ Equipment limited to that allowed in Exhibit D.

Culvert Maintenance - Including Catch basins and Downpipes 1/

Miles	x	Cost/Mi	=	Subtotal
5.94		334.17		$1984.97

(5.2B) Total $1984.97

1/ Does not include purchase or installation of culvert pipe.

Grading (Includes Ditches and Shoulders) 1/

		Miles	x	Cost/Mi	x	Freq	=	Subtotal
Blade w/ Ditch:	7.98	720.50		1		$5749.59		
Blade w/o Ditch:	2.04	446.73		1		$911.33		

(5.2C) Total $6660.92

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

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

Type Equipment	No Slides /Slumps	x	Hours Each	x	Equip Cost	=	Subtotal
Grader:	0		0		147.33		$0.00
Loader:	0		0		107.45		$0.00
Backhoe:	0		0		76.21		$0.00

(5.2D) Total $0.00

1/ Maximum haul is 15 sta. yds. Use grader or front end loader only.

Dust Palliative (Water) 1/

Spreading Hours

	Miles	/	MPH	=	Hours	x	No Days	x	Freq /Day	=	Truck Hours
	14.23		5		2.8		60		2		336
Load & Haul =					0.5		60		2		60
Return trip =					0.5		60		2		60

Truck Cost: $89.57/Hr. x 456.0 Hours = $40843.92

(5.2E) Total $40843.92

1/ Allow water for all BLM maintaintained non-oiled roads.

Surface Repair (Aggregate)

Production Cost:	0.0 CY x $0.00/CY	=	$0.00
Haul to Stockpile:	0.0 CY x (($2.21/CY x 0.00 Mi) + $0.74)	=	$0.00
Stockpile:	0.0 CY x $1.01/CY	=	$0.00
Load from Stockpile:	0.0 CY x $1.11/CY	=	$0.00
Haul from Stockpile:	0.0 CY x (($2.21/CY x 0.00 Mi) + $0.74)	=	$0.00
Process with Grader:	0.0 CY x $0.90/CY	=	$0.00
Compaction:	0.0 CY x $1.34/CY	=	$0.00

(5.2F) Total $0.00

Other

Fallen Timber Cutting: 1/	0.0 Hours x $0.00/Hour = $0.00
Brush Cutting/Tree Trimming: 2/	0.0 Hours x $0.00/Hour = $0.00
Oil/Asphalt Materials: 3/	Lump Sum = $0.00
Signing for Dust Palliatives: 4/	Lump Sum = $0.00
Full Decommission	Lump Sum = $12750.00
Partial Decommission	Lump Sum = $11850.00
Construct Barricades Only	Lump Sum = $1500.00
Gate Only	Lump Sum = $3500.00
Landing Decommission	Lump Sum = $4300.00

(5.2G) Total $33900.00

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Version: 5.2.0.9

Summary of All Roads and Projects Updated: 6/30/2014

T.S. Contract Name: Eighty Acre Tract No: 2016-0012 Sale Date: 5-16
Prepared by: B. Sikes Ph: 618-2286 Print Date: 4/19/2016
Construction: 0.00 sta
Improve: 0.00 sta Renov: 1381.76 sta Decom: 0.00 sta Temp: 16.37 sta

200 Clearing and Grubbing: 7.7 acres	$21,501.55
300 Excavation:	$0.00
Haul < 500 ft: 0 sta-yds	
Haul > 500 ft: 0 yd-mi	
400 Drainage:	$77,601.22
Culvert: 1,240 lf DownSpout: 20 lf	
PolyPipe: 0 lf	
500 Renovation:	$56,211.00
Blading 26.17 mi	
700-1200 Surfacing:	$29,400.74
Commercial Quarry Name: Commercial 1,200 LCY	
Quarry Name: BLM 660 LCY	
Quarry Name: BLM 80 Acre 35 LCY	
1300 Geotextiles:	$0.00
1400 Slope Protection:	$0.00
1800 Soil Stabilization: 6.5 acres	$3,365.74
Includes Small Quantity Factor of 1.36	
1900 Cattleguards:	$0.00
2100 RoadSide Brushing: 39.0 acres	$18,883.65
2300 Engineering: 0.00 sta.	$0.00
2400 Minor Concrete:	$0.00
2500 Gabions:	$0.00
8000 Miscellaneous:	$5,766.00
Mobilization: Const. $7,830.60 Surf. $0.00	$7,830.60
Quarry Development:	$0.00
Total: 5,564 mbf @ $39.641/mbf =	$220,560.49

Notes:
Quantities shown are estimates only and not pay items.
Surfacing Quantities are loose cubic yards.

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Eighty Acre Sale Date: 5-16
Road Number: 34-2E-13.04 Road Name: Dudley Mt. South 055
Road Renovation: 0.16 mi 14 ft Subgrade 3 ft ditch 4/13/2016

200 Clearing and Grubbing: 0.2 acres	$448.39
300 Excavation:	$0.00
400 Drainage:	$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	$1,179.84
Blading 0.16 mi	
700-1200 Surfacing:	$1,006.20
Quarry Name: Commercial 40 LCY	
1300 Geotextiles:	$0.00
1400 Slope Protection:	$0.00
1800 Soil Stabilization: 0.1 acres	$51.78
Includes Small Quantity Factor of 1.36	
1900 Cattleguards:	$0.00
2100 RoadSide Brushing: 1.1 acres	$1,268.52
2300 Engineering: 0.00 sta.	$0.00
2400 Minor Concrete:	$0.00
2500 Gabions:	$0.00
8000 Miscellaneous:	$0.00
Mobilization: Const. $143.79 Surf. $0.00.....	$143.79
Quarry Development:	$0.00
Total:	$4,098.52

Notes:
Quantities shown are estimates only and not pay items.
Surfacing Quantities shown are loose cubic yards.

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Eighty Acre Sale Date: 5-16
Road Number: 34-2E-13.06 Road Name: Dudley Mt. South 057
Road Renovation: 0.28 mi 14 ft Subgrade 0 ft ditch 4/13/2016

200 Clearing and Grubbing: 0.4 acres	$799.30
300 Excavation:	$0.00
400 Drainage:	$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	$238.06
Blading 0.28 mi	
700-1200 Surfacing:	$0.00
1300 Geotextiles:	$0.00
1400 Slope Protection:	$0.00
1800 Soil Stabilization: 0.2 acres	$103.56
Includes Small Quantity Factor of 1.36	
1900 Cattleguards:	$0.00
2100 RoadSide Brushing: 0.4 acres	$230.64
2300 Engineering: 0.00 sta.	$0.00
2400 Minor Concrete:	$0.00
2500 Gabions:	$0.00
8000 Miscellaneous:	$0.00
Mobilization: Const. $49.87 Surf. $0.00.....	$49.87
Quarry Development:	$0.00
Total:	$1,421.43

Notes:
Quantities shown are estimates only and not pay items.
Surfacing Quantities shown are loose cubic yards.

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Eighty Acre Sale Date: 5-16
Road Number: 34-2E-24.01 Road Name: Dudley
Road Renovation: 0.05 mi 14 ft Subgrade 3 ft ditch 4/13/2016

200 Clearing and Grubbing: acres	$0.00
300 Excavation:	$0.00
400 Drainage:	$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	$72.91
Blading 0.05 mi	
700-1200 Surfacing:	$0.00
1300 Geotextiles:	$0.00
1400 Slope Protection:	$0.00
1800 Soil Stabilization: 0.0 acres	$0.00
1900 Cattleguards:	$0.00
2100 RoadSide Brushing: 0.1 acres	$57.66
2300 Engineering: 0.00 sta.	$0.00
2400 Minor Concrete:	$0.00
2500 Gabions:	$0.00
8000 Miscellaneous:	$0.00
Mobilization: Const. $4.75 Surf. $0.00	$4.75
Quarry Development:	$0.00
Total:	$135.31

Notes:
Quantities shown are estimates only and not pay items.
Surfacing Quantities shown are loose cubic yards.

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Eighty Acre Sale Date: 5-16
Road Number: 34-2E-24.05 Road Name: Fredenburg/80 ac. Co
Road Renovation: 0.62 mi 14 ft Subgrade 3 ft ditch 4/13/2016

200 Clearing and Grubbing: 0.9 acres	$1,754.56
300 Excavation:	$0.00
400 Drainage: Culvert: 0 lf DownSpout: 0 lf PolyPipe: 0 lf	$0.00
500 Renovation: Blading 0.61 mi	$752.46
700-1200 Surfacing:	$0.00
1300 Geotextiles:	$0.00
1400 Slope Protection:	$0.00
1800 Soil Stabilization: 0.5 acres Includes Small Quantity Factor of 1.36	$233.01
1900 Cattleguards:	$0.00
2100 RoadSide Brushing: 0.9 acres	$259.47
2300 Engineering: 0.00 sta.	$0.00
2400 Minor Concrete:	$0.00
2500 Gabions:	$0.00
8000 Miscellaneous:	$0.00
Mobilization: Const. $109.06 Surf. $0.00	$109.06
Quarry Development:	$0.00
Total:	$3,108.56

Notes:
Quantities shown are estimates only and not pay items.
Surfacing Quantities shown are loose cubic yards.

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Eighty Acre Sale Date: 5-16
Road Number: 34-2E-24.07 Road Name: NE Sec. 24
Road Renovation: 0.54 mi 14 ft Subgrade 3 ft ditch 4/13/2016

200 Clearing and Grubbing: 0.3 acres	$487.38
300 Excavation:	$0.00
400 Drainage: Culvert: 0 lf DownSpout: 0 lf PolyPipe: 0 lf	$0.00
500 Renovation: Blading 0.54 mi	$787.40
700-1200 Surfacing:	$0.00
1300 Geotextiles:	$0.00
1400 Slope Protection:	$0.00
1800 Soil Stabilization: 0.1 acres Includes Small Quantity Factor of 1.36	$51.78
1900 Cattleguards:	$0.00
2100 RoadSide Brushing: 0.8 acres	$461.28
2300 Engineering: 0.00 sta.	$0.00
2400 Minor Concrete:	$0.00
2500 Gabions:	$0.00
8000 Miscellaneous:	$0.00
Mobilization: Const. $65.01 Surf. $0.00	$65.01
Quarry Development:	$0.00
Total:	$1,852.84

Notes:
Quantities shown are estimates only and not pay items.
Surfacing Quantities shown are loose cubic yards.

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Eighty Acre Sale Date: 5-16
Road Number: 34-2E-26.00 Road Name: Santiam Peak
Road Renovation: 0.40 mi 16 ft Subgrade 3 ft ditch 4/13/2016

200 Clearing and Grubbing: 0.3 acres	$506.87
300 Excavation:	$0.00
400 Drainage:	$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	$583.26
Blading 0.40 mi	
700-1200 Surfacing:	$0.00
1300 Geotextiles:	$0.00
1400 Slope Protection:	$0.00
1800 Soil Stabilization: 0.1 acres	$51.78
Includes Small Quantity Factor of 1.36	
1900 Cattleguards:	$0.00
2100 RoadSide Brushing: 0.6 acres	$345.96
2300 Engineering: 0.00 sta.	$0.00
2400 Minor Concrete:	$0.00
2500 Gabions:	$0.00
8000 Miscellaneous:	$0.00
Mobilization: Const. $54.10 Surf. $0.00	$54.10
Quarry Development:	$0.00
Total:	$1,541.97

Notes:
Quantities shown are estimates only and not pay items.
Surfacing Quantities shown are loose cubic yards.

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Eighty Acre Sale Date: 5-16
Road Number: 34-2E-26.01 Road Name: Upper Right Spur
Road Renovation: 0.34 mi 14 ft Subgrade 3 ft ditch 4/13/2016

200 Clearing and Grubbing: acres	$0.00
300 Excavation:	$0.00
400 Drainage:	$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	$2,295.77
Blading 0.34 mi	
700-1200 Surfacing:	$3,232.00
Quarry Name: Commercial 160 LCY	
1300 Geotextiles:	$0.00
1400 Slope Protection:	$0.00
1800 Soil Stabilization: 0.0 acres	$0.00
1900 Cattleguards:	$0.00
2100 RoadSide Brushing: 0.5 acres	$288.30
2300 Engineering: 0.00 sta.	$0.00
2400 Minor Concrete:	$0.00
2500 Gabions:	$0.00
8000 Miscellaneous:	$0.00
Mobilization: Const. $211.47 Surf. $0.00	$211.47
Quarry Development:	$0.00
Total:	$6,027.54

Notes:
Quantities shown are estimates only and not pay items.
Surfacing Quantities shown are loose cubic yards.

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Eighty Acre Sale Date: 5-16
Road Number: 34-2E-26.07 Road Name: Lookout Spur
Road Renovation: 0.11 mi 12 ft Subgrade 0 ft ditch 4/13/2016

200 Clearing and Grubbing: acres	$0.00
300 Excavation:	$0.00
400 Drainage:	$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	$93.52
Blading 0.11 mi	
700-1200 Surfacing:	$0.00
1300 Geotextiles:	$0.00
1400 Slope Protection:	$0.00
1800 Soil Stabilization: 0.0 acres	$0.00
1900 Cattleguards:	$0.00
2100 RoadSide Brushing: 0.2 acres	$115.32
2300 Engineering: 0.00 sta.	$0.00
2400 Minor Concrete:	$0.00
2500 Gabions:	$0.00
8000 Miscellaneous:	$0.00
Mobilization: Const. $7.59 Surf. $0.00.....	$7.59
Quarry Development:	$0.00
Total:	$216.44

Notes:
Quantities shown are estimates only and not pay items.
Surfacing Quantities shown are loose cubic yards.

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Eighty Acre Sale Date: 5-16
Road Number: 34-2E-35.01 Road Name: Fredenburg Spur
Road Renovation: 2.88 mi 16 ft Subgrade 3 ft ditch 4/13/2016

200 Clearing and Grubbing: acres	$0.00
300 Excavation:	$0.00
400 Drainage:	$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	$3,642.65
Blading 2.88 mi	
700-1200 Surfacing:	$0.00
1300 Geotextiles:	$0.00
1400 Slope Protection:	$0.00
1800 Soil Stabilization: 0.0 acres	$0.00
1900 Cattleguards:	$0.00
2100 RoadSide Brushing: 4.2 acres	$1,210.86
2300 Engineering: 0.00 sta.	$0.00
2400 Minor Concrete:	$0.00
2500 Gabions:	$0.00
8000 Miscellaneous:	$0.00
Mobilization: Const. $176.47 Surf. $0.00.....	$176.47
Quarry Development:	$0.00
Total:	$5,029.99

Notes:
Quantities shown are estimates only and not pay items.
Surfacing Quantities shown are loose cubic yards.

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Eighty Acre Sale Date: 5-16
Road Number: 34-2E-35.02A Road Name: Lookout Spur A
Road Renovation: 0.53 mi 14 ft Subgrade 0 ft ditch 4/13/2016

200 Clearing and Grubbing: acres	$0.00
300 Excavation:	$0.00
400 Drainage:	$1,502.40
Culvert: 30 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	$1,995.70
Blading 0.53 mi	
700-1200 Surfacing:	$1,796.60
Quarry Name: Commercial 80 LCY	
Quarry Name: BLM 20 LCY	
1300 Geotextiles:	$0.00
1400 Slope Protection:	$0.00
1800 Soil Stabilization: 0.1 acres	$51.78
Includes Small Quantity Factor of 1.36	
1900 Cattleguards:	$0.00
2100 RoadSide Brushing: 0.8 acres	$230.64
2300 Engineering: 0.00 sta.	$0.00
2400 Minor Concrete:	$0.00
2500 Gabions:	$0.00
8000 Miscellaneous:	$0.00
Mobilization: Const. $202.79 Surf. $0.00.....	$202.79
Quarry Development:	$0.00
Total:	$5,779.91

Notes:
Quantities shown are estimates only and not pay items.
Surfacing Quantities shown are loose cubic yards.

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Eighty Acre Sale Date: 5-16
Road Number: 34-2E-35.02B Road Name: Lookout Spur B
Road Renovation: 0.64 mi 12 ft Subgrade 0 ft ditch 4/13/2016

200 Clearing and Grubbing: acres	$0.00
300 Excavation:	$0.00
400 Drainage:	$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	$577.55
Blading 0.64 mi	
700-1200 Surfacing:	$404.00
Quarry Name: Commercial 20 LCY	
1300 Geotextiles:	$0.00
1400 Slope Protection:	$0.00
1800 Soil Stabilization: 0.0 acres	$0.00
1900 Cattleguards:	$0.00
2100 RoadSide Brushing: 0.9 acres	$518.94
2300 Engineering: 0.00 sta,	$0.00
2400 Minor Concrete:	$0.00
2500 Gabions:	$0.00
8000 Miscellaneous:	$0.00
Mobilization: Const. $54.56 Surf. $0.00	$54.56
Quarry Development:	$0.00
Total:	$1,555.04

Notes:
Quantities shown are estimates only and not pay items.
Surfacing Quantities shown are loose cubic yards.

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Eighty Acre Sale Date: 5-16
Road Number: 34-2E-35.03 Road Name: Fredendurg Lower L S
Road Renovation: 0.63 mi 14 ft Subgrade 3 ft ditch 4/13/2016

200 Clearing and Grubbing: acres	$0.00
300 Excavation:	$0.00
400 Drainage:	$8,026.00
Culvert: 120 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	$2,318.63
Blading 0.63 mi	
700-1200 Surfacing:	$2,014.84
Quarry Name: Commercial 80 LCY	
Quarry Name: BLM 60 LCY	
Quarry Name: BLM 80 Acre 6 LCY	
1300 Geotextiles:	$0.00
1400 Slope Protection:	$0.00
1800 Soil Stabilization: 0.3 acres	$155.34
Includes Small Quantity Factor of 1.36	
1900 Cattleguards:	$0.00
2100 RoadSide Brushing: 0.9 acres	$518.94
2300 Engineering: 0.00 sta.	$0.00
2400 Minor Concrete:	$0.00
2500 Gabions:	$0.00
8000 Miscellaneous:	$0.00
Mobilization: Const. $473.91 Surf. $0.00.....	$473.91
Quarry Development:	$0.00
Total:	$13,507.66

Notes:
Quantities shown are estimates only and not pay items.
Surfacing Quantities shown are loose cubic yards.

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Eighty Acre Sale Date: 5-16
Road Number: 34-2E-35.04 Road Name: Temp Sur
Road Renovation: 0.10 mi 14 ft Subgrade 3 ft ditch 4/13/2016

200 Clearing and Grubbing: acres	$0.00
300 Excavation:	$0.00
400 Drainage:	$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	$145.81
Blading 0.10 mi	
700-1200 Surfacing:	$0.00
1300 Geotextiles:	$0.00
1400 Slope Protection:	$0.00
1800 Soil Stabilization: 0.0 acres	$0.00
1900 Cattleguards:	$0.00
2100 RoadSide Brushing: 0.1 acres	$28.83
2300 Engineering: 0.00 sta.	$0.00
2400 Minor Concrete:	$0.00
2500 Gabions:	$0.00
8000 Miscellaneous:	$0.00
Mobilization: Const. $6.35 Surf. $0.00	$6.35
Quarry Development:	$0.00
Total:	$180.99

Notes:
Quantities shown are estimates only and not pay items.
Surfacing Quantities shown are loose cubic yards.

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Eighty Acre Sale Date: 5-16
Road Number: 34-2E-35.06 Road Name: Fredenburg Middle
Road Renovation: 0.41 mi 14 ft Subgrade 3 ft ditch 4/13/2016

200 Clearing and Grubbing: acres	$0.00
300 Excavation:	$0.00
400 Drainage:	$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	$2,697.84
Blading 0.41 mi	
700-1200 Surfacing:	$2,226.00
Quarry Name: Commercial 120 LCY	
1300 Geotextiles:	$0.00
1400 Slope Protection:	$0.00
1800 Soil Stabilization: 0.0 acres	$0.00
1900 Cattleguards:	$0.00
2100 RoadSide Brushing: 0.6 acres	$345.96
2300 Engineering: 0.00 sta.	$0.00
2400 Minor Concrete:	$0.00
2500 Gabions:	$0.00
8000 Miscellaneous:	$0.00
Mobilization: Const. $191.61 Surf. $0.00.....	$191.61
Quarry Development:	$0.00
Total:	$5,461.41

Notes:
Quantities shown are estimates only and not pay items.
Surfacing Quantities shown are loose cubic yards.

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Eighty Acre Sale Date: 5-16
Road Number: 34-2E-35.09 Road Name: Lower Left
Road Renovation: 0.10 mi 12 ft Subgrade 0 ft ditch 4/13/2016

200 Clearing and Grubbing: acres	$0.00
300 Excavation:	$0.00
400 Drainage:	$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	$85.02
Blading 0.10 mi	
700-1200 Surfacing:	$0.00
1300 Geotextiles:	$0.00
1400 Slope Protection:	$0.00
1800 Soil Stabilization: 0.0 acres	$0.00
1900 Cattleguards:	$0.00
2100 RoadSide Brushing: 0.1 acres	$57.66
2300 Engineering: 0.00 sta.	$0.00
2400 Minor Concrete:	$0.00
2500 Gabions:	$0.00
8000 Miscellaneous:	$0.00
Mobilization: Const. $5.19 Surf. $0.00	$5.19
Quarry Development:	$0.00
Total:	$147.87

Notes:
Quantities shown are estimates only and not pay items.
Surfacing Quantities shown are loose cubic yards.

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Eighty Acre Sale Date: 5-16
Road Number: 34-3E-19.01 Road Name: S19 Select
Road Renovation: 0.21 mi 14 ft Subgrade 3 ft ditch 4/13/2016

200 Clearing and Grubbing: acres	$0.00
300 Excavation:	$0.00
400 Drainage:	$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	$1,706.21
Blading 0.21 mi	
700-1200 Surfacing:	$1,836.40
Quarry Name: Commercial 80 LCY	
1300 Geotextiles:	$0.00
1400 Slope Protection:	$0.00
1800 Soil Stabilization: 0.0 acres	$0.00
1900 Cattleguards:	$0.00
2100 RoadSide Brushing: 0.3 acres	$345.96
2300 Engineering: 0.00 sta.	$0.00
2400 Minor Concrete:	$0.00
2500 Gabions:	$0.00
8000 Miscellaneous:	$0.00
Mobilization: Const. $141.39 Surf. $0.00.....	$141.39
Quarry Development:	$0.00
Total:	$4,029.96

Notes:
Quantities shown are estimates only and not pay items.
Surfacing Quantities shown are loose cubic yards.

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Eighty Acre Sale Date: 5-16
Road Number: 34-3E-19.03 Road Name: 7 up/80 ac.
Road Renovation: 0.19 mi 16 ft Subgrade 3 ft ditch 4/13/2016

200 Clearing and Grubbing: acres	$0.00
300 Excavation:	$0.00
400 Drainage:	$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	$291.63
Blading 0.20 mi	
700-1200 Surfacing:	$0.00
1300 Geotextiles:	$0.00
1400 Slope Protection:	$0.00
1800 Soil Stabilization: 0.0 acres	$0.00
1900 Cattleguards:	$0.00
2100 RoadSide Brushing: 0.3 acres	$86.49
2300 Engineering: 0.00 sta..	$0.00
2400 Minor Concrete:	$0.00
2500 Gabions:	$0.00
8000 Miscellaneous:	$0.00
Mobilization: Const. $13.75 Surf. $0.00.....	$13.75
Quarry Development:	$0.00
Total:	$391.87

Notes:
Quantities shown are estimates only and not pay items.
Surfacing Quantities shown are loose cubic yards.

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Eighty Acre Sale Date: 5-16
Road Number: 34-3E-21.03 Road Name: Horseshoe Road
Road Renovation: 0.20 mi 14 ft Subgrade 3 ft ditch 4/13/2016

200 Clearing and Grubbing: acres	$0.00
300 Excavation:	$0.00
400 Drainage:	$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	$291.63
Blading 0.20 mi	
700-1200 Surfacing:	$0.00
1300 Geotextiles:	$0.00
1400 Slope Protection:	$0.00
1800 Soil Stabilization: 0.0 acres	$0.00
1900 Cattleguards:	$0.00
2100 RoadSide Brushing: 0.3 acres	$86.49
2300 Engineering: 0.00 sta.	$0.00
2400 Minor Concrete:	$0.00
2500 Gabions:	$0.00
8000 Miscellaneous:	$0.00
Mobilization: Const. $13.75 Surf. $0.00.....	$13.75
Quarry Development:	$0.00
Total:	$391.87

Notes:
Quantities shown are estimates only and not pay items.
Surfacing Quantities shown are loose cubic yards.

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Eighty Acre Sale Date: 5-16
Road Number: 34-3E-28.00 Road Name: Upper Jackass
Road Renovation: 0.14 mi 14 ft Subgrade 3 ft ditch 4/13/2016

200 Clearing and Grubbing: acres	$0.00
300 Excavation:	$0.00
400 Drainage:	$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	$190.77
Blading 0.14 mi	
700-1200 Surfacing:	$0.00
1300 Geotextiles:	$0.00
1400 Slope Protection:	$0.00
1800 Soil Stabilization: 0.0 acres	$0.00
1900 Cattleguards:	$0.00
2100 RoadSide Brushing: 0.2 acres	$57.66
2300 Engineering: 0.00 sta.	$0.00
2400 Minor Concrete:	$0.00
2500 Gabions:	$0.00
8000 Miscellaneous:	$0.00
Mobilization: Const. $9.03 Surf. $0.00.....	$9.03
Quarry Development:	$0.00
Total:	$257.47

Notes:
Quantities shown are estimates only and not pay items.
Surfacing Quantities shown are loose cubic yards.

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Eighty Acre Sale Date: 5-16
Road Number: 34-3E-29.01 Road Name: Sec. 19 Select ML
Road Renovation: 2.99 mi 16 ft Subgrade 3 ft ditch 4/13/2016

200 Clearing and Grubbing: 2.8 acres	$5,380.66
300 Excavation:	$0.00
400 Drainage:	$19,846.82
Culvert: 290 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	$4,359.84
Blading 2.99 mi	
700-1200 Surfacing:	$580.28
Quarry Name: BLM 160 LCY	
Quarry Name: BLM 80 Acre 12 LCY	
1300 Geotextiles:	$0.00
1400 Slope Protection:	$0.00
1800 Soil Stabilization: 2.1 acres	$1,087.39
Includes Small Quantity Factor of 1.36	
1900 Cattleguards:	$0.00
2100 RoadSide Brushing: 4.3 acres	$1,239.69
2300 Engineering: 0.00 sta.	$0.00
2400 Minor Concrete:	$0.00
2500 Gabions:	$0.00
8000 Miscellaneous:	$0.00
Mobilization: Const. $1,181.51 Surf. $0.00	$1,181.51
Quarry Development:	$0.00
Total:	$33,676.19

Notes:
Quantities shown are estimates only and not pay items.
Surfacing Quantities shown are loose cubic yards.

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Eighty Acre Sale Date: 5-16
Road Number: 34-3E-29.02 Road Name: Jackass Creek
Road Renovation: 0.44 mi 14 ft Subgrade 3 ft ditch 4/13/2016

200 Clearing and Grubbing: acres	$0.00
300 Excavation:	$0.00
400 Drainage:	$1,502.40
Culvert: 30 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	$641.58
Blading 0.44 mi	
700-1200 Surfacing:	$119.50
Quarry Name: BLM 20 LCY	
1300 Geotextiles:	$0.00
1400 Slope Protection:	$0.00
1800 Soil Stabilization: 0.1 acres	$51.78
Includes Small Quantity Factor of 1.36	
1900 Cattleguards:	$0.00
2100 RoadSide Brushing: 0.6 acres	$172.98
2300 Engineering: 0.00 sta.	$0.00
2400 Minor Concrete:	$0.00
2500 Gabions:	$0.00
8000 Miscellaneous:	$0.00
Mobilization: Const. $90.47 Surf. $0.00.....	$90.47
Quarry Development:	$0.00
Total:	$2,578.72

Notes:
Quantities shown are estimates only and not pay items.
Surfacing Quantities shown are loose cubic yards.

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Eighty Acre Sale Date: 5-16
Road Number: 34-3E-30.00 Road Name: 19 Select
Road Renovation: 0.38 mi 14 ft Subgrade 3 ft ditch 4/13/2016

200 Clearing and Grubbing: 0.5 acres	$994.25
300 Excavation:	$0.00
400 Drainage:	$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	$760.53
Blading 0.38 mi	
700-1200 Surfacing:	$0.00
1300 Geotextiles:	$0.00
1400 Slope Protection:	$0.00
1800 Soil Stabilization: 0.3 acres	$129.45
Includes Small Quantity Factor of 1.36	
1900 Cattleguards:	$0.00
2100 RoadSide Brushing: 0.6 acres	$345.96
2300 Engineering: 0.00 sta.	$0.00
2400 Minor Concrete:	$0.00
2500 Gabions:	$0.00
8000 Miscellaneous:	$0.00
Mobilization: Const. $81.09 Surf. $0.00	$81.09
Quarry Development:	$0.00
Total:	$2,311.28

Notes:
Quantities shown are estimates only and not pay items.
Surfacing Quantities shown are loose cubic yards.

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Eighty Acre Sale Date: 5-16
Road Number: 34-3E-31.00 Road Name: A
Road Renovation: 0.10 mi 14 ft Subgrade 3 ft ditch 4/13/2016

200 Clearing and Grubbing: acres	$0.00
300 Excavation:	$0.00
400 Drainage:	$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	$145.81
Blading 0.10 mi	
700-1200 Surfacing:	$0.00
1300 Geotextiles:	$0.00
1400 Slope Protection:	$0.00
1800 Soil Stabilization: 0.0 acres	$0.00
1900 Cattleguards:	$0.00
2100 RoadSide Brushing: 0.1 acres	$57.66
2300 Engineering: 0.00 sta.	$0.00
2400 Minor Concrete:	$0.00
2500 Gabions:	$0.00
8000 Miscellaneous:	$0.00
Mobilization: Const. $7.40 Surf. $0.00.....	$7.40
Quarry Development:	$0.00
Total:	$210.87

Notes:
Quantities shown are estimates only and not pay items.
Surfacing Quantities shown are loose cubic yards.

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Eighty Acre Sale Date: 5-16
Road Number: 34-3E-31.01 Road Name: Lower 80 ac.
Road Renovation: 0.95 mi 14 ft Subgrade 3 ft ditch 4/13/2016

200 Clearing and Grubbing: acres	$0.00
300 Excavation:	$0.00
400 Drainage:	$5,644.04
Culvert: 98 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	$4,185.23
Blading 0.95 mi	
700-1200 Surfacing:	$3,819.20
Quarry Name: Commercial 160 LCY	
Quarry Name: BLM 60 LCY	
Quarry Name: BLM 80 Acre 4 LCY	
1300 Geotextiles:	$0.00
1400 Slope Protection:	$0.00
1800 Soil Stabilization: 0.3 acres	$155.34
Includes Small Quantity Factor of 1.36	
1900 Cattleguards:	$0.00
2100 RoadSide Brushing: 1.4 acres	$807.24
2300 Engineering: 0.00 sta.	$0.00
2400 Minor Concrete:	$0.00
2500 Gabions:	$0.00
8000 Miscellaneous:	$1,153.20
Mobilization: Const. $573.19 Surf. $0.00.....	$573.19
Quarry Development:	$0.00
Total:	$16,337.45

Notes:
Quantities shown are estimates only and not pay items.
Surfacing Quantities shown are loose cubic yards.

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Eighty Acre Sale Date: 5-16
Road Number: 34-3E-31.02 Road Name: Lower 80 ac.
Road Renovation: 0.94 mi 14 ft Subgrade 3 ft ditch 4/13/2016

200 Clearing and Grubbing: acres	$0.00
300 Excavation:	$0.00
400 Drainage:	$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	$4,670.65
Blading 0.94 mi	
700-1200 Surfacing:	$6,124.80
Quarry Name: Commercial 290 LCY	
1300 Geotextiles:	$0.00
1400 Slope Protection:	$0.00
1800 Soil Stabilization: 0.0 acres	$0.00
1900 Cattleguards:	$0.00
2100 RoadSide Brushing: 1.4 acres	$807.24
2300 Engineering: 0.00 sta.	$0.00
2400 Minor Concrete:	$0.00
2500 Gabions:	$0.00
8000 Miscellaneous:	$0.00
Mobilization: Const. $421.88 Surf. $0.00.....	$421.88
Quarry Development:	$0.00
Total:	$12,024.57

Notes:
Quantities shown are estimates only and not pay items.
Surfacing Quantities shown are loose cubic yards.

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Eighty Acre Sale Date: 5-16
Road Number: 34-3E-31.04 Road Name: Lower 80 ac.
Road Renovation: 0.26 mi 12 ft Subgrade 0 ft ditch 4/13/2016

200 Clearing and Grubbing: acres	$0.00
300 Excavation:	$0.00
400 Drainage:	$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	$1,621.05
Blading 0.26 mi	
700-1200 Surfacing:	$1,689.60
Quarry Name: Commercial 80 LCY	
1300 Geotextiles:	$0.00
1400 Slope Protection:	$0.00
1800 Soil Stabilization: 0.0 acres	$0.00
1900 Cattleguards:	$0.00
2100 RoadSide Brushing: 0.4 acres	$230.64
2300 Engineering: 0.00 sta.	$0.00
2400 Minor Concrete:	$0.00
2500 Gabions:	$0.00
8000 Miscellaneous:	$0.00
Mobilization: Const. $128.76 Surf. $0.00.....	$128.76
Quarry Development:	$0.00
Total:	$3,670.05

Notes:
Quantities shown are estimates only and not pay items.
Surfacing Quantities shown are loose cubic yards.

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Eighty Acre Sale Date: 5-16
Road Number: 34-3E-31.05 Road Name: 80 Acre Short Spur
Road Renovation: 0.13 mi 14 ft Subgrade 3 ft ditch 4/13/2016

200 Clearing and Grubbing: acres	$0.00
300 Excavation:	$0.00
400 Drainage:	$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	$189.56
Blading 0.13 mi	
700-1200 Surfacing:	$0.00
1300 Geotextiles:	$0.00
1400 Slope Protection:	$0.00
1800 Soil Stabilization: 0.0 acres	$0.00
1900 Cattleguards:	$0.00
2100 RoadSide Brushing: 0.2 acres	$57.66
2300 Engineering: 0.00 sta.	$0.00
2400 Minor Concrete:	$0.00
2500 Gabions:	$0.00
8000 Miscellaneous:	$0.00
Mobilization: Const. $8.99 Surf. $0.00	$8.99
Quarry Development:	$0.00
Total:	$256.21

Notes:
Quantities shown are estimates only and not pay items.
Surfacing Quantities shown are loose cubic yards.

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Eighty Acre Sale Date: 5-16
Road Number: 34-3E-31.06 Road Name: Upper North Spur
Road Renovation: 0.27 mi 12 ft Subgrade 0 ft ditch 4/13/2016

200 Clearing and Grubbing: acres	$0.00
300 Excavation:	$0.00
400 Drainage:	$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	$229.55
Blading 0.27 mi	
700-1200 Surfacing:	$0.00
1300 Geotextiles:	$0.00
1400 Slope Protection:	$0.00
1800 Soil Stabilization: 0.0 acres	$0.00
1900 Cattleguards:	$0.00
2100 RoadSide Brushing: 0.4 acres	$230.64
2300 Engineering: 0.00 sta.	$0.00
2400 Minor Concrete:	$0.00
2500 Gabions:	$0.00
8000 Miscellaneous:	$0.00
Mobilization: Const. $16.73 Surf. $0.00.....	$16.73
Quarry Development:	$0.00
Total:	$476.93

Notes:
Quantities shown are estimates only and not pay items.
Surfacing Quantities shown are loose cubic yards.

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Eighty Acre Sale Date: 5-16
Road Number: 34-3E-31.07 Road Name: Upper North
Road Renovation: 0.05 mi 12 ft Subgrade 0 ft ditch 4/13/2016

200 Clearing and Grubbing: acres	$0.00
300 Excavation:	$0.00
400 Drainage:	$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	$42.51
Blading 0.05 mi	
700-1200 Surfacing:	$0.00
1300 Geotextiles:	$0.00
1400 Slope Protection:	$0.00
1800 Soil Stabilization: 0.0 acres	$0.00
1900 Cattleguards:	$0.00
2100 RoadSide Brushing: 0.1 acres	$57.66
2300 Engineering: 0.00 sta.	$0.00
2400 Minor Concrete:	$0.00
2500 Gabions:	$0.00
8000 Miscellaneous:	$0.00
Mobilization: Const. $3.64 Surf. $0.00	$3.64
Quarry Development:	$0.00
Total:	$103.81

Notes:
Quantities shown are estimates only and not pay items.
Surfacing Quantities shown are loose cubic yards.

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Eighty Acre Sale Date: 5-16
Road Number: 35-2E-01.02 Road Name: N Fork Butte Creek
Road Renovation: 0.57 mi 12 ft Subgrade 0 ft ditch 4/13/2016

200 Clearing and Grubbing: acres	$0.00
300 Excavation:	$0.00
400 Drainage:	$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	$484.61
Blading 0.57 mi	
700-1200 Surfacing:	$0.00
1300 Geotextiles:	$0.00
1400 Slope Protection:	$0.00
1800 Soil Stabilization: 0.0 acres	$0.00
1900 Cattleguards:	$0.00
2100 RoadSide Brushing: 0.8 acres	$461.28
2300 Engineering: 0.00 sta.	$0.00
2400 Minor Concrete:	$0.00
2500 Gabions:	$0.00
8000 Miscellaneous:	$0.00
Mobilization: Const. $34.39 Surf. $0.00.....	$34.39
Quarry Development:	$0.00
Total:	$980.29

Notes:
Quantities shown are estimates only and not pay items.
Surfacing Quantities shown are loose cubic yards.

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Eighty Acre Sale Date: 5-16
Road Number: 35-2E-02.00 Road Name: Fredenburg
Road Renovation: 5.56 mi 16 ft Subgrade 3 ft ditch 4/13/2016

200 Clearing and Grubbing: 1.1 acres	$2,163.96
300 Excavation:	$0.00
400 Drainage:	$41,079.56
Culvert: 672 lf	
DownSpout: 20 lf	
PolyPipe: 0 lf	
500 Renovation:	$7,074.38
Blading 5.56 mi	
700-1200 Surfacing:	$2,964.32
Quarry Name: BLM 340 LCY	
Quarry Name: BLM 80 Acre 13 LCY	
1300 Geotextiles:	$0.00
1400 Slope Protection:	$0.00
1800 Soil Stabilization: 2.3 acres	$1,165.06
Includes Small Quantity Factor of 1.36	
1900 Cattleguards:	$0.00
2100 RoadSide Brushing: 8.1 acres	$4,670.46
2300 Engineering: 0.00 sta.	$0.00
2400 Minor Concrete:	$0.00
2500 Gabions:	$0.00
8000 Miscellaneous:	$0.00
Mobilization: Const. $2,149.53 Surf. $0.00	$2,149.53
Quarry Development:	$0.00
Total:	$61,267.27

Notes:
Quantities shown are estimates only and not pay items.
Surfacing Quantities shown are loose cubic yards.

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Eighty Acre Sale Date: 5-16
Road Number: 35-2E-02.01 Road Name: Sec. 1 Spur
Road Renovation: 0.60 mi 12 ft Subgrade 3 ft ditch 4/13/2016

200 Clearing and Grubbing: 0.3 acres	$604.35
300 Excavation:	$0.00
400 Drainage:	$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	$1,274.88
Blading 0.60 mi	
700-1200 Surfacing:	$742.00
Quarry Name: Commercial 40 LCY	
1300 Geotextiles:	$0.00
1400 Slope Protection:	$0.00
1800 Soil Stabilization: 0.2 acres	$77.67
Includes Small Quantity Factor of 1.36	
1900 Cattleguards:	$0.00
2100 RoadSide Brushing: 0.9 acres	$259.47
2300 Engineering: 0.00 sta.	$0.00
2400 Minor Concrete:	$0.00
2500 Gabions:	$0.00
8000 Miscellaneous:	$0.00
Mobilization: Const. $107.57 Surf. $0.00.....	$107.57
Quarry Development:	$0.00
Total:	$3,065.94

Notes:
Quantities shown are estimates only and not pay items.
Surfacing Quantities shown are loose cubic yards.

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Eighty Acre Sale Date: 5-16
Road Number: 35-2E-02.02 Road Name: Medco ML
Road Renovation: 0.45 mi 12 ft Subgrade 0 ft ditch 4/13/2016

200 Clearing and Grubbing: 0.0 acres	$0.00
300 Excavation:	$0.00
400 Drainage:	$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	$382.59
Blading 0.45 mi	
700-1200 Surfacing:	$0.00
1300 Geotextiles:	$0.00
1400 Slope Protection:	$0.00
1800 Soil Stabilization: 0.0 acres	$0.00
1900 Cattleguards:	$0.00
2100 RoadSide Brushing: 0.7 acres	$403.62
2300 Engineering: 0.00 sta.	$0.00
2400 Minor Concrete:	$0.00
2500 Gabions:	$0.00
8000 Miscellaneous:	$2,306.40
Mobilization: Const. $112.45 Surf. $0.00	$112.45
Quarry Development:	$0.00
Total:	$3,205.06

Notes:
Quantities shown are estimates only and not pay items.
Surfacing Quantities shown are loose cubic yards.

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Eighty Acre Sale Date: 5-16
Road Number: 35-2E-02.03 Road Name: Fredenburg Pasture S
Road Renovation: 1.73 mi 12 ft Subgrade 3 ft ditch 4/13/2016

200 Clearing and Grubbing: acres	$0.00
300 Excavation:	$0.00
400 Drainage:	$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	$1,562.89
Blading 1.73 mi	
700-1200 Surfacing:	$845.00
Quarry Name: Commercial 50 LCY	
1300 Geotextiles:	$0.00
1400 Slope Protection:	$0.00
1800 Soil Stabilization: 0.0 acres	$0.00
1900 Cattleguards:	$0.00
2100 RoadSide Brushing: 2.5 acres	$720.75
2300 Engineering: 0.00 sta.	$0.00
2400 Minor Concrete:	$0.00
2500 Gabions:	$0.00
8000 Miscellaneous:	$0.00
Mobilization: Const. $113.76 Surf. $0.00.....	$113.76
Quarry Development:	$0.00
Total:	$3,242.40

Notes:
Quantities shown are estimates only and not pay items.
Surfacing Quantities shown are loose cubic yards.

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Eighty Acre Sale Date: 5-16
Road Number: 35-2E-03.01 Road Name: 2.2 Spur
Road Renovation: 0.22 mi 12 ft Subgrade 0 ft ditch 4/13/2016

200 Clearing and Grubbing: acres	$0.00
300 Excavation:	$0.00
400 Drainage:	$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	$187.04
Blading 0.22 mi	
700-1200 Surfacing:	$0.00
1300 Geotextiles:	$0.00
1400 Slope Protection:	$0.00
1800 Soil Stabilization: 0.0 acres	$0.00
1900 Cattleguards:	$0.00
2100 RoadSide Brushing: 0.3 acres	$172.98
2300 Engineering: 0.00 sta.	$0.00
2400 Minor Concrete:	$0.00
2500 Gabions:	$0.00
8000 Miscellaneous:	$0.00
Mobilization: Const. $13.09 Surf. $0.00	$13.09
Quarry Development:	$0.00
Total:	$373.11

Notes:
Quantities shown are estimates only and not pay items.
Surfacing Quantities shown are loose cubic yards.

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Eighty Acre Sale Date: 5-16
Road Number: 35-2E-11.00 Road Name: N. Fork Butte Ck Med
Road Renovation: 2.00 mi 14 ft Subgrade 3 ft ditch 4/13/2016

200 Clearing and Grubbing: acres	$0.00
300 Excavation:	$0.00
400 Drainage:	$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	$2,916.28
Blading 2.00 mi	
700-1200 Surfacing:	$0.00
1300 Geotextiles:	$0.00
1400 Slope Protection:	$0.00
1800 Soil Stabilization: 0.0 acres	$0.00
1900 Cattleguards:	$0.00
2100 RoadSide Brushing: 2.9 acres	$1,672.14
2300 Engineering: 0.00 sta.	$0.00
2400 Minor Concrete:	$0.00
2500 Gabions:	$0.00
8000 Miscellaneous:	$0.00
Mobilization: Const. $166.84 Surf. $0.00.....	$166.84
Quarry Development:	$0.00
Total:	$4,755.26

Notes:
Quantities shown are estimates only and not pay items.
Surfacing Quantities shown are loose cubic yards.

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Eighty Acre Sale Date: 5-16
Road Number: Temp Route 31-4 Road Name: 31
Temporary Road: 0.10 mi 14 ft Subgrade 0 ft ditch 4/13/2016

200 Clearing and Grubbing: 0.3 acres	$559.20
300 Excavation:	$0.00
400 Drainage:	$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	$2,306.40
700-1200 Surfacing:	$0.00
1300 Geotextiles:	$0.00
1400 Slope Protection:	$0.00
1800 Soil Stabilization: 0.0 acres	$0.00
1900 Cattleguards:	$0.00
2100 RoadSide Brushing: 0.0 acres	$0.00
2300 Engineering: 0.00 sta.	$0.00
2400 Minor Concrete:	$0.00
2500 Gabions:	$0.00
8000 Miscellaneous:	$1,153.20
Mobilization: Const. $146.12 Surf. $0.00	$146.12
Quarry Development:	$0.00
Total:	$4,164.93

Notes:
Quantities shown are estimates only and not pay items.
Surfacing Quantities shown are loose cubic yards.

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Eighty Acre Sale Date: 5-16
Road Number: Temp Route 31-5 Road Name: Temp Route
Temporary Road: 0.21 mi 14 ft Subgrade 0 ft ditch 4/13/2016

200 Clearing and Grubbing: 0.7 acres	$1,248.89
300 Excavation:	$0.00
400 Drainage:	$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	$3,228.96
700-1200 Surfacing:	$0.00
1300 Geotextiles:	$0.00
1400 Slope Protection:	$0.00
1800 Soil Stabilization: 0.0 acres	$0.00
1900 Cattleguards:	$0.00
2100 RoadSide Brushing: 0.0 acres	$0.00
2300 Engineering: 0.00 sta.	$0.00
2400 Minor Concrete:	$0.00
2500 Gabions:	$0.00
8000 Miscellaneous:	$1,153.20
Mobilization: Const. $204.75 Surf. $0.00.....	$204.75
Quarry Development:	$0.00
Total:	$5,835.79

Notes:
Quantities shown are estimates only and not pay items.
Surfacing Quantities shown are loose cubic yards.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Summary of Construction Quantities

T.S. Contract Name: Eighty Acre Sale Date: 5-16

Road Number	Const	Improv	Renov	Decomm	Temp
34-2E-13.04			8.45		
34-2E-13.06			14.78		
34-2E-24.01			2.64		
34-2E-24.05			32.74		
34-2E-24.07			28.51		
34-2E-26.00			21.12		
34-2E-26.01			17.95		
34-2E-26.07			5.81		
34-2E-35.01			152.06		
34-2E-35.02A			27.98		
34-2E-35.02B			33.79		
34-2E-35.03			33.26		
34-2E-35.04			5.28		
34-2E-35.06			21.65		
34-2E-35.09			5.28		
34-3E-19.01			11.09		
34-3E-19.03			10.03		
34-3E-21.03			10.56		
34-3E-28.00			7.39		
34-3E-29.01			157.87		
34-3E-29.02			23.23		
34-3E-30.00			20.06		
34-3E-31.00			5.28		
34-3E-31.01			50.16		
34-3E-31.02			49.63		
34-3E-31.04			13.73		
34-3E-31.05			6.86		
34-3E-31.06			14.26		
34-3E-31.07			2.64		
35-2E-01.02			30.10		
35-2E-02.00			293.57		
35-2E-02.01			31.68		
35-2E-02.02			23.76		
35-2E-02.03			91.34		
35-2E-03.01			11.62		
35-2E-11.00			105.60		
Temp Route 31-4					5.28
Temp Route 31-5					11.09
Total Sta:			1,381.76		16.37

200 Clearing and Grubbing	Clearing acres
34-2E-13.04	0.2
34-2E-13.06	0.4
34-2E-24.01	0.0
34-2E-24.05	0.9
34-2E-24.07	0.3
34-2E-26.00	0.3
34-2E-26.01	0.0
34-2E-26.07	0.0
34-2E-35.01	0.0
34-2E-35.02A	0.0
34-2E-35.02B	0.0

Continuation of Construction Quantities

34-2E-35.03	0.0
34-2E-35.04	0.0
34-2E-35.06	0.0
34-2E-35.09	0.0
34-3E-19.01	0.0
34-3E-19.03	0.0
34-3E-21.03	0.0
34-3E-28.00	0.0
34-3E-29.01	2.8
34-3E-29.02	0.0
34-3E-30.00	0.5
34-3E-31.00	0.0
34-3E-31.01	0.0
34-3E-31.02	0.0
34-3E-31.04	0.0
34-3E-31.05	0.0
34-3E-31.06	0.0
34-3E-31.07	0.0
35-2E-01.02	0.0
35-2E-02.00	1.1
35-2E-02.01	0.3
35-2E-02.02	0.0
35-2E-02.03	0.0
35-2E-03.01	0.0
35-2E-11.00	0.0
Temp Route 31-4	0.3
Temp Route 31-5	0.7
Totals:	7.7

300 Excavation

	Excav LCY.s	Haul sta-yds	Haul yd-mi
Totals:	0	0	0

400 Drainage

Road Number	Culvert	Polypipe	Downspout
34-2E-35.02A	30 lf	0 lf	0 lf
34-2E-35.03	120 lf	0 lf	0 lf
34-3E-29.01	290 lf	0 lf	0 lf
34-3E-29.02	30 lf	0 lf	0 lf
34-3E-31.01	98 lf	0 lf	0 lf
35-2E-02.00	672 lf	0 lf	20 lf
Total Drainage:	1,240 lf		20 lf

500 Renovation

	Blade Miles	Slide cy
34-2E-13.04	0.16	0
34-2E-13.06	0.28	0
34-2E-24.01	0.05	0
34-2E-24.05	0.61	0
34-2E-24.07	0.54	0
34-2E-26.00	0.40	0
34-2E-26.01	0.34	0
34-2E-26.07	0.11	0
34-2E-35.01	2.88	0
34-2E-35.02A	0.53	0

Continuation of Construction Quantities

34-2E-35.02B	0.64	0
34-2E-35.03	0.63	0
34-2E-35.04	0.10	0
34-2E-35.06	0.41	0
34-2E-35.09	0.10	0
34-3E-19.01	0.21	0
34-3E-19.03	0.20	0
34-3E-21.03	0.20	0
34-3E-28.00	0.14	0
34-3E-29.01	2.99	0
34-3E-29.02	0.44	0
34-3E-30.00	0.38	0
34-3E-31.00	0.10	0
34-3E-31.01	0.95	0
34-3E-31.02	0.94	0
34-3E-31.04	0.26	0
34-3E-31.05	0.13	0
34-3E-31.06	0.27	0
34-3E-31.07	0.05	0
35-2E-01.02	0.57	0
35-2E-02.00	5.56	0
35-2E-02.01	0.60	0
35-2E-02.02	0.45	0
35-2E-02.03	1.73	0
35-2E-03.01	0.22	0
35-2E-11.00	2.00	0
Totals:	26.17	0

Construct Water Dip 34-2E-26.01
Armored Water Dip . . . . . 3 Ea
Construct Water Dip 35-2E-02.01
Armored Water Dip . . . . . 1 Ea
Construct Water Dip 34-2E-35.02A
Armored Water Dip . . . . . 2 Ea
Construct Water Dip 34-3E-31.04
Armored Water Dip . . . . . 2 Ea
Construct Water Dip 34-2E-35.03
Armored Water Dip . . . . . 2 Ea
Construct Water Dip 34-3E-31.02
Armored Water Dip . . . . . 6 Ea
Construct Water Dip 34-2E-35.06
Armored Water Dip . . . . . 3 Ea
Construct Water Dip 34-3E-31.01
Armored Water Dip . . . . . 4 Ea
Construct Water Dip 34-3E-19.01
Armored Water Dip . . . . . 2 Ea
Construct Water Dip 34-2E-13.04
Amored Water Dip . . . . . 1 Ea
Remove Culvert 34-3E-19.01
18" . . . . . 2 Ea
Remove Culvert 34-2E-13.04
18" . . . . . 2 Ea
Remove Culvert 34-2E-26.01
18" . . . . . 2 Ea
Remove Culvert 34-2E-35.02A
18" . . . . . 2 Ea
Remove Culvert 34-2E-35.06
18" . . . . . 3 Ea
Remove Culvert 34-3E-30.00
18" . . . . . 1 Ea
Remove Culvert 34-3E-31.01
18" . . . . . 4 Ea
Remove Culvert 34-3E-31.02

Continuation of Construction Quantities

18" . . . . . 3 Ea
Remove Culvert 34-3E-31.04
18" . . . . . 2 Ea
Remove Culvert 34-2E-35.03
18" . . . . . 2 Ea
Temp Route 31-4 Construction Temp Route 31-4
Tractor: D8 with rippers . . . . . 10 hr
Temp Route 31-5 Construction Temp Route 31-5
Tractor: D8 with rippers . . . . . 14 hr

Surfacing (Loose Cubic Yards)
Note: Due to slight rounding differences between total LCY vs. subtotaled LCY, Totals shown here may not be exactly as shown in the road summaries and worksheets.

Quarry Name: Commercial

Commercial	Roadway	Turnouts	Other	
34-2E-13.04	0	0	40	40
34-2E-26.01	0	0	160	160
34-2E-35.02A	0	0	80	80
34-2E-35.03	0	0	80	80
34-2E-35.06	0	0	120	120
34-3E-19.01	0	0	80	80
34-3E-31.02	0	0	290	290
34-3E-31.01	0	0	160	160
34-3E-31.04	0	0	80	80
34-2E-35.02B	0	0	20	20
35-2E-02.03	0	0	50	50
35-2E-02.01	0	0	40	40
Totals:	0	0	1,200	1,200

Quarry Name: BLM

Gov. Source	Roadway	Turnouts	Other	
34-2E-35.02A	0	0	20	20
34-2E-35.03	0	0	60	60
34-3E-29.01	0	0	160	160
34-3E-29.02	0	0	20	20
34-3E-31.01	0	0	60	60
35-2E-02.00	0	0	340	340
Totals:	0	0	660	660

Quarry Name: Commercial 1

Commercial	Roadway	Turnouts	Other	
Totals:	0	0	0	0

Quarry Name: BLM 80 Acre

Gov. Source	Roadway	Turnouts	Other	
34-2E-35.03	0	0	6	6
34-3E-29.01	0	0	12	12
34-3E-31.01	0	0	4	4
35-2E-02.00	0	0	13	13
Totals:	0	0	35	35

1300 Geotextiles

Totals: No Quantities

1400 Slope Protection

Continuation of Construction Quantities

Totals:	0

1800 Soil stabilization - acres	Dry W/O Mulch	Dry/with Mulch	Hydro Mulch
34-2E-13.04	0.0	0.1	
34-2E-13.06	0.0	0.2	
34-2E-24.05	0.0	0.5	
34-2E-24.07	0.0	0.1	
34-2E-26.00	0.0	0.1	
34-2E-35.02A	0.0	0.1	
34-2E-35.03	0.0	0.3	
34-3E-29.01	0.0	2.1	
34-3E-29.02	0.0	0.1	
34-3E-30.00	0.0	0.3	
34-3E-31.01	0.0	0.3	
35-2E-02.00	0.0	2.3	
35-2E-02.01	0.0	0.2	
Totals:	0.0	6.5	0.0

Small Quantity Factor of 1.36 used

1900 Cattleguards

Totals: No Quantities

2100 RoadSide Brushing	acres
34-2E-13.04	1.1
34-2E-13.06	0.4
34-2E-24.01	0.1
34-2E-24.05	0.9
34-2E-24.07	0.8
34-2E-26.00	0.6
34-2E-26.01	0.5
34-2E-26.07	0.2
34-2E-35.01	4.2
34-2E-35.02A	0.8
34-2E-35.02B	0.9
34-2E-35.03	0.9
34-2E-35.04	0.1
34-2E-35.06	0.6
34-2E-35.09	0.1
34-3E-19.01	0.3
34-3E-19.03	0.3
34-3E-21.03	0.3
34-3E-28.00	0.2
34-3E-29.01	4.3
34-3E-29.02	0.6
34-3E-30.00	0.6
34-3E-31.00	0.1
34-3E-31.01	1.4
34-3E-31.02	1.4
34-3E-31.04	0.4
34-3E-31.05	0.2
34-3E-31.06	0.4
34-3E-31.07	0.1
35-2E-01.02	0.8
35-2E-02.00	8.1
35-2E-02.01	0.9
35-2E-02.02	0.7

Continuation of Construction Quantities

35-2E-02.03	2.5
35-2E-03.01	0.3
35-2E-11.00	2.9
Totals:	39.0

2300 Engineering

	stations
Totals:	0.00

2400 Minor Concrete

Totals: No Quantities

2500 Gabions

Totals: No Quantities

8000 Miscellaneous

Landing Construction 34-3E-31.01
Tractor: D8 with rippers . . . . . 5 hr
Landing Construction Temp Route 31-5
Tractor: D8 with rippers . . . . . 5 hr
Landing Construction Temp Route 31-4
Tractor: D8 with rippers . . . . . 5 hr
Landing Construction 35-2E-02.02
Tractor: D8 with rippers . . . . . 10 hr

Form 5440-9
(December 2004)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

DEPOSIT AND BID FOR [X] **TIMBER*** [ ] **VEGETATIVE RESOURCE (Other Than Timber)**

SCALE SALE

Name of Bidder	
Tract Number	ORM05-TS-2016.0012
Sale Name	Eighty Acre
Sale Notice *(dated)*	5/5/2016
BLM District	Medford

		Sealed Bid for Sealed Bid Sale	X	Written Bid for Oral Auction Sale	

In response to the above dated Sale Notice, the required deposit and bid are hereby submitted for the purchase of designated timber/vegetative resource on the tract specified above.

Required bid deposited is **$ 61,800.00** and is enclosed in the form of ☐ cash ☐ money order ☐ bank draft ☐ cashier's check ☐ certified check ☐ bid bond of corporate surety on approved list of the United States Treasury ☐ guaranteed remittance approved by the authorized officer.

IT IS AGREED That the bid deposit shall be retained by the United States as liquidated damages if the bid is accepted and the undersigned fails to execute and return the contract, together with any required performance bond and any required payment within 30 days after the contract is received by the successful bidder. It is understood that no bid for less than the appraised price on a unit basis per species will be considered. If the bid is rejected the deposit will be returned.

BID SCHEDULE – LUMP SUM SALE

NOTE: Bidders should carefully check computations in completing the Bid Schedule

		BID SUBMITTED			ORAL BID MADE	
PRODUCT SPECIES	UNIT	ESTIMATED VOLUME OR QUANTITY	UNIT PRICE	TOTAL VALUE	UNIT PRICE	TOTAL VALUE
Douglas-fir	MBF	3,027	X	=	X	=
White Fir	MBF	2,150	X	=	X	=
Incense Cedar	MBF	149	X	=	X	=
Ponderosa Pine	MBF	118				
Sugar Pine	MBF	13	X	=	X	=
Total		**5,457**	X	=	X	=
			X	=	X	=
			X	=	X	=
			X	=	X	=
			X	=	X	=
			X	=	X	=
			X	=	X	=
			X	=	X	=
			X	=	X	=
			X	=	X	=
TOTAL PURCHASE PRICE						

(Continued on reverse)

If sale contract is executed, undersigned is liable for total purchase price even though the quantity cut, removed, or designated for taking is more or less than the total estimated volume or quantity shown above. Undersigned certifies bid was arrived at by bidder or offeror independently, and was tendered without collusion with any other bidder or offeror. In submitting or confirming this bid, undersigned agrees to the foregoing provisions, applicable regulations, and certifies that he is authorized to act as, or on behalf of, the bidder.

Bid submitted on *(date)*

(Check appropriate box, sign in ink, and complete the following)

☐ Signature, if firm is individually owned	Name of firm *(type or print)*
☐ Signatures, if firm is a partnership or L.L.C.	Business address, include zip code *(type or print)*
☐ Corporation organized under the state laws of	*(To be completed following oral bidding)*
Signature of Authorized Corporate Signing Officer	I HEREBY confirm the above oral bid By *(signature)*
Title	Date
Submit bid, in *duplicate*, to qualify for either an oral auction or sealed bid sale together with the required bid deposit made payable to the Department of the Interior – BLM. Oral Auction – Submit to Sales Supervisor prior to closing of qualifying period for tract.	Sealed Bid – Send to District Manager, who issued the sale notice, in a sealed envelope marked on the outside: (1) "Bid for Timber" (2) Vegetative Resource Other Than Timber (3) Time bids are to be opened (4) Legal description

NOTICE

The Privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 38 FR 6280 and 43 CFR 5442.1

PURPOSE: To qualify an oral auction bidder, and then if successful, to bind bidder to certain contract conditions.

ROUTINE USE: To determine that an individual is qualified to participate in oral auction bidding, and, as surety that bidder will fulfill contract requirements.

EFFECT OF NOT PROVIDING INFORMATION: Filing this deposit and bid information is necessary only when an individual wishes to participate in a sealed or auction bid sale for timber or vegetative resources.

INSTRUCTIONS TO BIDDERS

1. *AUTHORITY* – Timber located on the revested Oregon and California Railroad Grant Lands and on the reconveyed Coos Bay Wagon Road Grant Lands is administered and sold pursuant to authority of the Act of August 28, 1937 (50 Stat. 874; 43 U.S.C. 1181a); timber located on other lands and other vegetative resources on all public lands of the United States under jurisdiction of the Bureau of Land Management are administered and sold pursuant to authority of the Act of July 31, 1947 (61 Stat. 681), as amended, by the Act of July 23, 1955 (69 Stat. 367; 30 U.S.C. 601 et. seq.). Regulations of the Secretary of the Interior governing sale of timber are codified in 43 CFR Group 5400.

2. *QUALIFICATIONS OF BIDDERS* – A bidder for sale of timber/vegetative resources must be either (a) a citizen of the United States, (b) a partnership composed wholly of such citizens, (c) an unincorporated association composed wholly of such citizens, or (d) a corporation authorized to transact business in the State in which the timber/vegetative resource is located.

3. *INSPECTION OF TIMBER/VEGETATIVE RESOURCES* – Bidder is invited, urged, and cautioned to inspect the timber/vegetative resource prior to submitting a bid. By executing the timber/vegetative resource sale contract, bidder warrants that the contract is accepted on the basis of his examination and inspection of the timber/vegetative resource and his opinion of its value.

4. *DISCLAIMER OF WARRANTY* – Government expressly disclaims any warranty of the fitness of the designated timber/vegetative resource for any purpose of the bidder; all timber/vegetative resources are to be sold "As Is" without any warranty of merchantability by Government. Any warranty as to the quantity or quality of timber/vegetative resource to be sold is expressly disclaimed by Government.

5. *BIDS* – Sealed or written bids for not less than the advertised appraised price, per timber/vegetative resource must be submitted in duplicate to the District Manager who issued *Timber/Vegetative Resource Sale Notice*.

(a) *Sealed Bid Sales* – Bids will be received until time for opening which is set out in the Notice. Enclose both copies of bid with required bid deposit in a sealed envelope marked on the outside *Bid for Timber/Vegetative Resource*, time bid is to be opened, tract number, and legal description of land on which timber/vegetative resource is located. In event of a tie, the high bidder shall be determined by lot from among those who submitted the tie bids.

(b) *Auction Sales* – Submission of the required bid deposit and a written bid is required to qualify for oral bidding. Oral bidding shall begin from the highest written bid. No oral bid will be considered which is not higher than the preceding bid. In the event there is a tie in high written bids, and no oral bidding occurs, the bidder who was the first to submit his bid deposit and written bid shall be declared the high bidder. If the officer conducting the sale cannot determine who made the first submission of high tie written bids, the high bidder shall be determined by lot. High bidder must confirm his bid, in writing, immediately upon being declared high bidder.

(c) Except as otherwise provided in 43 CFR 5442.2, bids will not be considered in resale of timber/vegetative resource remaining from an uncompleted contract from any person or affiliate of such person who failed to complete the original contract because of (1) cancellation for the purchaser's breach or (2) through failure to complete payment by expiration date.

(d) When it is in the interest of the Government to do so, it may reject any and all bids and may waive minor deficiencies in bids or in sale advertisement.

6. *BID FORMS* – All sealed, written bids, and confirmation of oral bids shall be submitted on forms provided by Government.

(a) *Lump Sum Sales* – Bids shall specify (1) Bureau of Land Management estimated volume, (2) price per unit, and (3) total purchase price. Estimated volume and price per unit are to be used for administrative and appraisal purposes only. Upon award of contract, high bidder shall be liable for total purchase price, including any adjustment which may be made as a result of reappraisal if an extension of time is granted, even though quantity of timber/vegetative resource actually cut, removed, or designated for taking is more or less than the estimated volume or quantity listed.

(b) *Timber Scale Sales* – Bids must state price per thousand board feet that will be paid for each species. High bidder will be determined by multiplying bid price per thousand board feet per species by Bureau of Land Management estimate of volume of each species. Purchaser shall be liable for purchase price of all merchantable timber sold under contract even though all such timber is not actually cut and removed prior to expiration of time for cutting and removal as specified in contract.*

7. *BID DEPOSIT* – All bidders must make a deposit of not less than the amount specified in the *Timber/Vegetative Resource Notice*. Deposit may be in the form of cash, money orders, bank drafts, cashiers or certified checks made payable to the Department of the Interior – BLM, bid bonds of a corporate surety shown on the approved list of the United States Treasury Department*, or any approved guaranteed remittance approved by the Authorized Officer. Upon conclusion of bidding, the bid deposit of all bidders, except high bidder, will be returned. The cash deposit of the successful bidder may be applied toward the required sale deposit and/or the purchase price. Cash not applied to the sale deposit or the purchase price, or a corporate surety bid bond, will be returned at the time the contract is signed by the Government.

8. *AWARD OF CONTRACT* – Government may require high bidder to furnish such information as is necessary to determine the ability of bidder to perform the obligation of contract. Contract will be awarded to high bidder, unless he is not qualified or responsible or unless all bids are rejected. If high bidder is not qualified or responsible or fails to sign and return the contract together with required performance bond and any required payment, contract may be offered and awarded to the highest bidders qualified, responsible, and willing to accept the contract.

9. *TIMBER/VEGETATIVE RESOURCE SALE CONTRACT* – To be executed by purchaser, has been prepared by Government, and may be examined in the District Manager's office.

10. *PERFORMANCE BOND* -

(a) A performance bond in an amount of not less than 20 percent of total purchase price is required, but the amount of the bond shall not be in excess of $500,000, except when the purchaser opts to increase the minimum bond to permit cutting prior to payment as provided in 43 CFR 5451.2, or in the event the purchaser is a holder of an unresolved default the bond may be increased as provided in 43 CFR 5450.1(b). Performance bond may be (1) bond of a corporate surety shown on approval list issued by the United States Treasury Department and executed on an approved standard form, (2) personal surety bond executed on an approved standard form if Government determines principals and 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.

*U.S. GOVERNMENT PRINTING OFFICE: 1993-839-310